



# DASU HYDROPOWER CONSULTANTS

Dasu Hydropower Project

Joint Venture of



With sub-consultants



Address: DC Road, Tehsil Dasu, District Kohistan, KPK, Pakistan.

Phone: +92-998-407245-7

Fax: 92-998-407246

E-mail: [siteoffice@dasu-dhc.com](mailto:siteoffice@dasu-dhc.com)

Emergency Phone No: +51-6032283-4

Contract No: DHP-CSA01

Our Ref. No: DHC/Dasu/WAPDA/GEN/tm/23-062

Date: 13<sup>th</sup> January, 2023

General Manager/ Project Director,  
Dasu Hydropower Project,  
WAPDA Office Dasu, Kohistan

**Subject: Dasu HPP - MPR No.101 for the Month of December 2022 under Assignment-B**

In pursuance of Appendix-B to the Contract Agreement for the Consultancy Services, Kindly find enclosed Fourteen (14) copies of the above Subject Report.

Sincerely yours,

(21)

Project Manager  
Dasu Hydropower Consultants

**Attachment:** MPR No.101 (14 Copies)

**Copy to:**

1. All J.V. Members (1-copy each)
2. DHC Lahore Office
3. Office file



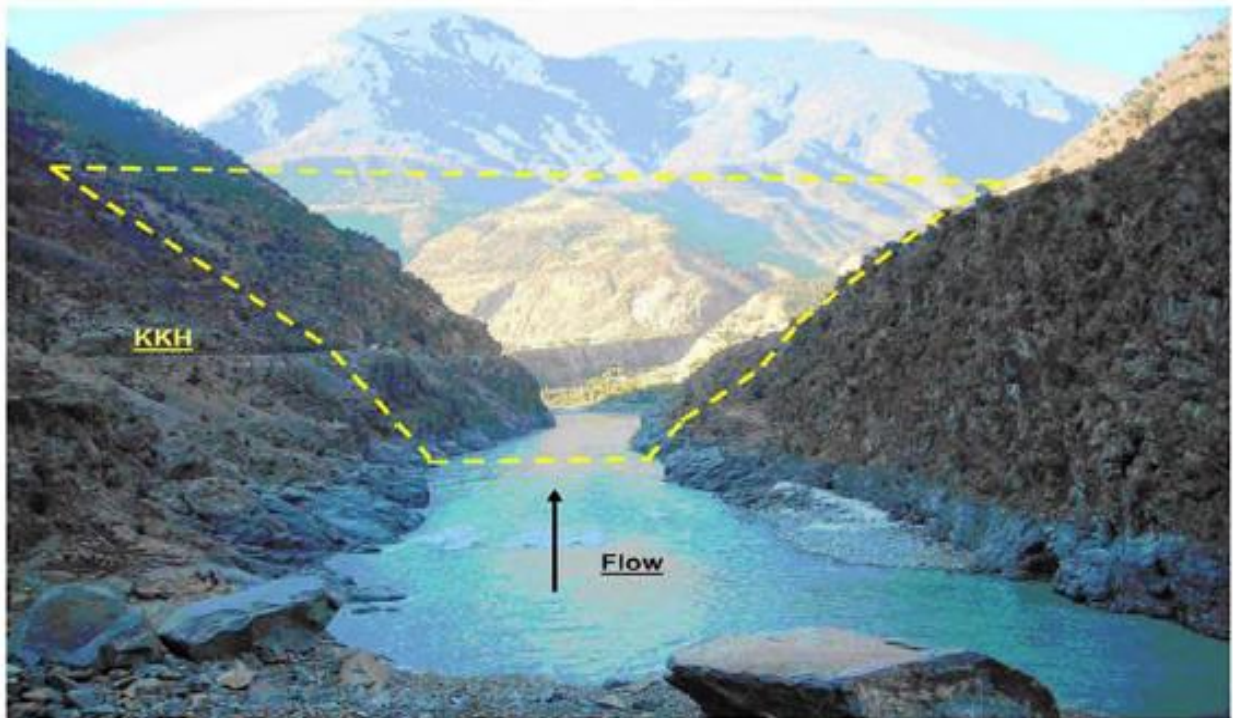
PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY

# DASU HYDROPOWER PROJECT

Consultancy Services for Preparation and Implementation of  
Dasu Hydropower Project

Assignment – B: Construction Design, Contract Management and  
Construction Supervision Support

Contract No. DHP-CSA01



## Monthly Progress Report No. 101

## December 2022

### Dasu Hydropower Consultants (DHC)

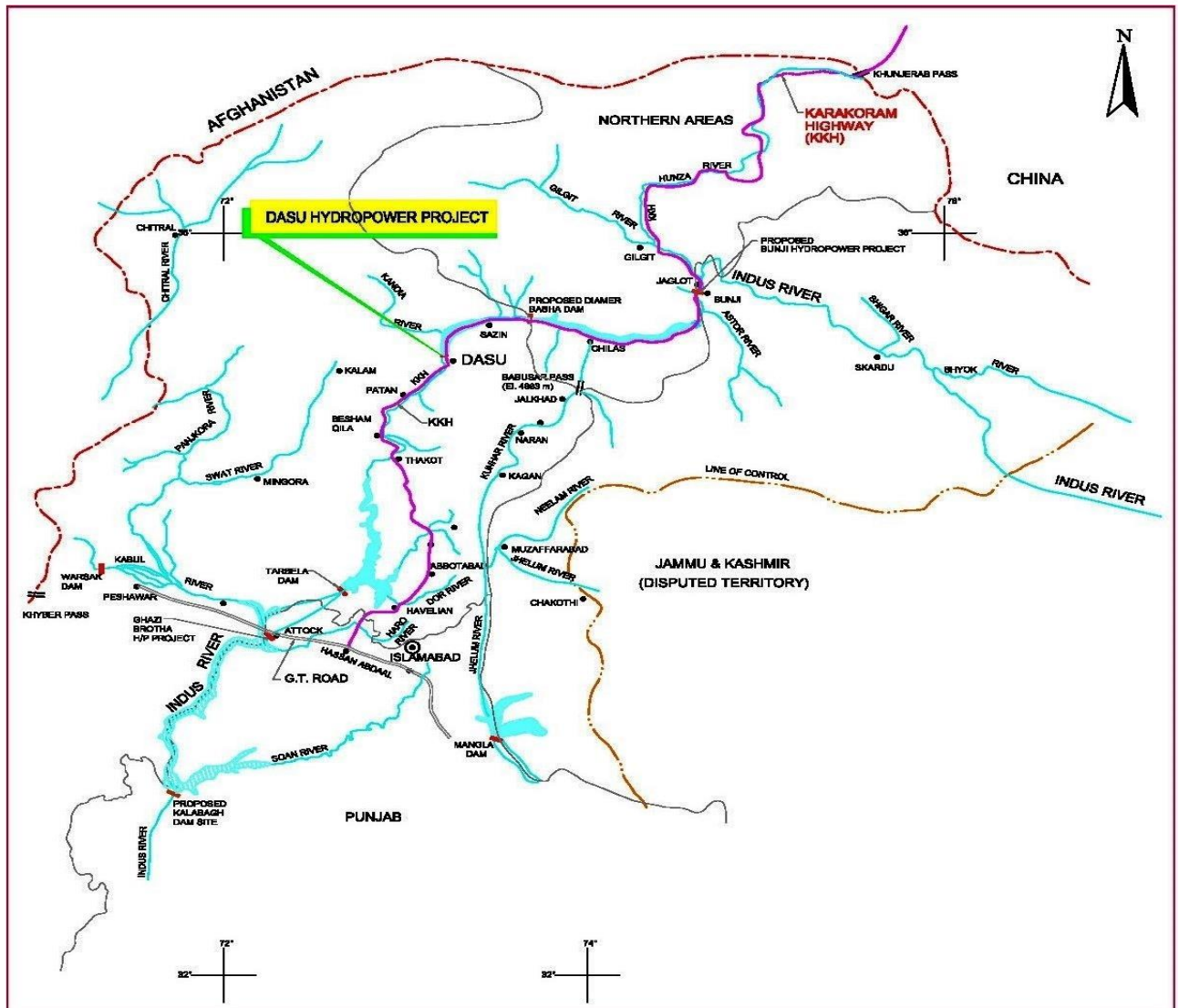
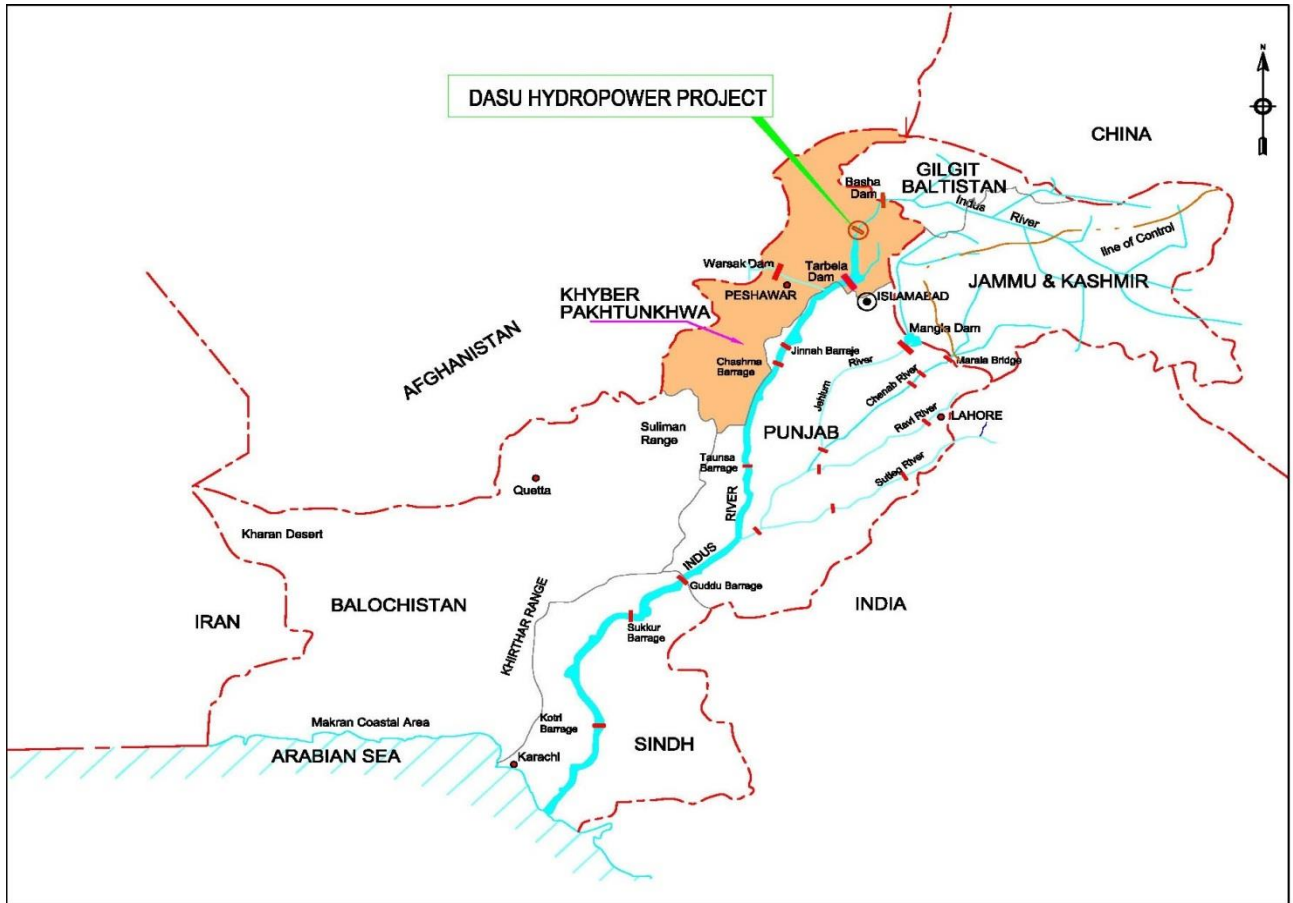
Joint Venture of



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## ABBREVIATIONS

AC	Assistant Commissioner
ACE	Associated Consulting Engineers
BER	Bid Evaluation Report
BHU	Basic Health Unit
BOQ	Bill of Quantities
CAR	Contractor's All Risks
CBGT	Capacity Building through Gender Training
CCC	Central Contract Cell
CCECC	China Civil Engineering Construction Corporation
CDA	Contract Discussion Agenda
CDP	Cut of Delivery Point
CEAP	Construction Environment Action Plan
CGGC	China Ghezouba Group Company
CIDA	Canadian International Development Agency
CMTL	Central Material Testing Laboratory
CPM	Contractor's Plant and Machinery
CRE	Chief Resident Engineer
CRFG	China Railway First Group
CRM	Conflict Resolution Management
CSC	Construction Supervision Consultants
CSG	Cement, Sand and Gravel
CSMS	Country Survey and Mapping Services
CVC	Conventional Concrete
CWG	Core Working Group
DC	Deputy Commissioner
DEO	District Education Officer
DFO	District Forest Officer
DHC	Dasu Hydropower Consultants
DHO	District Health Officer
DHPP	Dasu Hydropower Project
DHQ	District Head Quarter
DHSWG	District Health Strategy Working Group
DO	District Officer
DPD	Dy. Project Director
EA	Environmental Assessment
EAR	Erection All Risks
ECNEC	Executive Committee of National Economic Council
ECPs	Environmental Code of Practices
EDMI	Electronic Distance Measuring Instrument
EHS	Environmental Health and Safety
EM	Electro Mechanical
EMP	Environmental Management Plan
EOI	Expression of Interest
ESA	Environment and Social Assessment
F&PD	Finance and Planning Department
FGD	Focus Group Discussion
FWO	Frontier Works Organization
G&CH	Gender & Community Health

GIP	Gender Implementation Plan
GIS	Geographic Information System
GLP	General Layout Plan
GOP	Government of Pakistan
GWC	Gender Core Work-Group
HHs	House Holds
HRS	Hydraulic Research Station
ICB	International Competitive Bidding
IDF	Intensity-Duration-Frequency
IPC	Interim Payment Certificate
IPOE	International Panel of Expert
KKH	Karakoram Highway
KPK	Khyber Pakhtunkhwa
LA&AU	Land Acquisition and Assessment Unit
LAA	Land Acquisition Act
LBRV	Left Bank Resettlement Villages
LLG	Local Leading Group
LLO	Low Level Outlet
LWL	Low Water Level
MFO	Manager Field Operation
MIS	Management Information System
MO	Medical Officer
MONENCO	Montreal Engineering Company
NESPAK	National Engineering Services Pakistan
NHA	National Highway Authority
NOL	No Objection Letter
NTDC	National Transmission and Dispatch Company
OHS	Occupational Health & Safety
PAC	Price Assessment Committee
PAP	Project Affected People
PCCC	Power Construction Corporation of China
PCI	Project Colony Infrastructure
PD	Project Director
PESCO	Peshawar Electricity Supply Company
PHIP	Public Health Implementation Plan
PMU	Project Management Unit
PPE	Personal Protection Equipment
PQ	Prequalification
PST	Provisional Sales Tax
RAP	Resettlement Action Plan
RAR	Right Bank Access Road
RCC	Roller Compacted Concrete
RCPB	Resettlement Compensation Passbook
RHCs	Rural Health Centres
RHSA	Rural Health Services Area
RMR	Rock Mass Rating
ROW	Right of Way
S&R	Social and Resettlement
SA	Social Assessment
SAP	Social Action Plan

SBS	Sustainable Business Solution
SCF	Safety Check Flood
SDO	Sub Divisional Officer
SIA	Social Impact Assessment
SMBR	Senior Member Board of Revenue
SRSP	Sarhad Rural Support Program
SRU	Social & Resettlement Unit
TL	Transmission Line
TMP	Trial Mix Programme
TOR	Terms of Reference
VO	Variation Order
VTC	Vocational Training Centre
W&SD	Works and Services Department
WAPDA	Water and Power Development Authority
WB	World Bank
WCAP	Water Sector Capacity Building and Advisory Services Project
WMSC	WAPDA Model Study Cell
WVCs	Women Village Committees
XEN	Executive Engineer





## Salient Features of the Project

<b>Item</b>	<b>Features</b>
- Catchment Area at Dam Site	158,800 km <sup>2</sup>
- Average Discharge at Dam Site	2,102 m <sup>3</sup> /s
- Safety Check Flood (SCF) Pre-Basha	51,957 m <sup>3</sup> /s
- Basic Design Flood (BDF) Pre-Basha	24,932 m <sup>3</sup> /s
<b>Reservoir</b>	
- Gross Storage Capacity (El.950m)	1.41x 10 <sup>9</sup> m <sup>3</sup>
- Operational Storage Capacity	0.82x 10 <sup>9</sup> m <sup>3</sup>
<b>Water Level</b>	
- Flood Water Level under SCF	EL. 959.46 m
- Flood Water Level under BDF	EL. 951.28 m
- Full Supply Level (FSL)	EL. 950.00 m
- Low Water Level (LWL)	EL. 900.00 m
<b>Diversion Tunnel (revised)</b>	
- No. and Shape	2 No, D-shape
- Size and Lining	20 m (W) x 23 m (H), Invert concrete and shotcrete lined
- Length	Tunnel-A: 1,508 m, Tunnel-B: 1,333 m
<b>Main Dam</b>	
- Location	N = 35°19'6.61" E = 73°11'41.33"
- Type	Gravity Dam, RCC type
- Maximum Height above Foundation	242 m
- Crest Elevation/Length (Curved)	EL. 957.0 m/570.0 m
- RCC Volume	4.08 x 10 <sup>6</sup> m <sup>3</sup>
<b>Spillway</b>	
- Number of Bays	8
- Spillway Gates	Radial, 16.5 m (W) x 22.4 m (H)
- Spillway Stoplog	1 No. (Slide, 16.5 m (W) x 22.0 m (H) with gantry crane)
- Maximum Discharge Capacity under SCF	45,097 m <sup>3</sup> /s
- Plunge Pool	162.26 m from dam toe
<b>Low Level Outlet</b>	
- Number and Size	9 No. (Circular, 6.4 m diameter, L=180.233 m)
- Type and Size of Gates	Maintenance gates: fixed wheel, 8.4 m (W) x 8.4 m (H) Guard gates: fixed wheel, 5.1 m (W) x 6.4 m (H) Regulating gates: Radial, 5.1 m (W) x 6.4 m (H)
- Discharge Capacity under SCF	12,157 m <sup>3</sup> /s by 9-LLO at El.955.67 m 2,756 m <sup>3</sup> /s by 2-LLO at El.959.46 m
<b>Flushing Tunnel</b>	
- Number and Size	2 No. (Circular, 9.5 m diameter, L = 820 m / 680 m)
- Type and Size of Gates	Stop logs: 4.75 m (W) x 9.5 m (H) Guard/Regulating gates: Roller, 4.0 m (W) x 9.5 m (H)
- Discharge Capacity under free flow	1,060 m <sup>3</sup> /s per tunnel
<b>Power Intake</b>	
- Number and Shape	5 No, D=12 m, Flatbed type (1 No. for Future Extension)
- Removable Trash rack	4 sets
- Intake service gates	2 No, fixed wheel, 9.5 m (W) x 12.5 m (H) (finally 4 No.)
- Intake maintenance stop log	2 No, slide, 9.5 m (W) x 12.5 m (H)

<b>Item</b>	<b>Features</b>
- Intake gantry crane	1 No, for operation of stop logs and trash racks
<b>Power Tunnel</b>	
- Number and Shape	2 No, circular (After complete Stage II: 4no)
- Size and Lining	D=12 m, concrete lined
- Steel manifolds and branch pies	4 No, D=12.5 m to 5.5 m
- Average Length incl. shaft	450 m
<b>Power Generation</b>	
- Installed Capacity	2,160 MW (after completion of Stage II: 4,320 MW)
- Generating Units	6 No (after completion of Stage II: 12 No), Francis turbines
- Generating Unit Capacity	360 MW, 166.7 rpm
- Powerhouse Location	Underground, left bank
- Powerhouse Cavern L x W x H	212 m (424 m) x 31 m x 62 m
- Transformer Cavern L x W x H	212 m (424 m) x 22 m x 33.5 m
- Maximum Gross Head under 12-unit operation	187.17 m
- Design Head	179.51 m
- Rated Discharge	1,335 m <sup>3</sup> /s for 6 units, 2,670 m <sup>3</sup> /s for 12 units
- Rated Voltage	16.5 kV
- Annual Energy Production Pre-Basha	12,225 GWh (18,432 GWh)
- Plant Factor	49%
<b>Tailrace Tunnel</b>	
- Number and shape	2 No (after completion of Stage II 4 No), D-shaped
- Size and lining	10 m (W) x12.5 m (H) concrete lined
- Discharge per Tunnel	667.5 m <sup>3</sup> /s
- Average Length	2,152 m incl. draft tunnel
- Surge Chamber	2 No (after completion of Stage II: 4 No), D=37 m, H=56 m
- Surge Chamber Stop logs	4 No slide, 6.2 m (W) x 7.8 m (H) with gantry crane
- Tailrace Outlet Gates	4 No (after completion of Stage II: 8 No) fixed wheel, 9.0 m (W) x 8.0 m (H)
<b>Tail Water Level</b>	
- Flood Water Level under SCF	EL. 778.39 m
- Tail water level under 12-unit operation	EL. 762.83 m
- Tail water level under 3-unit operation	EL. 759.24 m
<b>Power Transmission</b>	
- Transmission Voltage	765 kV (AC)
- Powerhouse Substation	765 kV GIS, Underground
- Take-off Switchyard	765 kV AIS, Surface
<b>Relocation of Karakoram Highway (KKH)</b>	62 km
<b>Right Bank Access road from Komila to Uttar Gah Via Dam Crest</b>	81 km
<b>Major Project Roads</b>	
- Access to Left Abutment of Dam Crest from Relocated KKH via Switchyard	2.4 km

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## 1 EXECUTIVE SUMMARY

This Monthly Progress Report (MPR) for the Consultancy Services for Dasu Hydropower Project (hereinafter called as the Project) describes the Consultants activities carried out during the reporting month.

### 1.1 Major Events

- (1) Social and Resettlement Teams of WAPDA and DHC attended a two-days Peer Learning Event on Land Acquisition and Resettlement Planning organized by the World Bank in their office at Islamabad. Director S&R, Advisor S&R, and Advisor (LADP) from WAPDA side while Chief S&R from DHC, attended this experience learning and sharing event. It was an excellent learning and experience sharing opportunity where about 20 participants from various national organization participated.
- (2) Two-member World Bank Team visited DHPP during December 21-23, 2022 for reviewing the progress of resettlement sites. The World Bank team included Sr. Social Development Specialist (Mr. Imran-ul-Haq), and Senior Environmental Specialist (Mr. Ahmed Imran).  
The World Bank Team was briefed about the progress and issues of seven under construction resettlement sites development. The World Bank Mission Team met with the Deputy Commissioner and Land Acquisition Collector and push them to resolve the issue of water source related to resettlement sites as these sites has to be handed over as early as possible. The team also visited WAPDA Colony and offices and four resettlement sites of LBRV-11 and Dasu RV.
- (3) Advisor Projects (Mr. Nasir Hanif) visited the site on 21<sup>st</sup> December 2022 & 22<sup>nd</sup> December 2022. Detailed meetings regarding the progress and critical issues were held in the WAPDA's office with the Engineer and Contractors of CGGC, CCECC, PCCC, CGICOP for ongoing contracts.
- (4) During December 2022, an amount of PKR 153,975,939/- was paid as compensation payment to 77 PAPs of 17 components. A total of 105 cheques were issued by DC office.  
By the end of December 2022, a total amount of PKR 19.39 billion was paid, including PKR 19.05 billion to 7,871 PAPs through 11,671 cheques and PKR 245.240 million deposited to court for disputed cases. While PKR 27.717 million and PKR 65.598 million paid directly to FWO and PTDC respectively.

### 1.2 Procurement Status

The Procurement Status of Contracts for Preparatory Works, Resettlement Works and Main Works is summarized as follows: -

The following table presents the Procurement/Award Status for the Preparatory and Main Work's Contracts.

**Table 1.1: Procurement Status of Preparatory and Main Works Contracts**

Sr. No.	Contract No.	Date of Award	Date of Signing	Commencement Date	Original Completion Date	Name of Contractor
1	MW-01: Main Hydraulic Structure, Spillway, Low-Level Outlets, River Diversion, and Hydraulic Steel Structures	29.12.2016	08.03.2017	23.06.2017	22-1-2023	China Ghezouba Group Company Limited (CGGC)s
2	MW-02: Under Ground Power Complex, Tunnels and Hydraulic Steel Structure	29.12.2016	08.03.2017	23.06.2017	21-2-2023	China Ghezouba Group Company Limited (CGGC)
3	EM-01: Procurement of Plant Design, Supply, Installation, Testing & Commissioning of Hydro-Mechanical and Electrical Equipment	22.10.2019	25.11.2019	20.5.2020	19-6-2025	G.E. Hydro China Co. Ltd. & Power China Zhongmei Engineering Corporation Ltd. Joint Venture (GE-PC JV)
4	KKH-01: Relocation of Karakoram Highway from KM 0+000 to 25+200	09.02.2015	16.03.2015	24.08.2015	20-2-2017	China Civil Engineering Construction Company (CCECC)
5	RAR-01: Construction of Right Bank Access Road from Komila to SEO Dam Site	09.02.2015	16.03.2015	24.08.2015	22-8-2016	China Civil Engineering Construction Company (CCECC)
6	TL-01: Procurement, Design, Supply, Installation, Testing & Commissioning of 132 kV Single Circuit Transmission Line and Grid Station (From Switchyard Dubair Khwar to proposed Grid Station Dasu)	03.03.2015	24.04.2015	02.11.2015	18-6-2016	Power China Corporation Company (PCCC)
7	Resettlement of Villages Left Bank of Indus River LBRV-11	27.02.2017	20.04.2017	26.12.2018	25-12-2019	Zhongmei Engineering Group Limited
8	Resettlement of Villages Left Bank of Indus River LBRV-12	27.02.2017	20.04.2017	26.12.2018	25-12-2019	Zhongmei Engineering Group Limited

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Sr. No.	Contract No.	Date of Award	Date of Signing	Commencement Date	Original Completion Date	Name of Contractor
9	RAR-02: Construction of Right Bank Access Road from Dam Site to Uttar Gah	22.06. 2016	18.01. 2017	20.12. 2021	18-5-2023	China Ghezouba Group Company Limited (CGGC)
10	KKH-02: Relocation of Karakoram Highway from KM 25+200 to 62+213	27.02. 2017	25.04. 2017	Commencement Letter not yet issued/ Land Issue		China Ghezouba Group Company Limited (CGGC)
11	Right Bank of Indus River RBRV-11	27.02. 2017	25.04. 2017	Commencement Letter not yet issued/ Land Issue		China Railway 17 <sup>th</sup> Bureau Group Co. Ltd. (CR17B)
12	PCI-01R: Project Colony & Infrastructure (Rebid)	27.08. 2017	18.10. 2018	20.5.2019	17-5-2021	China Gansu International Corporation for Economic and Technical Cooperation (CGICOP)
13	RV: Resettlement of Village Choochang & Construction of Shatial Museum (Re-Bid)	23.04. 2019	18.06. 2019	18.06. 2019	15-12-2020 & 16-10-2019	Khyber Grace (Pvt.) Limited (KGL)

(1) The Contracts DASU-PCI-01R and DASU-RV were terminated due to a breach of the Contracts by the Contractor M/s CRFG. Hence, both the Contracts were re-awarded.

The following table presents the current status of the procurement process for the Preparatory Contracts - to be awarded.

**Table 1.2: Procurement Status of Preparatory Contracts to be Awarded**

Sr. No.	Contracts Name	Specific Procurement Notice for Prequalification Application		Invitation for Bid (IFB)	Pre-Bid Meeting	Final Bid Submission/ Opening Date
		Opening	Closing			
1	RAR-03: Construction of Right Bank Access Road from Uttar Gah to Shatial	Revised draft PQ Documents were submitted to WAPDA on 10 <sup>th</sup> April 2017. Comments of CCC were received and after incorporating said comments the PQ documents were resubmitted to WAPDA on 31 <sup>st</sup> May 2017.				
2	PCI-02: Project Colony & Infrastructure	Revised Draft Bidding Documents were submitted to the Employer for review, comments, and further processing via CCC and the World Bank in Jan. 2018.				
3	Resettlement of Villages Left Bank of Indus River LBRV-13- Right Bank of Indus River RBRV-12	The Design Phase is subject to the agreement of the Design by the Local Affectees.				
4	Resettlement of Villages RV-01 & RV-02	RV-01 - Resettlement plan of one resettlement site has been finalized. It is yet to be decided to make it a part of another Contract package. RV-02 - The process of identifying/finalizing a suitable site location.				
5	TL-02: 11kV Distribution Line to Resettlement Villages	Under review to enable the procurement process to be handled by the Local Area Development Fund. The proposal on the Integration of Rural Electrification by 11kV DL was submitted on 9 <sup>th</sup> December 2016.				
6	VTC-01: Vocational Training Centers for Men and Women	Draft Bidding Documents already submitted to WAPDA. The location for establishing a VTC facility in Dasu is still under DC's review and its suitability including the provision of staff and skilled trainers is to be confirmed by MD KPK-TEVTA Peshawar already requested by the Employer via letter dated 19 <sup>th</sup> October 2020.				

## 2 PROJECT DESCRIPTION

The Project is located at 7 km North of Dasu village in the Kohistan District of the Khyber Pakhtunkhwa Province, and 350 km North from Islamabad, the capital city of Pakistan. The dam site is 74 km downstream from the Diamer Basha Dam site along the Indus River. The Dasu reservoir will be extended to just downstream of the Diamer Basha dam axis.

Pakistan is rich in natural resources including hydropower potential. However, only small portion of hydro potential (about 15%) has since been developed, but a large portion of the same is yet to be harnessed.

The Project was initially identified as a potential power project in the Ranking and Inventory Study in 1981 with financial assistance from the Canadian International Development Agency (CIDA). In this study, Montreal Engineering Company (MONENCO) was engaged to undertake the preparation of inventory and ranking study of the potential water storage and hydropower generation sites along the upper reaches of the Indus River and its tributary in the upstream of Tarbela Dam. MONENCO submitted the study report in 1982, in which they proposed 25 major potential sites on the main rivers, each having an installed capacity of more than 100 MW. Nine of these projects are located on Indus River and the Project was ranked second on the upper Indus River following the Diamer Basha Dam Project.

To cope with the increasing water and power demands of the country, WAPDA prepared "Water Resources and Hydropower Development - Vision 2025 Program", which was approved by the Government of the Pakistan (GOP) in 2001. This program envisaged exploitation of the potential water resources of Pakistan for irrigation, hydropower generation and water supply. The projects in the program were planned to be phased over a period of twenty-five years as shown in the following Table:

**Table 2.1: Implementation of Vision 2025 Program**

Project Category	Period of Implementation	Phase
Short Term Project	2001-2006	I
Medium Term Project	2006-2011	II
Long Term Project	2011-2025	III

The Project is included in Phase III of the Vision 2025.

The GOP approved PC-II of the Project in 2003 for 1) feasibility study and 2) detailed engineering design and tender documents. The feasibility study of the Project (the Feasibility Study) was prepared by the Consultants comprising a joint venture of NESPAK, ACE, COLENCO and MWH in association with Binnie and Partners (Overseas) and completed in February 2009.

The detailed design work started from September 2011 and substantially drafted up in the beginning of 2013 and finalized in July 2014 after incorporating comments received from relevant departments of WAPDA and Panel of Experts. When the detailed design was substantially completed in February 2013, the implementation of the Project was formulated with four-phased development as follows:

- **Stage-I**
  - **Phase-1:**  
Construction of the dam with full height including whole gate facilities for such as spillway, Low Level Outlet (LLO) and flushing tunnels; full construction of power intake; one waterway tunnel until the tailrace outlet; underground powerhouse complex for 3-unit generating equipment; control building with 1 bay of transmission line at switchyard.
  - **Phase-2:**  
Second waterway tunnel until the tailrace outlet; underground powerhouse complex for another 3-unit generating equipment; 1 bay of transmission line at switchyard.
- **Stage-II**
  - **Phase-3:**  
Third waterway tunnel until the tailrace outlet; underground powerhouse complex for another 3-units generating equipment; 1 bay of transmission line at switchyard.
  - **Phase-4:**  
Fourth waterway tunnel until the tailrace outlet; underground powerhouse complex for another 3-unit generating equipment; 1 bay of transmission line at switchyard.

However, through the discussion among the relevant authorities of GoP, **WAPDA decided to develop the Dasu Project with two stages: Stage-I comprising Phase-1 and Phase-2 implemented simultaneously and Stage-II being of Phase-3 and Phase-4.** This stage-wise development was stated in PC-I Document, which was approved by ECNEC in March 2014.

Structural components for each stage are shown in the following Table:

**Table 2.2: Structural Components for Each Stage**

Facilities	Description	Stage I	Stage II
Dam	242m high dam 8 spillways with gates 9 LLO with gates 2 flushing tunnels with gates	Completion of all facilities listed in Description of Dam	
Power Intake & Tunnel	5 intake and shafts with 5 gates. 4 Power tunnel	5 intake and shafts with 2 gates 2 power tunnels	Another 2 gates 2 power tunnels
Underground Powerhouse Complex	Cavern for 12-unit GE space and installation of 12 GE units Cavern for 12-unit GIS space and installation of 12 GIS units 4 surge chambers 4 tailrace tunnels incl. these outlets. 4 bays with Control Building	Cavern for 7-unit GE space and installation of 6 GE units Cavern for 7-unit GIS space and installation of 6 GIS units two surge chambers Two tailrace tunnels incl. these outlets. two bays with Control Building	Cavern for 5-Unit GE space and installation of 6 GE units Cavern for 5-unit GIS space and installation of 6 GIS units two surge chambers, two tailrace tunnels two bays
T/L	765 kV T/L, 2 lines, double circuit	765kV 2-line, double circuit	
Installed Capacity	4,320 MW	2,160 MW	2,160 MW
Energy Production		12,225 GWh/year	18,432 GWh/year

The following preparatory works are required to be completed before the start of Stage-I as listed in above table:

- Relocation of KKH (62 km)
- Construction of Right Bank Access Road (81 km)
- Construction of WAPDA O & M Staff Colony

- Construction of 132 kV Transmission Line from Dubair to Dasu Town Grid Station
- Resettlement and environment mitigation measures
- Dismantling of bridges over Indus River.

The project layout plan and implementation schedule are shown in Figures-1 and 2 respectively.

### **3 CONSTRUCTION SUPERVISION CONSULTANTS ACTIVITY**

#### **3.1 Contract for the Consultancy Services**

The Contract for Consultancy Services for preparation and implementation of Dasu Hydropower Project under Sub Component B4 of WCAP of World Bank was awarded by WAPDA to the Dasu Hydropower Consultants (DHC) consisting of the Joint Venture of Nippon Koei Co., Ltd. (NK, Japan) (Lead Firm) and Dolsar Engineering Inc. Co. (Dolsar, Turkey), Development & Management Consultants (DMC, Pakistan), National Development Consultants (Pvt.) Ltd. (NDC, Pakistan) and Pakistan Engineering Services (Pvt.) Ltd. (PES, Pakistan) as Sub Consultants.

The Contract agreement between WAPDA and the Consultants was signed on 19<sup>th</sup> September 2011 under contract number DHP-CSA01.

General Manager Dasu Hydropower Project of WAPDA is the representative of the client and is responsible to coordinate all interfaces with the relevant departments of WAPDA. The Project Manager Dasu Hydropower Consultants is the contact person of the Consultants team.

The Consultants have established site office and hostels for their staff at Dasu for execution of various construction activities including Social & Environmental Program.

Presently the main activities under Consultants obligations are Construction Supervision of ongoing Contracts.

Five Amendments agreed up to are summarized below.

Amendment No.	Reason
1.	- Execution of additional study and field investigations so as to satisfy the design conditions under Pre-Basha status, IPOE's comments and the Bank's requirements. - Provision of Extension of Time (4 months) to manage delayed bidding procedure (Assignment-A)
2.	- Updating and adjusting the manning schedule and associated cost before starting of supervision stage (Assignment-B)
3.	- Application of PST (Provincial Sales Tax) that has been introduced during execution of consultancy services
4 (A)	- Updating and adjusting of remuneration and reimbursable cost
4 (OHS)	- Inclusion of new Sub-Consultants for Occupational Health & Safety (OHS) Services
4 (B)	- Time extension, updating and revision of implementation schedule and associated cost

The organization chart of the Consultants is presented in Figure-3 to comply with the work activities under Assignment-B.

#### **3.2 Objectives and Scope of Work**

The objectives and scope of the Consultancy Services specified in the Terms of Reference (TOR) are as follows:

##### **3.2.1 Objectives**

The main objective of the proposed consultancy services is to support Water and Power Development Authority (WAPDA) in project preparation studies including

- **Assignment-A:** Preparation of Detailed Engineering Designs, Bidding Documents and PC-I including engineering, economic, environmental and social studies and
- **Assignment-B:** Contract Management and Construction Supervision of all works and activities included under the Dasu Hydropower Project.

These works will be carried out according to International Standards, which will form the basis for project appraisal by the World Bank and the Government of Pakistan.

##### **3.2.2 Scope of the Services**

As noted above the objectives of the Consultants are divided into two assignments (Assignment-A and Assignment-B). Assignment-A covers the preparation of detailed engineering design, bidding documents, PC-I and support to the client during tendering and Assignment-B for contract management and support to the Client during construction supervision.

The original Scope of Services for Assignment B: Contract Management and Support to the Client during Construction Supervision was revised during the Assignment A, based on WAPDA's and the World Bank's requirements for implementation and combining both Services for Phase-1 and Phase-2, which is called Stage-I. The Revised Scope of Services for Assignment B is as follows:

- i. Tendering, contracting and preparation of construction design.
- ii. Supervision of investigations including hydraulic model tests and RCC trial mix tests in succession of Assignment- A.
- iii. Support to the Client during tendering and evaluation of bids for Stage-I; preparation of prequalification documents, evaluation of EOI application and prequalification notices, attendance of pre-bid conference, assisting WAPDA for replies of question and issuance of addendum if required; evaluation of bids and negotiation and award of the Contract.
- iv. Assignment as "The Engineer" for work contracts for approval of drawings and role of the "Engineer".
- v. Construction supervision for Stage-I; monitoring of work progress and payment progress; review and approval of construction methods & schedules to be prepared by the contractors.
- vi. Project management for Stage-I, and support in implementation of EA/EMAP, SA/SAP, procurement and financial management.
- vii. Review and approval of the contractors environmental management action plans, supervision of implementation of EMAP, review of EMAP and update the EMAP if required, regularly reviewing and assessing environmental risks throughout the construction phase, training of WAPDA's environmental staff for effective environmental management at site.
- viii. Preparation of monthly and quarterly progress reports for submission to WAPDA, and the World Bank.
- ix. Preparation of Tender documents of Stage-II: support to the Client during preparation of bidding documents, replies to questions, issuance of addendum if required, evaluation of bids, negotiation and award of Contract.

### 3.2.3 Reports and Documents

The Consultants are required to prepare reports in English and provide copies of the reports to the Government and the World Bank as mentioned in the following Table:

**Table 3.1: List of Reports and Documents to be provided**

Sr. No.	Assignment B	Numbers of Copy
1.	Progress Reports including Monthly and Quarterly Reports	10
2.	Detailed Engineering Design Report consisting of a Report for Design of the Project works, Definition of the Project, Cost Estimates, Economic and Financial, Environmental and Social Analysis, Implementation Plan etc.	50
3.	Bidding Documents: Bidding Documents for all Civil Works, Hydraulic, Electrical and Mechanical equipment, BOQs, Tender Cost Estimates and Technical Specification for each lot separately.	50
4.	Engineers Estimate for each Lot Separately	5
5.	Contractors Pre-qualification Document for each Lot Separately	30
6.	Contractors Pre-qualification Evaluation Report for each Lot Separately	As required
7.	Contractors Bids Evaluation Report for each Lot Separately	As required
8.	Construction reports, quarterly reports, annual work plans	10
9.	Project implementation status reports quarterly, annual	10
10.	Implementation status report for EMP, SAP, RAP and work plans etc. on regular basis	10
11.	Minutes of Weekly/bimonthly/monthly meetings held with Contractors	10
12.	Correction/Amendment in Drawing submitted by Contractor	10
13.	Operation Manual for M&E Equipment	10
14.	Operation Manual for Civil Structures	10
15.	Operation Manual for Gates and Hydraulic Steel Structures	10
16.	Completion Reports	10
17.	Initial Inspection Report before start of Operation	10
18.	Initial Inspection Report after four months of Operation	10
19.	Testing Report at M&E Manufacturers premises	10

### 3.2.4 Commencement of the Services

#### Assignment – A

The Consultants commenced the Services with effect from 19<sup>th</sup> September 2011 at the same time when the Contract was signed. The services for Assignment-A were completed on 31<sup>st</sup> July 2014.



### **Assignment – B**

The work on the Assignment-B has been initiated with effect from 1<sup>st</sup> August 2014. The Overall progress for Assignment B is shown in Figure-4.

### **3.3 Staffing Status**

Summary of Man Months for Assignment-B is summarized in the following Table:

**Table 3.2: Summary of the DHC Staff MMs**

Members (1)	MMs as per Approved AM-4 (B) (2)	MMs Consumed up to previous month (3)	MMs Consumed during the month (4)	Accumulated MMs (5)=[3+4]
NK	1,196.70	851.09	14.39	865.48
Dolsar	520.96	353.69	6.66	360.35
Locals	8,950.44	5,728.62	95.71	5,824.33

Details of Technical and Non-Technical Staff in Lahore and Site Office are shown in the following Table:

**Table 3.3: Total DHC Staffing on the Project**

Sr. No.	Place of Work	Technical Staff		Non-technical Staff	Total Staff
		Expatriate	Local		
1	Lahore Office	-	1	24	25
2	Head Office Dasu	23	104	234	361
<b>Grand Total</b>					<b>386</b>

The man-month status of each of the Consultants Staff is summarized in Appendix B

**Table 3.4: Arrival of DHC Expatriates at Project**

Sr. No.	Name of Staff	Position/Designation	Date of Arrival/Joining	Name of Firm
1	Mr. Sadahiro Kato	Resident Engineer (Hydraulic Steel Structure)	9 <sup>th</sup> Dec 2022	NK
2	Mr Batuhan Ozdemir	Resident Engineer (Road Tunnel, KKH-01 &KKH-02)	26 <sup>th</sup> Dec 2022	Dolsar
3	Mr Neil Napoleon Rafol	Deputy OHS Lead	28 <sup>th</sup> Dec 2022	NK
4	Mr. Hojjat Hosseinzadeh	RCC/CVC Mix Expert	29 <sup>th</sup> Dec 2022	Dolsar

**Table 3.5: Departure of DHC Expatriates from Project**

Sr. No.	Name of Staff	Position/Designation	Date of Departure	Name of Firm
1.	Mr. Hojjat Hosseinzadeh	RCC/CVC Mix Expert	6 <sup>th</sup> Dec 2022	Dolsar
2.	Mr. Selcuk GENC	Assist. Design Engineer (Tunnel, Mainworks)	10 <sup>th</sup> Dec 2022	Dolsar
3.	Mr Neil Napoleon Rafol	Deputy Lead OHS Specialist	15 <sup>th</sup> Dec 2022	NK
4.	Mr Shuji Nakata	Chief Electrical Engineer	15 <sup>th</sup> Dec 2022	NK
5.	Mr Juan Carlos Hernandez	Schedule & Analysis Specialist	17 <sup>th</sup> Dec 2022	NK
6.	Mr Tatsuya Miyazato	Deputy Project Manager	21 <sup>st</sup> Dec 2022	NK
7.	Mr Michael Gerard Canny	Resident engineer (MW-02)	22 <sup>nd</sup> Dec 2022	NK
8.	Mr. Sadahiro Kato	Resident Engineer (Hydraulic Steel Structure)	22 <sup>nd</sup> Dec 2022	NK
9.	Mr Neil White	Contract Engineer-1	22 <sup>nd</sup> Dec 2022	NK
10.	Mr. Ali Onur Kuyucak	Bridge Design/ Supervision Engineer	23 <sup>rd</sup> Dec 2022	Dolsar
11.	Mr Yuzo Nakano	Construction Technical Advisor	25 <sup>th</sup> Dec 2022	NK
12.	Mr Haluk CEBECI	Resident Engineer (Road Construction, KKH-01 & RAR-01)	27 <sup>th</sup> Dec 2022	Dolsar

**Table 3.6: Mobilization of DHC Local Technical Staff at Project**

Sr. No.	Name of Staff	Position/Designation	Date of Joining	Name of Firm
1.	Mr Muhammad Haris Ashraf	Jr Costing and Planning	7 <sup>th</sup> Dec 2022	DMC

**Table 3.7: Demobilization of DHC Local Technical Staff from Project**

Sr. No.	Name of Staff	Position/Designation	Date of Demobilization	Name of Firm
1.	Mr Waleed Saqib	Jr Road Engineer RAR-02	31 <sup>st</sup> Dec 2022	DMC
2.	Mr Imran Nazir	Jr Costing & Construction Planner	31 <sup>st</sup> Dec 2022	

### **3.4 Major Activities of Construction Supervision Consultants**

#### **3.4.1 Construction Supervision**

The Consultants are currently undertaking Construction Supervision Service on the followings Contract Packages:

- i. Dasu-KKH-01
- ii. Dasu-KKH-02`
- iii. Dasu-RAR-01
- iv. Dasu-RAR-02
- v. Dasu-TL-01
- vi. Dasu-MW-01
- vii. Dasu-MW-02
- viii. Dasu-LBRV-11
- ix. Dasu-LBRV-12
- x. Dasu-PCI-01R
- xi. Dasu-RV
- xii. Dasu-EM-01

Details of the progress and activities of the above Contract packages during the month are discussed in Chapter 4 - Construction Activities.

Reports submitted during the month under report to WAPDA for review and comments are listed in Appendix-C.

### **3.4.2 Procurement, Contract Administration and Measurement**

The primary responsibilities of the Contracts Section are to assist the PMU and DHC Management in the Procurement (Pre-Qualification, Tendering and Evaluation) Phase of the Project Construction Works, administer the signed Contracts, and to provide contractual and management related advice to the Resident Engineers and Site operatives.

The Consultants continue to provide Contract Administration and Quantity Surveying Staff to support the Site activities for the signed Contracts. Details of the interim payment certificates, claims/notifications, and varied works are given in Appendices G, H, and I.

For a variety of reasons, completion of the Works within the Time for Completion specified in the Dasu-KKH-01, Dasu-RAR-01, Dasu-TL-01, LBRV-11, LBRV-12, DASU-RV and PCI-01R Contracts has not been possible and the dates indicated within these Contracts have passed. Therefore, for programming and management and to avoid the Contracts being at large, the Consultant has determined the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> interim Extension of Time for Dasu-KKH-01, Dasu-RAR-01 and Dasu-TL-01, the 1<sup>st</sup> interim Extension of time of LBRV-11, LBRV-12 which were approved by the Employer and World Bank (except KKH-01). The 1<sup>st</sup> EOT case for the Contract DASU-RV has also been processed and approved by the Project Manager.

However, as the delaying events have a continuing effect, and the revised Times' for Completion have expired for aforesaid Contracts. Therefore, approval of the further interim Extension of Time for KKH-01 and 4<sup>th</sup> EOT for TL-01 & RAR-01, and 1<sup>st</sup> EOT for PCI-01R is under process.

The Engineer/Project Manager continues to hold regular consultation meetings with the Contractors to process their Claims and achieve equitable settlements.

Particular tasks completed in this month relate to:

#### **a) Contract ICB No. Dasu-MW-01 & DASU-MW-02**

- The Engineer intimated the Contractor on the restoration of accessibility of equipment and materials due to road problems. [MW-01 & MW-02]
- The Engineer submitted his response on the Contractor's comments on the Engineer's response to traffic situation of KKH road impact on construction. [MW-01 ].
- The Engineer instructed the Contractor to provide the progress and status of the variation VO-006. [MW-01]
- The Engineer instructed the Contractor to proceed with the procurement of the Generators from lowest quoting company, Orient. [MW-01].
- The Engineer provided his response to the Employer's Letter, visit to Gini Chinese Camp site by the director security. [MW-01]
- The Engineer advised the Employer to send an official letter iterating the Employer approval to pay acceleration award for river closure. [MW-01]
- The Engineer requested the Employer and the Contractor for a consultation meeting regarding discussion on the Prolongation Claim. [MW-01]

- The Engineer advised the Employer to refer the dispute regarding Crushing and Batching plant to the DB for decision. [MW-01]
  - The Engineer submitted the minutes of meeting regarding the prolongation claim to the Contractor. [MW-01]
  - The Engineer provided detailed comments to the Contractor on the suspension of work at MW-02 Contract. [MW-02]
  - The Engineer provided response to the Contractor on his claim for underground powerhouse and tunnel ventilation system. [MW-02]
  - The Engineer submitted determination on the quantification of the Contractor's cost claim due to overturning of LNG tanker. [MW-02]
- b) Contract ICB No. Dasu-LBRV-11 & LBRV-12**
- The Engineer submitted the assessment report on the Prolongation claim to the Contractor and the Employer. [LBRV-11 & LBRV-12]
- c) Contract ICB No. Dasu-PCI-01R**
- The Engineer submitted response to the Employer on the Khyber Pakhtunkhwa Provincial sales tax on services and adjustments for change in legislation.
  - The Engineer intimated the Contractor on the opening of normal traffic on Kayal Bridge by NHA/FWO.
  - The Engineer issued the Interim payment certificate IPC no. 36 for further approval of the Employer.
  - The Engineer provided response on the Contractor's cost proposal; for sliding arrangement for wardrobe drawers in residence category-01.
  - The Engineer provided his comments to the Employer on the Expiry of extension period for completion of the works.
  - The Engineer submitted his response on the Contractor cost claim regarding extension/renewal of insurance policies.
- d) Contract ICB No. DASU-PCI-02:**
- The Engineer submitted revised prequalification documents for project Colony and infrastructure, to the Employer.
- e) Contract ICB No. DASU-RAR-01:**
- The Engineer requested the Employer to expedite the internal approvals for the cost claims of the Contractor against extension of insurances and guarantees.
- f) Contract ICB No. DASU-RAR-02:**
- The Engineer intimated the Contractor on the opening of normal traffic on Kayal Bridge by NHA/FWO.
  - The Engineer issued notice to correct to the Contractor on his slow progress on the project.
- g) Contract ICB No. TL-01**
- The Project Manager instructed the Contractor to extend the performance security at the earliest.
  - The Project Manager submitted his comments to the Employer on the Engineer's determination of social insurances claim.
  - The Project Manager responded to the Employer on CCC's comments for Contractor's re-handling claim.
  - The Project Manager instructed the Contractor to extend the Insurance policies as per the contract requirement.
  - The Project Manager submitted the clarification to the Employer on the quantities of IPC No. 64
  - The Project manager submitted the response to the Employer regarding extended insurance policies.
  - The Project Manager submitted the principle of claim to the Employer for the Contractor's claim of re-handling of excavated material.

**h) Contract ICB No. EM-01**

- The Project Manager provided its comments to the Employer on deduction of taxes from the Contractor's invoices.
- The Project Manager provided his response to the Contractor on approval of the Contractor's DB member.
- The Project Manager provided his response to the Contractor on its claim no. EM/-01/C-06 Change of Coordination Events.
- The Project Manager submitted his response to the Contractor on his revised submission of claim regarding delayed handing over of camp area.
- The Project Manager acknowledged and registered the Contractor claim "Delay in generation of financial instrument (FI) number – EM-01/C-07".
- The Project Manager provided clarification to the Contractor regarding CSCS complain.
- The Project Manager reminded the Employer to provide its decision on the proposed DB candidate by the Contractor.
- The Project Manager conveyed the revised schedule for installation of draft tube to the Employer submitted to the Contractor.
- The Project Manager acknowledged and registered the Contractor's claim as "Temporary Storage Cost at Ghazi Brotha - EM-01/C-08".
- The Project Manager provided his response to the Contractor regarding his request for care and custody responsibility for temporary facilities at Ghazi Brotha.
- The Project Manager submitted explanatory report to the Employer regarding Contractor's claim due to revision of handing over of dates.
- The Project Manager requested the Employer to issue a letter to the excise office for the registration of the purchased vehicles by the Contractor.
- The Project Manager conveyed the Employer's approval for the Contractor's proposed DB member to the Contractor.
- The Project Manager requested the Employer to generate the financial number by the Employer's Bank to facilitate the Contractor regarding import of equipment.
- The Project Manager informed the Contractor about his request to the Employer to generate the FI number.
- The Project Manager provided his comments on the Contractor's claim "change of coordination events", to the Contractor.
- The Project Manager provided details of Temporary Storage Space at Ghazi Brotha to the Contractor.
- The Project Manager informed the Contractor on status of request for approval of addition of suppliers to the agreed schedule T-4.
- The Project Manager provided its reservations to the Employer on the selection dispute board member.
- The Project Manager informed the Contractor on the Project Manager's request to the Employer to provide decision on selection of DB member.
- The Project Manager Enlightened the Contractor on the status of the matter of deduction of taxes from the Contractor's Invoices.

**i) Contract ICB No. KKH-01**

- The Engineer issued the interim payment certificate IPC No. 28 further for the Employer's approval.
- The Engineer requested the Employer to expedite internal approvals regarding cost claims against extensions of insurances and guarantees determined by the Engineer.

**j) Contract ICB No. KKH-02**

- The Engineer intimated the Contractor on the restoration of inaccessibility of equipment and materials due to road problems.
- The Engineer asked the Contractor for the breakdown of rates and prices of the BOQ.

- The Engineer issued the approval of construction of accommodation for security personnel at kaigah to the Contractor.

**k) Contract ICB No. DASU-RBRV-11**

- The Engineer submitted his anticipation on types along with quantification of the claims ensuing the termination of the Contract.

**l) Contract ICB No. DASU RV**

- The Project Manager instructed the Contractor to extend the extension policies as per the contract obligation.
- The Project Manager informed the Contractor on the appointment hourly rate of the proposed adjudicator.
- The Project Manager submitted his response to the Contractor regarding changes in the Contract price-clause 37.
- Engineer submitted response to the Contractor on the Khyber Pakhtunkhwa Provincial sales tax on services and adjustments for change in legislation.

**3.4.3 Road Section of KKHs and RARs (KKH-01, KKH-02, RAR-01, RAR-02)**

The major DHC activities undertaken during this month:

**A) KKH-01 Team**

**1) Major Activities**

- Engineer instructed the Contractor in writing that construction equipment/machinery breakdown has reached to unacceptable level. Equipment available at site is also less than the requirement at site.
- Engineer instructed the Contractor to remove the high-risk level of hanging materials on slopes above existing KKH at Zero point.
- Engineer approved the trial mix design of RCC for Khushe Bypass road.
- Engineer instructed the Contractor to complete the Kaigah Bypass retaining walls to reduce the safety risk for mobilization of machinery for tunnel construction.

**2) Working / Shop Drawings**

The following working drawings were submitted by the Contractor and the Engineer reviewed and replied, accordingly.

Received Date	Letter/Reference Number	Title	Reply Date	Remarks
30-Nov-22	CCECC/DASU-KKH-01/LOGRO-A/RFDA/211R	Submission of shop Drawings for Waterproofing and Drainage of Logro A Tunnel (K9+140~K10+360)	21-Dec-22	Approved Except as Noted
30-Nov-22	CCECC/DASU-KKH-01/LOGRO-A/RFDA/214	Submission of shop Drawings for LOGRO-B Tunnel (K11+880-K11+925)	16-Dec-22	Approved Except as Noted
01-Dec-22	CCECC/DASU-KKH-01/DASU-02/RFDA/208R1	Submission work done drawings for front slope protection work dasu-02 tunnel (K4+624)	16-Dec-22	Approved
06-Dec-22	CCECC/DASU-KKH-01/DOGHA Tunnel/RFDA/215	Submission of shop Drawings of Dogah tunnel (K23+585-K23+655)	16-Dec-22	Approved Except as Noted
09-Dec-22	CCECC/DASU-KKH-01/Access Road/RFDA/209R	Resubmission of Khushee Access Road (Plan, Profile & Cross Section) for Improvement KKH-01	19-Dec-22	Approved Except as Noted
19-Dec-22	CCECC/DASU-KKH-01/Access Road/RFDA/216	submission of shop drawing for DASU-02 tunnel (K4+155 ~ K4+500)		Under review
23-Dec-22	CCECC/DASU-KKH-01/K-11 Tunnel/RFDA/001	submission of method statement for construction of Logro-B (K-11) tunnel of KKH-01		Under review
24-Dec-22	CCECC/DASU-KKH-01/LOGRO-A/RFDA/217	submission of work done drawing for LOGRO-A (K9+150 ~ K9+245)	29-Dec-22	Approved Except as Noted
25-Dec-22	CCECC/DASU-KKH-01/LOGRO-A/RFDA/2178	submission of work done drawing for dasu-02 tunnel (K4+544 ~ K4+624)		Under review
28-Dec-22	CCECC/DASU-KKH-01/DASU-02/RFDA/219	submission of shop drawing for DASU-02 tunnel (K4+155 - K4+580)		Under review
28-Dec-22	CCECC/DASU-KKH-01/LOGRO-A/RFDA/220	submission of shop drawing for LOGRO-A tunnel (K9+140 - K9+450)		Under review

**B) KKH-02**

The following activities have been carried out during the reporting month.

**1) Major Activities**

- Request for proposal for "Construction of Tunnels and Bridges" was issued on 7<sup>th</sup> December 2022.
- Contractor is carrying out the excavation work of main KKH-02 alignment at k28 (one side), k34 (both sides), k36 (both sides), k45 (both sides), k47 (both sides).
- All construction activities at KKH-02 have been stopped since 24<sup>th</sup> of December 2022 to till to date due to accident happened at k34 on existing KKH on 24<sup>th</sup> December 2022. Removals of hanging and loose material from slopes continue.
- Excavation works to prepare a ground for looter camp continue.
- Request for removal of houses inside and below the KKH-02 has been forwarded to the Employer.
- Site visits jointly with WAPDA and Contractor for detail studies at the portal areas of proposed Tunnels.
- Meetings conducted with the Contractor and the Employer to discuss the houses and other issues.
- Geotechnical investigation for tunnels and bridges has been started.

**2) Major Design Activities**

The following design activities are in progress.

- Checking of Shop drawings for KKH-02.
- Checking of work done drawings submitted by the Contractor for IPC.
- Issued the final alignment of tunnels and bridges to the Contractor.
- Prepared the documents including coordinates for the investigation of tunnels for WAPDA's DID team.
- Checking portal areas of tunnels for any minor changes in alignment.

**C) RAR-01 Team**

**1) Major Activities**

- Joint inspection with RE, ARE & Employer to Komila bypass inspection and social issue regarding protection of houses & ROW limits.
- Joint inspection with RE, Employer for structure works i.e. R/Walls.B/Walls & Causeways etc.
- Site inspection for sliding on B/wall areas at Komila bypass start section & rip rap protection works.
- Joint site visit to RAR-01 for remaining works i.e. punch list items.
- Letter issued to Contractor regarding site observation of Komila bypass dated December 03, 2022.
- Letter issued to Contractor regarding work progress, machinery and site observation of Komila bypass dated December 13, 2022.
- Letter issued to Contractor regarding protection of houses bordering of ROW at Komila bypass dated December 20, 2022.
- Letter issued to Employer regarding local application at Komila bypass dated December 21, 2022.

**1) Working / Shop Drawings**

The following working drawings were submitted by the Contractor and the Engineer reviewed and replied, accordingly.

Received Date	Letter/Reference Number	Title	Reply Date	Remarks
04-Dec-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/66	Submission of Shotcrete Shop Drawing Along with plan and X-Section from K1+768.75 to K1+943.75	06/Dec/2022	Approved
04-Dec-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/67	Resubmissions of Proposed Alignment and Profile from 0+000-2+388.25	19/Dec/2022	Approved
05-Dec-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/68	Submission of Shotcrete Shop Drawing Along with X-Section from K0+500.00 to K0+875.00	05/Dec/2022	Approved Except as Noted
05-Dec-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/69	Submission of Mottor Stone Masonry Toe Protection wall along with plan and Elevation from K1+318.75 to K1+356.25	05/Dec/2022	Approved
05-Dec-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/70	Submission of Causeway shop Drawing Along with plan and Elevation From K0+356.25 to K0+375	05/Dec/2022	Approved

Received Date	Letter/Reference Number	Title	Reply Date	Remarks
07-Dec-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/71	Submission of Causeway shop Drawing Along with plan and Elevation from K0+175 K0+193.75	09/Dec/2022	Revise and Resubmit
07-Dec-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/72	Submission of Stone Masonry slope Protection work shop Drawing Along with Plan and X-Section from K0+062.50 to K0+150.	05/Dec/2022	Approved Except as Noted
09-Dec-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/73	Submission of Causeway BBS Along with Reinforcement Plan and X-Section from K0+356.25 to K0+375.	09/Dec/2022	Approved
09-Dec-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/41R	Submission of Retaining wall Revised shop drawing along with plan and elevation from K0+106.25 To K0+204.50	09/Dec/2022	Approved
10-Dec-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/71R	Resubmission of Causeway shop Drawing Along with plan and Elevation from K0+175 K0+193.75	10/Dec/2022	Approved
16-Dec-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/74	submission of causeway bbs along with reinforcement plan X- section from K0+175 to K0+193.75	24/Dec/2022	Revise and Resubmit
19-Dec-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/46R	submission of retaining wall revised shop drawing along with plan and elevation from K1+081.25 to K1+139.72	24/Dec/2022	Approved

#### D) RAR-02 Team

The following activities have been carried out during the reporting month.

##### 1) Major Activities

- Supervision of excavation, blasting and backfill with gabion works at K13 in Siglo Area.
- Checking blasting pattern submitted by the Contractor.
- Supervision of excavation between chainage K32+600 to k33+00.
- Excavation work at k34+600 has been stopped by locals due to payment issues of houses below the working site.
- Wading of existing Gayal access road to main RAR-02 road is in continue at K0+950.
- Supervision of works for cable way and access road at Largani.
- Checking of Contractor Standing Time records and DPR.
- Reply of the Contractor's letter regarding slow Progress.
- Review of contractor's WPR and MPR.
- Supervision of site activities including Blasting, Excavation and drilling works.
- Conducting of Progress meetings with Contractor and Employer.

##### 2) Major Design Activities

The following design activities are in progress.

- Checking of Shop drawings submitted by the Contractor.
- Checking of work done drawings.

#### 3.4.4 TL Section

Major DHC activities undertaken during this month are:

##### 1) Correspondence:

- Prepared the letter regarding report on CGGC's facilities damaged by the PCCC Contractor's construction activities.
- Prepared the letter regarding request for approval of zinc coated spray (WL-739).
- Prepared the letter regarding shifting of generators from Neelum Jhelum Hydropower project company.
- Prepared the letter regarding RoW issue at upper & lower Kohistan and Palas area.
- Prepared the letter regarding immediate mobilization of resources to expedite progress of Grid Station construction.
- Prepared the letter regarding stoppage of work by land owner at access road.
- Prepared the letter regarding request for the nomination of person for inspection of control cables of Grid Station.
- Prepared the letter regarding pending procurement.
- Prepared the letter regarding Power Transformer at Ghazi Barotha store.
- Prepared inspection certificate regarding control cables of Grid Station.
- Prepared the letter regarding submission of bidding documents for solar system of WPO, Cat-1 and Cat-2 of project colony.
- Prepared the letter regarding request for switches supplier approval MS TJ switches updated documents for project colony.
- Prepared the letter regarding request for approval of M/s Fast cables technical data sheets of overhead HT and LT conductor "DOG" and "WASP".

- Prepared the letter regarding request for manufacturer (M/s transpower) drawings and data sheet approval for power distribution transformers 200KVA and 400KVA.

**2) Meetings:**

- Overall Progress review meeting of TL-01 with WAPDA Advisor and Contractor held on 21<sup>st</sup> December, 2022.

**3) Inspection:**

- Inspection of control cables of Grid Station in Lahore.

**3.4.5 Main Work Section (MW-01, MW-02)**

The major DHC activities undertaken during this month are:

**a) MW-01**

- The Engineer issued RFP on 1<sup>st</sup> September 2022 for varied works on the permanent road (LU-2) and temporary access road to cable crane foundation on left bank (CR 5-2). Cost proposal has not been submitted by the Contractor. The Engineer reminded on 25<sup>th</sup> November 2022.

**Contractor's Drawings**

Received Date	Letter Number	Title	Reply Date
1-Dec-22	CGGC/MW-01/RFDA/DHC-462	CR2 New Pakistani Camp Details-(D1)	9-Dec-22
5-Dec-22	CGGC/MW-01/RFDA/DHC-469	Design Drawing of Plug Concrete of AT1-2 and AT3-1 of Diversion Tunnel-(D7)	17-Dec-22
5-Dec-22	CGGC/MW-01/RFDA/DHC-470	The Detail Drawing of CVC Cut-off Wall-(D1)	5-Dec-22
11-Dec-22	CGGC/MW-01/RFDA/DHC-471	Diversion Tunnels inlet Below El. 802.901 2nd Stage Concrete Outline-(D1)	17-Dec-22
13-Dec-22	CGGC/MW-01/RFDA/DHC-472	Intake Structure Support above EL. 1018.00m-(D3)	17-Dec-22
13-Dec-22	CGGC/MW-01/RFDA/DHC-473	Diversion Tunnel B Outlet Support-(D6)	
17-Dec-22	CGGC/MW-01/RFDA/DHC-474	Add Fence along KKH of A3-2 Adit Tunnel outlet area	19-Dec-22
17-Dec-22	CGGC/MW-01/RFDA/DHC-475	Left Bank Traffic Diversion Tunnel Niche Excavation and Supporting	

**Method Statement**

Received Date	Letter Number	Title	Reply Date
December- 22- 2022	CGGC/MW-01/TD/DHC-2715	Method Statement for river channel dredging of the Diversion Tunnel Outlet (D2)	
December- 17- 2022	CGGC/MW-01/TD/DHC-2704	Submission of method statement of Diversion Tunnel cofferdam removal	
December- 13- 2022	CGGC/MW-01/TD/DHC-2693	Submission of method statement of the 2nd stage concrete pouring of the diversion tunnel gate shaft (D2)	December 14, 2022
December- 11- 2022	CGGC/MW-01/TD/DHC-2690	Method statement of river channel dredging of the diversion tunnel outlet	
December- 6- 2022	CGGC/MW-01/TD/DHC-2681	Submission of the method statement of the cavity grouting of diversion tunnel arch (D3)	December 16, 2022
December- 5- 2022	CGGC/MW-01/TD/DHC-2677	Submission of the method statement of the 2nd stage concrete pouring of the diversion tunnel gate shaft	December 8, 2022
December- 1- 2022	CGGC/MW-01/TD/DHC-2662	Submission of the method statement of the cavity grouting of diversion tunnel arch (D2)	December 2, 2022

**NCR**

NO NCR issued during the Month of December-2022

**Engineer's Instruction**

Received Date	Letter Number	Title	Reply Date
16-Dec-2022	DHC/Dasu/MW-01/EI/22-025	Repair of Form ties in Concrete DT.B Inlet Structure	
24-Dec-2022	DHC/Dasu/MW-01/EI/22-026	Engineer's Approval before the removal of platform and completion of finishing works	
26-Dec-2022	DHC/Dasu/MW-01/EI/22-027	Installation of convergence measurement set for LBTDT U/G Ex. From outlet	

**b) MW-02**

**1) General**

- The Engineer reviewed the content of the Contractor's letter for "Replacing the Withheld Retention for the Completed Works by Guarantee", and commented accordingly through letter no. DHC/DASU/WAPDA/MW-02/PM/22-489.
- The Engineer conditionally approved the hydraulic torques wrenches to be used for tensioned rock bolts.



- The Contractor was requested to submit the required documents for the Surge Chamber blasting design as per Engineer comments made through subject letter no. (DHC/DASU/CGGC/MW-02/MWIIS/MGC/22-492).
- The Engineer conditionally approved the method statement for "Excavation and Support of Lower Pressure Tunnel and Lower Bend Tunnel" .
- The Contractor was requested to submit the required documents for the dome cyclical excavation of the Surge Chamber as per Engineer comments made through subject letter no. (DHC/DASU/CGGC/MW-02/MWIIS/MGC/22-494).
- The Engineer reviewed the content of the Contractor's submission for " Stability Calculation for Tailrace Outlet Dyke and Drawings for Tailrace Outlet Dyke & Construction Road", and commented accordingly through letter no. DHC/DASU/WAPDA/MW-02/PM/22-495.
- The Contractor was requested to revise and resubmit the proposed delivery and testing schedule of the third-party laboratory testing for the sample taken in November 2022 as per the Engineer Comments.
- The Engineer reviewed petrographic analysis tests results of the rock samples taken in October 2022, and made comments accordingly through referenced letter no. DHC/DASU/WAPDA/MW-02/PM/22-498.

**2) Issue of Construction Drawing for MW-02**

- The Engineer issued the Electrical installation Powerhouse Cavern Earthing Plan above EL.760.00 Electrical installation Transformer Cavern Earthing Plan above EL.772.50 drawings.

**3) Land Handover Information Kass Area beside Right Bank Explosive Magazine.**

- The land was handed over to the Contractor (CGGC) on 5<sup>th</sup> December 2022, for the execution of work.

**4) Approval of PS Tendon Trial Test for Powerhouse Cavern.**

- The Engineer conditionally approved the design with an anchorage length of 6.0 m, a free length of 7.5 m, and a total length of 13.5 m as the standard design of PS Tendon for the powerhouse cavern.

**5) Request of Submission of Detailed Lift Schedule for the Secondary Concrete in Powerhouse MW-02**

- The Contractor was instructed to provide the detailed lift schedule for the secondary concrete work for each unit in the powerhouse within 21 days after receipt of the documents letter additionally the detailed lift schedule should share with EM-01 Contractor towards their designing and Construction planning.

**6) Review of Contractor's Working Drawings**

The Engineer reviewed and replied of the following drawings.

Letter Nos.	Title	EAC No.	Reply Date
CGGC/MW-02/RFDA/DHC-431	Adit Tunnel CT2 and No.1 & No.2 Tailrace Tunnel Junction Plan, Profile and Details (D2)	EAC-22-058	28-Nov-22
CGGC/MW-02/RFDA/DHC-427	Construction Road and Dyke of Tailrace Tunnel Outlet (D1)	EAC-22-059	10-Dec-22
CGGC/MW-02/RFDA/DHC-428	No.1~No.3 Draft Tunnel Excavation and Supporting (D4)	EAC-22-060	11-Dec-22
CGGC/MW-02/RFDA/DHC-432	No.4~No.6 Draft Tunnel Excavation and Support(D4)	EAC-22-061	12-Dec-22
CGGC/MW-02/RFDA/DHC-433	Layout Plan of Surge Chamber Excavation 20t Travelling Crane (D1)	EAC-22-062	12-Dec-22
CGGC/MW-02/RFDA/DHC-434	Penstock Adit Plug Section Support Detail (D4)	EAC-22-063	15-Dec-22
CGGC/MW-02/RFDA/DHC-435	Tailrace Tunnel No.1 Excavation and Supporting (D5)	EAC-22-064	15-Dec-22
CGGC/MW-02/RFDA/DHC-436	Junction of Tailrace Tunnel No.1&2 Transition and Adit Tunnel CT1 Excavation and Support (D2)	EAC-22-065	16-Dec-22
CGGC/MW-02/RFDA/DHC-430	CT2 Adit Tunnel Niche Excavation Supporting Details (D2)	EAC-22-066	16-Dec-22
CGGC/MW-02/RFDA/DHC-437	Tailrace Tunnel No.2 Excavation and Supporting (D5)	EAC-22-067	18-Dec-22
CGGC/MW-02/RFDA/DHC-438	Adit Tunnel CT2 and No.1&No.2 Tailrace Tunnel Junction Plan, Profile and Details (D3)	EAC-22-068	18-Dec-22
CGGC/MW-02/RFDA/DHC-439	Blasting Design of No.1 Tailrace Tunnel and CT1 Tunnel Junction (D1)	EAC-22-069	20-Dec-22
CGGC/MW-02/RFDA/DHC-440	Blasting Design of GIL Tunnel (D1)	EAC-22-070	20-Dec-22
CGGC/MW-02/RFDA/DHC-442	Blasting Design of No.2 Tailrace Tunnel and CT1 Tunnel Junction (D1)	EAC-22-071	26-Dec-22

**7) Issued Engineer Instruction**

The Engineer issued the following Site Instructions (SIs).

Location	Subject	EI No.	Issue Date
Nil	Nil	Nil	Nil

## 8) NCR Issued by Engineer

The Engineer issued the following NCR.

Location	Subject	NCR No.	Issue Date
Nil	Nil	Nil	Nil

### 3.4.6 Infrastructure Section (LBRV-11, LBRV-12, PCI-01R, RV)

The major DHC activities carried out during the month are described below:

#### a) LBRV-11

- The Engineer informed the Contractor of the Second Extension of Time for LBRV-11 on 5<sup>th</sup> Dec 2022.
- The Engineer assessed on the Contractor's Prolongation Cost Claim on (EOT-01) - as an Interim Claim of LBRV-11 issued on 19<sup>th</sup> Dec 2022.
- The Engineer responded to the outstanding works of Contract LBRV-11 issued 20<sup>th</sup> Dec 22.
- The Engineer issued Minutes of Meeting held on 14<sup>th</sup> December regarding security issues at DHPP LBRV-11 on 22<sup>th</sup> Dec 2022.

The following working drawings were submitted by The Contractor and The Engineer reviewed and replied, accordingly

Received Date	Letter/Reference Number	Title	Reply Date	Remarks
-	-	-	-	-

#### b) LBRV-12

- The Engineer issued reminder to the Contractor regarding the second Extension of Time for LBRV-12 on 5<sup>th</sup> Dec 2022.
- The Engineer assessed the Prolongation Cost Claim on (EOT-01), as an Interim Claim LBRV-12 and issued on 19<sup>th</sup> Dec 2022.
- The Engineer responded to the Contractor regarding the outstanding works for Contract LBRV-12 on 20<sup>th</sup> Dec 2022.
- The Engineer issued Minutes of Meeting held on 14<sup>th</sup> December regarding security issues at DHPP LBRV-12 on 22<sup>th</sup> Dec 2022.

#### c) RV

- The Engineer responded to the letter on "Water Supply Line from Source to the Resettlement Site" on 11<sup>th</sup> Dec2022.
- The Engineer responded to the letter on "Appointment of Adjudicator" on 12<sup>th</sup> Dec2022.
- The Engineer responded to the letter on "Determination for Changes in the Contract Price - Clause 37" on 22<sup>th</sup> Dec2022.
- The Engineer informed the Contractor of "Khyber Pakhtunkhaw Provincial Sales Tax on Services Tax Adjustment RV" on 22<sup>th</sup> Dec2022.
- The Engineer instructed the Contractor to execute the construction of the access road for RV Choochang Site-4 (Upper Kuz Choochang)" on 24<sup>th</sup> Dec2022.

#### d) Project Colony – PCI-01R

- The Engineer verified and issued the Interim Payment Certificate NO.36.PCI-01R dated 2<sup>nd</sup> Dec 2022.
- The Engineer responded to the "Cost Proposal for Sliding Arrangements for Wardrobe Drawers in Residence Category-01.PCI-01R" on 5<sup>th</sup> Dec 2022.
- The Engineer responded to the letter on "Shortage of Material and Slow Progress of Works at Project Colony.PCI-01R" on 12<sup>th</sup> Dec 2022.
- The Engineer instructed the Contractor to execute the remaining Works for Project Office Building on 8<sup>th</sup> Dec 2022.
- The Engineer responded to the letter on "Submission of Tree Cutting Record Required" on 12<sup>th</sup> Dec 2022.
- The Engineer responded to the letter on "Hindrance to Construction of Boundary wall" on 12<sup>th</sup> Dec 2022.
- The Engineer responded to the letter on "Submission of Manufacturer DB Drawing for Security Guard Rooms A&B" on 12<sup>th</sup> Dec 2022.

- The Engineer informed the Employer of the expiry of extended period for completion of Works of PCI-01R on 12<sup>th</sup> Dec 2022.
- The Engineer responded to the cost proposal for sliding arrangement for wardrobe drawers in Residence Category-01 on 13<sup>th</sup> Dec 2022.
- The Engineer clarified of the Varied Works of Slope Protection at Choochange-1 Resettlement Village Site on 13<sup>th</sup> Dec 2022.
- The Engineer responded to the Slow Progress and Shortage of Resources to Complete Phase-A dated 14<sup>th</sup> Dec 2022.
- The Engineer warned the contractor on the Use of Immature Concrete Blocks in Masonry Work on 14<sup>th</sup> Dec 2022.
- The Engineer responded to the letter on "Slow Progress on the Water Supply from the Indus" dated 15<sup>th</sup> Dec 2022.
- The Engineer responded to the letter on "Non-Compliance to Curing of Road Concrete" on 15<sup>th</sup> Dec 2022.
- The Engineer responded to the letter on "Provision of Sodding I Korean Grass in the Lawns of Colony Buildings (ICB No. PCI-01 R)" on 16<sup>th</sup> Dec 2022.
- The Engineer issued warning letter to the Contractor on "Non-Compliance of OHS activities" on 16<sup>th</sup> Dec 2022.
- The Engineer requested the Contractor to prove accommodation of the Security Persons on 17<sup>th</sup> Dec 2022.
- The Engineer proposed the Employer for the revised alignment of the Boundary Wall nearby Residence Category 3B Building on 17<sup>th</sup> Dec 2022.
- The Engineer prepared the minutes of meeting for progress review held on 15<sup>th</sup> December 2022 and issued on 17<sup>th</sup> Dec 2022.
- The Engineer responded to the Obligations to Implement and Improve the Safe Practices at Workplaces of Project Colony PCI-01R dated 17<sup>th</sup> Dec 2022.
- The Engineer instructed the Contractor to execute the construction of watch towers in Project Colony on 18<sup>th</sup> Dec 2022.
- The Engineer issued the comments on the revised contract programme on 19<sup>th</sup> Dec 2022.
- The Engineer responded to the letter on the Cost Claim for "Renewal of Insurance Policies for the Extended Period of Time" on 19<sup>th</sup> Dec 2022.
- The Engineer responded to the letter on "Interface Coordination Meeting between CGICOP (PCI-01R) and CGGC (MW-02) on 19<sup>th</sup> Dec 2022.
- The Engineer instructed the Contractor to commence the Works for the expansion joint cover at Project Office Roof on 19<sup>th</sup> Dec 2022.
- The Engineer responded to the letter on "Proposal for Omission of Colony Boundary Wall near Residence Category 4 & 5 Buildings" on 20<sup>th</sup> Dec 2022.
- The Engineer verified & issued Interim Payment Certificate No.37 PCI-01 on 21<sup>st</sup> Dec 22.
- The Engineer provided the minutes of meeting for the security issue held on 14<sup>th</sup> December and issued on 22<sup>th</sup> Dec 2022.
- The Engineer responded to the letter on "Washing of Concrete Transit Mixers in Choochang Nullah" on 23<sup>th</sup> Dec 2022.
- The Engineer issued drawings for colony boundary wall nearby Category-3 Buildings on 24<sup>th</sup> Dec 2022.
- The Engineer informed the Employer of the continuous extraction of sand by local residents along KKH-01 road at Khohse K8 Area on 26<sup>th</sup> Dec 2022.
- The Engineer responded to the letter on "Provision of Smoke Hood for Residence Category-1 and Category-2 Buildings" on 26<sup>th</sup> Dec 2022.
- The Engineer responded to the letter on "Submission of Bidding Documents" 27<sup>th</sup> Dec 22.

The following working drawings were submitted by The Contractor and The Engineer reviewed and replied, accordingly.

Received Date	Letter/Reference Number	Title	Reply Date	Remarks
29-Nov	CGICOP/DASU/PCI-01R/RFDA/597-Rev.01	Submission of the shop drawing for the finishing layers of the P1 Road With side Drian	8/12/2022	approved

Received Date	Letter/Reference Number	Title	Reply Date	Remarks
29-Nov	CGICOP/DASU/PCI-01R/RFDA/672	Submission of the bar bending schedule for Res cat 2B	11/12/2022	Approved Except As Noted
29-Nov	CGICOP/DASU/PCI-01R/RFDA/673	Submission of the bar bending schedule for Res cat 2C	11/12/2022	Approved
30-Nov	CGICOP/DASU/PCI-01R/RFDA/674	Submission of the shop drawing for the layout of Rain water drainage system for cat 2 building	8/12/2022	Approved
13-Dec	CGICOP/DASU/PCI-01R/RFDA/675	submission of the shop drawing for the finishing layer of the sunken area at washroom and kitchen area		Approved
14-Dec	CGICOP/DASU/PCI-01R/RFDA/676	submission of shop drawing for the additional work of door/window at wapda project office building	21-12-2022	
18-Dec	CGICOP/DASU/PCI-01R/RFDA/677	submission of BBS for residence cat-2D		
21-Dec	CGICOP/DASU/PCI-01R/RFDA/678	Submission of BBS for P1 road @20m span		
21-Dec	CGICOP/DASU/PCI-01R/RFDA/679	submission of plumbing system washroom rectification work shop drawing.	23-12-2022	approved
28-Dec	CGICOP/DASU/PCI-01R/RFDA/680	submission of the shop drawing for the floor pattern detail of the hostel cat 2		
28-Dec	CGICOP/DASU/PCI-01R/RFDA/681	Revised Res Cat 2A under Ground service General Layout plan with manhole & cable Trenches		

### 3.4.7 EM-01

The major activities undertaken during this month were:

#### 1) E&M - 01 Civil Works

##### i. General

- The landowners/locals people agreed for the resumption of work on 29th November 2022 after work suspension on 10<sup>th</sup> of August 2022.
- Contractors Final Claim Report for Delayed Handing Over of Camp Area (4.442ha)
- The Contractor was advised to provide further convincing evidence (if any) in support of the Contractor's Claim within a 15 days' time for the Project Manager's review/evaluation else the Claim would be considered as being closed.

##### ii. Review of Contractor's Working Drawings

The following drawings were submitted by the Contractor, and The Engineer reviewed and replied, accordingly.

Location	Subject	Dwg No.	Issue Date
Nil	Nil	Nil	Nil

##### iii. Issued Engineer Instruction

The Engineer was issued the Site Instructions (SIs).

Location	Subject	SIs No.	Issue Date
Nil	Nil	Nil	Nil

##### iv. NCR Issued by Engineer

The Engineer was not issued the NCR.

Location	Subject	NCR No.	Issue Date
Nil	Nil	Nil	Nil

#### 2) Electro-Mechanical Works

Progress of Electrical-Mechanical works in December 2022 becomes slow because of notice of change of event key dates with DHC letter no DHC/Dasu/GEPC/EM/-01/PLS/22-319 issued on October 06, 2022. First event of draft tube #3 installation was prolonged for 391 days from original date of October 10, 2022. Consequently, the Contractor must review the further construction time schedule according to the contract conditions. In December, the major topics of the working items are focused on the claim for change of event dates and storage for first shipped equipment and custom clearance issue at Karachi.

##### i. Claim due to Change of Event Coordination Dates

The Contractor submitted the cost claim due to the EOT of the changing key event dates with his letter no. Dasu EM-01-LET-JV-WAPDA/DHC-2022-0436 dated November 17, 2022.

DHC has worked and replied the Contractor's claim and justify the claim items and amount according to the contract conditions after getting more detailed clarification.

##### ii. Custom clearance issue

Custom clearance of the first shipment for # 3 draft tube and its embedded materials are still

not processed at Karachi. The materials will be transported to the storage yard provided in the Ghazi Barothe Hydro power station area.

**iii. Confirmation on of NTDC Comments on 765kV Transmission Line Protection**

The DHC reminded WAPDA to get NTDC comments on clarification by submitted the Contractor through the WAPDA letter No. GM/PD/Dasu HPP/TL-18/13556-57 dated October 18, 2022. However, the reply from NTDC is still not received. It is required to settle urgently so that the contractor resumes the protection design. At this moment the design work of transmission line protection system has been suspended.

**iv. Position of 765kV Terminal Tower at Take-off Switchyard**

On November 18, 2022, the coordination meeting with NTDC was held at the WAPDA's Lahore office for confirming the final position of terminal tower of which position has been investigated by NTDC on August 24, 2022. In the meeting with NTDC, final location of terminal tower was shown in the drawing and coordination of tower position which is the original direction to the steep hills. The transmission line will be routed on the colony boundary. DHC will finalize the switchyard design and arrangement of 765kV switchgear equipment based on this conclusion. However, the formal design approval of outdoor switchyard area is confirmed by WAPDA, DHC will submit the final design of 765kV switchyard including civil structure design.

**v. Web meeting with Contractor**

DHC coordinated the technical meetings on November 17, 2020 at the GE-PC's office at Lahore instead of face-to-face meeting with NTDC, WAPDA and DHC for discussing the 765kV transmissions line protection and busbar protection based on the Contractor's letter no Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0267 dated July 26, 2022.

It was noted that the meeting was planned to have a face-to-face meeting with EM-01 protection expert and NTDC, but difficulty of dispatching expert due to COVID regulation in China, EM-01 has proposed the meeting with web-meeting.

At the opening of the meeting, DHC informed that the protection and control drawings are subject to NTDC approval, otherwise the design work could not be finalized even if additional technical requirements for protection scheme. The costs incurred by NTDC requirements will be settled by Change order according to the Contract after technical confirmation.

The following items were discussed

- (1) Requesting standard specification of substation of P-204:2020 to NTDC for reference of the protection and control system modification.
- (2) Modification of present protection diagram of 765kV transmission line and busbars
- (3) Confliction of DHC and NTDC comments.
- (4) SAS and BCU application requested by NTDC specification.
- (5) Use of different manufacturer on redundant protection scheme.
- (6) Dedicated shunt reactor CB and zero synchro check device.
- (7) Independent breaker failure relay arrangement.
- (8) Transmission line parameters for relay setting calculation.
- (9) Interface of communication devices for SCADA and protection
- (10) Variation of additional CB for shunt reactor newly provided in switchyard, which is followed to NTDC comments.
- (11) Capacity of shunt reactor changing to 180MVR from 120MVR.

The Contractor will prepare the revised drawings for 765kV protection scheme based on NTDC comments. However, the capacity of shunt reactor will be advised after confirmation of final capacity with NTDC.

After preparation of the revised documents and drawings by EM-01, coordination meeting with NTDC will be arranged by DHC.

**vi. Corresponding between EM-01 Contractor**

The following engineering drawings for power plant and commercial letters being submitted by the Contractor have been returned to Engineer with comments in this period, accordingly.

Received Date	Letter/Reference Number	Title	Reply Date	Remarks
30-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0452	Submission of Contractor's dispute board member for approval	02-Dec-22	

Received Date	Letter/Reference Number	Title	Reply Date	Remarks
16-Oct-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0394	Submission the excitation cubicle and excitation transformer drawings.	02-Dec-22	
17-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0436	Claim No. EM-01/C-06 Change of coordination events – Cost impact due to extension of time for completion (Interim as of 31 October, 2022).	03-Dec-22	
23-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0227	Claim No. EM-01/C-02 Contractor's final claim report for delayed handing over of camp area (4.442 ha).	06-Dec-22	
24-Oct-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0402	Application for material replacement request 3.	05-Dec-22	
21-Apr-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0124	Approval to add supplier of unit online monitoring system.	07-Dec-22	
06-Dec-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0457	Notice of claim due to delay in generation of financial instrument (FI) number by the Employer's bank for goods declaration of first shipment.	07-Dec-22	
02-Dec-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0456	Reply to CSCS complains for Project Manager's comments.	07-Dec-22	
06-Dec-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0449	Clarification on changes related to temporary storage at Ghazi Barotha power station.	08-Dec-22	
09-Dec-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0462	Confirmation request for care & custody responsibility for temporary storage at Ghazi Barotha power station.	10-Dec-22	
29-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2021-0370	Submission of revised Dasu powerhouse cavern equipment arrangement drawing.	09-Dec-22	
06-Dec-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0461	Submission of Contractor's dispute board (DB) member for approval.	14-Dec-22	
14-Dec-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0464	Generation of the financial instrument (FI) number by the Employer's Bank.	17-Dec-22	
15-Dec-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0467	Claim No. EM-01/C-06 Change of coordination events – Cost impact due to extension of time for completion (Interim as of 31 October, 2022).	19-Dec-22	
30-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0448	Addition of suppliers to the agreed schedule T-4: Manufacturers and subcontractors (Appendix-5 of the Contract and attachment-8 of CDA No. 9) for spiral case and stay ring, auto silt monitoring system, generator stator core.	19-Dec-22	
21-Dec-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0471	Submission of Contractor's dispute board (DB) member for approval.	23-Dec-22	
22-Dec-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0473	Follow-up; Response on the deduction of taxes from Contractor's invoices.	23-Dec-22	
17-Oct-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0337	Reply for Dasu generator FE calculation report of stator frame upper bracket, generator load on foundation for approval. Essential parameters for further design work		
18-Sep-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0375		28-Dec-22	
08-Sep-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0343		28-Dec-22	
26-Sep-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0362	Spare parts list of CSCS system.	24-Nov-22	
18-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0430	General technical description for equipment earthing (Rev.A).	25-Nov-22	
18-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0442	Dasu detailed design drawing of turbine guide bearing.	25-Nov-22	
26-Jul-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0267	NTDC reference specification of substation equipment.	25-Nov-22	
09-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0433	Turbine foundation load calculation submission for approval.	26-Nov-22	
23-Oct-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0389	Dasu generator oil mist suction assembly for approval.	26-Nov-22	
04-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0427	Revised mechanical drawings of main inlet valve for approval	28-Nov-22	
14-Oct-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0395	Clarification of CSCS cubicle specification and station auxiliary LCU	28-Nov-22	
27-Sep-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0373	Reply to unit selection of turbine thermodynamics efficiency test.	28-Nov-22	
30-Sep-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0378	Generator stator RTD installation, pit lighting and space heater arrangement.	29-Nov-22	
25-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0447	Factory acceptance test (FAT) for unit 3 staying at Contractor's factory.	29-Nov-22	

### 3.4.8 Environment Management Section

#### 1. Overall activities

##### i) Visit to Kuzabanda service area

The Environment team (ET) DHC visited the Kuza Banda service area of CPEC road on 24-12-2022 and inspected the latest available facilities. Due to non-availability of area manager, only the hotel can be inspected. The hotel includes 12 unfurnished rooms (5 on ground floor

and 7 on first floor). The rooms have attached baths and toilets. The water supply is available. The electricity is also available but unreliable.

The service area at Kuz Banda has a petrol station under construction with structures erected, but the underground tank and fuel dispensing machines are yet to arrive on site. The mosque is functional with water supply; and the bathrooms are functional.

There are two shops in the process of setting up, selling soft drinks, biscuits etc.

The ET met Kuza Banda Toll Plaza manager by the name Mr. Nasir Khan at his office cum residence at NHA office. He disclosed that the current traffic flow is exceptionally low, and the current operation at Toll Plaza is financially uneconomic. He was a thorough gentleman and the ET thanked him for the courtesy shown.

The current operation of CPEC road and the Hazara motorway by NHA implies the observance of strict SOPs on axle load. Any failure to meet the load restriction results in a fine on each section of the CPEC and Hazara Motorway used. This has resulted in shifting of most of truck traffic on old KKH.

In my discussion with the Contract Engineer EM-01 contract, he informed me that all equipment of the EM-01 contract shall travel via Hazara Motorway as per the contract document. Some of the equipment has already arrived from overseas and is at Karachi port. It will be brought to Ghazi Brotha store after custom clearance for storage and later brought to Dasu.

In this circumstance, the setting up of a material loaded truck traffic control point at Kuza Banda is in disarray. Two such stations shall be required to cope with traffic on KKH and CPEC roads since the station at Kuza Banda will not record truck traffic at KKH, particularly EM-01 equipment.

#### **Options for WAPDA**

The Kuza Banda station shall not be able to record all truck traffic because the truck traffic appears to favor the old KKH route (because of various facilities available along the route e.g. repair, fuel stations, food restaurants and absence of load restriction implementations). Kuza Banda service area traffic control workstation shall only record the construction material from overseas reaching Karachi. The other options need to be looked into. These are as follows:

- The development of Shang area. Here two areas were previously available, one on the river side of KKH and the second on the mountain side of KKH. The mountain side area is walled up now and possibly may not be available now. The area on river side is still intact and may be available. More research and contacts are required.
- The CPEC road joins the old KKH at the first tunnel exit to Thakot end. The area about 500m from this first tunnel has limited potential to be used as a Traffic Control Station to control the construction material loaded truck movement. This location has a petrol station and a local restaurant for drivers and road users. Some research will be required to fine-tune the details.

#### **Station for Prime mover at Pattan**

The prime mover: 2 units are proposed to be stationed at Pattan to handle any broken-down vehicles. The proposed location at Pattan is unused and available if WAPDA decides in its favor. WAPDA will have to lease it from the owner. Previously it was in use of World Food Program and Chinese Contractor rehabilitation of KKH. Its location is a few kilometers from Pattan towards Besham.

#### **ii) WB Implementation Support Mission(ISM)**

World Bank Environment Team Visited Dasu Hydropower Project in December 2022. The ISM started from 21<sup>st</sup> of Dec and WB Environment Team left on 23<sup>rd</sup> of Dec 2022. On 21<sup>st</sup> of Dec “The Engineers” Environment Team delivered presentation to the WB Environment Team. Agenda points are described as follows:

- Organogram for the implementation of EMAP
- Status of Pending Issues managed since October 2022 WB mission
- Efforts made to resolve the issues
- Spoil disposal sites

- Working relationship with M&E consultants
- Trainings
- Update on Traffic Management Plan

On 22<sup>nd</sup> of Dec 2022 WB team visited all construction sites. (Pictures attached)

**iii) Meetings with Contractors**

Monthly meeting for month of December on 29<sup>th</sup> of December 2022. “The Engineer” instructions were discussed in detail and new points regarding non-compliances were added to the Minutes of meeting and WTEIR.

**iv) Meeting with WAPDA**

A meeting was called upon by Chief S&D WAPDA and Director Environment WAPDA on 14<sup>th</sup> of December 2022 in their office regarding Non compliances by the contractors at DHPP Sites. The agenda was regarding closure of NCR’s, Hiring of dedicated Environmental Managers by CGGC, TL and PCI-01. There were other non-compliances like oil spills, Solid Waste Management Disposal Site

**v) Meeting with RAR-02 EHS Team**

**A meeting was conducted with RAR-02, CGGC EHS staff dated: 12th of Dec 2022.** The meeting was attended by of Mr. Liaqat Ali Khan and to discuss the status of pending environmental NCR’s closure. Deadline was provided to the contractor for compliance before 20<sup>th</sup> of Dec 2022 joint visit by WAPDA and DHC.

**vi) Meeting with CGGC EHS Director & their proposed 3rd Party Monitoring Lab Bureau Veritas (BV-Lab):**

A meeting was conducted with CGGC EHS Director dated: 09<sup>th</sup> of Dec 2022. CGGC’s 3<sup>rd</sup> Party BV-Lab was again brought in by EHS Director CGGC for a detailed presentation on their profile and overview of their equipment’s(which they had brought in with them), calibration certificates and experienced staff Resume’s. The only thing missing in their profile was “Certificate of Registration” from KP-EPA or Federal Environmental Protection Agency, Ministry of Climate Change. CGGC EHS Director was told that without this certificate and relevant technical qualifications No Lab is allowed to conduct Environmental Monitoring on DHPP Sites.

**vii) Meeting with Contractors of RAR-01, KKH-01, MW-01 & 02, RAR-02, KKH-02 & PCI-01R**

Monthly Progress Review meeting for the month of December 2022, was held on 29<sup>th</sup> December 2022 with all contractors. Pending issues were discussed and new environmental non-compliances were also part of the discussion. Later, minutes of meeting was prepared and issued to all contractors.

**viii) Letter/ Report sent to contractors and WAPDA**

Sr. No.	Subject	Date
1	Letter to KKH-02 Contractor for repeated Environmental Non-Compliances	07-12-2022
2	31 <sup>st</sup> Environmental Quarterly Progress Report ( July 2022 – Sep 2022 shared with WAPDA	15-12-2022
3	Engineers Reply to WAPDA regarding Utilization Record for Coarse and Fine Aggregates	25-12-2022
4	Letter to WAPDA for seeking advice on Change in Contractual Matter; Lessening of Experience required for Hiring of Environmental Director by CGGC	27-12-2022
5	Letter to WAPDA development of Traffic Management Station at Kuza Banda and related matters; urgent actions, analysis & recommendation	27-12-2022
6	Letter to KKH-01 contractor regarding Non-Compliance report: In appropriate Washing Facility of Concrete Batching Plant at K-9 Site.	28-12-2022
7	Letter to KKH01 regarding Conditional Approval of ES-PAK Laboratory for third Party Monitoring on KKH-01 Sites for Air, Noise, Water Parameters	30-12-2022
8	Reviewed CEAP and Comments sent on of RAR-02	21-11-2022

**ix) Environmental Supervision for Each Contract Site**

DHC performed environmental supervision during the reporting month to confirm the implementation of environmental management plans for all contract packages. Details are presented below:

**2. Environmental Supervision for Each Contract Site**

DHC performed environmental supervision during the reporting month to confirm the implementation of environmental management plans for all contract packages. Details are presented below:



### 2.1. KKH-01 and RAR-01

- (a) **Review:** DHC reviewed Monthly Progress Report for KKH-01 & RAR-01 of the previous month of December, 2022.
- (b) **Environmental supervision:** Environmental supervision were conducted for both contracts of CCECC. At KKH-01 the environmental non-compliances like Dirty kitchen at K-09 labor Camp, Use of Firewood in the Labor camp near K-09 site, Improper design of Sedimentation pond at K-09, Cleanliness of Labor camp and its toilets, inadequate housekeeping, Solid Waste littering, minor Oil spill, improper washrooms facility for labors, dust and improper spoil sewage / sedimentation pond waste water disposal were noted. The observations were sent to the contractor through walkthrough environmental inspection report (WTEIR). For rectification of compliances.
- (c) **Monthly meetings:** The monthly environmental progress review meeting for December was conducted on 29<sup>th</sup> December 2022. All issues relating to Environmental Compliances identified in WTEIR's were discussed in the monthly meeting.

### 2.2. KKH-02 and RAR-02

- (a) **Meeting:** RAR-02 contractor EHS Team Visited DHC Office and sought guidance regarding closure of NCR's issued to them on 12<sup>th</sup> of Dec 2022.
- (b) **Environmental supervision:** The construction supervision continued during the reporting month. Environmental observations noted during these visits were sent to the contractor in Walkthrough environmental inspection reports (WTEIR). The key issues identified at KKH-02 were minor oil spill, improper spoil disposal, inadequate housekeeping and littering at the construction site.  
Similarly, for RAR-02 construction works, WTEIR has been sent to the contractor on 13<sup>th</sup> of Dec 2022 for rectification of the non-compliances.  
**NCR:** The NCR issued to RAR-02 regarding Non-existence of toilet commodes with flushing system and septic tanks in Kandia site labor camp was Inspected conducted by the DHC environment team after submission of AFI on 18<sup>th</sup> of Dec 2022. There were other issues discussed, minor oil spill, littering of waste, open discharge of sewage water and dust. The Contractor was instructed to rectify the non-compliance and submit report.
- (c) **Monthly meetings:** The monthly environmental progress review meeting was conducted on 29<sup>th</sup> December 2022. All issues relating to previous months agreed actions as well as environmental non-compliances identified WTEIR's were discussed in the monthly meeting.

### 2.3. TL-01

- (a) **Environmental supervision:** The construction work is limited to grid station only. Regular site inspections were conducted to the site. Fugitive Dust was a major issue on the Chuchang to Grid Station Road as well as on the approach road of the grid. Additionally provision of clean drinking water and mobile toilet was also highlighted to the contractor which was then rectified by the contractor.
- (b) **Monthly meetings:** The monthly environmental progress review meeting was scheduled for 29<sup>th</sup> December 2022. The contractor did not show up for the meeting therefore instead of Minutes of meeting and NCR was issued to the contractor.

### 2.4. MW-01 and MW-02

- (a) **Written Instructions:** There were persistent pending issues on which 18 NCR's has been issued in the month of November & December 2022  
**Environmental supervision:** Daily supervisions were conducted to ensure environmental compliance. Walkthrough environmental inspection reports (WTEIR) were shared with the contractor to rectify the non-compliances observed during the site visits. The non-compliances identified and reported to the contractor for rectification were littering, Oil spill, dust, inadequate housekeeping and use of chemical drums for human use at CR-09 sites as well as CT-02. Walkthrough environmental inspection reports have been sent to the contractor for rectification.
- (b) **Monthly meetings:** The monthly environmental progress review meeting was conducted on 29<sup>th</sup> December 2022. All issues relating to previous months agreed actions as well as environmental non-compliances identified WTEIR's were discussed in the monthly meeting.

**(c) Monthly spot monitoring:** The supervision of the monthly spot monitoring for environmental compliance at MW-01 and MW-02 was conducted on 16<sup>th</sup> of December 2022. All agreed parameters of wastewater were checked against NEQS limits. Uchar crush plant's sedimentation pond was not monitored due to elevated level of froth and sediment in the pond. The Contractor was asked to clean the sedimentation pond then it will be monitored. The CR-02 Batching plant sedimentation pond pH Level was 12.1, at CR-09 (MW-02) Batching plant sedimentation pond was 11.1, and outlet of CT-02 was not monitored as it was nonfunctional at the time of visit by the monitoring team. The Adit-1 pH was 9.2, CR-09 Batching plant sedimentation pond was 11.2. The Spot Monitoring was not conducted at MAT sedimentation pond because an NCR was issued for the without approval modification of this sedimentation pond was done by the contractor and it was full of sediments and cleaning and reverting to old design was required.

The pH values of surface water taken from River Indus i.e., Up stream of Uchar crush plant and downstream of CT-02 Tunnel was 8.5 and 8.6 respectively. These values are high as per NEQS which is 6-9. The Contractor was given instructions on the AFI to add fresh water to their sedimentation ponds to keep the pH value within NEQS. The Contractor was also suggested to consider another option i.e., addition of dilute acid to lower the pH and keep it with in the NEQS.

**(d) Air Dispersal Modelling by Hagler Bailey Team**

The installed air diffusion tubes for analysis of NO<sub>2</sub> and SO<sub>2</sub> at the locations where air quality sampling was conducted was collected on 7<sup>th</sup> December 2022. The tubes were sent to Gradco Lab in UK for detailed analysis. As per information shared by Hagler Bailey through CGGC, the result of baseline Environmental Monitoring will be shared by second week of Jan 2023 with "The Engineer"

**2.5. PCI-01R**

**(a) Environmental supervision:** Environmental supervisions were conducted during the month and environmental observations were noted which were sent to the contractor through walkthrough environmental inspection reports. Non-compliances regarding fugitive dust issues especially from the crush plant, Drainage of Sedimentation Pond from Crush plant matter, minor oil spills, solid waste littering, Cleaning of toilets and no use of firewood in the labor/ staff camps, and inadequate housekeeping issues were discussed with the contractor.

**(b) Monthly meetings:** The monthly environmental progress review meeting was conducted on 29<sup>th</sup> December 2022 to discuss the status of progress for pending environmental issues. Minutes of meeting were prepared and shared with all stakeholders. The contractor was instructed to pursue the license for fuel storage at site from chief inspector of explosives.

**3. Trainings Imparted to Contractor EHS Managers by "The Engineer"**

The Engineer arranged three trainings in their office for all EHS Manager and other line managers to help understand the Environmental Non-compliances and their mitigation measures in a better way. Following topics were covered during the presentation.

- Oil Spills
- Protection of Flora and Fauna
- Management of Wastewater Disposal at Construction Site.(Pictures Attached)

**4. Joint Inspection of EHS Teams of WAPDA and DHC**

In the month of December it was mutually agreed between EHS Teams of WAPDA and DHC on 06<sup>th</sup>, 13<sup>th</sup> & 20<sup>th</sup> of Dec 2022 for all contractor sites as per an agreed schedule. Following Inspection Visits are completed as per schedule.

Sr. No.	Contract Name	Date Scheduled	Status of Inspection (Done/Not Done)
01	PCI-01 & TL-01	06 <sup>th</sup> Dec 2022	Done
02	MW-02	13 <sup>th</sup> Dec 2022	Done
03	KKH-01	20 <sup>th</sup> Dec 2022	Done
04	KKH-02	27 <sup>th</sup> Dec 2022	Not Done: The work is closed due to Special Safety issues due to unstable slopes.

All Non-compliance were noted at site and immediately conveyed to the relevant contractor EHS Managers who were accompanying the inspection team. Issues that were long time pending were conveyed through the WTEIR

**5. Non-Conformance Report (NCR) Issued in Month of December 2022**

Four NCRs were issued to different Contractors during the current month. Following Table shows the status of the NCR issued with date.

Sr. No.	Contract	Subject	Issuance Date
1	TL-01	Failure to attend Monthly Progress review meeting	2 <sup>nd</sup> Dec 2022
2	PCI-01R	Use of fuel wood for cooking in labour camps	9 <sup>th</sup> Dec 2022
3	RAR-02	Failure to hire and mobilize Environmental Officer	10 <sup>th</sup> Dec 2022
4	RAR-02	Absence of septic tank at Kandia Labour camp	10 <sup>th</sup> Dec 2022

**3.4.9 OHS Management Section**

The primary responsibility of the Engineer (DHC) OHS Section is to supervise Contractors' implementation of OHSMP and assist PMU in contractual decisions on the OHS performance of the Contractors. Major tasks of OHS Section are the following:

1. Advise the Contractors in finalization of an effective OHSMP in compliance with additional provisions in EMAP;
2. Enhanced OHS supervision of all Contractors OHSMP implementation;
3. Implementation of gap analysis tool for underground works;
4. Finalization of Project level Emergency Response and Preparedness Plan; and
5. Additional tasks to provide OHS management related advice to the Resident Engineers and site personnel as well as to provide appropriate training related to OHS operations with the Contractors and DHC personnel.

The field OHS staffing of DHC in this month are sixteen (16) supported by one International OHS Advisor/Expert. The following field staffs were available with OHS section in this reporting month:

1. One Foreign Resident OHS Specialist;
2. One Deputy Lead OHS
3. Two OHS Specialist;
4. Three OHS Professionals;
5. Four Field OHS Professionals;
6. Three Field Inspectors;
7. One Plant & Equipment Inspector; and
8. One Plant & Equipment Assistant Inspector

Please see Section 6 for OHS Management of the Project performed by The Engineer during the reporting month.

**3.4.10 Social & Resettlement Management Section**

Various Social & Resettlement (S&R) Teams are involved in the implementation of Social and Resettlement Management Plan (SRMP). There are about 12 teams working under four major sections; (i) Land Acquisition & Compensation and GIS Verification Team, (ii) Resettlement & Rehabilitation Team (Resettlement Team, Public Consultation Team, & Livelihood Team) (iii) Social Development Team (Public Health & Gender Teams, In-migrant Management Team, and Downstream Impact Management Team), and (iv) Monitoring & Evaluation and MIS Development Team.

Work on SRMP implementation continued during the reporting month (December 2022). Major activities carried out by various S&R teams during the reporting month are summarized below, while details of activities carried out under each section are given in Chapter-7.

1. **Land Acquisition and GIS Teams** performed the following tasks;
  - i. Land Acquisition Team continued assisting WAPDA as well as the Office of Deputy Commissioner / Land Acquisition Collector in the process of acquiring remaining land. The team extended its support to Land Acquisition Cell (LAC) for assisting Sub Registrar in

completion of documents for private registration deeds to acquire land of the remaining components of New Batch 5.

- ii. Land acquisition formalities for the remaining land under Batch-5 - new Batch remained under process for which revenue records have been prepared, GIS Verification for most of the components completed, and Land Acquisition process is underway. During the reporting month, the rectification of revenue record of Gummo, Gayal, and Shatial remained in progress after the observations from GIS section.
- iii. As per updated status of Land Acquisition obtained from the Land Acquisition Section under Land Acquisition Collector / Deputy Commissioner's Office, Dasu, Kohistan Upper, a total land of about 4,652 acres of land has been awarded / acquired until December 2022. However, no land was acquired during the reporting month (December 2022), though the land acquisition process has almost been completed and assessments of built up property and trees is in progress.
- iv. LA & GIS Teams worked to prepare all required documents and verified revenue records and cost assessments of on-going components. The team digitized received revenue record, helped revenue team in record rectification, and submitted the rectified record to GIS team for verification.
- v. Rectified and New Revenue records of 14 components was received for GIS verification during the reporting month. These records were digitized and processed for GIS verification (by LA Teams of WAPDA & DHC) during the reporting month.
- vi. GIS Team processed six components during the reporting month. GIS certificates were issued for one components while for remaining five GIS observations were submitted to LAC office for the rectification of revenue record.
- vii. The LA Team also verified cost assessments of two component and submitted to WAPDA for transfer of compensation funds in DC/LAC account;
- viii. The team assisted LAC team in paying compensation money to the PAPs, cheques were prepared for 41 PAPs, however the compensation could not be paid during the reporting month (December 2022) due to freezing account.
- ix. The payment of land leasing of Kass area remained in progress. An amount of Rs. 548,268,836/- has been paid to 256 Beneficiaries of various Kass Areas by the end of reporting month December 2022). No cheque was paid during December 2022. The area of Kass File-2 has been taken over by WAPDA after full payment and all houses have been demolished, while majority of the houses in Kass Area-01 (File-01) and Kass Area-02 have also been taken over by WAPDA except few houses where the ownership is disputed.
- x. During the reporting month, no draft for any new Section or corrigendum were prepared and submitted.

**2. Resettlement & Rehabilitation Team includes Resettlement Team, Public Consultation Team, and Livelihood Team.** The Teams performed the following tasks;

- i. Resettlement Team followed up for the relocation of households for priority components, mainly the community of Barseen, Uchar, Chuchang and Siglo Villages. In this regard, follow up visits were made to these villages and meetings held with the AHHs in DHC Office. The relocation of majority of the houses was completed in Barseen and Uchar while the relocation of HHs in Siglo is progressing very slowly. Notices were served to the AHHs of Siglo for the completion of SMR file documents, receiving their cheque and relocate houses as early as possible.
- ii. The team also remained involved in preparing TRP files and assist WAPDA to pay TRP to the AHHs. By the end of December 2022, a total amount of PKR 78,884,437/- has been paid as TRP to 288 AHHs of 13 components. In addition to HHs, PKR 3,926,220/- were paid to the owners of 43 commercial structures of Khushi, Sigloo, Tailrace Kuz Chuchang, and Barseen Area.
- iii. The S&R and consultation teams supported contractors and Infrastructure teams in resolving issues during the reporting month (Khushi-1, Khushi-2, Nasirabad-1 Nasirabad-2, Chuchang-1, and Chuchang-4). The sites were visited to resolve the emerging social issues during the reporting month.
- iv. By December 2022, an amount of Rs. 2,901.15 Million have been paid as ESMR allowance to 830 Affected Households.

- v. File preparation work remained in progress. The SMR Working Team remained engaged in preparing the remaining files of priority villages during the reporting month.
  - vi. By the end of reporting month (December 2022), the Working Committee has finalized and forwarded 1878 files to the Field Verification Committee while Field Verification Committee has completed the verification of about 1,838 files by the end of the reporting month.
  - vii. The S&R teams also kept engaged in revising the files as per the comments of Review & Scrutiny Committee (RSC) and Payment Committee (PC).
  - viii. A series of meetings were conducted with the Deputy Commissioner (Kohistan Upper) during the reporting month regarding the progress of SMR files preparation and payments.
  - ix. The Public Consultation Team assisted R&R team and LADP teams in community consultations regarding resettlement sites (Khushi 1&2, Nasirabad 1&2, and Dhaat 1), LADP schemes, and resolving day-to-day social issues.
  - x. The ILRP team remained involved in conducting survey for the "Utilization of Compensation Money" Reports to get the feedback of the Affected Persons for the utilization of received compensation money. So far 11 reports covering 25 components (where compensation payments completed) have been finalized and submitted to WAPDA. The survey of Sigloo village has been completed and preparation of report is in progress while the survey of "Seer Gayal, Barseen, and Sluch villages," remained in progress during the reporting month.
  - xi. The ILRP also assisted R&R and Public Consultation Team in finalizing TRP cases and consultation with the communities regarding TRP as well as estimation of project allowances for disbursements of payments.
- 3. Social Development Team (Public Health & Gender Teams, In-Migrant Management (IMM) Team, and Downstream Impact Management (DIM) Team, Communication Team, GRC Team) performed the following Tasks;**
- i. New LADP Contract has been awarded and the work commenced. The new Consultants (NESPAK) is on board and have started their inception activities. Public Health Plan, Income and Livelihood Support Program, and Downstream Impact Management Plan also included in the SoP of new consultants.
  - ii. The case for the purchase of two ambulances for health department Kohistan (upper) has approved by the Authority in its meeting held on December 18, 2021. Total Budget is 20 Million PKR.
  - iii. The case of procurement of machinery for TMA Dasu Kohistan for solid waste management is in final stage. The tendering is under process with contract Section.
  - iv. Gender Specialist finalized the Gender Awareness and Sensitization Handbook to be used in upcoming workshops for approval.
  - v. Gender Specialist participated in a formal meeting with Provincial Health Services Academy (PHSA) senior staff held in Peshawar, explaining them Kohistan Specific context and degree of extreme vulnerability.
  - vi. The Communication Team remained engaged in public dealing and sharing information regarding Dasu HPP with local community and general public through Public Information Centre (PIC) continued.
  - vii. Distribution of already published information material continued among the affected communities in the project area.
  - viii. The IGRC team updated the GRC status for the month and carried out meetings for resolving the pending complaints,
  - ix. The IMM team organized workforce data received from all contractors and other stakeholders. A total 4,713 workers were recorded working with the contractor and other organizations under DHPP by the end of reporting period.
- 4. Monitoring & Evaluation (M&E) and MIS Development Teams performed the following tasks:**
- i. M&E Team also supported LA and R&R Teams in monitoring of compensation payments (in DC Office) and TRP allowances disbursement (in WAPDA).
  - ii. The M&E team organized compensation payment and TRP data and prepared updated status. The team also remained involved to keep record of Kassa Land Leasing which remained in progress during the reporting month.

- iii. The M&E team also supported MIS team in the development and upgradation of on-going modules for finalizing input and output formats. The team mainly worked on SMR sub-module for developing input and output formats.
- iv. The MIS Team mainly worked on the development of “SMR Module” and “Upgradation of the Web Portal”. About 86 % of MIS Development work has been completed by December 2022. The team remained engaged in upgrading the already developed modules and no new module was developed during the reporting month.

#### **3.4.11 Others**

##### **a) Schedule, Monitoring and Costing Section**

- i. Review of the Contractor’s [China Gezhouba Group co., Ltd.] updated schedule R4D13 for MW-01 and discussion with the Contractor in progress.
- ii. The Contractor (CGICOP) of the Project Colony submitted 2nd Extension of Time (EoT-2) with 26 no. of delay events. The Engineer has preliminary assessed the submission and asked the Contractor a revised baseline schedule for EoT-2. The Contractor has submitted soft copy of the schedules; however, the Engineer has asked again for the revised programme according EoT-01, which should be in consistent with the Approved Contract Programme (Baseline Schedule).
- iii. Extension of Time (EoT-2) for MW-02 contract has been prepared and is under finalization stage. The EoT has been submitted to the Employer for further necessary action.
- iv. Assist in Senior Management in preparation of revised Planning Commission (PC1) report for the WAPDA.
- v. Updated the Budgeted Cost of all contracts of Dasu HPP for WAPDA (Member Water).
- vi. Review of updated schedule of EM-01 according to coordination events as mentioned in the Explanatory note to the Employer is under progress.
- vii. Review of revised schedule of KKH-01 regarding varied works of Bridges and Tunnels is in progress.
- viii. Prepared presentation regarding progress updates and issues for the Chairman WAPDA and Advisor Projects (Mr. Nasir Hanif).
- ix. Preparation and submission of various periodical reports, and updates.

##### **b) Laboratory and Quality Assurance Section**

- i. **QA/QC-related correspondences:** The correspondences from all Dasu Contractors and WAPDA are being reviewed and responded. The issued AFIs (Availability for Inspection) by the Contractors are being performed and, when required, controlled and commented on; letters are being prepared and sent to the Contractors related to the QA/QC issues observed at the Site. Inter-section meetings have been regularly held with other parts of DHC regarding Technical Specifications to clarify some design parameters and make a primary platform for QA/QC test methods. The requested QA/QC reports are being prepared and presented to make technical decisions at the construction site.
- ii. **Approval of the material sources and manufacturers:** The submitted documents and certificates of sources proposed by the Contractors are being reviewed and commented on. In the scope of MW-01&MW-02, for the proposed Natural Pozzolan Source 1, the Contractor is requested to perform supplementary optional tests for completing the evaluation of the source. Factory visits have been performed from Advanced Engineering (Gabion Sack), KB steel (Steel Wire Source) and Ahmad&Saeed (Bentonite Source) for KKH-02 and Main Works, respectively. Pak Steel manufacturer has been evaluated in the scope of RAR-01 and KKH-01 works. The proposed sub-base material source has been approved in the scope of KKH-01 work.
- iii. **Smart Quality Control Database (Test Results):** The database is regularly being prepared, including aggregates, cement, admixtures, reinforcement, Concrete, Mortar, Shotcrete, Grout, and etc. is also in progress. The database of third-party laboratory test results has been started from this month. Gathering and evaluating data regarding CR2 and CR9 Batching Plants printouts and Daily summaries are regularly being performed. The daily report of all activities in the Barseen Laboratory is being recorded. The UCHAR Temporary Crushing Plant's daily production active time is also being monitored (MW-01&MW-02).

Evaluating the main works database for all material was performed during December month. In the scope of RAR-01 and KKH-01 works, the CCECC Contractor started to update their soft form database at the ZAL camp laboratory office. The Contractor is empowering the QA/QC section.

- iv. Sampling and Testing of Fresh Construction Products:** Determining the compressive strengths, workability, and density of the produced concrete, shotcrete, grouts, and mortar mixes, sampling, and testing are regularly ongoing, as per the Technical Specifications for Dasu Projects.
- v. Field Tests:** In the scope of KKH-01 and RAR-01 (bypass part) rock bolt, regular-based pull-out and field density of backfilling and filling tests are being performed. The field trials of the proposed concrete are being tested at the site in the scope of Main Works. The aggregate production rate measurement has been performed at the Uchar temporary crushing plant (MW-01&MW-02). The Contractor has started to calibrate the Uchar #1 permanent crushing plant during December. The calibration and justification of equipment are still ongoing. The field density test for execution of the Starter Dam is regularly being performed, in the scope of MW-01 work.
- vi. Follow-up, Review, and Evaluation:** The monitoring and evaluation of test results according to technical specifications is in progress for all contractors within the scope of the Dasu projects. Petrographic analysis and Alkali-Silica Reactivity test results are regularly being evaluated for Main works. The petrographic analysis and the latest test results of the proposed natural pozzolan performance (90 days) are being evaluated. The monthly third-party laboratories test results for different material are being evaluated in the scope of Main and KKH-01&RAR-01 works. Besides the regular data assessment, evaluating the batching plant's printouts batch by batch is being performed in the scope of the main works. Regarding this matter, the local DHC inspectors are being trained by the senior Engineers to systematically follow up and control the production (Concrete, Shotcrete, and Mortar) quality. The Contractor (CGGC) should hire well-experienced laboratory technicians and Engineers to improve quality control and decrease the variations at the site and laboratory.
- vii. Consigned Material and 3<sup>rd</sup> party laboratory tests:** Routine Quality Control Tests on the consigned cement, reinforcement steel bars, wire mesh, and other steel materials, and admixtures are ongoing at the Site Laboratories and 3<sup>rd</sup> party laboratories. The test results have been reviewed and evaluated, and accordingly, relevant actions have been taken. In the scope of MW-01&MW-02 works, water, Cement, Rebar, Rock Bolts, Rock Bolts Components, Admixtures, wire mesh, Water stop samples have been taken and submitted to the 3<sup>rd</sup> party laboratories. In the scope of the KKH-01 project, samples from different project materials have been sent to the 3<sup>rd</sup> party laboratories. In the scope of Main Works, the Contractor submitted the documents of a new third-party laboratory for approval; the evaluation of the Engineer is ongoing. A letter has been issued to WAPDA regarding the ability of CMTL third-party laboratory to perform harden RCC special tests in the scope of MW-01.
- viii. RCC Mix Design:** Second Stage RCC Mix Trial Program recommended by Dr. Dunstan has been performed with different cement (Fauji and Maple Leaf OPC) and Natural Pozzolan contents. The long-term test results (365 days) were completed in May 2022. The MW-01 Contractor has recently performed alkali reactivity tests on blended cement (Cement and natural pozzolan) that have been used in mentioned mix trials as per Technical Specifications. The Engineer received the 3<sup>rd</sup> party laboratory test results; The Contractor is also requested to repeat the nominated mix proportions at the Barseen laboratory to confirm the performed tests, especially to verify the performance of the utilized water retarder. Other tests like Permeability (from the mass and inter-layer joint parts), Poisson ratio, Module Elasticity, Tensile Strength, Shear Strength, Creep, Volume Change, and Dynamic and Thermal Properties should be performed on hardened concrete samples. The limits for mentioned parameters are being assigned by the designer. The method statement of RCC Field Trail Placement (FTP) has been reviewed by the Engineer and the respective letter submitted to the main works Contractor.

The Engineer declared the chosen mix designs for the final cementitious material content based on long-term laboratory test results. Regarding the cementitious range of the RCC mixes, the Contractor believes the 365 days specified compressive strength should be considered according to the Contract. Based on Dr. Dunstan's experiments in Lahore Mix Design Program, the Engineer requested the Contractor to consider the option of 1000 days of age for the Compressive strength of RCC different classes to optimize the cement content and reduce the heat generations during the construction phase. The Contractor will continue with 365 days design age. After receiving the 1000 days of second stage mix trial test results, decision will be made to adjusting the mix design proportions. For execution of FTP the completion of permanent crushing plant is needed.

A meeting has been held with Diemer Basha Consultant regarding RCC mix design trials. It has been decided to share the requested information with Diemer Basha project Consultants.

- ix. Mix Designs:** Developing and updating conventional concrete, grout, and shotcrete mix designs by assigning and changing in any ingredients like cement, aggregates sources, etc., are continuing at the site laboratories.

The mix design of Cut-off wall has been changed and new mix designs are being performed in the Barseen laboratory. In the scope of the MW-01&MW-02 works, Pozzolanic CVC mix designs are ongoing for different classes of concretes and shotcretes. The mix designs with LAC cement for CVC and Shotcrete and grouts have been approved during this month. The Self Compacted Concrete (SCC) mix trails test results have been commented by the Engineer for necessary adjustments. In KKH-01 works, the RCC mix design investigation of the access road pavement improvement to the Project Colony is completed. Two mixes has been approved for RCC pavement with two different aggregate sources. The CCECC is requested to send a test plan for the KKH-01 Bridges high-strength concrete mix design. The CVC mix trails have been carried out at the ZAL laboratory for different classes in the scope of KKH-01 work. The proposed masonry mix design has been commented by the Engineer in the scope of Main Works.

- x. Monthly Laboratory Monitoring and other facilities:** Maintenance and Operational condition of the Contractor's laboratories have been regularly performed. Materials, sewage system, calibration testing, power supply, air conditioning, etc. In the scope of the KKH-01 works, the CCECC contractor is mobilizing its ZAL camp laboratory with afresh purchased apparatuses. The Contractor proposed a laboratory equipment manufacturer and a factory visit has been organized to verify the authenticity of the source. In the scope of KKH-02 and the relevant Variation Order, the required additional laboratory equipment for execution of bridges and tunnels is evaluated.

### **c) Survey Section**

The following activities have been carried out at site during this month:

#### **i. Dasu-RAR-01: Survey Supervision Activities**

- **Joint Survey of Breast wall foundation komila bypass at:**

Km 0+131.25 to Km 0+140.75  
Km 0+393 to Km 0+425  
Km 0+143.75 to Km 0+192.50

- **Joint Survey of Retaining wall foundation komila bypass at :**

Km 0+143.75 to Km 0+162.150  
Km 1+460 to Km 1+481.25  
Km 1+081 to Km 1+093.75  
Km 0+354 to Km 0+373  
Km 0+062.50 to Km 0+081.25  
Km 1+712.50 to Km 1+721.25  
Km 0+163.752 to Km 1+173.12  
Km 0+118 to Km 0+131.25  
Km k 0+675. to Km 0+118  
Km 0+173.50 to Km 0+179.75  
Km 0+143to to Km 0+162.50



- **Joint Survey of Slide Materials Komila Bypass at:**

- Km 0+075 to Km 0+150

- Km 0+350 (Around)

- Km 1+318.75 to Km1+356.25

- ii. **RAR 02: Joint Survey Supervision Activities:**

- Joint visit with WAPDA people at RAR-02 KANDIA nallah for ROW
- Joint Topographic Survey of temporary access road RAR-02 Km 34+400 to Km 35+300 at KANDIA
- Joint Survey for shallow-hole and split blasting of RAR-02 at Ch.Km 13+620.-Km 13+630
- Joint visit with WAPDA people and Revenue staff at RAR-02 KANDIA nallah for ROW
- Demarcation of ROW RAR-02 at KANDIA nallah Km 32+800 to Km 33+000
- Joint Survey for shallow-hole and split blasting at RAR-02 Km 35+300-Km 35+325
- Joint Survey for shallow-hole and split blasting at RAR-02 Km 13+630-Km 13+640
- Joint Survey for shallow-hole of Access road at RAR-02 RD 0+850 to RD 0+870 Left side from KANDIA Bridge
- Joint Survey for shallow-hole of Access road at RAR-02 RD 0+840.0-KRD 0+850 Left side from KANDIA Bridge
- Joint topographic Survey for IPC of access road TR-03 at RAR-02 RD 0+230-RD 0+840 left side from KANDIA bridge
- Joint Survey for shallow-hole split blasting of RAR-02 Km 13+660 to Km 13+670
- Joint topographic Survey for IPC of access road TR-03 at RAR-02 RD 0+230-RD 0+840 left side from KANDIA bridge
- Joint Survey for shallow-hole and split blasting of access road RAR-02 left side KANDIA RD 0+905.0 to RD 0+915.0
- Joint Survey for shallow-hole and split blasting of access road RAR-02 left side KANDIA RD 0+900.0to RD 0+910.0
- Joint topographic Survey for IPC temporary access road (TR-01) at RAR-02 right side from KANDIA bridge
- Joint topographic Survey for IPC temporary access road (TR-01) at RAR-02 right side from KANDIA bridge
- Joint Survey for shallow-hole and split blasting at RAR-02 Km 13+680 to Km 13+690
- Demarcation of ROW RAR-02 at KANDIA nallah Km 33+000 to Km 33+100

- iii. **Dasu-KKH-01: Survey Supervision Activities**

- Joint Survey Activities At K-9 Tunnel
- Joint survey of Excavation work and Support work at k-9 tunnel (9+203 to 205)
- Joint survey of Excavation work and Support work at k-9 tunnel (9+205 to 206)
- Joint survey of Excavation work and Support work at k-9 tunnel (9+206 to 207)
- Joint survey of Excavation work and Support work at k-9 tunnel (9+207 to 209)
- Joint survey of Excavation work and Support work at k-9 tunnel (9+209 to 211)
- Joint survey of Convergence Points at K-9 & K-4 Tunnels
- Joint survey of Excavation work and Support work at k-9 tunnel (9+211 to 213)
- Joint survey of Excavation work and Support work at k-9 tunnel (9+213 to 215)
- Joint survey of Excavation work and Support work at k-9 tunnel (-+215 to 216)
- Convergence points survey at K-4 & K-9 Tunnel
- Joint survey of Excavation work and Support work at k-9 tunnel (9+216 to 218)
- Joint survey of Excavation work and Support work at k-9 tunnel (9+218 to 220)
- Joint survey of Excavation work and Support work at k-9 tunnel (9+220 to 223)
- Joint survey of Excavation work and Support work at k-9 tunnel (9+223 to 225)
- Joint survey of Excavation work and Support work at k-9 tunnel 9+225 to 227)
- Joint survey of Excavation work and Support work at k-9 tunnel (9+227 to 230)
- Joint survey of Excavation work and Support work at k-9 tunnel (9+230 to 232)
- Joint survey of Excavation work and Support work at k-9 tunnel (9+232 to 234)
- Joint survey of Excavation work and Support work at k-9 tunnel (9+234 to 236)
- Joint survey of Excavation work and Support work at k-9 tunnel (9+236 to 238)
- Joint survey of Excavation work and Support work at k-9 tunnel (9+238 to 240)

- Joint survey of Excavation work and Support work at k-9 tunnel (9+240 to 241)
- Joint survey of Excavation work and Support work at k-9 tunnel (9+241 to 243)
- Joint Work Done survey at Zero Point km 1+425 to Km 1+805 KKH-01
- Joint survey of Excavation work and Support work at k-9 tunnel (9+243 to 245)
- Joint survey of Excavation work and Support work at k-9 tunnel (9+245 to 247)
- Joint survey of Excavation work and Support work at k-9 tunnel (9+247 to 249)
- Joint survey of Excavation work and Support work at k-9 tunnel (9+249 to 253)
- Joint Survey Activities At K-4 Tunnel:
- Joint survey of Excavation work and Support work at k-4 tunnel (4+597 to 596)
- Joint survey of Excavation work and Support work at k-4 tunnel (4+596 to 595)
- Joint survey of Excavation work and Support work at k-4 tunnel (4+595 to 593)
- Joint survey of Excavation work and Support work at k-4 tunnel (4+593 to 591)
- Joint survey of Excavation work and Support work at k-4 tunnel (4+591 to 589)
- Joint survey of Excavation work and Support work at k-4 tunnel (4+589 to 587)
- Joint survey of Excavation work and Support work at k-4 tunnel (4+587 to 585)
- Joint survey of Excavation work and Support work at k-4 tunnel (4+585 to 583)
- Joint survey of Excavation work and Support work at k-4 tunnel (4+583 to 580)
- Joint survey of Excavation work and Support work at k-4 tunnel (4+580 to 578)
- Joint survey of Excavation work and Support work at k-4 tunnel (4+578 to 576)
- Joint survey of Excavation work and Support work at k-4 tunnel (4+576 to 574)
- Joint survey of Excavation work and Support work at k-4 tunnel (4+574 to 572)
- Joint survey of Excavation work and Support work at k-4 tunnel (4+572 to 570)
- Joint survey of Excavation work and Support work at k-4 tunnel (4+570 to 568)
- Joint survey of Excavation work and Support work at k-4 tunnel (4+568 to 566)
- Joint survey of Excavation work and Support work at k-4 tunnel (4+566 to 564)
- Joint survey of Excavation work and Support work at k-4 tunnel (4+564 to 560)
- Joint survey of Excavation work and Support work at k-4 tunnel (4+560 to 558)
- Joint survey of Excavation work and Support work at k-4 tunnel ( 4+558 to 555)
- Joint survey of Excavation work and Support work at k-4 tunnel ( 4+555 to 552)
- Joint survey of Excavation work and Support work at k-4 tunnel (4+552 to 549)
- Joint survey of Excavation work and Support work at k-4 tunnel ( 4+549 to 547)
- Joint survey of Excavation work and Support work at k-4 tunnel ( 4+547 to 545)
- Joint survey of Excavation work and Support work at k-4 tunnel ( 4+545 to 542)
- Joint Survey Activities At Logro-B Tunnel
- Joint topographic survey of Logro-B tunnel outlet Portal
- Joint topographic survey of DUGAH Bridge KKH-01
- Joint topographic survey of DUGAH Bridge KKH-01
- Joint topographic survey of DUGAH Bridge KKH-01
- Joint topographic survey of DUGAH Bridge KKH-01
- Joint topographic survey of DUGAH Bridge KKH-01

**iv. Dasu-KKH-02: Survey Supervision Activities**

- Joint topographic Survey for IPC of KKH-02 main road Km 33+520 to Km 33+980
- Joint topographic Survey for IPC of KKH-02 main road Km 28+300 to Km 28+450
- Joint topographic Survey for IPC of access road RD 0+000 to RD 0+160 KKH-02 KM 36+160
- Joint topographic Survey for IPC KKH-02 Km 46+390 Rev-01 Access Road RD 0+000 to RD 0+192.87
- Joint topographic Survey for IPC KKH-02 Km 44+170 Access Road RD 0+000 to RD 0+103.82
- Joint Survey for shallow-hole blasting of KKH-02 main road Km 44+030 to Km 44+040
- Joint Survey for shallow-hole blasting of KKH-02 main road Km 28+300 to Km 28+370
- Joint Survey for shallow-hole blasting of KKH-02 main road Km 44+010 to Km 44+020
- Joint Survey for shallow-hole blasting of KKH-02 main road Km 33+520 to Km 33+450

- Joint Survey for shallow-hole and split blasting of KKH-02 main road Km 43+990 to Km 44+010
- Joint Survey for shallow-hole blasting of KKH-02 main road Km 33+760 to Km 33+790
- Joint Survey for rock classification KKH-02 main road Km 44+000 to Km 44+110 at LOOTER
- Joint topographic Survey for IPC of KKH-02 main road Km 36+000 to Km 36+480
- Demarcation of tunnel inlet and outlet KKH-02 at SHORI tunnel 2
- Joint Survey for shallow-hole blasting of KKH-02 main road Km 44+070 to Km 44+080
- Joint Survey for rock classification KKH-02 main road Km 45+640 to Km 46+610 at LOOTER
- Joint Survey for shallow-hole and split blasting of access road at RD 0+130 to RD 0+136 at KKH02
- Joint Survey for shallow-hole blasting of main road KKH-02 at Km 36+440 Km 36+460
- Joint Survey for shallow-hole blasting of main road KKH-02 at Km 28+250 Km 28+270
- Joint Survey for shallow-hole and split blasting of access road at RD 0+140 to RD 0+150 at KKH02
- Joint topographic Survey for IPC of KKH-02 main road Km 36+000 to Km 36+480
- Joint Survey for shallow-hole blasting of KKH-02 main road Km 36+870 to Km 36+890
- Joint Survey for shallow-hole blasting of KKH-02 main road Km 28+270 to Km 28+300
- Joint Survey for shallow-hole and split blasting main road RAR-02 at Km 13+640-Km 13+650
- Joint topographic Survey for IPC at KKH-02 K42+520 Access Road RD 0+000 to RD 0+182.46
- Joint Survey for shallow-hole blasting of KKH-02 main road Km 28+290 to Km 28+320
- Joint topographic Survey of additional area KKH02 Km 44+400 to Km 46+080
- Joint topographic Survey of additional area KKH02 Km 42+740 to Km 43+100
- Demarcation of ROW KKH-02 main road at KAIGAH nallah
- Joint Survey for shallow-hole and split blasting of KKH-02 main road Km 33+520 to Km 33+540
- Joint Survey for shallow-hole and split blasting of KKH-02 main road Km 44+030 to Km 44+010
- Joint topographic Survey for looter comp KKH-02 Km 37+340 to Km 37+660
- Joint topographic Survey of main road KKH-02 Km 38+380 to Km 38+840
- Joint Survey for shallow-hole blasting of main road KKH-02 at Km 28+290 to Km 28+310
- Joint topographic Survey of main road KKH-02 Km 39+340 to Km 39+680
- Demarcation of tunnel inlet and outlet KKH-02 at SHORI tunnel 2
- Demarcation of tunnel inlet and outlet KKH-02 at Km 46 tunnel
- Joint Survey for shallow-hole and split blasting of KKH-02 main road Km 33+840 to Km 33+870
- Demarcation of ROW KKH-02 main road at GADEER
- Joint Survey for shallow-hole and split blasting of access road (TR.04) at RAR-02 (DOGAH Right bank) (Km20+590) EL 825.0 - 823.0 EL 828.0 - 826.0
- Joint Survey for Rock Classification After Excavation of Access Road (TR-03) at RAR-02 SEERGAYAL
- Joint Survey for shallow-hole and split blasting of KKH-02 main road Km 42+450 to Km 44+470

**v. Project Colony Survey Supervision Activities:**

- Joint survey of 5th layer left side at switchyard area El: 963m ~ 960m
- Verification of as built survey for switchyard 5th layer slope excavation
- Joint formwork verification at penstock adit 2 plug area before pouring concrete
- Joint as built survey 4th layer left side at switchyard
- Verification of switchyard as built excavation quantity
- Joint topographic survey between DTA and DTB outlets for current situation
- Joint as built survey at switchyard 4th layer left side El: 960 to 957

- Joint survey before excavation at portal area adit Tunnel 3-2
- Jointly installation inspection of DTB guide frames below EL: 790.4 , Right slot
- Joint survey of excavation at left bank Traffic Tunnel outlet area
- Joint survey for Design confirmation for Cut of wall at Left bank starter Dam
- Joint formwork verification at Diversion Tunnel-B CH: 0+962 to 0+974 before concrete
- As built quantity verification of switchyard area
- As built quantity verification of switchyard area
- Formwork verification of guide walls of cutoff wall at starter dam CH: 0+114 to 0+124
- Topographic survey for proposed diversion tunnel at Right bank
- Joint verification of sill beam and steel plates at Diversion Tunnel A inlet
- Topographic survey and map preparation of UCHAAR NALLAH for MW01 design section
- As built quantity verification of switchyard area
- As built quantity verification of switchyard area
- Joint as built survey for trench at switchyard area
- Joint survey for calculation of shotcrete quantity of LD-7 permanent access road CH: 0+580 to 0+690
- Joint formwork verification of starter dam cutoff wall left bank CH: -0+004.3 to 0+002.7
- Verification of as built survey for ditch excavation at Power Intake Area
- Formwork verification of Cut off wall Left Bank starter dam Ch:-0+004.3 to 0+001.2
- Joint as built survey for the calculation of excavation quantity of current situation at Switchyard
- Verification of as built cross sections of Traffic Diversion Tunnel outlet El: 834m to 831m
- Verification of switchyard as built survey for quantity calculations
- Verification of survey control network at Traffic Diversion Tunnel
- Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+225 to 0+237
- Observed river water levels at Kass truss bridge
- Verification of survey control network at CT-2 Tunnel
- Joint as built survey at power intake ditch area
- Joint as built survey at power intake LU1
- Joint as built survey at power house cavern
- Joint survey for Diversion water separation dyke near DTA inlet
- Joint formwork verification of cutoff wall at Starter Dam before pouring concrete
- Joint formwork verification of cutoff wall at Starter Dam before pouring concrete
- Joint formwork survey at Diversion Tunnel-B CH: 0+974 to 0+986 before pouring concrete
- Joint form work survey at DTB inlet part#1 CH: 0+002.3 to 0+007 before pouring concrete
- Joint formwork survey at Diversion Tunnel-B CH: 1+017 to 1+060 before pouring concrete
- Joint survey for Design confirmation for Diversion water Dyke backfill between DTA & DTB
- Joint formwork verification for 1m invert concrete at Diversion Tunnel B CH: 1+010 to 1+022
- Joint survey for current situation of the CR-2 ceremonial platform of river closure
- Joint formwork verification for 1m invert concrete at Diversion Tunnel B CH: 0+998 to 1+012
- Joint survey for lean concrete at DTB CH 1+060 to 1+100
- Topographic survey at UCHAR for MW-01 Design section
- Joint formwork verification for 1m invert concrete at Diversion Tunnel B CH: 1+022 to 1+034
- Joint as built survey for ditch excavation at intake area EL: 986m to 990m
- As built survey of excavated ditch at khushi for Main works design section
- Joint formwork verification for 1m invert concrete at Diversion Tunnel B CH: 1+058 to 1+070
- Joint survey of cracked area at TGAT an ET junction area
- Observed river water levels at DTA inlet
- Joint as built survey for 5th layer Right center EL:950 to 942
- Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+393 to 0+405
- Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+525 to 0+537
- Joint convergence measurements at transformer cavern CH: 0+145 to 0+235
- Joint formwork verification at penstock adit tunnel 02 plug area
- Joint convergence measurements at transformer cavern CH: 0+145 to 0+235

- Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+933 to 0+945 R/S
- Joint layout of cutoff wall bottom at coffer dam
- Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+513 to 0+525
- Topographic survey at switchyard area
- Joint as built survey at right bank cable crane are
- Joint formwork verification of guide walls right bank starter dam
- Joint survey for lean concrete at Diversion Tunnel B CH: 1+020 to 1+060
- Joint survey for Guiding frame of DTB inlet Gate
- Joint survey for Guiding frame of DTB inlet Gate
- Demarcation survey points at tailrace area for main works -02
- Joint verification for Cut-off Wall at Right side Cofferd Dam
- Joint survey and Design confirmation of diversion Water Dyke back fill B/W DTA and DTB
- Joint verification for Cut-off Wall at Left side Cofferd Dam
- Joint survey for lean concrete at DTB CH: 1+060 to 1+100
- Joint formwork verification for 1m invert concrete at Diversion Tunnel B CH: 0+998 to 1+010
- Joint convergence measurement at Transformer Cavern CH: 0+145 to 0+235
- Data collection of bore hole location at Siglu for DHC Geology section
- Joint formwork verification of plug area at penstock adit 02
- Joint formwork verification for 1m invert concrete at Diversion Tunnel B CH: 1+046 to 1+058
- Joint formwork verification for 1m invert concrete at Diversion Tunnel B CH: 1+140 to 1+180
- Joint formwork verification for 1m invert concrete at Diversion Tunnel B CH: 1+046 to 1+058
- Joint as built survey for 5th layer Right Center at Switchyard area
- Guide walls Formwork verification at Starter Dam
- Guide walls Formwork verification at Starter Dam
- As built survey of existing KKH from Khushi to Chochang
- Joint formwork verification for 1m invert concrete at Diversion Tunnel ACH: 0+249 to 0+261
- Joint survey for invert foundation before lean concrete at DTB CH: 1+130 to 1+170
- Joint topographic survey at Siglu area for crushing plant
- Joint topographic survey at Siglu area for crushing plant
- Joint formwork verification at DTB for 1m invert concrete
- Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+489 to 0+501
- Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+909 to 0+921
- Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+237 to 0+249
- Joint survey for lean concrete at Diversion tunnel B CH: 0+980 to 1+017
- Joint survey and design confirmation for cut off Wall at Left bank up stream starter Dam
- Joint formwork verification for 1m invert concrete at Diversion Tunnel B CH: 0+986 to 0+998
- Joint formwork verification for 1m invert concrete at Diversion Tunnel B CH: 0+974 to 0+986
- Joint formwork verification for 1m invert concrete at Diversion Tunnel B CH: 1+034 to 1+046
- Daily Convergence measurement survey at Transformer Cavern CH: 0+145 to 0+235
- Daily Convergence measurement survey at Transformer Cavern CH: 0+145 to 0+235
- Daily Convergence measurement survey at Transformer Cavern CH: 0+145 to 0+235
- Joint as built survey for cable crane excavation Right bank
- Observed river water levels at Diversion tunnel A inlet
- Observed river water levels at Diversion tunnel A inlet
- Observed river water levels at Diversion tunnel A inlet
- Observed river water levels at Diversion tunnel A inlet

**vi. Revenue Survey Activity**

- Revenue Verification Survey at Shatyal

**d) Geology and Geotechnical Section Activities**

**i. Dasu-MW-01**

- **Traffic Diversion Tunnel**

Carried out subsurface geological mapping/data collected up to 0+857m.  
Geological mapping at portal area from elevation 834m to 831m.

- **Traffic Diversion Tunnel Outlet**  
Carried out subsurface geological mapping/data collected up to 0+002m
  - **Adit 3-2**  
Carried out subsurface geological mapping/data collected up to 0+046m.
  - **Additional Drilling on Right Bank Downstream Cofferdam by DID WAPDA**
  - **Proposed 04 borehole completed:**  
COR-1: Target depth 50m Completed.  
COR-2: Target depth 50m Completed.  
COR-3: Target depth 100m Completed.  
COR-4: Target depth 50m Completed.
  - **After completion of task the drilling rig and crew have demobilized from site.**
- ii. **Dasu-MW-02**
- **In-Situ Overcoring Test (GIST):**  
A meeting was held with CGGC & IVCC on 19<sup>th</sup> December, 2022 at DHC office regarding the in situ over coring test but no any documents have been submitted yet.
  - **Service Tunnel-B (ST-B)**  
Carried out subsurface geological mapping/data collected up to 0+122m.
  - **Connection Tunnel-02 (CT-02)**  
Carried out subsurface geological mapping/data collected up to 0+338m.
  - **Vault Gallery Tunnel-Left (VGT-L)**  
Geological mapping and collection of data from 0+062m to onward will continue after support works.
  - **Switchyard**  
Geological mapping of 5<sup>th</sup> layer center portion left side elevation 959m-951m.
- iii. **KKH-01**
- **Logro Tunnel-A (K9+159)**  
Carried out subsurface geological mapping/data collected up to K9+256.
  - **K-4 Tunnel (K4+621)**  
Carried out subsurface geological mapping/data collected up to K4+534.
- iv. **KKH-02**
- **Drilling/investigation for KKH-02 Tunnels by DID WAPDA**
  - **Shori Tunnel-2 (BH#48-1b) Inlet Target depth 50m:**  
Drilling progress is 50m, drilled from 0.00 to 50m. Net progress is 50m.  
Target length of 50m has been completed.  
Borehole terminated.
  - **Shori Tunnel-2 (BH#49-1) Outlet Target depth 50m:**  
Shifting of drilling rig and accessories to borehole location have been completed, preparation of water tank is in progress.
  - **K46 tunnel Doochba(BH#42-1) Inlet Target depth 50m:**  
Drilling progress is 13.0m, drilled from 0.00 to 13.0m.  
Net progress is 13m.
  - **K46 tunnel Doochba(BH#43-1) Outlet Target depth 50m:**  
Drilling progress is 2.0m, drilled from 0.00 to 2.0m.  
Net progress is 2m.
  - **Joint Inspection**  
Joint inspection of KKH-02 tunnels/road alignment up to Lachi Nallah with CGGC Engineers & RE KKH-02 for confirmation of portal inlet/outlet geological conditions.
  - **Rock Classification**  
Carried out Geological rock classification at K41+340 to K42+780, K45+640 to K46+610 & K41+340 to K42+780.
- v. **RAR-02**
- Carried out Geological rock classification from K32+655 to K33+645, K33+645 to K33+945 & K33+945 to K35+400.

### 3.4.12 Meetings

A list of meetings which were held during the month is shown in Appendix D.

### 3.4.13 Correspondence during the Reporting Period

A list of correspondence with WAPDA and the executing Contractors during the month is provided in Appendix E.

## 4 CONSTRUCTION ACTIVITIES

The following Contracts remained in progress during this month:

- Dasu-KKH-01
- Dasu-KKH-02
- Dasu-RAR-01
- Dasu-RAR-02
- Dasu-TL-01
- Dasu-MW-01
- Dasu-MW-02
- Dasu-LBRV-11
- Dasu-LBRV-12
- Dasu-PCI-01R
- Dasu RV
- Dasu EM-01

Overall Dasu HPP baseline schedule has been established based on the cost stated in PC-1 and schedule included in DHP-CSA 01 Amendment 4. Both physical and financial baseline S-Curves have been developed based on the overall baseline schedule as shown in Figures 6 and 7. Basic information of the baseline schedule is summarized in Table 4.1.

**Table 4.1: Basic information of Dasu HPP Overall Baseline Schedule Rev.2 (R2)**

Item No	Information in PC-1		Information of Baseline Schedule R3 <sup>1)</sup>					Remarks	
	Cost Items	Contract	Start	Finish	Duration	Cost <sup>2)</sup>	Weight by Cost <sup>3)</sup>		
			(DDMMYY)	(DDMMYY)	Days	M PKR	(%)		
I	I.1	Relocation of KKH	KKH-01	24-08-15	13-12-19	1,572	14,539	4.96%	EOT-3 in Progress.
			KKH-02	15-05-20	13-05-22	728	16,265	5.55%	
	I.2	132kV Transmission Line from Duber Khawar to DHP	TL-01	02-11-15	17-05-20	1,658	1,785	0.61%	EOT-4 in Progress.
	I.3	Internal Roads and Bridges	RAR-01 (Komila-Dam, 12km)	24-08-15	16-07-20	1,788	2,714	0.93%	EOT-4 in Progress.
			RAR-02 (Dam - Uttar Gah)	20-05-21	18-05-23	728	6,253	2.13%	In Progress
			RAR-03 (Uttar Gah-Tangir)	01-01-20	29-12-21	728	5,000	1.71%	
	I.4	Project Colony & Infrastructure	PCI-01R	20-05-19	17-05-21	728	4,900	1.67%	EOT-1 is under process.
			PCI-02	-	-	-	2,726	0.93%	
	I.5, I.7	Dam and Appurtenant Structures(1.5) HSS - Dam (1.7)	MW-01	23-06-17	10-05-26	3,243	115,003	39.25%	EOT-1 granted.
I.6, I.8	Underground Powerhouse Complex (1.6) HSS - Waterway and PH (1.8)	MW-02	23-06-17	18-06-26	3,282	64,426	21.99%	EOT-1 granted.	
I.9	Hydro-Mechanical & Electrical Equipment	EM-01	20-05-20	19-06-25	1,856	52,456	17.90%	Effective Date is 1st Feb 2021	
II	II.3	Resettlement Development Cost	LBRV-11	26-12-18	04-12-20	709	1,121	0.38%	EOT-2 in Progress.
			LBRV-12	26-12-18	07-12-20	712	1,017	0.35%	EOT-2 in Progress.
			Dasu-RV	18-06-19	15-12-20	546	655	0.22%	EOT-1 in Progress.
			Other RVs (only 1741.9 MPKR of II.3)	26-12-18	22-12-21	1,092	3,139	1.07%	
		Total				292,999	100%		

Scheduled overall progress of both physical and financial at the end of reporting month is summarized in the following Table:

**Table 4.2: Dasu HPP Overall Progress at the end of this Month**

Description	Physical Progress (%)	Financial Progress (%)
Scheduled <sup>1)</sup>	42.4	38.2
Actual	15.7	12.5

1) Based on Dasu HPP Overall Baseline Schedule Rev 2 (R2). The progress has been revised according to EoT-1 of MW-01 & MW-02. The Financial progress based on work done certified to date excluding advance payment.

2) S-Curves of Overall Physical and Financial Progress are shown in Figures-6 & 7 respectively

The Scheduled Progress mentioned in the table above is in accordance with the contract programs/ or revised contract programs based on the EoT's granted. The status of progress and the major activities of each contract undertaken during this month are described hereinafter.

#### 4.1 Dasu-KKH-01: Relocation of Karakoram Highway from KM 0+000 to KM 25+200

##### 4.1.1 General Contract Data of KKH-01

General Contract Data of this package is summarized in the following Table:

**Table 4.3: General Contract Data of DASU-KKH-01**

Item	Data
Contract Number	ICB No. DASU-KKH-01
Contract Name	Relocation of Karakoram Highway (KKH) RD 0+000 to RD 25+200
Contractor	China Civil Engineering Construction Corporation (CCECC)
Contract Agreement Signed	March 16, 2015
Commencement Date	Aug 24, 2015
Contract Price	PKR 14,538,852,307/-
Time of Completion	546 Days
Contract Completion Date	Feb 20, 2017
Extension of Time (EOT)	1026 days
Revised Completion Date as per EOT	December 13, 2019 (EOT-2)
Construction Supervision Consultant (CSC)	Dasu Hydropower Consultants

##### 4.1.2 Progress Status of KKH-01

The progress of DASU-KKH-01 during this month is summarized in the following Table:

**Table 4.4: Progress of KKH-01 this Month**

Package	Elapsed Time		Actual Work Progress Prior to this Month (%)	Work Progress during this Month		Work Progress up to this Month	
	Month	(%)		Scheduled (%)	Actual (%)	Scheduled (%)	Actual (%)
ICB No. DASU-KKH-01	88.3	170.9	32.5	-	0.12	100.0	32.6

- Gantt chart and S-Curves of DASU-KKH-01 based on EOT-2 are shown in Figure-8 & 9 respectively

##### 4.1.3 Major Activities of KKH-01

The major activities undertaken during this month were:

- **Limited Construction Activities in this month.**
- Slope protection works at Zero-point third bench continued and excavation activity at Third bench resumed and continued during the month.
- Excavation and primary support works of K-4 Tunnel outlet RD=K4+524 continued during the month and 92m length completed.
- Excavation and primary support works of Logro-A tunnel RD=K9+288 continued during the month and 105m length completed.
- Improvement works and excavation of Khushe Bypass Road started and continued during the month.
- Removal of flood material and recovery of buried equipments & machinery from Camp/workshop/plant areas in progress.
- Installation of serial arches at outlet let area of Logro-B during the month started and continued.
- Slope protection works of Dugah Tunnel out let area started and continued during the month.

##### 4.1.4 Location wise Current Status of KKH-01

The following Table provides information of section wise current status, current issues, possible further issues and action currently undertaken.

**Table 4.5: Location wise Status (KKH-01)**

No.	Section	Issue	Measures	Present Status and What Action to be Taken
1.	K16+000 to K20+600	Unfavorable Geological and Topographical conditions faced at KKH-01 from K17+100 to K17+600	Based on the Contractor's request with his letter ref.19-024, dated 16.02.2019, a geological study was made by DHC Expert.	Uchar-A Detail Design is submitted and waiting for additional Geological Investigation.
		Re-location of the Uchar Bridge. (Uchar Nallah).	Uchar Bridge Construction at new Location.	Removal of flood material from camp area.
		Stoppage of excavation at K20+500 due to additional land	Revised location of Barseen bridge is proposed.	Preparatory works and mobilization in progress.



No.	Section	Issue	Measures	Present Status and What Action to be Taken
		acquisition to remove the unstable rock slope. (Barseen to Uchar).		
2.	K20+600 to K24+710	Proposal of new bridge to avoid the passing in the unstable slope area of the Dugah Nullah. (Kaigah to Barseen)	The proposal of new bridge crossing Dugah Nullah has been prepared by DHC and the Bridge proposal option 2 was approved by the Employer.	Preparatory works and mobilization in progress.
		Sliding Area at Kaigah from K23+500 to K23+730	It was decided to bypass the sliding material area by Tunnel construction and passive slope protection measures will be taken.	Protection works at outlet portal area started during the month.

## 4.2 Dasu-KKH-02: Construction of relocated KKH -02 (K24 to K61)

### 4.2.1 General Contract Data of KKH-02

General Contract Data of this package is summarized in the following Table.

**Table 4.6: General Contract Data of Dasu-KKH-02**

Item	Data
Contract Number	ICB No. Dasu-KKH-02
Contract Name	Construction of Relocated KKH-02 (K24 to K61)
Contractor	China Gezhouba Group Co. Ltd. [CGGC]
Contract Agreement Signed	April 25, 2017
Commencement Date	May 15, 2022
Contract Price	PKR 16,264,917,100/-
Time of Completion	728 Days
Contract Completion Date	May 12, 2024
Extension of Time (EOT)	N/A
Revised Completion Date as per EOT	N/A
Construction Supervision Consultant (CSC)	Dasu Hydropower Consultants

- S-Curves of DASU-KKH-01 is shown in Figure-10

### 4.2.2 Progress Status of KKH-02

The progress of KKH-02 during this month is summarized in the following Table:

**Table 4.7: Progress of KKH-02 this Month**

Package	Elapsed Time		Actual Work Progress Prior to this Month (%)	Work Progress of this Month		Work Progress up to this Month	
	Month	(%)		Scheduled (%)	Actual (%)	Scheduled (%)	Actual (%)
ICB No. DASU-KKH-02	7.6	31.7	1.2	3.82	0.08	18.4	1.2

- The Contract has been commenced on 20<sup>th</sup> May 2021.

- S-Curves of DASU-KKH-01 is shown in Figure-10

### 4.2.3 Major Activities of KKH-02

The major construction activities undertaken during this month were:

- The Contractor has mobilized manpower and Equipment to the Kaigah Contractor's camp.
- The Contractor has started excavation of Main KKH-02 alignment at all access roads.
- The DID team from WAPDA has started the drilling work at tunnel portals.
- Drilling work for shori-1 tunnel's inlet is completed.

## 4.3 Dasu-RAR-01: Construction of Right Bank Access Road from Komila to Dam Site

### 4.3.1 General Contract Data of RAR-01

General Contract Data of this package is summarized in the following Table:

**Table 4.8: General Contract Data of DASU-RAR-01**

Item	Data
Contract Number	ICB No. DASU-RAR-01
Contract Name	Construction of Right Bank Access Road (Komila- Dam Site)
Contractor	China Civil Engineering Construction Corporation (CCECC)
Contract Agreement Signed	March 16, 2015
Commencement Date	Aug 24, 2015
Contract Price	PKR 2,713,972,595/-
Time of Completion	364 Days
Contract Completion Date	Aug 22, 2016
Extension of Time	1424 days
Revised Completion Date as per EOT	Jul 16, 2020 (EOT-3) Up to K9 only
Construction Supervision Consultant (CSC)	Dasu Hydropower Consultants

### 4.3.2 Progress Status of RAR-01

The progress of Dasu-RAR-01 during this month is summarized in the following Table:

**Table 4.9: Progress of RAR-01 this Month**

Package	Elapsed Time		Actual Work Progress Prior to this Month (%)	Work Progress during this Month		Work Progress up to this Month	
	Month	(%)		Scheduled (%)	Actual (%)	Scheduled (%)	Actual (%)
ICB No. DASU-RAR-01	88.3	150.3	98.2	-	0.15	100.0	98.4

- Gantt chart and S-Curves is based on EOT-2 are shown in Figure-11 & 12 respectively.

### 4.3.3 Major Activities of RAR-01

The major activities undertaken during this month were:

#### Construction Activities

- Excavation work, drilling and blasting work, boulder blasting etc. at middle and end portion of Komila bypass in progress.
- Excavation for road around K1+200, drilling and blasting around K1+500 and end section i.e. around K2+250 Komila Bypass in progress.
- Excavation for sub grade and preparation i.e. levelling etc. around K1+500 to K1+900 in progress.
- Drilling, blasting and excavation work for local access around K2+100 in progress.
- Embankment filling in Nullah for causeway around K1+350 in progress.
- Toe wall protection in nullah at K1+350 for rip rap in progress & completed.
- Stone masonry retaining walls around K0+160, K0+200 and K1+800 in progress.
- Stone masonry retaining wall around K1+100 in progress and completed.
- Stone masonry retaining wall around K1+462 to K1+480 in progress and completed.
- Backfilling behind completed retaining walls at different location in progress.
- Stone masonry breast wall around K0+450 in progress.
- Stone masonry retaining wall around K1+954 to K1+987 in progress.

#### NOTE:

- RAR-01 project, Asphalt work is completed on Jan 30, 2022.
- From K0 to K9 work completed and Taking over certificate issued to Contractor up to K9 on dated November 26, 2021 with effect from July 25, 2021.
- From K9 to end of project work completed and second (2<sup>nd</sup>) TOC-Taking over certificate issued to Contractor up to K12 on dated July 26, 2022 with effect from April 26, 2022.
- Combined Taking over Certificate for the original scope of works (RAR-01 Project) issued Aug 03, 2022.

## 4.4 Dasu-RAR-02: Construction of Right Bank Access Road (Dam Site to Uttar Gah)

### 4.4.1 General Contract Data of RAR-02

General Contract Data of this package is summarized in the following Table.

**Table 4.10: General Contract Data of Dasu-RAR-02**

Item	Data
Contract Number	ICB No. Dasu-RAR-02
Contract Name	Construction of Right Bank Access Road (Dam Site to Uttar Gah)
Contractor	China Gezhouba Group Co. Ltd. [CGGC]
Contract Agreement Signed	Jan 18, 2017
Commencement Date	May 20, 2021
Contract Price	PKR 6,253,407,194/-
Time of Completion	728 Days
Contract Completion Date	May 18, 2023
Extension of Time (EOT)	N/A
Revised Completion Date as per EOT	N/A
Construction Supervision Consultant (CSC)	Dasu Hydropower Consultants

### 4.4.2 Progress Status of RAR-02

The progress of RAR-02 during this month is summarized in the following Table:

**Table 4.11: Progress of RAR-02 this Month**

Package	Elapsed Time		Actual Work Progress Prior to this Month (%)	Work Progress of this Month		Work Progress up to this Month	
	Month	(%)		Scheduled (%)	Actual (%)	Scheduled (%)	Actual (%)
ICB No. DASU-RAR-02	19.6	82.0	1.2	4.99	0.01	86.1	1.2

- The Contract has been commenced on 20<sup>th</sup> May 2021.

- S-Curves of DASU-RAR-02 is shown in Figure-13

#### 4.4.3 Major Activities of RAR-02

The major construction activities undertaken during this month were:

- Excavation and blasting works are on-going from K13+200 to K13+700. Backfill with gabion work is on-going at K13+250.
- Excavation work is on-going from k32+600 to k33+00.

#### 4.5 DASU-TL-01: 132 kV Single Circuit Transmission Line and Grid Station from Switchyard Dubair Khwar to Proposed Grid Station Dasu

##### 4.5.1 General Contract Data of TL-01

General Contract Data of this package is summarized in the following Table:

**Table 4.12: General Contract Data of Dasu-TL-01**

Item	Data
Contract Number	ICB No. Dasu-TL-01
Contract Name	Procurement, Design, Supply, Installation, Testing and Commissioning of 132 KV Single Circuit Transmission Line and Grid Station (From 132 KV Switchyard Dubair Khwar to Proposed 132 KV Grid Station Dasu)
Contractor	Power Construction Corporation of China Ltd. (PCCC)
Contract Agreement Signed	April 24, 2015
Commencement Date	November 2, 2015
Contract Price	PKR 1,583,325,237 and US\$ 2,017,927
Time of Completion	230 days
Contract Completion Date	June 19, 2016
Extension of Time	1429 days
Revised Completion Date as per EOT	May 17, 2020 (EOT-3)
Construction Supervision Consultant (CSC)	Dasu Hydropower Consultants

##### 4.5.2 Progress Status of TL-01

The progress of DASU-TL-01 during this month is summarized in the following Table:

**Table 4.13: Progress of Dasu-TL-01 this Month**

Package	Elapsed Time		Actual Work Progress Prior to this Month (%)	Work Progress during this Month		Work Progress up to this Month	
	Month	(%)		Scheduled (%)	Actual (%)	Scheduled (%)	Actual (%)
ICB No. Dasu-TL-01	86.0	157.7	90.7	-	0.50	100.0	91.2

- Gantt chart and S-Curves of Dasu-TL-01 based on EOT-3 are shown in Figure 14 and Figure 15, respectively.

##### 4.5.3 Major Activities of TL-01

###### Activities carried during the month:

- Preparatory works for electrification of Control house building at Grid Station completed.
- Excavation/cutting of access road to Grid Station is in progress.
- Breast wall at Alignment-1 of access road is in progress.
- Foundation work for Gantries at Grid Station is in progress.
- Fencing work of switchyard is in progress.

###### Overall completed activities:

Tower wise Status of each tower is shown in the table below

**Table 4.14: Tower Wise Status of Line Work**

S.no	Tower	Type	Excavation	Grounding	Concrete	Backfilling	Errection	Stringing	Remarks
1	NTDC-1	JKD	Not started	Not started	Not started	Not started	Not started	Not started	The NTDC's Contractor could not drill for pile foundation of tower NTDC-1 and left the site.
2	NTDC-2	JKD	Completed	Completed	Completed	Completed	Completed	Not started	
3	NTDC-3	JKD	Completed	Completed	Completed	Completed	Completed	Not started	
4	NTDC-4	JKD	Completed	Completed	Completed	Completed	Completed	Not started	
5	NTDC-5	JKD	Completed	Completed	Completed	Completed	Completed	Not started	
6	NTDC-6	JKD	Completed	Completed	Completed	Completed	Completed	Not started	

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S.no	Tower	Type	Excavation	Grounding	Concrete	Backfilling	Errection	Stringing	Remarks
								Not started	The Employer instructed the Contractor to carryout the design work for JKD towers. However, the Contractor mobilized his team for subsoil investigation but the landowners stopped the work.
7	T-37	JKD	Not started	Not started	Not started	Not started	Not started	Not started	
8	T-38	JKD	Not started	Not started	Not started	Not started	Not started	Not started	
9	T-39	JKD	Not started	Not started	Not started	Not started	Not started	Not started	
10	T-40	JKD	Not started	Not started	Not started	Not started	Not started	Not started	
11	T-41	JKD	Not started	Not started	Not started	Not started	Not started	Not started	
12	T-42	JKD	Not started	Not started	Not started	Not started	Not started	Not started	
13	T-43B	ZM-60 Modify	Completed	Completed	Completed	Completed	Completed	Not started	
14	T-44B	ZM-60 Modify	Completed	Completed	Completed	Completed	Completed	Not started	
15	T-45A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
16	T-46A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
17	T-47A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
18	T-48A	ZM-60 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
19	T-49A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
20	T-50A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
21	T-51A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
22	T-52	ZM-60 Modify	Completed	Completed	Completed	Completed	Completed	Not started	
23	T-53	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Completed	
24	T-54	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
25	T-55A	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Completed	
26	T-56A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
27	T-57A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
28	T-58A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
29	T-60A	ZM-60 Modify	Completed	Completed	Completed	Completed	Completed	Not started	
30	T-61A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
31	T-62A	ZM-60 Standard	Completed	Completed	Completed	Completed	Completed	Completed	

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S.no	Tower	Type	Excavation	Grounding	Concrete	Backfilling	Errection	Stringing	Remarks
32	T-63A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		Work has been stopped by local committee of Pattan and Palas. (T-43B ~ T-143A)
								Completed	
33	T-64A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
								Completed	
34	T-65A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
								Not started	
35	T-66A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
								Not started	
36	T-67A	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Completed	
								Completed	
37	T-67M	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
								Completed	
38	T-68A	ZM-60 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
								Completed	
39	T-68M	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
								Completed	
40	T-69A	ZM-60 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
								Completed	
41	T-70A	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Not started	
								Not started	
42	T-71A	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Not started	
								Not started	
43	T-71M	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
								Not started	
44	T-72A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
								Not started	
45	T-73A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
								Not started	
46	T-74A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
								Not started	
47	T-75A	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Not started	
								Not started	
48	T-76A	ZM-60 Modify	Completed	Completed	Completed	Completed	Completed	Not started	
								Not started	
49	T-77A	ZM-60 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
								Not started	
50	T-78A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
								Not started	
51	T-79A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
								Not started	
52	T-79M	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
								Not started	
53	T-80A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
								Not started	
54	T-80M	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
								Not started	
55	T-81A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
								Not started	
56	T-81M	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
								Not started	
57	T-82A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	

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S.no	Tower	Type	Excavation	Grounding	Concrete	Backfilling	Errection	Stringing	Remarks
								Not started	
58	T-82M	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
59	T-83A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
60	T-83M	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
61	T-84A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
62	T-85A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
63	T-86	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
64	T-87	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
65	T-88A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
66	T-89A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
67	T-90	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
68	T-91A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
69	T-92A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
70	T-93A	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Not started	
71	T-95A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
72	T-96	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
73	T-97A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
74	T-98	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
75	T-101A	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Not started	
76	T-102A	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Not started	
77	T-103A	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Not started	
78	T-104A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
79	T-105	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
80	T-106	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
81	T-107	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Not started	
82	T-108	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Not started	

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S.no	Tower	Type	Excavation	Grounding	Concrete	Backfilling	Errection	Stringing	Remarks
83	T-109A	ED-24	Completed	Not started	Not started	Not started	Not started		Work has been stopped by local committee of Pattan and Palas. (T-43B ~ T-143A)
								Not started	
84	T-110A	EG-24	Completed	Not started	Not started	Not started	Not started		
								Not started	
85	T-111A	ED-24	Completed	Not started	Not started	Not started	Not started		
								Not started	
86	T-113B	EG-24	Not started	Not started	Not started	Not started	Not started		
								Not started	
87	T-115A	ZM-60 Modify	Completed	Completed	Completed	Completed	Completed		
								Not started	
88	T-115M	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Not started	
89	T-116A	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed		
								Not started	
90	T-119A	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed		
								Not started	
91	T-120	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Not started	
92	T-121A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Not started	
93	T-122A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Not started	
94	T-123A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Not started	
95	T-124A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Not started	
96	T-125A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Not started	
97	T-126B	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Not started	
98	T-127B	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Not started	
99	T-128B	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Not started	
100	T-129A	ED-24	Completed	Not started	Completed	Completed	Not started		Work has been stopped by local committee of Pattan and Palas. (T-43B ~ T-143A)
								Not started	
101	T-130A	ED-26	Completed	Not started	Not started	Not started	Not started		
								Not started	
102	T-131B	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Not started	
103	T-132B	ZM-60 Modify	Completed	Completed	Completed	Completed	Completed		
								Not started	
104	T-133A	ZM-60 Modify	Completed	Completed	Completed	Completed	Completed		
								Not started	
105	T-134A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Not started	
106	T-135A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Not started	
107	T-136A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Not started	
108	T-137	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		

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S.no	Tower	Type	Excavation	Grounding	Concrete	Backfilling	Errection	Stringing	Remarks
								Not started	
109	T-138B	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
110	T-139A	ZM-30 Standard	Completed	Value is above 10 ohm	Completed	Completed	Completed	Not started	
111	T-140	ZM-30 Modify	Completed	Value is above 10 ohm	Completed	Completed	Completed	Not started	
112	T-141A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
113	T-142B	ZM-60 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
114	T-143A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
115	T-144A	ZM-60 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
116	T-145B	ZM-60 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
117	T-146A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
118	T-147B	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
119	T-148A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
120	T-149A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
121	T-150A	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Not started	
122	T-152	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Not started	
123	T-153A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
124	T-154A	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Not started	
125	T-155B	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
126	T-156B	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
127	T-157A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
128	T-158B	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
129	T-159A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
130	T-160A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
131	T-161B	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
132	T-162A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
133	T-163A	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Completed	



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S.no	Tower	Type	Excavation	Grounding	Concrete	Backfilling	Errection	Stringing	Remarks
134	T-164B	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed		
								Completed	
135	T-165A	ZM-60 Standard	Completed	Completed	Completed	Completed	Completed		
								Completed	
136	T-166A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Completed	
137	T-167A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Completed	
138	T-168B	ZM-60 Standard	Completed	Completed	Completed	Completed	Completed		
								Completed	
139	T-169B	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Completed	
140	T-170B	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Completed	
141	T-171A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Completed	
142	T-172	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Not started	
143	T-173A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Not started	
144	T-174	ZM-60 Standard	Completed	Completed	Completed	Completed	Completed		
								Not started	
145	T-175A	ZM-60 Standard	Completed	Completed	Completed	Completed	Completed		
								Completed	
146	T-176A	ZM-60 Standard	Completed	Completed	Completed	Completed	Completed		
								Completed	
147	T-177B	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Completed	
148	T-178A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Completed	
149	T-179B	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Completed	
150	T-180A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Completed	
151	T-181A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Completed	
152	T-181M	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Completed	
153	T-182	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Completed	
154	T-183	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Completed	
155	T-184	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Not started	
156	T-185	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
								Not started	
157	T-186	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed		
								Not started	
158	T-188A	ZM-60 Modify	Completed	Completed	Completed	Completed	Completed		
								Completed	
159	T-189A	ZM-60 Standard	Completed	Completed	Completed	Completed	Completed		

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S.no	Tower	Type	Excavation	Grounding	Concrete	Backfilling	Errection	Stringing	Remarks
								Completed	
160	T-190B	ZM-60 Modify	Completed	Completed	Completed	Completed	Completed	Completed	
161	T-191B	ZM-60 Modify	Completed	Completed	Completed	Completed	Completed	Completed	
162	T-192A	ZM-60 Modify	Completed	Value is above 10 ohm	Completed	Completed	Completed	Not started	
163	T-193A	ZM-30 Standard	Completed	Completed	Completed	Completed	Not started	Not started	
164	T-193M	ZM-30 Standard	Completed	Completed	Completed	Completed	Not started	Not started	
165	T-194A	ZM-30 Standard	Completed	Completed	Completed	Completed	Not started	Not started	
166	T-194M	ZM-60 Standard	Completed	Completed	Completed	Completed	Not started	Not started	
167	T-195A	ZM-30 Standard	Completed	Completed	Completed	Completed	Not started	Not started	
168	T-196A	ZM-30 Standard	Completed	Completed	Completed	Completed	Not started	Not started	
169	T-197A	ZM-60 Standard	Completed	Value is above 10 ohm	Completed	Completed	Not started	Not started	
170	T-198A	ZM-30 Modify	Completed	Value is above 10 ohm	Completed	Completed	Not started	Not started	
171	T-199A	ZM-30 Standard	Completed	Completed	Completed	Completed	Not started	Not started	
172	T-200A	ZM-60 Standard	Completed	Completed	Completed	Completed	Not started	Not started	
173	T-201A	ZM-30 Modify	Completed	Completed	Completed	Completed	Not started	Not started	
174	T-202A	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Not started	
175	T-203A	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Completed	
176	T-204A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
177	T-204M	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
178	T-205A	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Completed	
179	T-206A	ZM-60 Modify	Completed	Completed	Completed	Completed	Completed	Completed	
180	T-207A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
181	T-208A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
182	T-209A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
183	T-210A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
184	T-211A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	

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S.no	Tower	Type	Excavation	Grounding	Concrete	Backfilling	Errection	Stringing	Remarks
185	T-212A	ZM-30 Standard	Completed	Value is above 10 ohm	Completed	Completed	Completed	Completed	

The Major Construction Activities undertaken during this month are summarized in the following table:

**Table 4.15: Overall Summary of Major Activities of Transmission Line**

No.	Description	Already Completed upto Previous Month	Completed in this Month	In Progress	Completed up to this Month	Remarks
1	2	3	4	5	6=3+4	7
<b>A Transmission Line</b>						
1	Excavation/Cutting of tower foundation	172	0	0	172	
2	Concrete of tower foundation	168	0	0	168	
3	Backfill of tower foundation	168	0	0	168	
4	Tower Erection	156	0	0	156	
5	Stringing (Spans)	59	0	0	59	
<b>B Grid Station</b>						
1	Foundation concrete of switch gear in Grid Station is in progress.					

**Table 4.16: Area wise Summary of Major Activities of Line Work**

Area	Total Towers	Change Proposal	Excavation Complete	Foundation Concrete Complete	Backfilling Completed	Erection Completed
Palas	10	0	10	10	10	10
Pattan	98	6	91	87	87	86
Sheikh Band	23	0	23	23	23	23
Jhalkot	20	0	20	20	20	20
Teyal Maidan	28	0	28	28	28	17
<b>Total</b>	<b>179</b>	<b>6</b>	<b>172</b>	<b>168</b>	<b>168</b>	<b>156</b>

Materials currently stored on site are summarized in the following table:

**Table 4.17 Materials on Site**

No.	Items	Qty.
1	Tower Bodies (Nos)	23
2	Lynx conductor (km)	105
3	110-volt battery charger (Nos)	2
4	11kv switchgear panels (Nos)	15
5	CT/CV/CB ISO (Nos)	20
6	Surge arestors (Nos)	15
7	Grounding conductor for G.S (km)	2.2
8	Rail conductor (km)	12.8
9	Shield wire (km)	38
10	Transmission line and G.S Hardware	Completed (except JKD Towers)
11	Telecom. Equipment	Completed as required.
12	Disc insulators + Post Insulators	12640 + 6
13	Control & Relay panels	6
14	Gantry material of G.S	Beams 3Nos and Columns 5Nos

#### 4.5.4 Location wise Current Status of TL-01

The following Table provides information of section wise current status, current issues, possible further issues and action currently undertaken.

**Table 4.18 Location wise Status (TL-01)**

Sr. No.	Section/ Location	Work completed	Current Status	Current Issues	Possible Further Issues	Action Currently undertaken
1	T37, T38, T39, T40, T41, T42. T109A, T110B, T113B, T129A, T130A, T-200A & T-201A. T173A to T175A & T184 to T186.			The Employer instructed the Contractor to carryout the design work for JKD towers (T-37 to T-42). However, the Contractor mobilized his team for subsoil investigation on the said towers but the landowners stopped the work. The Landowner has stopped the work at T-109A and T-110B demanding tree compensation for T-109A. The landowner wants to carry out the construction activities of T-113B by themselves but demanding high price for foundation work. The Landowner has stopped erection work on T-129A and claiming that he has balance payment which was agreed by Employer's representative in respect of preparing place for material storage at tower location. The Landowner has stopped the work on T-130A and demanding tree compensation amount. The Land owner of T-200A and T-201A stopped erection work demanding for compensation of repairing the drain below these towers which was damaged during foundation work. The Landowners have		The Project Manager requested the Employer to resolve the issue in Weekly Progress Meetings and by letter as well.

Sr. No.	Section/ Location	Work completed	Current Status	Current Issues	Possible Further Issues	Action Currently undertaken
				stopped stringing activity from T-173A to T-175A & T-184 to T-186 demanding for amount of tree compensation. Work have been stopped by local committee of Pattan & Palas. (T-43B ~ T-143A)		

#### 4.6 DASU-MW-01: Main Hydraulic Structure, Spillway, Low Level Outlets, River Diversions and Hydraulic Steel Structures

##### 4.6.1 General Contract Data of MW-01

General Contract Data of this package is summarized in the following Table:

**Table 4.19: General Contract Data of Dasu-MW-01**

Item	Data
Contract Number	ICB No. Dasu-MW-01
Contract Name	Main Hydraulic Structure, Spill Way, Low Level Outlets, River Diversions and Hydraulic Steel Structures
Contractor	China Gezhouba Group Co. Ltd (CGGC)
Contract Agreement Signed	March 08, 2017
Commencement Date	June 23, 2017
Contract Price	PKR 115,003,461,240/-
Time of Completion	2039 days
Contract Completion Date	Jan 22, 2023
Construction Supervision Consultant (CSC)	Dasu Hydropower Consultants

##### 4.6.2 Progress Status of MW-01

The progress of MW-01 during this month is summarized in the following Table:

**Table 4.20: Progress of Dasu-MW-01 this Month**

Package	Elapsed Time		Actual Work Progress Prior to this Month (%)	Work Progress during this Month		Work Progress up to this Month	
	Month	(%)		Scheduled (%)	Actual (%)	Scheduled (%)	Actual (%)
ICB No. Dasu-MW-01	66.3	58.7	19.1	1.81	0.80	35.8	19.9

- Gantt chart and S-Curves of Dasu-MW-01 shown in Figure 16 and Figure 17

##### 4.6.3 Major Activities of MW-01

Major construction activities and progress are summarized below:

###### 4.6.3.1 Preparatory Works

###### (1) Contractor's Camp

The construction of Kass Main Camp is in progress. The status of construction is as follows.

- Ground leveling for the Contractor's main camp-65%
- Building foundation of the prefabricated house- 73%
- Prefabricated house hoisting- 95%
- Chinese Canteen- 70%
- Stone Masonry for Retaining Wall-53%
- Installation of precast fence- 70%

###### (2) 1# Batching Plant and 1# Crushing Plant at Uchar Area

- Stone Masonry for retaining wall- 96%
- Aggregate Storage- 60%
- Power Plant Ground Levelling-100%
- Power Plant Foundation- 100%
- Fencing Wall- 0%

###### (3) Aggregate Storage at CR9 Area

- Construction of aggregate storage in CR9 area completed on December 26<sup>th</sup>, 2021.

###### 4.6.3.2 Diversion Tunnel

###### (1) Excavation of Diversion and Adit Tunnels

###### i) Adit Tunnels

- Adit Tunnel 3-2 started on December 5, 2022 and progressed 39/ 223m (17%) till end of December, 2022.

###### ii) Diversion Tunnels

###### ➤ Open Excavation of Inlet Structure

###### Diversion Tunnel A

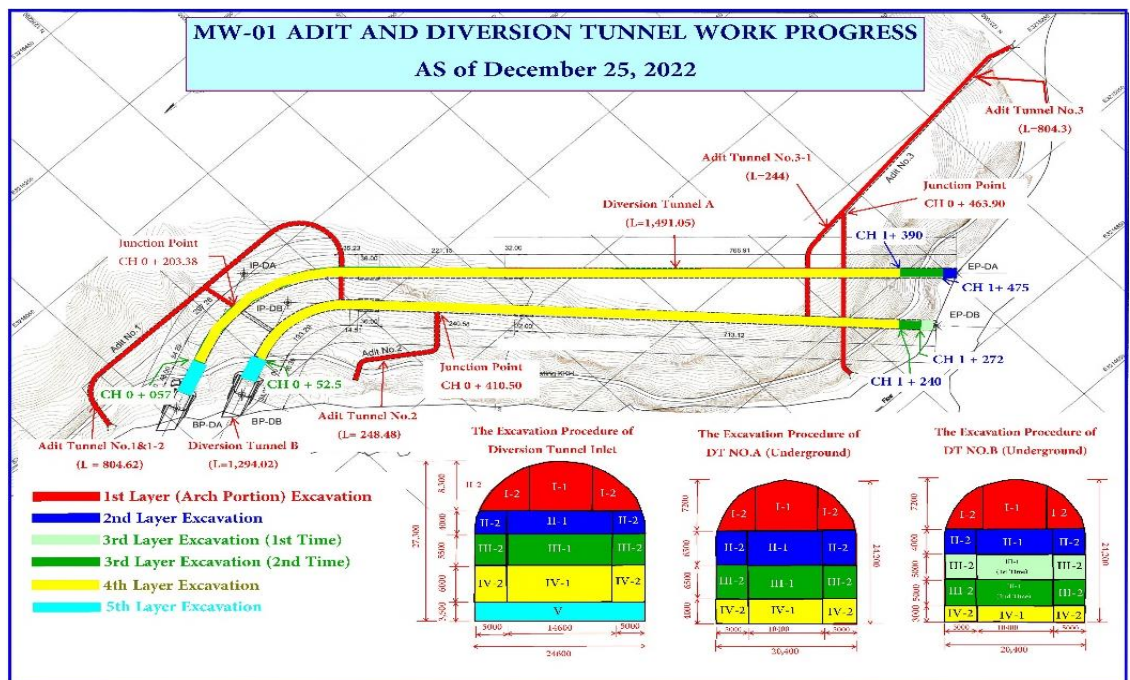
43,620/43,620m<sup>3</sup> (100%) open excavation completed at the end of December 2020.

**Diversion Tunnel B**

41,395/41,395m<sup>3</sup> (100%) open excavation completed at the end of December 2020.

➤ **Underground Excavation of Diversion Tunnel**

Overall progress underground excavation of Diversion Tunnel is shown in figure below.



**Diversion Tunnel A**

Progress of the underground excavation of Diversion Tunnel A is summarized in the table below.

DIVERSION TUNNEL A (EXCAVATION PROGRESS)			
Layer No.	Total Length (m)	Completed Length (m)	%age Complete
1 <sup>st</sup>	1,491	1,491	100
2 <sup>nd</sup>	1,491	1,491	100
3 <sup>rd</sup>	1,491	1,445	97
4 <sup>th</sup>	1,491	1,445	97
5 <sup>th</sup>	55	55	100

- The underground excavation of upper section (1<sup>st</sup> layer) is completed and breakthrough was done on 23<sup>rd</sup> September, 2020 at CH.0+995.
- The second bench excavation commenced on April 16, 2020 and completed till end of the June, 2021. The excavated length is **1,491m/1,491m (100%)**.
- The third bench excavation commenced on June 27, 2020. It is progressed from inlet side from 0+000~ 1+475(1475m). The Excavated Length is **1,475m/1,491m (99%)**.
- The fourth bench excavation commenced on October 16, 2020. It is also progressed from Adit Tunnel No.3 progress 1+445. The excavated length is **1,445m/1,491m (97%)**.
- The 5<sup>th</sup> layer for inlet section was started on December 08, 2020 and completed Ch. 0+061 till end of March, 2021.
- Overall Excavation volume progress for DT.A at the end of December is **747,942m<sup>3</sup>/760,000m<sup>3</sup> (98.41%)**.

**Diversion Tunnel B**

Progress of the underground excavation of Diversion Tunnel B is summarized in the table below.

DIVERSION TUNNEL B (EXCAVATION PROGRESS)			
Layer No.	Total Length (m)	Completed Length (m)	%age Complete
1 <sup>st</sup>	1,294	1,294	100
2 <sup>nd</sup>	1,294	1,294	100
3 <sup>rd</sup> (Part-1)	1,294	1,294	100
3 <sup>rd</sup> (Part-2)	1,294	1,272	98
4 <sup>th</sup>	1,294	1,253	97
5 <sup>th</sup>	52.50	52.50	100

- The top bench excavation broke through on August 23, 2020. Enlargement at the outlet part is remaining for less than 10 m. Open excavation and support work of the outlet in progress.
- On December 17<sup>th</sup>, geological shear zone was encountered at CH.0+318 and tunnel support “Type II-6 (with lining concrete)” was applied. This supporting type continued till Ch.0+290 after that rock condition improved & support type changed to Type II-5.
- The second bench excavation was started on July 01, 2020. It is completed by end of June, 2021. The excavated length is **1,294m /1,294m (100%)**.
- The third bench (1<sup>st</sup> time) excavation was started on July 03, 2020. It is progressed from inlet side (till Ch. 0+350) and from Adit Tunnel No.3 (Ch. 0+350~1+294). The excavated length is **1,294m/1,294m (100%)**.
- The 3<sup>rd</sup> bench (2<sup>nd</sup> time) excavation was commenced on November 02, 2020. It is progressed from the inlet side (till Ch. 0+365) and from Adit Tunnel No.3 (Ch. 0+365~1+272). The excavated length is **1,272m/1,294m (98%)**.
- The 4<sup>th</sup> bench excavation was progressed from Adit Tunnel No.3 Ch. 1+253 (1253m). The excavated length is **1,253m/1,294m (97%)**.
- The 5<sup>th</sup> layer for inlet section was started on December 02, 2020 and completed on December 30, 2020.
- Overall Excavation progress for DT.B at the end of December is **663,529m<sup>3</sup>/ 670,000m<sup>3</sup> (99%)**.
- Excavation work for debris removal outside of DT-A & DT-B (outlet) river side remained continued during the month of December, 2022.

## **(2) Concrete Work of Diversion and Adit Tunnels**

### **Diversion Tunnel A**

#### **1) Inlet Structure Works (Outside)**

- 11,530m<sup>3</sup> / 21,515m<sup>3</sup> (54%) completed till end of December, 2022.

#### **2) Inlet Lining Works (Inside)**

- **Concrete Works:** 7,543m<sup>3</sup> / 10,873m<sup>3</sup> (69%) completed till end of December 2022.

#### **3) Invert Levelling Concrete (C20)**

- L/S- 1,183m / 1,524m (78%)
- R/S- 1,203m/1,524m (79%)

#### **4) Invert Structural Concrete (A25)**

- L/S- 612m / 1,434m (43%)
- R/S- 912m/1,434m (64%)

#### **5) Outlet Structure Works**

- **Concrete Works:** 1926m<sup>3</sup> / 1926m<sup>3</sup> (100%) completed on June 2<sup>nd</sup>, 2022.

### **Diversion Tunnel No. B**

#### **1) Inlet Structure Works (Outside)**

- 17,941m<sup>3</sup>/ 21,600m<sup>3</sup> (83%) completed till end of December, 2022.

#### **2) Inlet Lining Works (Inside)**

- 10,054m<sup>3</sup> / 10,054m<sup>3</sup> (100%) completed on 21<sup>st</sup> December, 2022.

#### **3) Shear Zone Area**

- **Concrete Works:** 9,004m<sup>3</sup> / 9,004m<sup>3</sup> (100%) completed on 16<sup>th</sup> December, 2022.

#### **4) Invert Levelling Concrete (C20)**

- L/S- 1,173m / 1,327m (88%)
- R/S- 1,213m/1,327m (91%)

#### **5) Invert Structural Concrete (A25)**

- L/S- 993m / 1,181.52m (79%)
- R/S- 957.50m/1,181.52m (81%)

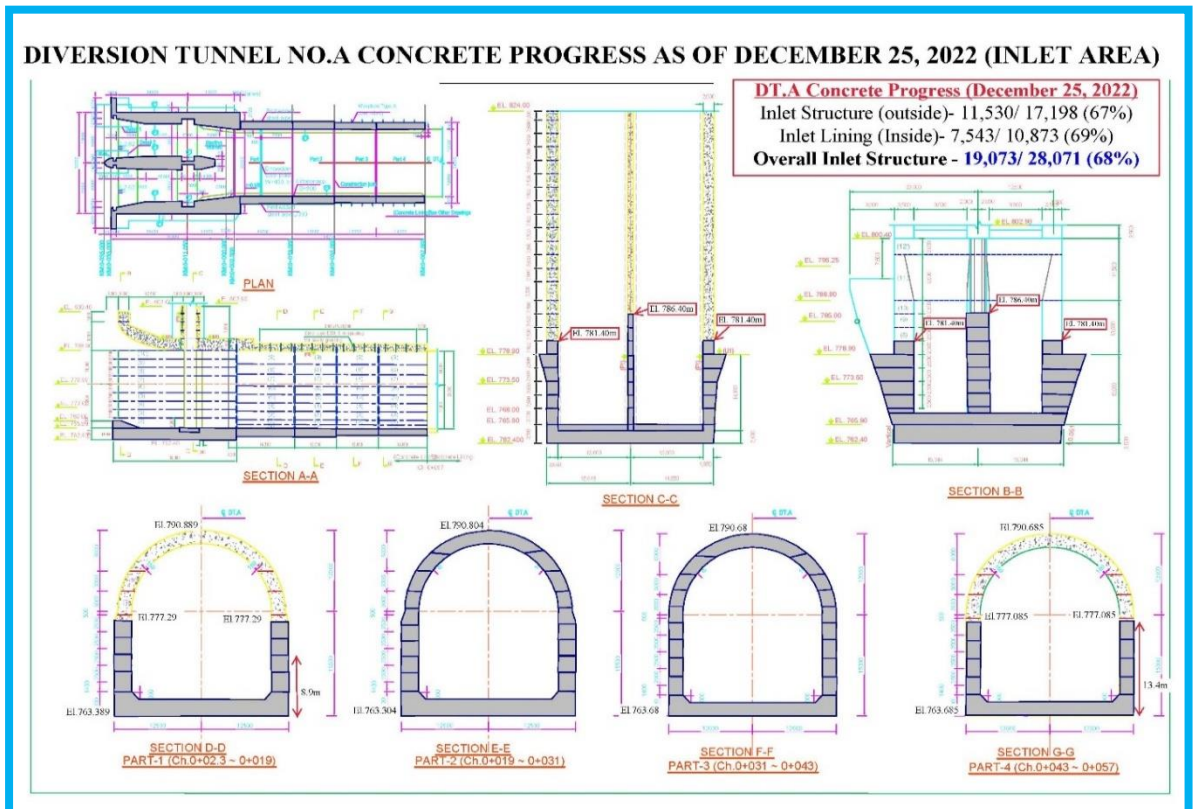
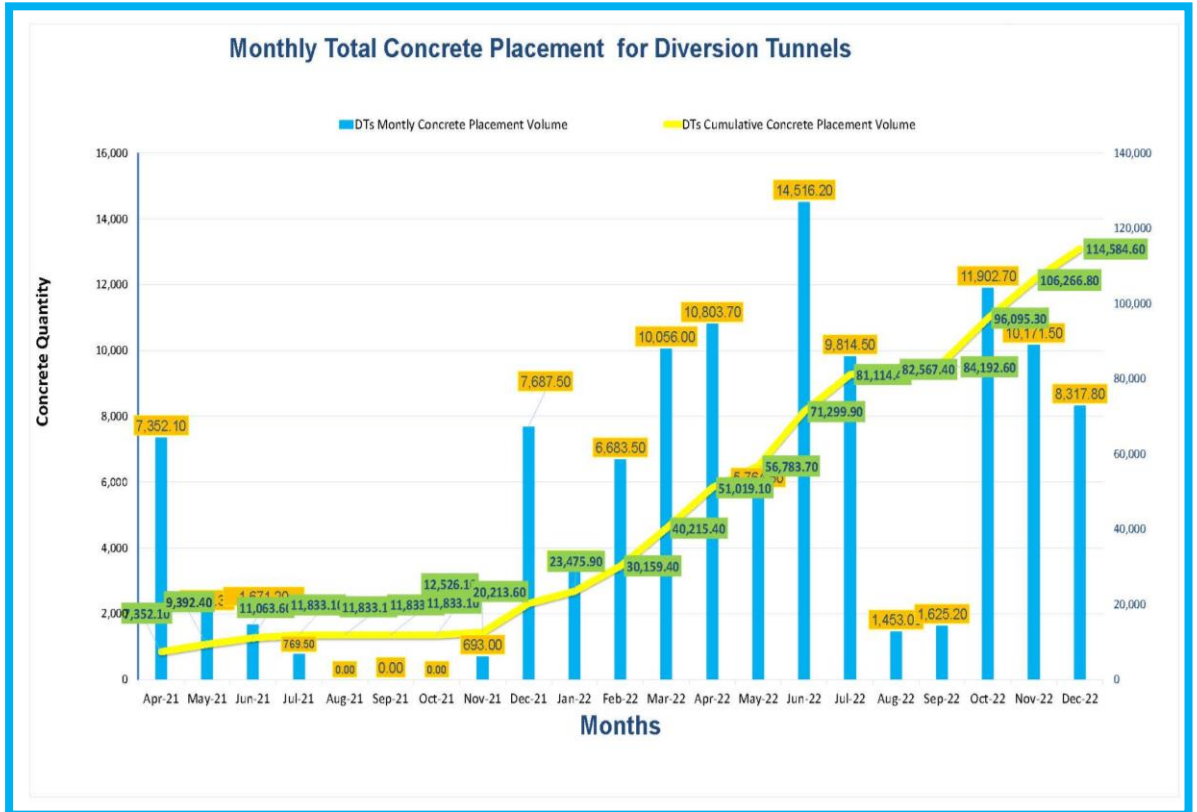
**6) Outlet Structure Works**

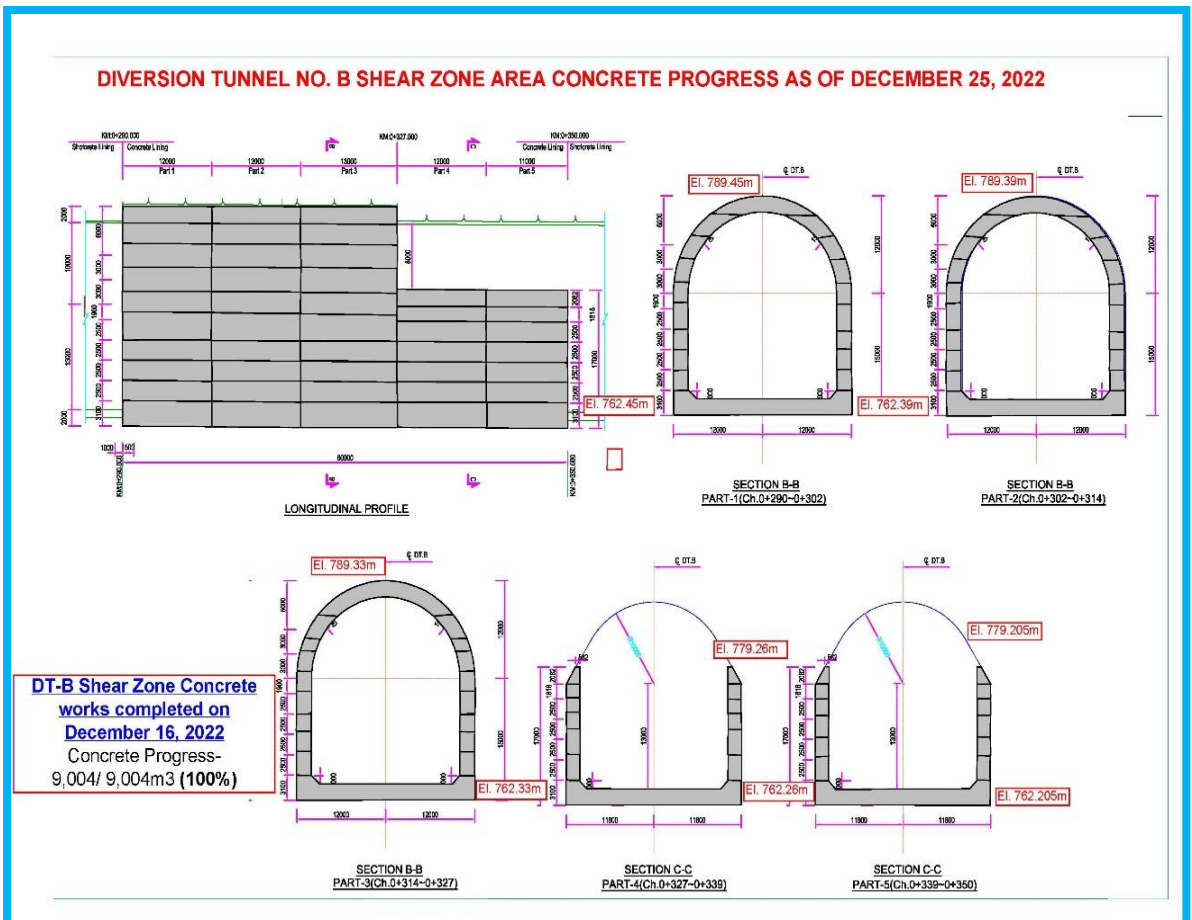
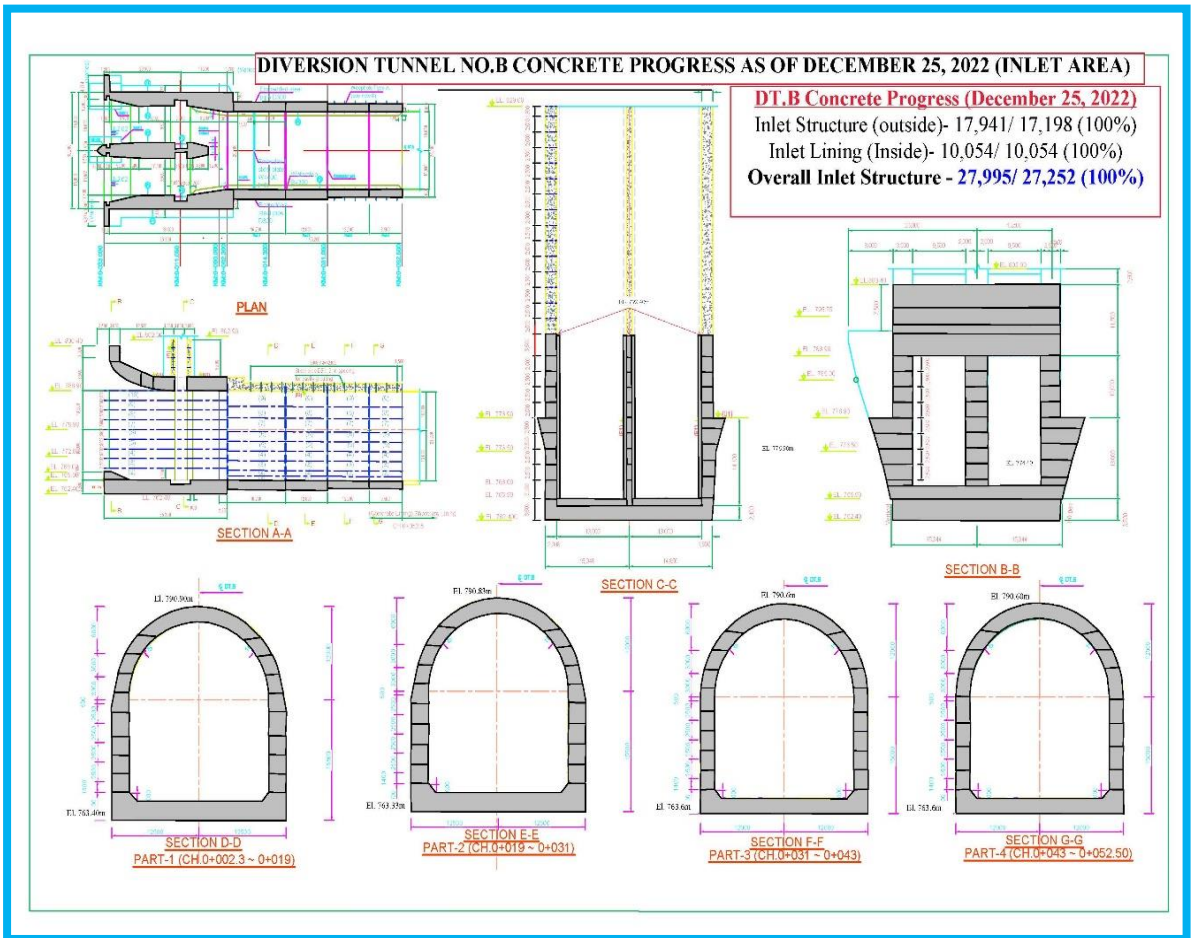
- **Concrete Works:** 1829.20m<sup>3</sup>/ 1829.20m<sup>3</sup> (100%) completed on May 9<sup>th</sup>, 2022.

**7) Adit Plug Concrete**

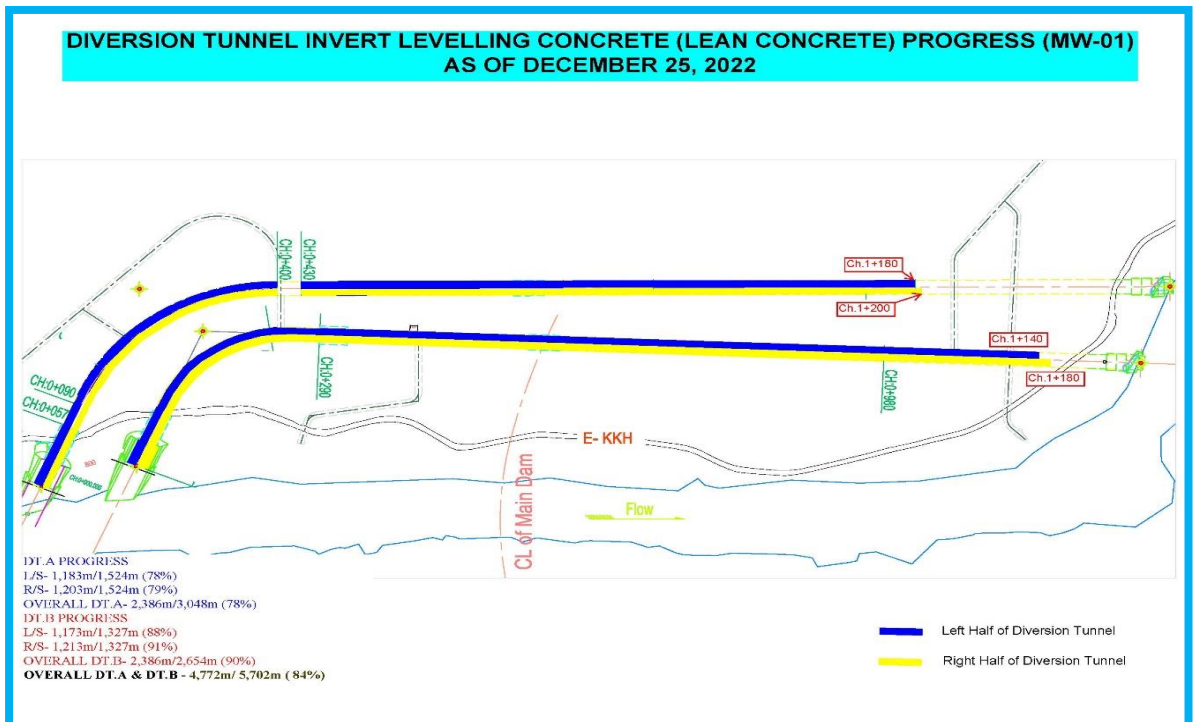
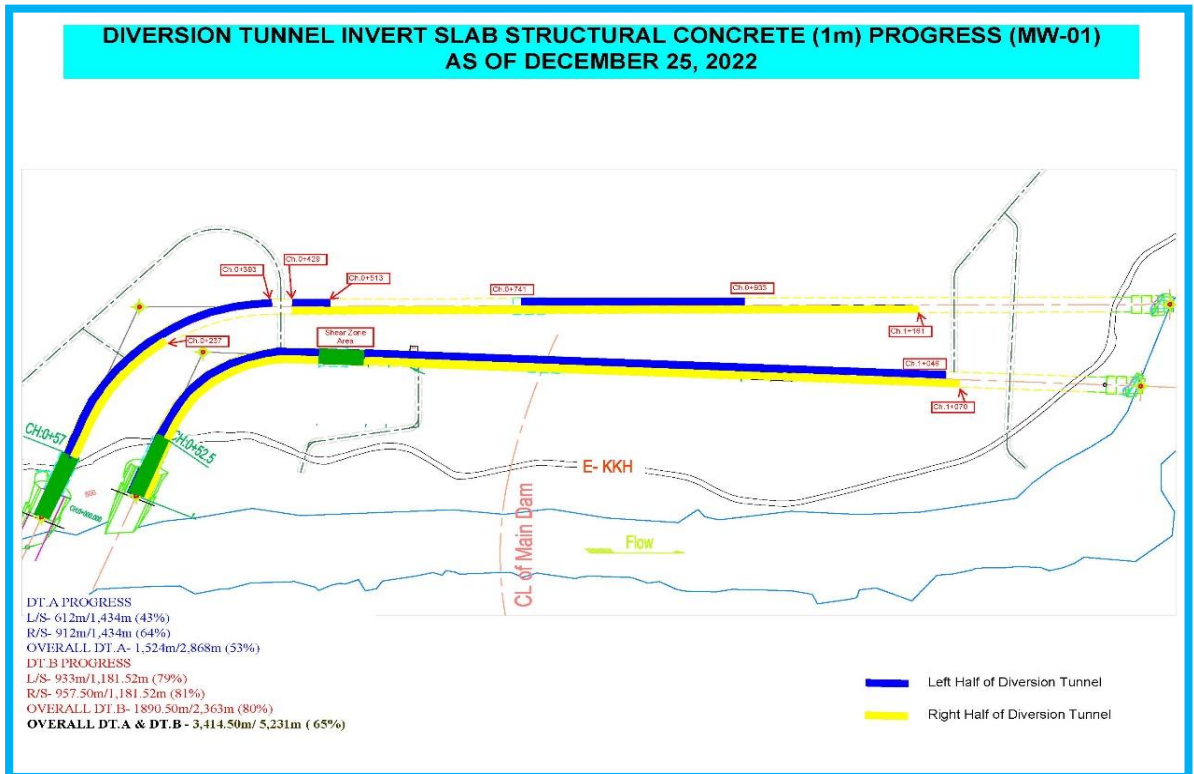
- **Concrete Works:** 374m<sup>3</sup>/ 1647m<sup>3</sup> (21%) completed till end of December, 2022.

Progress of inlet structure concrete, concrete lining for shear zone and invert concrete are shown in figures below.









**(3) Inlet dyke**

- Concrete: completed on July 4, 2019.
- Permeability test around the inlet dyke started on January 29, 2020.
- Concrete Pouring for remaining Inlet Dyke completed during the month of May, 2022.
- Some Part of Inlet Dyke in front of Diversion Tunnel No. A was removed for making platform for the Construction of Inlet Structure Slab.

**(4) Diversion Tunnel Outlet dyke Construction Works**

- **Concrete Works:** for DT-A 100% completed on June 11, 2021
- for DT-B 100% completed on June 13, 2021
- Reconstruction of DT-A Dyke completed on June 13, 2022
- Reconstruction of DT-B Dyke completed on June 6, 2022

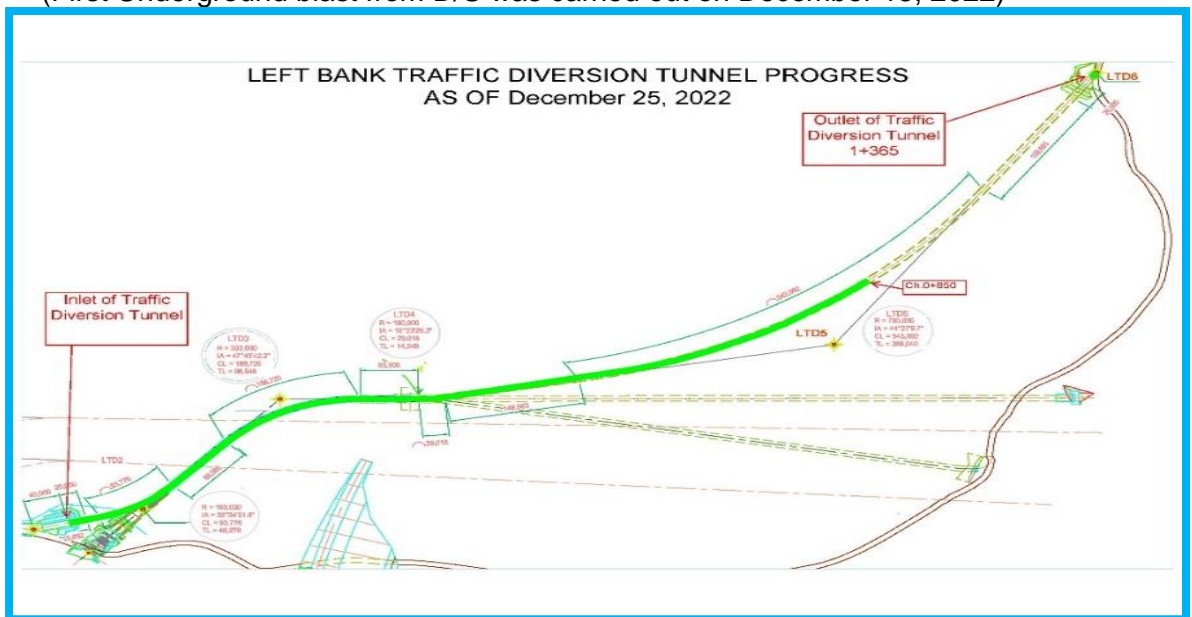
- Demolishing of Diversion Tunnel Outlet Dyke for removal of water from Diversion Tunnel carried out during the month of September.

**(5) Diversion Channel on the right bank**

- Backfilling inside the Indus river in front of DT.B for diversion of Indus river from Diversion Channel to excavate outlet part of DT.B completed during the month of November, 2022.
- **Temporary facilities (Diversion tunnel Inlet side)**
- Gabion protection for CR2 Road river side 100%
- **Temporary facilities (Diversion tunnel outlet side)**
- Air supply station 100%
- Power station 100%
- Stone masonry for surface ditch on the EL. 785 Platform 100%

**4.6.3.3 Left Bank Traffic Diversion Tunnel**

- Upstream Surface Excavation – 100%
- Underground Excavation Work (from U/S & D/S) - 853m / 1,365m (62.49%)
- Excavation of the Slope for Outlet- 100%
- Support of the slope for outlet- 100% completed on December 14, 2022
- Canopy tube drilling and installation- 100%
- Underground excavation and support from outlet- 1+365 ~ 1+362 (3m)
- (First Underground blast from D/S was carried out on December 15, 2022)



**4.6.3.4 Main Dam**

The following works related to the construction of Main Dam are in progress.

**(1) Right Bank Abutment (Siglo Area)**

- U/S Temporary Access Road Construction- 70%
- D/S Temporary Access Road Construction- 100%
- Excavation and support of Right Bank Cable crane Platform above El. 1065m- 100%
- Excavation and support of Right Bank Cable crane Platform slope El. 1065m to El. 1050m- 50% (Now El. 1059m)

**(2) Left Bank Abutment**

- Excavation of the second layer of CR5-2 Road- 27%
- Additional Berm excavation and support- 45%
- CR5 Pool Construction-100%

**4.6.3.5 Upstream Starter Dam**

- Right & Left bank fill road to U/S coffer dam- 100%
- Backfilling of upstream starter dam-40%

#### 4.6.3.6 Cut-off Wall

- Cut-off Wall Drilling started on December 21<sup>st</sup>, 2022 from the right side.
- Concrete pouring for the Guide wall of the Cut-off wall started on Dec 3<sup>rd</sup>, 2022- 53m/122m (43%) (from Ch. 0+122 ~0+069m)

#### 4.6.4 Location wise Current Status of MW-01

The following Table provides information of section wise current status, current issues, possible further issues and action currently undertaken.

**Table 4.21 Location wise Status (MW-01)**

No.	Location	Works Completed	Current Status	Current Issues	Possible Further Issues	Action Currently Undertaken
1	CR2, CR1	Diversion tunnel inlet access road CR-1 & CR2 100% completed. Reinforcing of KKH retaining wall completed  Slope protection of CR-1 along KKH completed  Sedimentation tank around Adit Tunnel No. 1 & 2 completed.	Existing CR2 Eroded during flood on August 16, 2022. The Contractor recovered the CR2 road after the flood.			
2	Uchar Nallah Water Inlet	Installation of water supply pipe until dam site 100% completed on June. Intake structure 100% completed on June.	Uchar Nallah bridge was damaged during the flood in July/August, 2022. Cleaning of debris from the Uchar Nallah was remained continue during the month of October.	No bridge available for the local traffic		The Contractor (CGGC) shall be requested for construction of bridge if FWO refuse.
3	Barseen camp	Dormitory & canteen housing finished.				
4	Pakistani Camp	Foundation Leveling: 100% Dormitory buildings : 100% , (8 dormitory houses, 1 Mosque and 1 canteen)	Backfilling and levelling work after the flood for uchhar Local Labor Camp remained continued during the month of October.			
5	Uchar Chinese Labor Camp	Construction of Prefabricated house: 100% Concrete Placement: 100% Fencing Wall: 100%	Backfilling and levelling work after the flood for uchhar Chinese Labor Camp remained continued during the month of October.			
6	Diversion Tunnel	<b>1-1# Adit tunnel</b> was completed on August 8, 2019. <b>Adit Tunnel 1.</b> Sedimentation pond started operation on October 15, 2019 <b>1-2# Adit tunnel</b> work started from 23 <sup>rd</sup> September and completed at 804.6 m on April 18, 2021. <b>2# Adit tunnel</b> underground excavation finished at the end of May. Sedimentation pond operation was started on August 6, 2019. <b>3# Adit tunnel</b> underground excavation completed on 2nd April 2020. <b>3-1# Adit tunnel</b> underground excavation (244m) was completed on December 13, 2020. <b>Adit Tunnel No.3</b> Sedimentation pond operation was started on August 8, 2019. Retaining wall and backfill was completed during July. <b>Diversion tunnel A Inlet Surface Excavation</b> Excavation: 43,620/43,620m <sup>3</sup> (100%) open excavation completed at the end of December 2020. <b>Diversion tunnel B inlet surface excavation</b> Excavation: 41395/41395 m <sup>3</sup> (100%) open excavation completed at the end of December, 2020. <b>Inlet dyke</b> Concrete: completed on July 4, 2019.	<b>Excavation of Diversion and Adit Tunnels</b> <b>Adit Tunnels</b> - Adit Tunnel 3-2 started on December 5, 2022 and progressed 39/ 223m (17%) till end of December, 2022. <b>Diversion Tunnels</b> <b>Open Excavation of Inlet Structure</b>  <b>Underground Excavation of Diversion Tunnel</b> <b>Diversion Tunnel A</b> - The underground excavation of upper section (1 <sup>st</sup> layer) is completed and breakthrough was done on 23 <sup>rd</sup> September, 2020 at CH.0+995. ➤ The second bench excavation commenced on April 16, 2020 and completed till end of the June, 2021. The excavated length is <b>1,491m/1,491m (100%)</b> . ➤ The third bench excavation commenced on June 27, 2020. It is progressed from inlet side from 0+000~ 1+475(1475m) .The Excavated Length is <b>1,475m/1,491m (99%)</b> . ➤ The fourth bench excavation commenced on October 16, 2020. It is also progressed from Adit Tunnel No.3 progress 1+445. The excavated length is <b>1,445m/1,491m (97%)</b> . ➤ The 5 <sup>th</sup> layer for inlet section was started on December 08, 2020 and completed Ch. 0+061 till end of March, 2021. ➤ Overall Excavation volume progress for DT.A at the end of December is <b>747,942m<sup>3</sup>/ 760,000m<sup>3</sup> (98.41%)</b> . <b>Diversion Tunnel B</b>			

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No.	Location	Works Completed	Current Status	Current Issues	Possible Further Issues	Action Currently Undertaken
		<p><b>Temporary facilities (Diversion tunnel outlet side)</b> Air supply station 100% Power station 100%</p> <ul style="list-style-type: none"> <li><b>Diversion Tunnel Outlet dyke Construction Works</b></li> <li><b>Concrete Works:</b> for DT-A 100% completed on June 11, 2021</li> <li>for DT-B 100% completed on June 13, 2021</li> <li><b>Reconstruction of DT Outlet Dyke-</b> A Dyke completed on June 13, 2022</li> <li>Reconstruction of DT-B Dyke completed on June 6, 2022</li> </ul> <p><b>DT-A Outlet Structure Concrete Works</b></p> <ul style="list-style-type: none"> <li><b>Concrete Works:</b> 1926m<sup>3</sup> / 1926m<sup>3</sup> (100%) completed on June 2<sup>nd</sup>, 2022.</li> </ul> <p><b>DT-B Outlet Structure Concrete Works</b></p> <ul style="list-style-type: none"> <li><b>Concrete Works:</b> 1829.20m<sup>3</sup>/ 1829.20m<sup>3</sup> (100%) completed on May 9<sup>th</sup>, 2022.</li> </ul> <p><b>DT.B Inlet Lining Works (Inside)</b></p> <ul style="list-style-type: none"> <li>10,054m<sup>3</sup> / 10,054m<sup>3</sup> (100%) completed on 21<sup>st</sup> December, 2022.</li> </ul> <p><b>DT.B Shear Zone Area Concrete Works:</b> 9,004m<sup>3</sup> / 9,004m<sup>3</sup> (100%) completed on 16<sup>th</sup> December, 2022.</p>	<p>The top bench excavation broke through on August 23, 2020. Enlargement at the outlet part is remaining for less than 10 m. Open excavation and support work of the outlet in progress.</p> <p>On December 17<sup>th</sup>, geological shear zone was encountered at CH.0+318 and tunnel support "Type II-6 (with lining concrete)" was applied. This supporting type continued till Ch.0+290 after that rock condition improved and support type changed to Type II-5.</p> <p>The second bench excavation was started on July 01, 2020. It is completed by end of June, 2021. The excavated length is <b>1,294m /1,294m (100%)</b>.</p> <p>The third bench (1<sup>st</sup> time) excavation was started on July 03, 2020. It is progressed from inlet side (till Ch. 0+350) and from Adit Tunnel No.3 (Ch. 0+350~1+294). The excavated length is <b>1,294m/1,294m (100%)</b>.</p> <p>The 3<sup>rd</sup> bench (2<sup>nd</sup> time) excavation was commenced on November 02, 2020. It is progressed from the inlet side (till Ch. 0+365) and from Adit Tunnel No.3 (Ch. 0+365~1+272). The excavated length is <b>1,272m/1,294m (98%)</b>.</p> <p>The 4<sup>th</sup> bench excavation was progressed from Adit Tunnel No.3 Ch. 1+253 (1253m). The excavated length is <b>1,253m/1,294m (97%)</b>.</p> <p>The 5<sup>th</sup> layer for inlet section was started on December 02, 2020 and completed on December 30, 2020.</p> <p>Overall Excavation progress for DT.B at the end of December is <b>663,529m<sup>3</sup>/ 670,000m<sup>3</sup> (99%)</b>.</p> <p><b>Excavation work for debris removal outside of DT-A &amp; DT-B (outlet) remained continued during the month of December, 2022.</b></p> <p><b>Concrete Work of Diversion and Adit Tunnels</b></p> <p><b>Diversion Tunnel A</b></p> <p><b>Inlet Structure Works (Outside)</b> 11,530m<sup>3</sup> / 21,515m<sup>3</sup> (54%) completed till end of December, 2022.</p> <p><b>Inlet Lining Works (Inside)</b></p> <p><b>Concrete Works:</b> 7,543m<sup>3</sup> / 10,873m<sup>3</sup> (69%) completed till end of December 2022.</p> <p><b>Invert Levelling Concrete (C20)</b></p> <p>L/S- 1,183m / 1,524m (78%)</p> <p>R/S- 1,203m/1,524m (79%)</p> <p><b>Invert Structural Concrete (A25)</b></p> <ul style="list-style-type: none"> <li>L/S- 612m / 1,434m (43%)</li> <li>R/S- 912m/1,434m (64%)</li> </ul> <p><b>Diversion Tunnel No. B</b></p> <p><b>Inlet Structure Works (Outside)</b> 17,941m<sup>3</sup>/ 21,600m<sup>3</sup> (83%) completed till end of December, 2022.</p> <p><b>Inlet Lining Works (Inside)</b></p> <ul style="list-style-type: none"> <li>10,054m<sup>3</sup> / 10,054m<sup>3</sup> (100%) completed on 21<sup>st</sup> December, 2022.</li> </ul> <p><b>Shear Zone Area</b></p> <ul style="list-style-type: none"> <li><b>Concrete Works:</b> 9,004m<sup>3</sup> / 9,004m<sup>3</sup> (100%) completed on 16<sup>th</sup> December, 2022.</li> </ul> <p><b>Invert Levelling Concrete (C20)</b></p> <p>L/S- 1,173m / 1,327m (88%)</p> <p>R/S- 1,213m/1,327m (91%)</p> <p><b>Invert Structural Concrete (A25)</b></p> <p>L/S- 993m / 1,181.52m (79%)</p> <p>R/S- 957.50m/1,181.52m (81%)</p>			
7	Left Bank Traffic Diversion Tunnel	Upstream Surface Excavation for Inlet Portal– 100% Excavation of the Slope for Outlet- 100%	Underground Excavation Work (from U/S & D/S) - 853m / 1,365m (62.49%)	Slow progress observed at U/G		The Engineer repeatedly instructed the Contractor to

**Dasu Hydropower Project**  
**Monthly Progress Report No. 101 (December 2022)**

No.	Location	Works Completed	Current Status	Current Issues	Possible Further Issues	Action Currently Undertaken
		Support of the slope for outlet-100% completed on December 14, 2022 Canopy tube drilling and installation- 100%	- Underground excavation and support from outlet- 1+365 ~ 1+362 (3m) (First Underground blast from D/S was carried out on December 15, 2022)	excavation		expedite the work in Progress Review meetings.
8	Steel Truss Bridge at Seo	<b>Steel Truss Bridge at Seo</b> <u>Right side Abutment construction</u> Foundation Grouting – 100% Concrete placement – 100% <u>Left side Abutment construction</u> Concrete placement – 100% Bridge Installation- 100%				
9	Left Bank Abutment (Logro Area)	- Excavation of the first layer of CR5-2 Road-100% - Slope Excavation-100% - CR5 Pool Construction-100%	- Excavation of the second layer of CR5-2 Road-27% - Additional Berm excavation and support- 45%			
10	Right Bank Abutment (Siglo Area)	- D/S Temporary Access Road Construction- 100% - Excavation and support of Right Bank Cable crane Platform above El. 1065m- 100%	- <b>Right Bank Abutment (Siglo Area)</b> U/S Temporary Access Road Construction- 70% - Excavation and support of Right Bank Cable crane Platform slope El. 1065m to El. 1050m- 50% (Now El. 1059m)			
11	1# Batching Plant and 1# Crushing Plant at Uchar Area	- 2# Retaining wall excavation Foundation-100% - Stone masonry for 6# and 7# retaining wall-100% - Coarse Crushing Platform Leveling- 100% <b>Medium and fine sand Crushing System</b> ▪ Cushion Pouring- 100% ▪ Column Foundation-100% <b>1# Batching Plant</b> ▪ Batching Plant Foundation Excavation- 100% ▪ Power Plant Ground Levelling-100% ▪ Power Plant Foundation-100%	<b>1# Batching Plant and 1# Crushing Plant at Uchar Area</b> Stone Masonry for retaining wall- 96% Aggregate Storage- 60% Power Plant Ground Levelling-100% Power Plant Foundation- 100% Fencing Wall- 0% <b>[The Contractor started trial testing for production and operation of Uchar New Crushing Plant from December 24, 2022.]</b>			
12	Diversion Channel on the Right Bank		Excavation of the River bed in front of DT. A & B Outlet remained continued during the month of December, 2022.			
13	Uchar Tentative Crushing Plant (River side)	All civil works and installation of machines completed	In operation			
14	Tentative Batching Plant (at Logro)	All civil works and installation of machines completed	In operation			
15	Kass	- Pool Construction-100	The construction of Kass Main Camp is in progress. The status of the construction is as follows. - Ground leveling for the Contractor's main camp-65% - Building foundation of the prefabricated house- 73% - Prefabricated house hoisting- 95% - Chinese Canteen- 70% - Stone Masonry for Retaining Wall- 53% - Installation of precast fence- 70%	The Employer handed over 63% land to the Contractor. There is dispute in the remaining area at Kass.		The Contractor shall be instructed to install fence around the dispute area
16	U/S Starter Dam	- Right & Left bank fill road to U/S coffer dam- 100%	<b>Upstream Starter Dam</b> - Backfilling of upstream starter dam-40%			
17	RCC Batching Plant at Siglo Area		- 2.16ha land provided by the Employer to the Contractor for the Construction of RCC Batching Plant.		The Contractor is waiting for fence material to start the construction work inside the Batching Plant area.	The Contractor was strictly instructed to expedite the purchasing process of fence material.

#### 4.6.5 Summary of Varied Works of MW-01

Varied works under MW-01 Contract are required as listed below due to the following major reasons:

- Delaying of Relocation KKH (KKH-01):
  - i) River diversion tunnels and gates were enlarged (VO-003 & VO-006) to secure general traffic and to mitigate inundation risks of the existing KKH,
  - ii) Temporary facilities for construction of diversion tunnel were changed (VO-001 & VO-002) to compliance with increase of the work quantities of diversion tunnels, and
  - iii) Traffic bypass route of general traffic on the existing KKH is required (VO-004) to proceed left bank excavation for the main dam.
- Delaying of Handover of Allotted Area:  
General layout of temporary facilities had been forced to rearrange within the limited land (VO-001, VO-002, and VO-005).

Status of the varied works is summarized in the following Tables.

**Table 4.22: Status of Variation Order by the Engineer**

ID	Varied Works	Latest RFP	Contractor's Latest Proposal	Engineer's Assessment	Signed VO
VO-001	Construction Roads and Platforms for Diversion Facilities	06 Mar. 2020	20 Dec. 2021	30 Dec. 2021	16 Jan 2022 PKR 967 mil.
VO-002	Adit Tunnels for Diversion Facilities	17 Jul. 2019	20 Dec. 2021	31 Dec. 2021	16 Jan 2022 PKR 1,275 mil.
VO-003	River Diversion Tunnels	29 Sep. 2020	30 Oct. 2020	21 Jan. 2021	17 Nov 2021 PKR 19,805 mil.
VO-004A	Construction of LB Traffic Diversion Tunnel	12 Feb. 2021	20 Dec. 2021	20 Dec. 2021	16 Jan 2022 PKR 1,010 mil.
VO-005	Land Lease at Purana Gao-Seo Area Phase- 1	N/A	N/A	N/A	01 July 2020 PKR 81 mil.
VO-006	Diversion Gates & Hoists	14 Apr 2022	Not yet submitted	N/A	N/A
VO-007	Permanent Access Roads and Construction Access Roads in Left Bank	1 September 2022	Not yet submitted	N/A	N/A

#### 4.6.6 Summary of Daily Work Records of MW-01

Summary of Daily Work Records of MW-01 is attached in Appendix-K

### 4.7 DASU-MW-02: Underground Power Complex, Tunnels and Hydraulic Steel Structures

#### 4.7.1 General Contract Data of MW-02

General Contract Data of this package is summarized in the following Table:

**Table 4.23: General Contract Data of Dasu-MW-02**

Item	Data
Contract Number	ICB No. Dasu-MW-02
Contract Name	Underground Power Complex, Tunnels and Hydraulic Steel Structures
Contractor	China Gezhoubu Group Co. Ltd (CGGC)
Contract Agreement Signed	March 08, 2017
Commencement Date	June 23, 2017
Contract Price	PKR 64,426,426,087/-
Time of Completion	2069 days
Contract Completion Date	Feb 21, 2023
Construction Supervision Consultant (CSC)	Dasu Hydropower Consultants

#### 4.7.2 Progress Status of MW-02

The progress of MW-02 during this month is summarized in the following Table:

**Table 4.24: Progress of MW-02 this Month**

Package	Elapsed Time		Actual Work Progress Prior to this Month (%)	Work Progress during this Month		Work Progress up to this Month	
	Month	(%)		Scheduled (%)	Actual (%)	Scheduled (%)	Actual (%)
ICB No. Dasu-MW-02	66.3	61.5	7.7	1.82	0.59	47.4	8.3

- Gantt chart and S-Curves of Dasu-MW-02 shown in Figure 18 and Figure 19

#### 4.7.3 Major Activities of MW-02

The major construction activities undertaken during this month were:

##### 4.7.3.1 Construction Activities

- Installation of Rebar Mesh = Additional Support within Powerhouse Cavern
- Excavation for 2<sup>nd</sup> Bench Central portion of Powerhouse Cavern. (Commenced 25 Sep. 2022).
- Excavation for 2<sup>nd</sup> Bench (Central portion Including Both and Left side walls Enlargements) of Powerhouse Cavern was Completed on 28<sup>th</sup> November 2022.

- Excavation for 2<sup>nd</sup> Bench Central portion of Transformer Cavern was in progress.(Commenced 25 Sep. 22).
- Excavation for 2<sup>nd</sup> Bench (Central portion Including Both and Left side walls Enlargements) of Transformer Cavern was Completed on 21<sup>st</sup> November 2022.
- Installation of Rebar Mesh = Additional Support within Transformer Cavern.
- Installation of PS Tendon within Powerhouse Cavern was in progress.
- Trail Test for PS Tendon was Completed in Transformer Cavern with different bond length.
- Installation of PS Tendon within Transformer Cavern was in progress.
- 5<sup>th</sup> Bench slope Excavation and Support work of both left and Right Side at EL.959m to 947m was in progress (Switchyard).
- Intake Protection Fence was in progress (Ditch Excavation) Surface Excavation at EL.1000m to EL990m.
- Support work of LU1 (wire mesh, shotcrete rock dowel) from Ch.0+070~0+240 was in progress.
- Excavation and Support work of Lower Pressure Tunnel No.1 (Pilot &Crown Enlargement).
- Lower Pressure Tunnel#2 Invert Cleaning was in progress.
- Excavation and Support work of Adit Tunnel CT2 for Tailrace Outlet was in progress.
- Excavation and support work were in progress at Service Tunnel B.
- Vertical Exhaust shaft Pilot excavation was Completed on 23<sup>rd</sup> November 2022.
- SCVAT 1 and SCVAT 2 Gallery Excavation and Support was in progress. (December 2022)

#### 4.7.3.2 Preparatory Works

##### (1) Khushi Labour Camp

- Khushi Labour Camp is completed in 26<sup>th</sup> of June 2021.

##### (2) CR4 /LU1/CR5-1 Road at Logro-1 Area

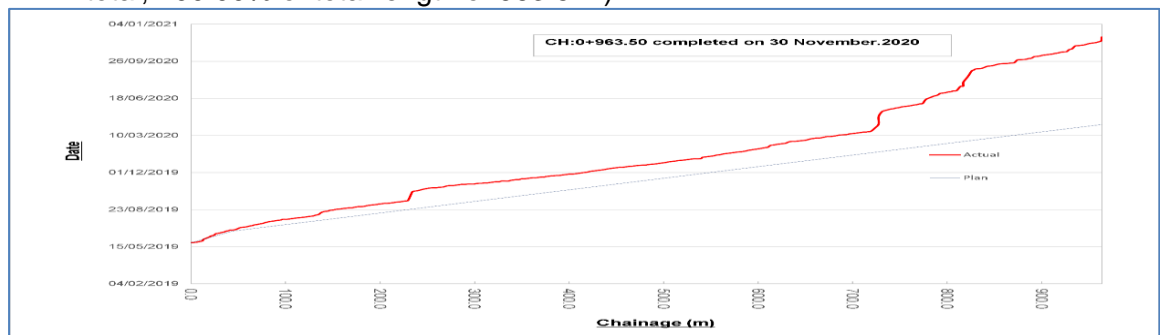
- A part of the Logro 1 area (0.53 ha) was handed over on 13<sup>th</sup> of March 2020.
- 1<sup>st</sup> Blasting of CR4 was executed on 17 March 2020.
- Pilot road excavation of CR4 Road was completed.
- Pilot Road excavation for LU1 Road has been commenced.
- Access road of Power Intake Protection Fence Platform was commenced on 27<sup>th</sup> of Oct 2021.
- Power Intake Platform protection fence ch.0+113-0+133 is in progress. (April 2022)
- Surface Excavation for lowering level is in progress. (April 2022)
- Surfacers Boulders blasting was in Progress (June 2022)
- Surfacers Boulders blasting was in Progress (Sep. 2022)

##### (3) Khushi Batching Plant:

- The Engineer informed the Contractor that the remaining part of LD7 (1.982ha) at Khushi area, where the new batching plant will be constructed, was handed over on 03<sup>rd</sup> March 2020 by letter on 3<sup>rd</sup> of March 2020.
- Contractor submitted document for new batching plant in Khushi on 19<sup>th</sup> of February 2020. The Engineer reviewed and replied with comments by letter on 5<sup>th</sup> of March 2020.
- Khushi Batching Plant is still under assembly with the Aggregates bays being constructed along with the drainage pipe being installed.
- Civil works for aggregate storage area have been completed on 28<sup>th</sup> March 2021.
- Batching Plant of CR9 Area is Operational However Some reservations yet to be fulfilled by the Contractor as per the Engineer's instruction.

#### 4.7.3.3 Main Access tunnel

- Work progress of Main Access Tunnel completed on 30<sup>th</sup>. November.2020 (963.50 m in total, 100.00% of total length of 963.5 m).



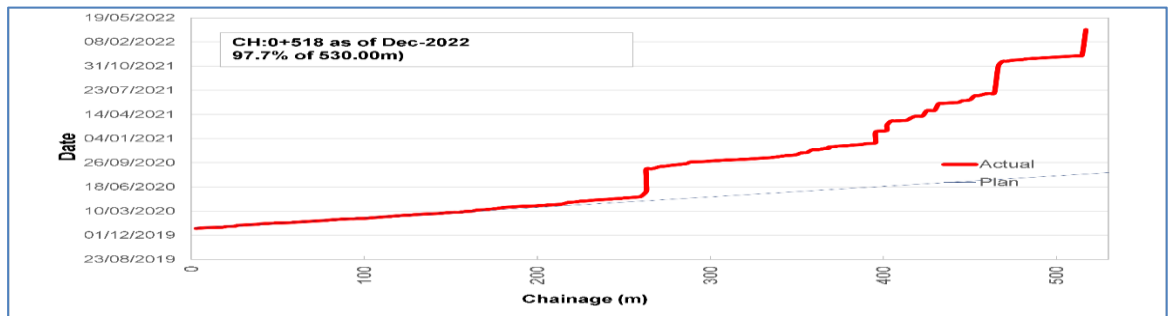
**Figure: Work Progress of Main Access Tunnel**

**4.7.3.4 Main Access Platform**

- Gravity Wall Type A: 0 m<sup>3</sup> (949 m<sup>3</sup> in total, 94% of design volume).
- Gravity Wall Type C: 0 m<sup>3</sup> (356 m<sup>3</sup> in total)
- Leaning Retaining Wall Type III: 0 m<sup>3</sup> (791 m<sup>3</sup> in total, 89% of design volume).
- Criss Drain Culvert: 0 m<sup>3</sup> (62 m<sup>3</sup> in total), works was suspended

**4.7.3.5 Surge Chamber Vault Access Tunnel**

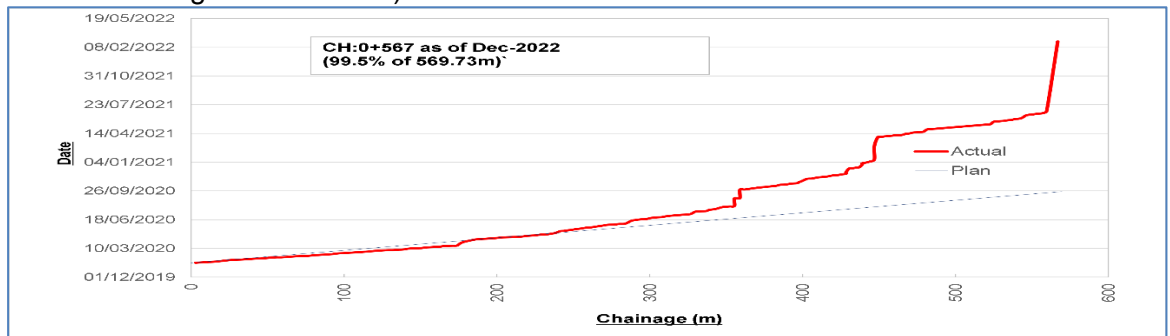
- Excavation of Surge Chamber Vault Access Tunnel was started on 29 Dec 2019.
- Work progress of Surge Chamber Vault Access Tunnel in Oct 2022: 0.00 m (518.00 m in total, 97.7 % of total length of 530.0 m)
- Crown enlargement and support work Towards Galleries was in progress (Aug 2022)
- Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+67 m (25 Dec. 2022))
- Support of SCVAT #2 Gallery was in Progress (Current chainage 0+026 m (25 Dec. 22))



**Figure: Work Progress of Surge Chamber Vault Access Tunnel**

**4.7.3.6 Service Tunnel A**

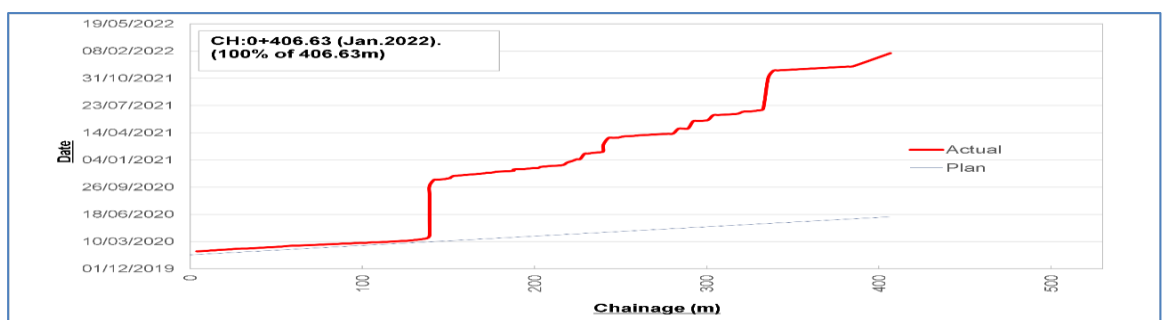
- Excavation of Service Tunnel A was started on 20 January 2020.
- Work progress of Service Tunnel A in September 2022: 0.00m (567 m in total, 99.5% of total length of 569.73 m)



**Figure: Work Progress of Service Tunnel A**

**4.7.3.7 Service Tunnel C**

- Tunnel excavation of Service Tunnel C was commenced on 02 February 2020.
- Design Excavation was completed in the Month of Jan.2022.



**Figure: Work Progress of Service Tunnel C**



**4.7.3.8 GIS Room Access Tunnel**

- The Engineer issued revised construction drawings for the GIS Room Access Tunnel on 24 March 2020.
- GIS Room Access Tunnel commenced on 01 March 2020.
- Work progress of the GIS Room Access Tunnel in November 2022: 00.0m (113m in total 98.9% of the total length of 114.18 m)
- STB Tunnel Excavation was in Progress F.ch 0+121 approx. (25 December 2022)

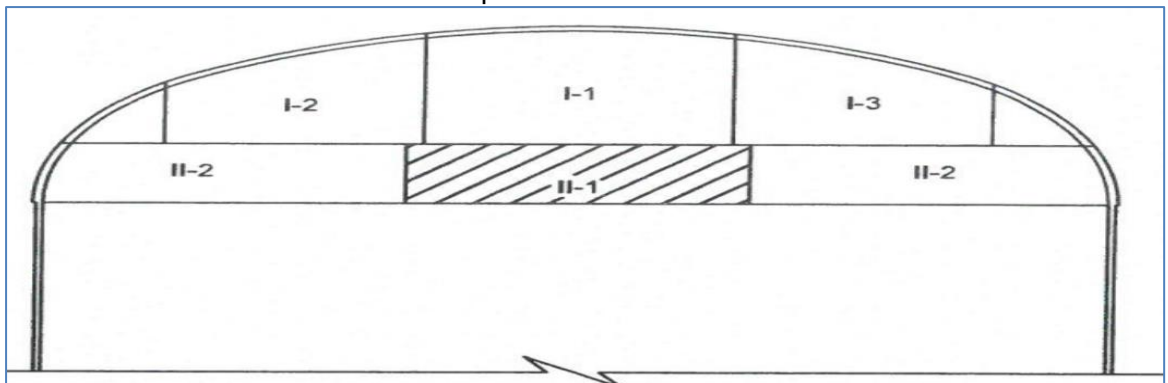
**4.7.3.9 Exhaust Tunnel**

- Exhaust Tunnel was commenced on 14 March 2020.
- Completed except for Vertical Shaft (217.26 m in total 100% of the total length of 217.26 m).
- Trail Excavation for vertical Shaft was completed from the drain Tunnel. (23<sup>rd</sup> November 2022)

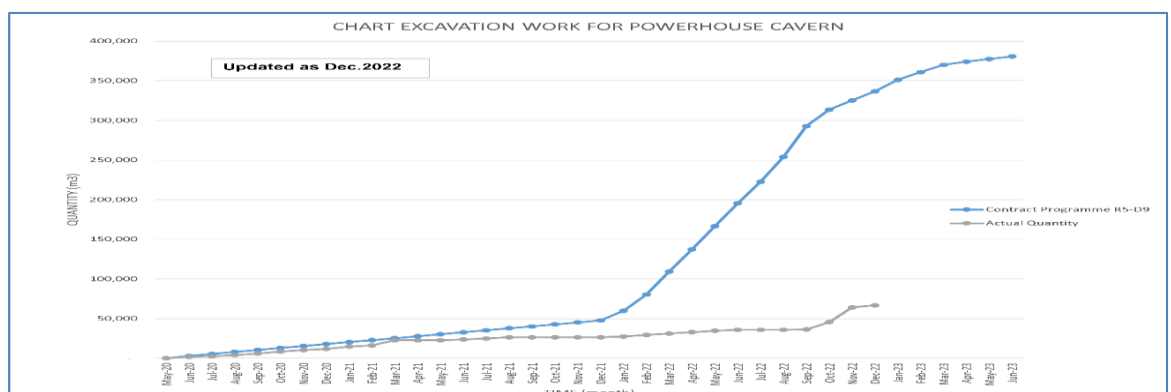
**4.7.3.10 Underground Powerhouse**

**Crown Portion**

- Excavation of Bench 1 of Crown Portion (Pilot Tunnel I-1) commenced on the 23<sup>rd</sup> of May 2020.
- Pilot excavation was completed.
- I-2 Enlargement was completed on 5<sup>th</sup> June 2022)
- I-3 Enlargement was completed on the 24<sup>th</sup> of March 2022)
- Total Excavation Volume of November 2022 is 64165.00 m3 of Total Powerhouse Cavern Excavation Volume of 378,570.46 m3 which is the progress of **16.94%** in total.
- Excavation for 2<sup>nd</sup> Bench (Central portion and Both Left /Right Side walls Opening) Commenced on 25 Sep. 2022.
- Support Work is in progress for the overall Crown Pilot Portion.
- PS Tendon Installation was in progress (Dec.2022)
- Excavation for 2<sup>nd</sup> Bench (Central portion II-1 and Both Left /Right Side walls Opening) of Powerhouse Cavern was Completed on 28<sup>th</sup> of November 2022.



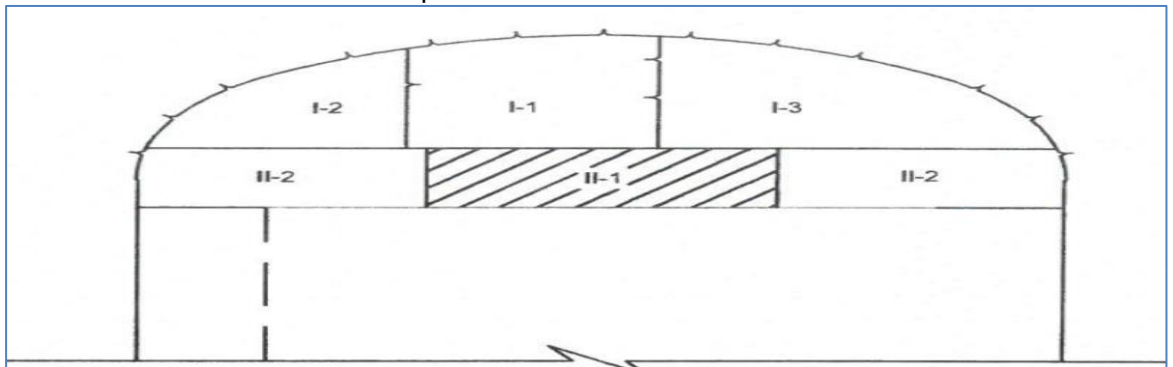
**Figure: Section of Powerhouse Cavern 2<sup>nd</sup> Bench**



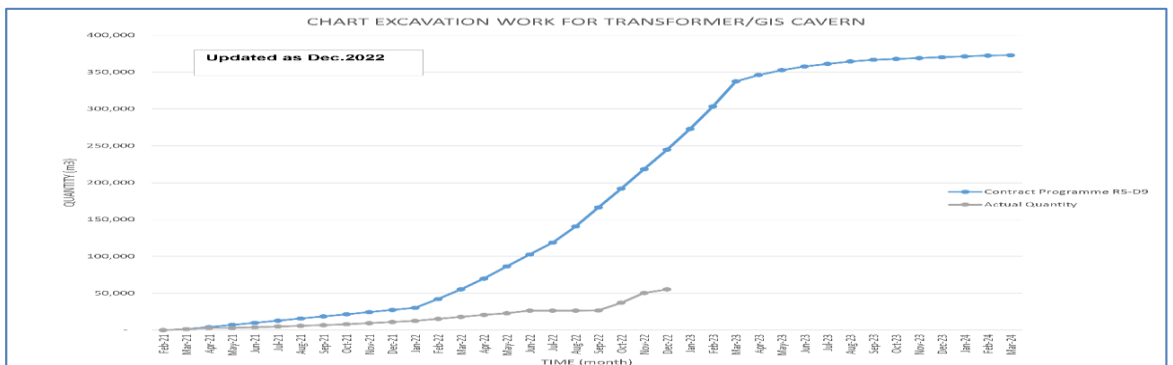
**Figure Work Progress of Powerhouse Cavern 2<sup>nd</sup> Bench**

**4.7.3.11 Underground Transformer Cavern**

- Excavation of Bench 1 of Crown Portion (Pilot Tunnel I-1) was commenced on 04 June 20.
- Updated rock support drawings were issued on 02 June 2020.
- Excavation was Completed I-1 in the Month of December 2021)
- I-2 Enlargement was completed on 12<sup>th</sup> of June 2022.
- I-3 Enlargement was complete on 22<sup>nd</sup> July 2022.
- Total Excavation Volume of December. 2022 is 55300.7m<sup>3</sup> of Total Transformer Cavern Excavation Volume of 234,829.30m<sup>3</sup> which is the progress of **23.5%** in total.
- PS Tendon Installation was in progress (December2022)
- Excavation for 2<sup>nd</sup> Bench (Central portion and Both Left /Right Side walls Opening) Commenced on 25 Sep. 2022.
- PS Tendon Installation was in progress (Dec.2022)
- Excavation for 2<sup>nd</sup> Bench (Central portion and Both Left /Right Side walls Opening) of Transformer Cavern was completed on 23<sup>rd</sup> November 2022.



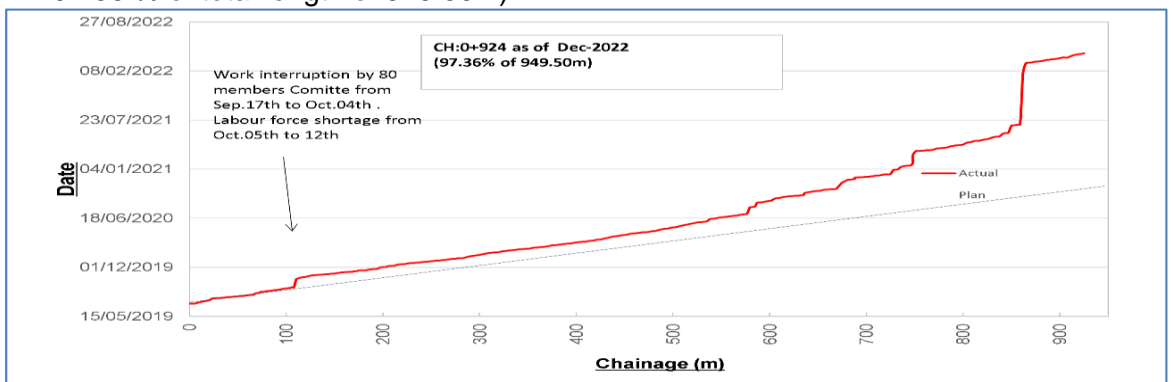
**Figure: Section of Transformer/GIS Cavern Excavation 2nd Bench**



**Figure: Work Progress of Transformer/GIS Cavern 2nd Bench Diagram**

**4.7.3.12 Drain Tunnel**

- Drain Tunnel commenced on 06 July 2019.
- Work progress of the Drain Tunnel in November 2022: 0.00m (924.50 m in total, 97.36 % of total length of 949.50m).



**Figure: Work progress of Drain Tunnel**

**4.7.3.13 Connection Tunnel to Transformer Cavern**

- Tunnel excavation was commenced on 23 April 2020.
- Tunnel has been completed on 11 May 2020.

**4.7.3.14 Connection Tunnel to Powerhouse Cavern (From Exhaust Tunnel)**

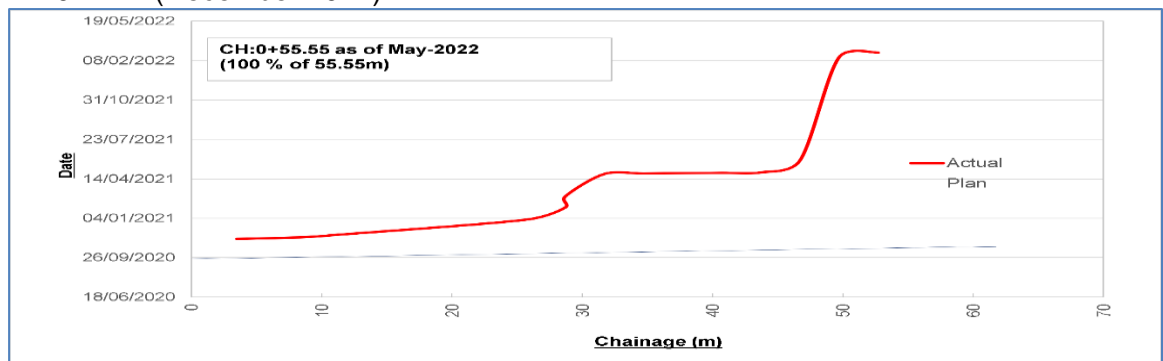
- Tunnel was commenced on 06 May 2020.
- Tunnel has been completed on 21 May 2020.

**4.7.3.15 Connection Tunnel to Powerhouse Cavern (From Service Tunnel A).**

- Tunnel was commenced on 25 April 2020.
- Work progress of the Connection Tunnel in October 2022: 0 m (76.50 m in total, 99.19 % of total length of 77.12 m)

**4.7.3.16 Penstock Adit Tunnel No.01**

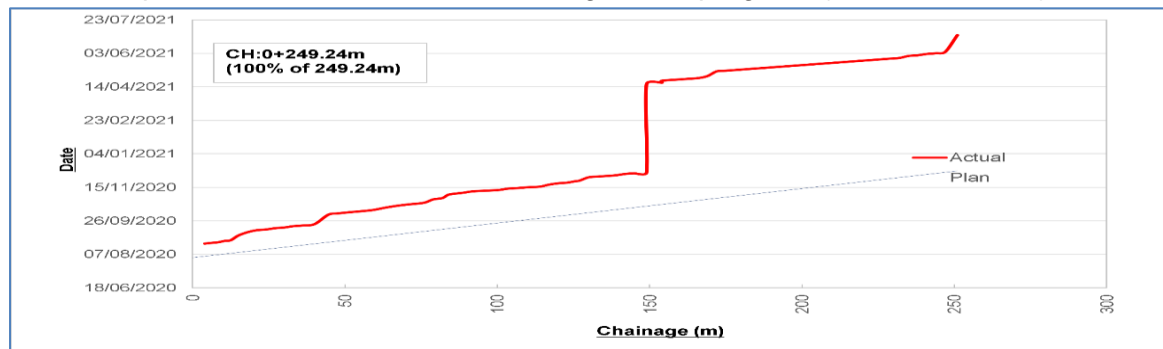
- Tunnel excavation commenced on 12 November 2020.
- Penstock Adit Tunnel No.01 was Completed on 06 May 2022: (55 m in total, 100% of total length of 55.55 m).
- Lower pressure Tunnel # 1 excavation was Started 08/05/2022.
- Lower pressure tunnel # 1 Crown enlargement was in progress Current Chainage 0+47m (December.2022)



**Figure: Work Progress of Penstock Adit Tunnel No.01**

**4.7.3.17 Penstock Adit Tunnel No.02**

- Tunnel excavation commenced on 23 August 2020.
- Work progress of the Penstock Adit Tunnel No.02 in April 2022: 0.00 m (249.24 m in total, 100 % of total length of 249.24m).
- Tunnel design length has been achieved on 7 June 2021.
- Lowerpressure#2 Tunnel excavation was Commenced (21/05/2022).
- Lower pressure tunnel # 2 Invert Cleaning was in progress (December.2022).



**Figure: Work Progress of Penstock Adit Tunnel No.02**

**4.7.3.18 Permanent Access Road LD 7**

- Pilot excavation and initial slope protection
- Second stage excavation and initial support works were conducted between Ch:0+325 m to 0+650.

- No Activity due to diversion of the access road to LD7 for CR-9 area access. May 22).
- Side slope protection at Ch.0+630-0+572 below El.800 was in progress (June 2022).
- No Activity in the month of December 2022.

#### 4.7.3.19 Switchyard

- The Engineer issued a day work order to install a fence along the local residential area with a blind curtain prior to land handover on 25th February 2020 to proceed with the portal work, safely.
- Fence material arrived on 9th March 2020. However, the Contractor has not started fencing work yet, since the Contractor shifted all materials and works to the Adit No.3 of Diversion Tunnel (MW-01).
- Engineer asked Contractor to start the activity at Switchyard during joint inspection dated 31st of October 2021.
- Engineer asked Contractor for Join Inspection to commence the activity at Switchyard area on 2nd December 2021.
- Demolishing of local houses / with self-resettlement has been in progress (December 2021) at Switchyard Area.
- The topographic Survey for the Initial Excavation is in progress.
- A joint inspection was conducted to specify the Boundary of Switchyard Area and Relocated KKH Tunnel A. (Joint Inspection Attended WAPDA, CGGC, CCECC, and DHC Engineer).
- Preparatory work for switchyard area Labour Camp.
- Contractor (CGGC) and Engineer have conducted joint topographic survey.
- Reinforcement and formwork of the water tank are in progress.
- Removing of Dumping material by Daywork is in progress.
- Excavation of 1<sup>st</sup> layer/Bench was started on 14 April 2022. (InProgress)
- A meeting was held regarding Boundary line of Switchyard and KKH Batching Plant.
- Switchyard 5th Bench slope Excavation and Support work of both left and Right Side at EL.970m to 957m was in progress (November 2022)
- 5th Bench slope Excavation and Support work of both left and Right Side at EL.959m to 947m was in progress (December 2022)

#### 4.7.3.20 Daywork Order in the reporting month

- No Day work order was issued in the Month of November

#### 4.7.4 Location wise Status of MW-02

The following Table provides information of section wise current status, current issues, possible further issues and action currently undertaken.

**Table 4.25 Location wise Status (MW-02)**

No.	Location	Works Completed	Current Status	Current Issues	Possible Further Issues	Action Currently Undertaken
1	Steel Truss (Superstructure)	30 Oct.2018 Preparation work has been started. 24 Nov.2018 CB200 on the left bank has been completed. 25 Nov.2018 Erection of temporary nose beam has been stated. 30 Dec. 2018 Main bridge CB450 was moved at the designated position.  07Jan. 2019: Move down of CB450 at	1) The Contractor submitted the drawings however the essential information was lacked and rejected on 16 August 2018. 2) The Contractor submitted MS however, internal coordinatio	1) The Contractor submitted required documents. However, most of the documents are insufficient. 2) Securing safety of the site erection work for steel truss superstructure. 3) Landowner at right bank frequently stop the construction work. 4) Improvement approach road for public use on right bank has been started on 24August 2019and was completed on 08 Aug.2019.	1) Bridge installation work will be delayed drastically because of the Contractor's poor method statement and quality management. 2) Due to poor coordination, the erection work will be delayed drastically. (Construction will have a serious impact	1) The Engineer instructed the Contractor to take contract oral procedure on 16 August 2018. 2) The Engineer reviewed his method statement carefully and suggested appropriate installation method. 3) The Engineer will dispatch experienced instructor for steel bridge erection. 4) The Engineer repeatedly conducts verbal explanation and issue the letter to fulfil contractual requirement for bridge truss installation. 5) Engineer repeatedly explains importance of safety measure to the Contractor by verbal explanation and letter. 6) Engineer repeatedly instructs to finalize method statement of truss bridge by verbal explanation and letter 7) Engineer checked the status of landowner's interruption

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No.	Location	Works Completed	Current Status	Current Issues	Possible Further Issues	Action Currently Undertaken
		the designated position. 11 Jan. 2019: CB450 has been completed. 24 Feb. 2019 CB200 on RB has been completed	n is required.  LEI N/A	LEI N/A	resulting in delay(s.)  LEI N/A	8) Engineer requested to change layout the route of the approach road. 9) Engineer issued daywork order to construct RB approach road on 03 July 2019 10) Engineer issued daywork order to improve RB approach road for public use on 21 August 2019.
2	Main Access Portal	Work and Issue was completed on 22 May 2019	LEI N/A	LEI N/A	LEI N/A	LEI N/A
3	Main Access Tunnel	Started on 21 May 2019. Excavated up to 509m as of 31Dec.2019	Geological condition gradually becomes good.	1) Portal is located small fault zone of Khushi contact. 2)Tunnel geology is not so good because of Khushi contact	LEI N/A	1)Engineer instructed to shift portal location 2) Engineer instructed to install canopy tube at portal and fore-poling at cutting face. 3) Engineer carefully observed geological conditions and issue timely instruction to cope with site geology. 4) Continued above 3) in Dec.2019
4	LD7	Excavation work started on 13 July 2019. However, due to bad geology the work as suspended on 14 July 2019.	LEI N/A	1) Contractor requested to relocation houses at Khushi area (above Seo Bridge) 2) Along the LD7, excavated material during KKH construction is deposited. The deposit is much larger than expected amount.	LEI N/A	1) The Engineer frequently requested the Employer to relocate the houses. 2) The Engineer carefully observing geological condition and issue timely instruction or revised drawings to cope with actual site geology. 3) Continued about 2) in Oct.2019. 4)No Activity (May2022) 5)Slope Protection support work was in progress (June 2022).
5	Barseen	LEI N/A	LEI N/A	Handover of the remaining land is urgently required for temporary facilities.	LEI N/A	1) Coordinating with the Employer to expedite land acquisition process.
6	Uchar	LEI N/A	LEI N/A	Handover of the land is urgently required for temporary facilities. The Contractor requested to handover the land on 01 August 2019 to construct his batching plant	LEI N/A	1) Coordinating with the Employer to expedite land acquisition process 2) Engineer suggested the Employer to replace CCCECC'S plant with the CGGC's new plant.
7	Kass	LEI N/A  LEI N/A	LEI N/A  LEI N/A	Handover of the land is urgently required for temporary facilities/waste disposal.  LEI N/A	LEI N/A  LEI N/A	1) Coordinating with the Employer to expedite land acquisition process. 2) Demolishing existing houses is in progress 3) Excavation of access road for Camp is in progress. 4) Demolishing of Local Houses by day work order is in progress. 5) Installation of pre-Cast room for the CGGC Chinese Dormitory. (InProgress April 2022) 6) Stone Masonry Stone is in progress (Breast Wall) (InProgress May 2022) 7) Installation of pre-Cast room for the CGGC Chinese Dormitory. (InProgress June 2022) 9)
8	Khushi Labour camp	LEI N/A	The Employer made payment for temporary relocation to the landowners Land issues has been resolved on 16 December 2019	The Labour camp area has been handed over on 15 March 2019. Demolishing houses have been completed on 20March 2019. Engineer issued daywork order to demolish houses on 03 August 2019. However, due to the slow progress of self-relocation, the demolishing work has not been completed	The Contractor will issue claim for delaying land handover for Labour camp.	1) Coordinating with the Employer to expedite land acquisition process. 2) The Engineer proposed alternative land to the Employer. Coordination with stakeholders is in progress. 3) Khushi Labour Camp is Completed but the Pakistani staff yet to be shifted. 4) Engineer reminded the Employer to enforce demolishing houses by letter. 5) Engineer issued a daywork order for demolishing houses on 08 March 2019 and the work has been started on 14 March 2019. 6) Engineer issued daywork order to demolish houses on 03 August 2019 7) The Engineer requested the Employer to enhance self-relocation 8) Khushi Labour Camp is Completed in June 2021
9	Khushi Parking area	LEI N/A	Land issue has been solved on middle of July 2019.	Land was handed over on 27 December 2018 The Contractor intended to use the land only for low flow season. The Contractor informed that landowner interrupted his work	LEI N/A	1) Employer suggested to use phase -2 of colony area. The Engineer is coordinating with Zonghmi Contractor. 2) Engineer informed the Employer to solve landowner issue ASAP
10	Khushi Spoil Bank and	Left Empty Intentionally	The Employer coordinate	The Contractor proposed new layout of spoil bank	His proposal requires to shift CCECC's spoil	1) The Engineer is conducting justification study of the proposal and request the

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No.	Location	Works Completed	Current Status	Current Issues	Possible Further Issues	Action Currently Undertaken
	Batching Plant	LEI NA	d with C&W to relocate his bridge girders from Batching plant area  LEI NA	and batching plant in Khushi.  LEI NA	bank and coordination with local bridge contractor in Khushi.  LEI NA	Contractor to provide supporting document. 2) The Engineer coordinates the contractors to arrange relocation area of the girders 3) The Engineer continuously conducts coordination of 2) above. 4) The remaining part of Khushi Batching Plant site was handed over on 02 March 2020
11	Switchyard Area	LEI N/A	Self-relocation has been completed in the month of August 2021 Self-relocation along access road to vent tunnel was completed in Feb.2020	1) Contractor requested hand over of switchyard area to start vent tunnel 2) Contractor requested to hand over the whole area of the switchyard. 3) Some residents interrupted the Contractor's activity Due to lack of material and workforce the Contractor shifted the material and workers to Adit No.3 outlet.	Switchyard construction work may be critical work if the whole area will not be completed within December 2019.	<ol style="list-style-type: none"> <li>1) Engineer to proposed pertain handover to start vent tunnel.</li> <li>2) Engineer identified partial hand over area by several discussion with Contractor.</li> <li>3) The Engineer informed the Employer the land should be handed over in the middle of June by letter on May 2019.</li> <li>4) The Engineer reminded the Employer in Nov. 2019</li> <li>5) The Engineer carefully monitors the self-relocation process in Jan. 2020</li> <li>6) The Engineer issued instruction to install fence and blind curtain around residential area on 27 February 2020.</li> <li>7) The Engineer requested the Contractor to prioritize his work and to show resource arrangement of each workforce's</li> <li>8) Engineer asked Contractor to start the activity at Switchyard during joint inspection dated 31 October 2021.</li> <li>9) Engineer asked Contractor for Joint Inspection to Commence the activity at switchyard area on 2nd December 2021.</li> <li>10) Demolishing of Local Houses by day work order is in progress</li> <li>11) Removing of Dump/spoil material by Daywork in progress (January 2022).</li> <li>12) Joint Topographic Survey Is in progress for initial Excavation.</li> <li>13) Joint Topographic Survey has been done (Feb. 2022.)</li> <li>14) Preoperative work for the Local Labour Camp at Switch Area.</li> <li>15) Excavation for Water Tank is in progress.</li> <li>16) Reinforcement and formwork of the water tank are in progress.</li> <li>17) Removing of Dumping material by Daywork is in progress</li> <li>18) Excavation of 1st layer 16 April 2022.</li> <li>19) Excavation of 2<sup>nd</sup> and 5<sup>th</sup> Layer was in progress.</li> <li>20) Excavation of 1<sup>st</sup> Layer was in progress EI.920 (June 2022)</li> <li>21) Excavation of 5<sup>th</sup> layer EI.975 to EI.973 Drilling for blast was in progress, Excavation from EI.930 to 920m was in progress (July 2022)</li> <li>22) Excavation at Platform EI.920m was in progress (September 2022)</li> <li>23) 5th Bench Excavation above EI.960 was in progress (September 2022)</li> </ol>
	LEI N/A	LEI N/A	LEI N/A	LEI N/A	LEI N/A	
12	Intake (Logro area above KKH)	LEI N/A	Payment of self-relocation has been made	Self-relocation has been completed partial on 12 November 2019. Logro 1 area was partially handed over on 13 December 2019. Relocation of graves in the hand over is required. The contractor is informing that Logro-1 is not handed over by letter on 17 Jan. 2020	Intake construction work may be critical work, if the land handover will not be completed in August 2019	<ol style="list-style-type: none"> <li>1) The Engineer informed the Employer the land should be handed over in the middle of June by letter in May 2019.</li> <li>2) The Engineer reminded the Employer in Sep. 2019.</li> <li>3) The Engineer confirmed status with the Employer in Oct. 2019</li> <li>4) The Engineer suggested the Contractor to change temporary road alignment to avoid excavating graveyard</li> <li>5) Engineer replied that the Contractor shall secure and protect the handed over area.</li> <li>6) Engineer is instructed to relocate timber upstream of Logro1 Area on 20 February 2020.</li> <li>7) A part of the Logro 1 area (0.53 ha) was handed over on 13 March 2020.</li> </ol> <p>Power intake protection fence excavation was commenced on the 28<sup>th</sup> of October 2021 and still is in progress.</p>
	LEI	LEI N/A	LEI N/A	LEI N/A	LEI N/A.	

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No.	Location	Works Completed	Current Status	Current Issues	Possible Further Issues	Action Currently Undertaken
	N/A					Blasting of surface boulders and lowering surface level was in progress (May 2022.) Blasting of surface boulders and lowering surface level for Ditch was in progress (July 2022.) Surface 8) Intake Protection Fence was in progress (Ditch Excavation) Surface Excavation. (sep2022)
13	Barseen Spoil Bank	To accommodate spoil material excavated from Main work site the Engineer requested CCECC to share his spoil bank at Barseen with CGGC.	Under negotiation with CCECC	CCECC refused the Engineer's proposal	Spoil bank for main work construction will be short.	1) The Engineer is negotiating with CCECC to share the spoil bank at Barseen 2) The Engineer instructed the Contractor to use the Barseen Spoil bank on 27 November

Note: The quantities and percentages mentioned herewith are approximate physical measurement.

#### 4.7.5 Summary of Daily Work Records of MW-02

Summary of Daily Work Records of MW-02 is attached in Appendix-K

#### 4.7.6 Dewatering Record

Dewatering Record during Contractor's Suspension Work- for the Month of November 2022 MW-02						
Workforce			Equipment			
Type	Location	Qty	Type	Power/Capacity	Qty	Remarks
Tech. Staff	MAT 0+370	0	Water Pump	75Kw	1	One Operator Visiting Different Faces
Electrician		1				
Skilled		1				
Tech. Staff		0				
Tech. Staff	MAT 0+510	0	Water Pump	7.5kw	1	
Electrician		0				
Skilled		1				
Tech. Staff		0				
Tech. Staff	STA To PA & STA 0+300	0	Water Pump	7.5Kw	1	
Electrician		0		75Kw	1	
Skilled		1				
Tech. Staff		0				
Tech. Staff	PH	0	Water Pump	45Kw	1	
Electrician		0				
Skilled		1				
Tech. Staff		0				
Tech. Staff	ADFT	0	Water Pump	7.5kw	1	
Electrician		0				
Skilled		1				
Tech. Staff		0				
Tech. Staff	MAT 0+820	0	Water Pump	75Kw	1	
Electrician		1				
Skilled		1				
Tech. Staff		0				
Tech. Staff	CR-9 PowerStation	0				
Electrician		1				
Skilled		1				
Tech. Staff		0	Generator	880KVA	1	

#### 4.8 Dasu-LBRV-11: Resettlement Villages (Khoshe, Logro & Uchar)

##### 4.8.1 General Contract Data of LBRV-11

General Contract Data of this package is summarized in the following Table.

**Table 4.26: General Contract Data of Dasu-LBRV-11**

Item	Data
Contract Number	ICB No. DASU-LBRV-11
Contract Name	Resettlement Villages (Khoshe, Logro & Uchar)
Contractor	M/s Zhongmei Engineering Group Limited
Contract Agreement Signed	Apr 20, 2017
Commencement Date	Dec 26, 2018
Contract Price	PKR 1,120,509,415 /-
Time of Completion	364 Days
Contract Completion Date	Dec 25, 2019
Extension of Time (EOT)	N/A
Revised Completion Date as per EOT	N/A
Construction Supervision Consultant (CSC)	Dasu Hydropower Consultants

##### 4.8.2 Progress Status of LBRV-11

The progress of DASU-LBRV-11 during this month is summarized in the following Table:

**Table 4.27: Progress of LBRV-11 this Month**

Package	Elapsed Time		Actual Work Progress Prior to this Month (%)	Work Progress of this Month		Work Progress up to this Month	
	Month	(%)		Scheduled (%)	Actual (%)	Scheduled (%)	Actual (%)
ICB No. DASU-LBRV-11	48.2	206.9	94.3	-	2.70	100.0	97.0

- The actual work progress of LBRV-11 has been updated according to the revised scope.
- Gantt chart and S-Curves of Dasu-LBRV-11 shown in Figure 20 and Figure 21

#### 4.8.3 Major Activities of LBRV-11

The following are major construction activities undertaken during this month:

##### (1) At Khoshe sites following activities are in progress.

- **Khoshe Site-01**
  - No activity
- **Khoshe Site-02**
  - No activity.

##### (2) At Uchar site following activities are in progress.

- No activity.

#### 4.8.4 Location wise Status of LBRV-11

The following Table provides information of section wise current status, current issues, possible further issues and action currently undertaken.

**Table 4.28: Location wise Status (LBRV-11)**

Sr. No.	Section/ Location	Work completed	Current Status	Current Issues	Possible Further Issues	Action Currently undertaken
1	Khoshe -1	Water tank, septic tank, anaerobic tank, stone masonry retaining walls, manholes, Mosque & Khuprail tile, and backfill of retaining wall Completed slope protection completed. PAR excavation Completed .slope protection completed. pcc road completed .sewerage work completed.	No activity			
2	Khoshe -2	Link-01, Land Development and stone masonry safety wall, RCC sewerage line is completed. Retaining wall completed.	-parapet wall construction is in progress. -Access road work is in progress. -Water supply line work is in progress		Nil	
3	Uchar 01	Site is handed over to local people except Mosque on 05 <sup>th</sup> November, 2020 Mosque grey structure and boundary wall, Sewerage line & soakage pit completed	Site hand overed		Nil	

#### 4.9 Dasu-LBRV-12: Resettlement Villages (Barseen, Nasirabad & Kaigah/Dhaar)

##### 4.9.1 General Contract Data of LBRV-12

General Contract Data of this package is summarized in the following Table.

**Table 4.29: General Contract Data of Dasu-LBRV-12**

Item	Data
Contract Number	ICB No. DASU-LBRV-12
Contract Name	Resettlement Villages (Barseen, Nasirabad & Kaigah/Dhaar)
Contractor	M/s Zhongmei Engineering Group Limited
Contract Agreement Signed	Apr 20, 2017
Commencement Date	Dec 26, 2018
Contract Price	PKR 1,016,820,466 /-
Time of Completion	364 Days
Contract Completion Date	Dec 25, 2019
Extension of Time (EOT)	N/A
Revised Completion Date as per EOT	N/A
Construction Supervision Consultant (CSC)	Dasu Hydropower Consultants

##### 4.9.2 Progress Status of LBRV-12

The progress of DASU-LBRV-12 during this month is summarized in the following Table:

**Table 4.30: Progress of LBRV-12 this Month**

Package	Elapsed Time		Actual Work Progress Prior to this Month (%)	Work Progress of this Month		Work Progress up to this Month	
	Month	(%)		Scheduled (%)	Actual (%)	Scheduled (%)	Actual (%)
ICB No. DASU-LBRV-12	48.2	215.1	96.2	-	1.80	100.0	98.0

- The actual work progress of LBRV-12 has been updated according to the revised scope.
- Gantt chart and S-Curves of Dasu-LBRV-12 shown in Figure 22 and Figure 23

##### 4.9.3 Major Activities of LBRV-12

The major construction activities undertaken during this month were:

##### (1) At Nasirabad- Site-1



- No activity

## (2) At Nasirabad- Site-2

- No activity

### 4.9.4 Location wise Status of LBRV-12

The following Table provides information of section wise current status, current issues, possible further issues and action currently undertaken.

**Table 4.31: Location wise Status (LBRV-12)**

Sr. No.	Section/ Location	Work completed	Current Status	Current Issues	Possible Further Issues	Action Currently undertaken
1	Nasirabad-1	Plot development and road completed. Septic tank completed. Stone masonry retaining wall completed. Water tank completed. Sewerage work 100% completed .mosque only door remaining. Slope protection completed, PCC road completed. Mosque completed except window glasses.	- No activity			
2	Nasirabad-2	Plots development and road completed. Stone masonry retaining wall completed. Septic tank completed .anaerobic tank completed. Pcc of road completed .mosque completed except window glasses .sewerage work completed. water supply pipes lying completed. Water supply pipes lying completed.	- No activity			

## 4.10 Dasu-PCI-01R: Construction of Project Colony and Infrastructure

### 4.10.1 General Contract Data of PCI-01R

General Contract Data of this package is summarized in the following Table.

**Table 4.32: General Contract Data of Dasu-PCI-01R**

Item	Data
Contract Number	ICB No. Dasu-PCI-01R
Contract Name	Construction of Project Colony and Infrastructure
Contractor	China Gansu International Corporation for Economic and Technical Corporation (CGICOP)
Contract Agreement Signed	Oct 18, 2018
Commencement Date	May 20, 2019
Contract Price	PKR 4,900,000,009 /-
Time of Completion	728 Days
Contract Completion Date	May 17, 2021
Extension of Time (EOT)	N/A
Revised Completion Date as per EOT	N/A
Construction Supervision Consultant (CSC)	Dasu Hydropower Consultants

### 4.10.2 Progress Status of PCI-01R

The progress of DASU- PCI-01R during this month is summarized in the following Table:

**Table 4.33: Progress of PCI-01R this Month**

Package	Elapsed Time		Actual Work Progress Prior to this Month (%)	Work Progress of this Month		Work Progress up to this Month	
	Month	(%)		Scheduled (%)	Actual (%)	Scheduled (%)	Actual (%)
ICB No. DASU-PCI-01R	43.5	104.9	57.8	-	0.70	100.0	58.5

- The actual work progress of PCI-01R has been updated according to the revised scope.
- Gantt chart and S-Curves of Dasu-PCI-01 R shown in Figure 24 and Figure 25

### 4.10.3 Major Activities of PCI-01R

The major construction activities undertaken during this month were:

- Door polishing in progress at project office building.
- Additional doors and ventilations at project office building in progress.
- Cleaning and clearing of project office in progress.
- Roof treatment at residence cat -2B, 2C and 2D units in progress.
- Marble tile fixing for floor at cat -2D is in progress.
- Boundary wall construction at residence cat -2, cat -2A & 2B in progress.
- Kuphrail tile fixing on roof of residence CAT -2B and CAT - 2C in progress.
- Manhole cover concreting at residence cat -2C in progress.
- Sand filling in kitchens and bathrooms at residence cat-2B in progress.
- Ppr and plumbing work in bath rooms at residence cat-2B, 2C and 2D in progress.
- Tile fixing in bath rooms at residence cat -2B & 2C in progress.
- Repair work is in progress at residence cat -1.
- Doors Polishing at residence cat-1 in progress.
- Cleaning works at residence cat -1 in progress.
- Block masonry at cat 3 and cat 4 is in progress.

- Plastering at residence cat -3 and residence cat-4 in progress.
- Form work and reinforcement fixing for the remaining units of cat -3D progress.
- Electrical conduiting at residence cat -3 and residence cat -4 in progress.
- Plastering at hostel cat -2A & hostel cat -2B.
- External water supply from Indus River: excavation for the retaining wall in progress.
- Excavation of trench for water supply in progress.
- Laying of water supply pipes in colony in progress.
- Conduction of pressure tests of water supply pipes in progress.
- Sluice vales construction in progress.
- Septic tank type D construction in progress.
- Block masonry of internal septic tanks at residence cat 2 c and 2D in progress.
- Lean concreting for drain along P1 road in progress.
- Construction of Manhole cap covers along P1 road in progress.
- External boundary wall: block masonry and plastering in progress.
- P1 road pavement work in progress.

#### 4.10.4 Location wise Status of PCI-01R

The following Table provides information of section wise current status, current issues, possible further issues and action currently undertaken.

**Table 4.34: Location wise Status (PCI-01R)**

Sr. No.	Section/ Location	Work completed	Current Status	Current Issues	Possible Further Issues	Action Currently undertaken
1	Project Colony at Chooch ang	<p>PROJECT OFFICE Frame structure &amp; block masonry at G.F, 1st floor, 2nd floor and mumty floor is completed. Plaster work completed. Marble, ceramic and porecelain tile work completed .Alluminuim work and glass fixing for windows completed. False ceiling completed. Internal painting completed .dome fixing completed .fan installation completed. Curtain wall completed. Lawn area paver fixing completed. Pavers at transport pool completed Doors fixing completed.</p> <p>RESIDENCE CAT-1 frame structure completed .block masonry work completed. Plaster work completed .marble fixing completed. Completed. porcelian tile fixing completed Ceramics tile fixing completed .stair marble completed. Roof treatment completed. Door fixing completed.</p> <p>RESIDENCE CAT-2: Frame structure work completed.</p> <p>RESIDENCE CAT 2. Block masonry completed and plaster work completed.</p> <p>Residence Cat-2A: Frame structure work completed.</p> <p>Residence cat 2A: block masonry work and plaster work completed. Completed.</p> <p>Residence Cat-2B: frame structure and block masonry work completed .plaster work upto 98 % completed.</p> <p>Residence Cat-2C: frame structure and block masonry completed.</p> <p>Residence Cat-2D: Frame structure and block masonry completed.</p> <p>Cat-3A: frame structure completed.</p> <p>Cat-3B: frame structure completed except part 1, 2 f/f.</p> <p>3C: ground floor slabs completed.</p> <p>Cat-3D: Footing, g/f columns &amp; RCC retaining walls completed</p> <p>Cat-4A: frame structure completed.</p> <p>4B: frame structure completed.</p> <p>Stone masonry &amp; RCC retaining walls completed.</p> <p>Cat-4C: frame structure completed except f/f slab part 1, 2 and 3.</p> <p>P1 Road-RCC retaining Wall concrete, backfilling and stone masonry parapet wall is completed.</p> <p>Community Center block masonry under plinth completed.</p>	<p>-Door polishing in progress at project office building.</p> <p>-Additional doors and ventilations at project office building in progress.</p> <p>-Cleaning and clearing of project office in progress.</p> <p>-Roof treatment at residence cat -2B, 2C and 2D units in progress.</p> <p>-Marble tile fixing for floor at cat -2D is in progress.</p> <p>-Boundry wall construction at residence cat -2, cat -2A &amp; 2B in progress.</p> <p>-Kuphrail tile fixing on roof of residence CAT -2B and CAT - 2C in progress.</p> <p>-Manhole cover concreting at residence cat -2C in progress.</p> <p>-Sand filling in kitchens and bathrooms at residence cat-2B in progress.</p> <p>-Ppr and plumbing work in bath rooms at residence cat-2B, 2C and 2D in progress.</p> <p>-Tile fixing in bath rooms at residence cat -2B &amp; 2C in progress.</p> <p>-Repair work is in progress at residence cat -1.</p> <p>-Doors Polishing at residence cat-1 in progress.</p> <p>-Cleaning works at residence cat -1 in progress.</p> <p>-Block masonry at cat 3 and cat 4 is in progress.</p> <p>-Plastering at residence cat -3 and residence cat-4 in progress.</p> <p>-Form work and reinforcment fixing for the remaining units of cat -3D progress.</p> <p>-Electrical conduiting at residence cat -3 and residence cat -4 in progress.</p> <p>-Plastering at hostel cat -2A &amp; hostel cat -2B.</p> <p>-External water supply from Indus River: excavation for the retaining wall in progress.</p> <p>-Excavation of trench for water supply in progress.</p> <p>-Laying of water supply pipes in colony in progress.</p> <p>-Conduction of pressure tests of water supply pipes in progress.</p> <p>-Sluice vales construction in progress.</p> <p>-Septic tank type D construction in progress.</p> <p>-Block masonry of internal septic tanks at residence cat 2 c and 2D in progress.</p> <p>-Lean concreting for drain along P1 road in progress.</p> <p>-Construction of Manhole cap covers along P1 road in progress.</p> <p>-External boundary wall: block masonry and plastering in progress.</p> <p>-P1 road pavement work in progress.</p>			

#### 4.11 Dasu-RV: Resettlement of Village Couching and Construction of Spatial Museum

##### 4.11.1 General Contract Data of RV

General Contract Data of this package is summarized in Table 4.3.

**Table 4.35: General Contract Data of Dasu-RV**

Item	Data
Contract Number	ICB No. Dasu-RV
Contract Name	Resettlement of Village Couching and Construction of Spatial Museum
Contractor	Khyber Grace (KGL) Pvt. Ltd.
Contract Agreement Signed	June 18, 2019
Commencement Date	June 18, 2019
Contract Price	PKR 654,815,181 /-
Time of Completion	546 Days
Contract Completion Date	Dec 15, 2020
Extension of Time (EOT)	N/A
Revised Completion Date as per EOT	N/A
Construction Supervision Consultant (CSC)	Dasu Hydropower Consultants

#### 4.11.2 Progress Status of RV

The progress of DASU- RV during this month is summarized in the following Table:

**Table 4.36: Progress of Dasu-RV this Month**

Package	Elapsed Time		Actual Work Progress Prior to this Month (%)	Work Progress of this Month		Work Progress up to this Month	
	Month	(%)		Scheduled (%)	Actual (%)	Scheduled (%)	Actual (%)
ICB No. DASU-RV	42.5	236.8	54.0	-	1.90	100.0	55.9

- Gantt chart and S-Curves of Dasu-RV shown in Figure 26 and Figure 27

#### 4.11.3 Major Activities of RV

The major construction activities undertaken during this month were:

##### (1) Additional Choochang site 1

- Site is handed over to local people.

##### (2) Choochang Site 1

- Mosque structure work is in progress.
- RCC retaining wall construction in progress.
- Bed preparation for retaining wall.

##### (3) Kuz Choochang Site Upper & Lower Portions

- Bed preparation for retaining wall.

##### (4) Choochang Site 2 & 3

- No activity

##### (5) Shatial Rock Carving Site

- Work is stopped at shatial rock carving site due to local since 20-11-2020. However, followings are the summary of activities:
- Fencing Wall Concrete Columns from Points P2 to P3 is in progress.
- Installation of GI Post dia 75mm along river side is completed.
- Stone pitching of parking area is in progress.
- Super structure work above plinth beam for staff residence building in progress

#### 4.11.4 Location wise Status of Dasu RV

The following Table provides information of section wise current status, current issues, possible further issues and action currently undertaken.

**Table 4.37: Location wise Status (DASU-RV)**

Sr. No.	Section/ Location	Work completed	Current Status	Current Issues	Possible Further Issues	Action Currently undertaken
1	Shatial Rock Carving	Stone masonry of road retaining wall (P1-P2), (P2-P3), (P3-P4) is completed.	No activity.	Work stop due to social issue	-	Employer will take action on this.
2	Additional Choochang	Handed over to Local community on 5 <sup>th</sup> November, 2020 Stone masonry & back filling of retaining wall at lower side of septic tank is completed	No activity.	Nil	Nil	Nil
3	Choochang-1	Excavation of Brest wall for slope protection, excavation of Relocated plots, retaining wall and excavation of Mosque retaining wall is completed.	-Mosque structure work is in progress. -RCC retaining wall construction in progress. -Bed preparation for retaining wall.	Punch list work is remaining.	Nil	Nil
4	Choochang-2	Nil	Not yet started	Work stopped due to non-availability of Access road land.	Access is required	Nil
5	Choochang-3	Nil	Not yet started	Work stopped due to non-availability of Access road land.	Access is required	Nil
6	KUZ Choochang	Excavation for plot is completed at lower Kuz Choochang	-Bed preparation for retaining wall.	Nil	Nil	PAR is decided and Layout drawing

Sr. No.	Section/ Location	Work completed	Current Status	Current Issues	Possible Further Issues	Action Currently undertaken
	lower portion & upper portion					issued to the Contractor for the shop drawing

#### 4.12 Dasu-EM-01: Procurement of Plant of Plant Design, Supply, Installation, Testing & Commissioning Hydro-Mechanical and Electrical Equipment.

##### 4.12.1 General Contract Data of EM-01

General Contract Data of this package is summarized in the following Table.

**Table 4.38: General Contract Data of Dasu-EM-01**

Item	Data
Contract Number	ICB No. Dasu-EM-01
Contract Name	Procurement of Plant of Plant Design, Supply, Installation, Testing & Commissioning Hydro-Mechanical and Electrical Equipment.
Contractor	G.E Hydro China Co. Ltd. & Power China Zhongnan Engineering Corporation Ltd. Joint Venture (GE-PC JV)
Contract Agreement Signed	Nov 25, 2019
Commencement Date	May 20, 2020
Contract Price	PKR 25,471,001,920/- US\$ 243,984,000/-
Time of Completion	1,856 Days
Contract Completion Date	Jun 19, 2025
Extension of Time (EOT)	N/A
Revised Completion Date as per EOT	N/A
Construction Supervision Consultant (CSC)	Dasu Hydropower Consultants

##### 4.12.2 Progress Status of EM-01

The progress of DASU- PCI-01R during this month is summarized in the following Table:

**Table 4.39: Progress of EM-01 this Month**

Package	Elapsed Time		Actual Work Progress Prior to this Month (%)	Work Progress of this Month		Work Progress up to this Month	
	Month	(%)		Scheduled (%)	Actual (%)	Scheduled (%)	Actual (%)
ICB No. DASU-EM-01	31.4	51.5	5.4	2.00	0.50	14.7	5.9

- Gantt chart and S-Curves of Dasu-EM-01 shown in Figure 28 and Figure 29

##### 4.12.3 Major Activities of EM-01 (Civil Works)

###### 4.12.3.1 Civil Works

###### (1) Excavation:

- No Excavation was done up to 25<sup>th</sup> of December 2022 for Terraces.

###### (2) Boundary Wall:

- Excavation completed: CP5 TO CP6 (Side boundary wall)
- Lean concrete completed: CP5 TO CP6 (Side boundary wall)
- Stone foundation for wall: CP5 TO CP6 was completed (Dec.2022)
- Block masonry in progress: CP5 TO CP6 was in progress (Dec.2022)

###### (3) Retaining Walls: (Dec.2022)

- Terrace # 02 Retaining wall was in progress.
- Terrace # 04 Retaining wall was in progress.
- Terrace # 07 Retaining wall was in progress.
- Terrace # 08 Retaining wall was in progress.
- Terrace # 10 Retaining was in Progress.

###### (4) Backfilling by layer Including Cut and Fill Quantities.

Location	Total Cut Volume M <sup>3</sup>	Total Fill Volume M <sup>3</sup>	Total Cut Volume M <sup>3</sup> Up to August	Total Fill Volume M <sup>3</sup> Up to August	Completed Cut Volume M <sup>3</sup> (August 2022)	Completed Fill Volume M <sup>3</sup> August 2022	Cut (%)	Fill (%)
Kass Camp/Civil Work	89,441.9	58,176	63750.05	57580	3523.00	6447.00	71.2	98.9

There is a 72% difference in the current volumetric cut and fill. (71.2 / 98.9) (August 2022).

###### (5) FDT Tests.

FDT TEST RESULTS			
S.NO.	LOCATION	DATE	RESULT %
Nil	Nil	Nil	Nil

**Backfilling yet to be done.**

The landowners/locals people agreed for the resumption of work on 29th November 2022 after work suspension on 10th of August 2022.

**4.12.3.2 Preparatory Works**

The landowners/locals people agreed for the resumption of work on 29th November 2022 after work suspension on 10th of August 2022.

- Land was handed over on the 9th of April 2022.
- Excavation/Cutting of Terrace #11 was in progress (up to August 10<sup>th</sup>, 2022).
- Backfilling/filling of Terrace # 8 was Completed on 4<sup>th</sup> of August 2022.
- Excavation and Leveling of Terrace #12 was Completed on 5<sup>th</sup> of August 2022.
- Access Road to Camp Area: Surface Excavation Completed.
- Excavation and leveling of Terrace #7&6, was Completed.



**(1) Equipment Detail**

S/No.	Description	Type	Quantity
1	Excavator Volvo	Tyre	01
2	Excavator Hitachi	Chain	02
4	Dozer	Chain	01
5	Roller (small)	Tyre	01
6	Tractor	Tyre	02
7	Dumper	Vehicle	01
8	Water Bowser	Tyre	02
9	Concrete Mixer	Automated	02
10	Pick up	Suzuki	02
11	Car	Corolla	01
12	Total Station	Nikon	01

**(2) Workforce**

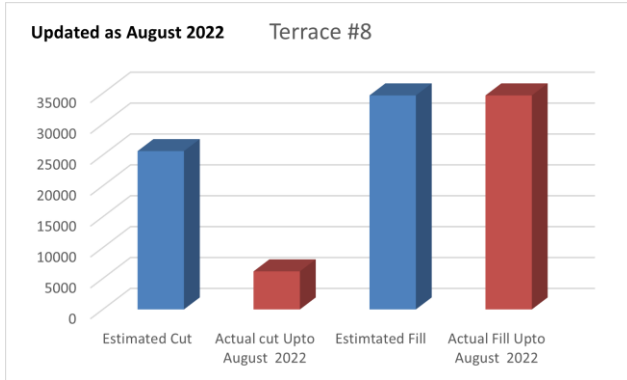
B	Manpower	
1	Site Manager	01
2	Civil Engineer	03
3	Site Supervisor	01
4	Surveyor	01
5	Survey Assistant	01
6	Excavator Operator	04
7	Excavator Operator Helper	03
8	Roller Operator	01
9	Dozer Operator	01
10	Driver	04
11	Skilled Labor	15

12	Unskilled Labor	25
13	Watchman	04

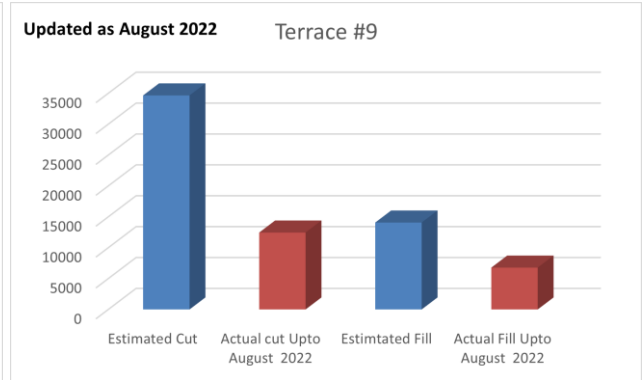
The landowners/locals people agreed for the resumption of work on 29th November 2022 after work suspension on 10<sup>th</sup> of August 2022

#### 4.12.4 Graphs

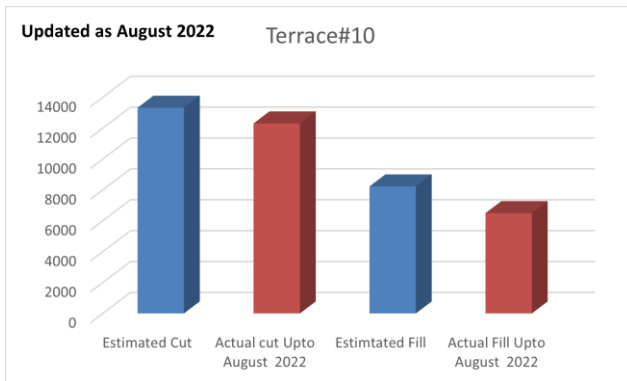
The landowners/locals people agreed for the resumption of work on 29<sup>th</sup> November 2022 after work suspension on 10<sup>th</sup> of August 2022.



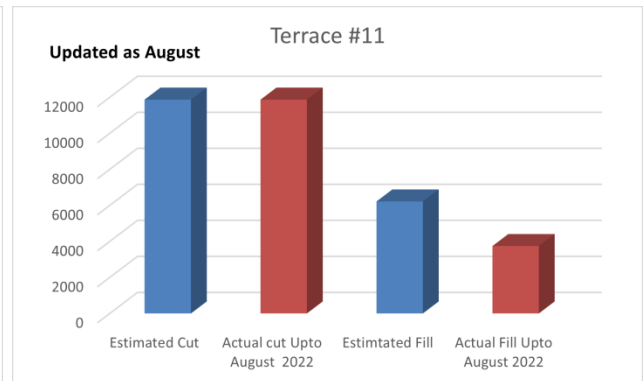
**Figure: Terrace # 8**



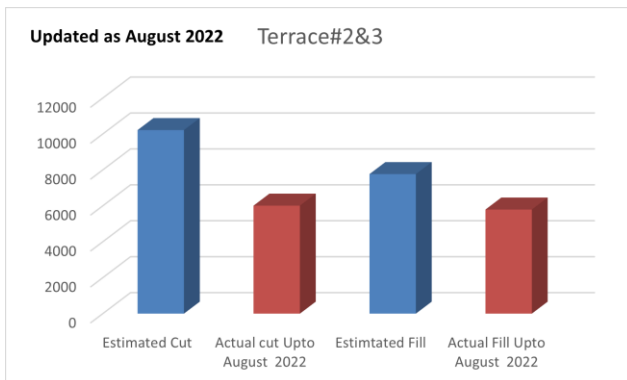
**Figure: Terrace # 9**



**Figure: Terrace # 10**



**Figure: Terrace # 11**



**Figure: Terrace # 2&3**

## 5 PAYMENT AND CLAIM STATUS

### 5.1 DHC Payment Status

Status of DHC Invoices submitted and payment received from WAPDA up to this month is given table below:



Status of Invoices Submitted and Payments Received From WAPDA										
Total Contract Amount			Submitted To Wapda			Payments Received From WAPDA *				
			JPY	EURO	PKR					
			3,765,402,844	8,628,983.85	2,726,702,454					
Sr. No.	Inv. No.	Description	Date	JPY	EURO	PKR	Date	JPY	EURO	PKR
1		Mobilization Advance		0	0	0	10.04.2015	284,715,484	777,495	167,799,158
2	001	Aug-14	06.03.2015	8,405,708	150	16,562,851		0	0	0
3	002	Sep-14	06.03.2015	11,922,037	150	18,508,898		0	0	0
4	003	Oct-14	06.03.2015	22,629,091	150	18,580,716		0	0	0
5	004	Nov-14	16.03.2015	27,598,424	29,849	27,713,464		0	0	0
6	005	Dec-14	18.03.2015	25,234,974	28,994	20,594,485		0	0	0
7	006	Jan-15	24.03.2015	12,711,871	16,375	29,801,646		0	0	0
8	007	Feb-15	30.03.2015	12,841,559	32,919	19,037,857		0	0	0
9	008	Mar-15	19.06.2015	21,055,679	44,401	29,446,228		0	0	0
10	009	Apr-15	19.06.2015	26,370,102	22,116	25,287,607		0	0	0
11	010	May-15	19.06.2015	19,567,111	45,421	28,157,418		0	0	0
12	011	Jun-15	27.07.2015	18,599,162	57,684	29,568,830		0	0	0
13	012	Jul-15	20.08.2015	11,939,864	39,018	28,833,478		0	0	0
14	013	Aug-15	23.09.2015	11,447,313	66,020	34,179,554		0	0	0
15	014	Sep-15	20.10.2015	15,648,775	61,828	29,842,901		0	0	0
16	015	Oct-15	23.11.2015	18,420,095	57,607	53,248,321	29.02.2016	0	0	5,751,295
17	016	Nov-15	21.12.2015	23,367,864	53,589	29,564,237	03.02.2016	0	0	9,211,398
18	017	Dec-15	25.01.2016	18,530,461	43,902	29,012,517	29.02.2016	0	0	9,475,900
19	018	Jan-16	26.02.2016	23,422,910	59,880	46,873,375	28.03.2016	0	0	13,388,161
20	018-R**	From Aug 2014 to Dec 2015	24.03.2016	0	0	40,964,475	12.04.2016	0	0	15,759,401
21	019	Feb-16	31.03.2016	20,078,687	48,599	28,361,112	18.05.2016	0	0	10,076,078
22	019-R***	From Aug 2014 to Jan 2016	07.04.2016	0	0	12,023,529	18.05.2016	0	0	1,481,194
23	020	Mar-16	22.04.2016 Resubmitted on 30.06.2016	23,432,735	58,393	25,971,654	19.07.2016	0	0	12,581,502
24	021	Apr-16	20.05.2016 Resubmitted on 28.07.2016	18,431,384	58,223	24,185,560	08.09.2016	0	0	14,436,817
25	022	May-16	20.06.2016 & PKR resubmitted on 22/09/2016	17,749,931	43,655	30,528,705	07.10.2016 & JPY & EURO 27.02.2017	7,057,385	0	19,625,266
26	Final Supplementary Invoice	For the month of July 2013, June 2014 & July 2014 Assignment-A	29.06.2016	3,818,324	2,742		JPY 27.12.2016 & EURO 03.01.2017	2,432,327	1,717	
27	Final Supplementary Invoice	From Sep 2011 to July 2014 Assignment-A	11.07.2016			47,341,439	23.11.2016	0	0	14,855,888
28	023	Jun-16	26.07.2016 & PKR submitted on 09/09/2016	19,139,749	36,433	27,473,100	11.11.2016 & JPY & EURO 27.02.2017	14,345,806	0	17,670,947
29	Arrears of Escalation	From Oct 2015 to Apr 2016	28.07.2016	0	0	1,355,438	07.10.2016	0	0	413,116
30	024	Jul-16	24.08.2016 & PKR submitted on 31/10/2016	20,944,715	61,067	24,665,984	30.12.2016 & JPY & EURO 27.02.2017	16,193,143		15,846,067
31	025	Aug-16	28.09.2016 & PKR Submitted on 19/12/2016	28,898,700	59,162	21,740,830	06.03.2017 & JPY & EURO 27.02.2017	22,370,210	15,264	18,538,901
32	026	Sep-16	25.10.2016 & PKR Submitted on 12.01.2017	20,457,552	33,105	32,972,027	06.03.2017 & JPY & EURO 27.02.2017	15,933,806	25,748	29,723,302
33	027	Oct-16	06.12.2016 & PKR 14.02.2017	14,676,229	56,107	22,391,491	JPY & EURO 27.02.2017 & PKR 10.04.2017	11,298,749	44,624	17,951,057
34	028	Nov-16	12.01.2017 & PKR Submitted on 22.03.2017	17,010,852	52,349	22,566,949	JPY 03.04.2017 & EURO 20.04.2017 & PKR 24.04.2017	13,561,713	41,752	17,202,754
35	001S to 005S	From Aug 2014 to Dec 2014	17.01.2017	35,021,686	16,190	50,871,653	19.06.2017 & Remuneration JPY 19.01.2018	9,296,144		25,721,225
36	006S to 011S	From Jan 2015 to Jun 2015	23.01.2017 & JPY & EURO on 24.01.2017	36,756,702	69,748	85,353,118	PKR Remuneration 19.06.2017 & PKR Reimbursable 27.07.2017 & Remuneration JPY 19.01.2018 & EURO Remuneration 29.01.2018	6,660,958	10,515	52,016,281
37	PST	Claimed PST Withheld from Assignment-B Invoices from Aug 2014 to Jul 2016	03.02.2017			61,313,933	17.01.2017 & 13.02.2017			61,313,933
38	012S to 017S	From Jul 2015 to Dec 2015	JPY & EURO 03.02.2017 & PKR 06.02.2017	36,713,717	83,680	93,151,635	PKR Reimbursable 27.07.2017 & Remuneration JPY 19.01.2018 & PKR Remuneration 15.11.2018	10,508,656		54,091,709
39	PST	Claimed PST withheld from Assignment-A Invoices	03.02.2017			5,399,488	PKR Remuneration & Reimbursable 04.02.2019			4,927,884
40	029	Dec-16	09.02.2017 & PKR 18.04.2017	9,687,563	45,912	24,460,842	JPY 03.04.2017 & EURO 20.04.2017 & PKR 17.05.2017	7,767,335	37,719	17,535,952
41	018S to 026S	From Jan 2016 to Sept 2016	22.02.2017 & PKR 13.04.2017	53,959,508	118,420	72,655,226	Jan 2016 & Feb 2016 PKR Reimbursable 19.10.2017 & Remuneration JPY 19.01.2018 & PKR Reimbursable 15.11.2018 & PKR Remuneration (Arrears of Escalation) 15.11.2018 & PKR Remuneration 11.04.2019	3,249,301		21,244,401
42	030	Jan-17	13.03.2017 & PKR 09.06.2017	11,265,956	43,684	27,832,378	JPY 10.04.2017 & EURO 24.04.2017 & PKR 17.07.2017	8,584,183	35,142	23,123,731
43	031	Feb-17	28.04.2017 & PKR 29.06.2017	11,051,050	54,667	24,625,784	07.06.2017 & 08.06.2017 & PKR Remuneration 27.07.2017 & PKR Reimbursable 06.09.2017	8,685,804	43,511	18,200,721
44		Topographical Survey & Geological Investigations & Tax on Reimbursable Assignment-A	03.05.2017			13,642,099				
45	032	Mar-17	11.05.2017 & PKR 19.07.2017	15,970,258	51,375	25,592,856	07.06.2017 & 08.06.2017 & PKR Remuneration 06.09.2017 & PKR Reimbursable 28.11.2017	12,524,914	41,337	18,351,490
46	033	Apr-17	01.06.2017 & PKR 23.08.2017	12,781,338	26,299	26,070,330	JPY 17.08.2017 & EURO 28.08.2017 & PKR Remuneration 19.10.2017 & PKR Reimbursable 21.12.2017	10,404,229	21,503	18,834,526
47	034	May-17	EURO 23.06.2017 & JPY 29.06.2017 & PKR Remuneration 14.09.2017 & PKR Reimbursable 18.09.2017	39,936,930	55,715	27,133,610	Remuneration JPY 17.08.2017 & EURO 28.08.2017 & Remuneration PKR 14.11.2017 & Reimbursable PKR 28.11.2017 & Reimbursable	32,079,999	44,725	18,701,410



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										JPY 19.01.2018 & EURO Reimbursable 29.01.2018			
48	035	Jun-17	11.08.2017 & PKR 09.10.2017	18,594,227	48,854	28,277,373				PKR Remuneration 21.12.2017 & PKR Reimbursable 24.01.2018 & JPY & EURO 07.03.2018	14,869,448	39,543	17,561,796
49	036	Jul-17	13.09.2017 & PKR 06.11.2017	18,438,264	37,553	25,611,161				PKR Remuneration 21.12.2017 & Remuneration JPY 19.01.2018 & PKR Reimbursable 24.01.2018 & EURO Remuneration 29.01.2018 & JPY & EURO Reimbursable 07.03.2018	13,544,246	30,480	15,695,688
50	037	Aug-17	05.10.2017 & PKR Remuneration 06.12.2017 & PKR Reimbursable 07.12.2017	22,283,721	39,071	26,800,350				Remuneration JPY 19.01.2018 & PKR Remuneration 24.01.2018 & EURO Remuneration 29.01.2018 & JPY & EURO Reimbursable 07.03.2018 & PKR Reimbursable 07.03.2018.	13,524,337	31,475	13,785,805
51	038	Sep-17	30.11.2017 & PKR 11.12.2017	25,275,450	55,319	36,272,828				PKR Remuneration 24.01.2018 & JPY Remuneration 02.02.2018 & EURO Remuneration 06.02.2018 & JPY & EURO Reimbursable 07.03.2018 & PKR Reimbursable 07.03.2018.	16,737,519	39,192	29,029,316
52	039	Oct-17	18.12.2017 & PKR Remuneration 12.01.2018 & PKR Reimbursable 26.01.2018	30,965,060	48,541	24,755,246				JPY & EURO 07.03.2018 & PKR 07.03.2018	21,993,304	22,394	15,289,782
53	040	Nov-17	28.12.2017 & PKR Remuneration 02.02.2018 & Reimbursable 07.02.2018	24,890,298	41,738	24,452,117				JPY & EURO 07.03.2018 & PKR 27.03.2018	17,614,630	21,997	15,454,332
54	041	Dec-17	26.01.2018 & PKR Remuneration 06.03.2018 & Reimbursable 30.03.2018	26,066,347	76,887	40,807,244				JPY & EURO 07.03.2018 & PKR 25.05.2018	16,523,377	39,755	32,281,427
55	042	Jan-18	23.02.2018 & PKR Remuneration 13.03.2018 & Reimbursable 23.04.2018	24,236,376	63,218	58,859,377				JPY 26.03.2018 & EURO 27.03.2018 & PKR Remuneration 25.05.2018 & PKR Reimbursable 21.06.2018	14,993,551	35,810	17,564,044
56	043	Feb-18	30.03.2018 & PKR Remuneration 19.04.2018 & Reimbursable 21.05.2018	28,152,289	54,667	28,490,928				JPY 23.05.2018 & EURO 24.05.2018 & PKR Remuneration 21.06.2018 & PKR Reimbursable 18.07.2018	19,670,980	43,511	17,650,847
57	044	Mar-18	PKR Remuneration 25.04.2018 & JPY & EURO 30.04.2018 & PKR Reimbursable 30.05.2018	36,295,537	52,761	29,253,565				JPY 19.06.2018 & EURO 20.06.2018 & PKR Remuneration 21.06.2018 & PKR Reimbursable 13.08.2018	25,775,591	42,328	16,065,238
58	045	Apr-18	PKR Remuneration 01.06.2018 & JPY & EURO 14.06.2018 & PKR Reimbursable 16.07.2018	32,505,357	52,709	35,840,584				PKR Remuneration 18.07.2018 & JPY 30.07.2018 & EURO 31.07.2018 & PKR Reimbursable 10.09.2018	21,316,744	42,276	21,301,930
59	025S to 029S	From Aug 2016 to Dec 2016 Supplementary	PKR Reimbursable 22.06.2018			1,275,354				PKR Reimbursable 15.11.2018			1,151,599
60	030S to 035S	From Jan 2017 to Jun 2017 Supplementary	PKR Reimbursable 22.06.2018			22,576,668				PKR Reimbursable 20.02.2019			20,675,144
61	036S to 041S	From Jul 2017 to Dec 2017 Supplementary	PKR Reimbursable 22.06.2018			11,466,211				PKR Reimbursable 20.02.2019			11,043,683
62	046	May-18	PKR Remuneration 25.06.2018 & JPY & EURO 06.07.2018 & PKR Reimbursable 27.07.2018	32,008,847	46,592	30,724,047				PKR Remuneration & Reimbursable 10.09.2018 & JPY 13.09.2018 & EURO 14.09.2018	21,610,245	37,674	12,938,115
63	047	Jun-18	JPY & EURO 06.08.2018 & PKR Remuneration 07.08.2018 & PKR Reimbursable 31.08.2018	35,266,862	55,283	28,514,236				JPY & EURO 26.09.2018 & PKR Remuneration & Reimbursable 16.10.2018	25,217,683	44,127	10,704,248
64	048	Jul-18	PKR Remuneration 30.08.2018 & JPY & EURO 05.09.2018 & PKR Reimbursable 09.10.2018	32,147,418	45,864	31,146,584				PKR Remuneration 16.10.2018 & PKR Reimbursable 11.12.2018 & JPY & EURO 17.12.2018	21,964,368	37,099	10,408,872
65	049	Aug-18	JPY & EURO 25.09.2018 & PKR Remuneration 11.10.2018 & PKR Reimbursable 07.11.2018	25,432,383	39,014	29,369,478				PKR Remuneration 15.11.2018 & JPY & EURO 17.12.2018 & PKR Reimbursable 18.01.2019	17,212,308	31,374	11,224,532
66	050	Sep-18	JPY & EURO 08.11.2018 & PKR Remuneration 08.11.2018 & PKR Reimbursable 11.12.2018	39,850,521	53,658	28,933,129				PKR Remuneration 11.12.2018 & JPY & EURO 17.01.2019 & PKR Reimbursable 18.01.2019	30,044,462	43,062	10,047,290
67	025S to 031S	From Oct 2016 to Apr 2017 Supplementary	PKR Remuneration 14.11.2018 & JPY 13.12.2018 & JPY resubmitted on 24.04.2019	1,116,215		8,259,285				PKR Remuneration 11.04.2019 & JPY 17.07.2019	802,442		6,175,779
68	034S to 041S	From May 2017 to Dec 2017 Supplementary	PKR Remuneration 14.11.2018 & JPY & EURO 13.12.2018 & JPY & EURO resubmitted on 25.04.2019	22,029,176	68,384	23,991,175				PKR Remuneration 11.12.2018 & JPY & EURO 17.07.2019	17,327,640	55,071	18,445,696
69	040S to 048S	From Nov 2017 to Jul 2018 Supplementary	PKR Remuneration & Reimbursable 20.11.2018 & JPY & EURO 13.12.2018 & PKR resubmitted on 28.03.2019. JPY & EURO resubmitted on 07.05.2019.	25,644,843	18,643	104,355,765				PKR Reimbursable 29.05.2019 & PKR Remuneration 02.07.2019 & JPY & EURO 17.07.2019	19,999,819	15,119	84,652,061
70	Arrears of Escalation	From Oct 2017 to May 2018	PKR Remuneration 23.11.2018			4,035,216				PKR Arrears of Escalation 11.04.2019			1,271,759
71	051	Oct-18	JPY & EURO 04.12.2018 & PKR Remuneration 19.12.2018 & Reimbursable 31.01.2019	40,454,707	75,582	31,586,089				JPY & EURO 17.01.2019 & PKR Remuneration 20.02.2019 & PKR Reimbursable 14.03.2019	28,889,800	61,067	10,333,221
72	052	Nov-18	JPY & EURO 01.01.2019 & PKR Remuneration 02.01.2019 & Reimbursable 08.02.2019	41,317,140	85,200	29,612,815				PKR Remuneration 20.02.2019 & JPY 28.02.2019 & EURO 01.03.2019 & PKR Reimbursable 14.03.2019	29,887,757	49,817	9,027,308
73	Arrears of Escalation	Oct-18	PKR Remuneration 11.01.2019			739,718				PKR Arrears of Escalation 14.05.2019			154,889
74	053	Dec-18	PKR Remuneration 15.01.2019 JPY & EURO 11.02.2019 & PKR Reimbursable 26.03.2019	31,942,910	101,849	32,553,105				JPY 26.03.2019 & EURO 27.03.2019 & PKR Remuneration 11.04.2019 & PKR Reimbursable 14.05.2019.	22,385,178	59,806	20,237,682
75	054	Jan-19	PKR Remuneration 19.02.2019 JPY & EURO 26.02.2019 & PKR Reimbursable 10.05.2019	21,550,814	85,536	34,254,443				PKR Remuneration 14.03.2019 & JPY 26.03.2019 & EURO 27.03.2019 & PKR Reimbursable 25.07.2019.	17,201,786	53,092	21,134,328
76	055	Feb-19	PKR Remuneration 04.04.2019 & JPY & EURO 09.04.2019 & PKR Reimbursable 22.05.2019	33,275,362	109,185	30,115,175				JPY 10.05.2019 & EURO 13.05.2019 & PKR Remuneration 14.05.2019 & PKR Reimbursable 25.07.2019.	26,050,980	86,872	26,465,134
77	049S to 052S & 054S	From Aug 2018 to Nov 2018 & Jan 2019 Supplementary	PKR Remuneration 11.04.2019 PKR & Reimbursable 15.04.2019 & JPY & EURO 29.05.2019.	22,845,819	50,546	95,850,188				PKR Remuneration 29.05.2019 & JPY & EURO 17.07.2019 & PKR Reimbursable 05.08.2019	18,077,618	40,589	82,621,973

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78	056	Mar-19	PKR Remuneration 30.04.2019 & JPY & EURO 15.05.2019 & PKR Reimbursable 27.06.2019	28,469,007	110,927	32,011,879	PKR Remuneration 02.07.2019 & JPY & EURO 17.07.2019 & PKR Reimbursable 05.08.2019	21,481,129	88,781	28,304,851
79	057	Apr-19	PKR Remuneration 24.05.2019 & JPY & EURO 17.06.2019 & PKR Reimbursable 12.07.2019	32,083,700	100,912	45,226,298	PKR Remuneration 05.08.2019 & PKR Reimbursable 18.09.2019	25,621,145	80,992	35,201,624
80	058	May-19	PKR Remuneration 29.06.2019 & JPY & EURO 09.07.2019 & PKR Reimbursable 19.07.2019	48,913,348	104,280	40,084,902	PKR Remuneration 05.08.2019 & JPY & EURO 07.08.2019 & PKR Reimbursable 31.10.2019	38,792,523	84,037	36,049,192
81	059	Jun-19	PKR Remuneration 26.07.2019 & PKR Reimbursable 05.08.2019 & JPY & EURO 11.09.2019	41,230,758	107,592	35,881,227	PKR Remuneration 18.09.2019 & PKR Reimbursable 31.10.2019 & JPY & EURO 21.11.2019	31,909,521	76,287	31,366,838
82	Arrears of Escalation	Oct-2018 Supplementary	PKR Remuneration 19.08.2019			538,449	PKR Remuneration 31.10.2019			414,169
83	060	Jul-19	PKR Remuneration 06.09.2019 & JPY & EURO 17.09.2019 & PKR Reimbursable 25.09.2019	41,502,491	140,944	50,840,724	PKR Remuneration 31.10.2019 & JPY & EURO 21.11.2019 & PKR Reimbursable 03.12.2019	31,563,206	90,943	43,128,562
84	053S	Dec-2018 Supplementary	PKR Remuneration 30.09.2019			11,476,907	PKR Remuneration 03.12.2019			8,799,116
85	061	Aug-19	PKR Remuneration 30.09.2019 & JPY & EURO 23.10.2019 & PKR Reimbursable 26.10.2019	37,231,310	89,562	42,727,013	PKR Remuneration 03.12.2019 & JPY & EURO Remuneration 09.01.2020 & PKR Reimbursable 07.02.2020 & JPY & EURO Reimbursable 28.02.2020	29,041,127	73,021	35,430,131
86	062	Sep-19	PKR Remuneration 13.11.2019 & JPY & EURO 21.11.2019 & PKR Reimbursable 29.11.2019	38,733,736	129,812	43,387,882	PKR Remuneration 14.02.2020 & JPY & EURO 28.02.2020 & PKR Reimbursable 01.04.2020	30,883,076	103,716	34,600,721
87	063	Oct-19	PKR Remuneration 29.11.2019 & JPY & EURO 03.12.2019 & PKR Reimbursable 31.12.2019	31,086,208	135,856	50,181,714	PKR Remuneration 24.02.2020 & JPY & EURO 28.02.2020 & PKR Reimbursable 01.04.2020	24,793,910	108,677	41,393,909
88	054S to 060S	From Jan 2019 to Jul 2019 Supplementary	JPY & EURO 09.12.2019	5,092,138	60,974		Reimbursable JPY 28.04.2020 & Reimbursable EURO 30.04.2020 & JPY & EURO Remuneration 15.05.2020	3,353,531	49,458	
89	064	Nov-19	PKR Remuneration 20.12.2019 & JPY & EURO 07.01.2020 & PKR Reimbursable 10.01.2020	45,807,870	115,222	43,571,960	JPY & EURO 28.02.2020 & PKR Remuneration 18.03.2020 & PKR Reimbursable 04.05.2020	36,488,385	94,006	34,852,280
90	065	Dec-19	PKR Remuneration 23.01.2020 & JPY & EURO 29.01.2020 & PKR Reimbursable 10.03.2020	40,957,503	141,050	58,976,694	JPY & EURO 11.03.2020 & PKR Remuneration 08.04.2020 & PKR Reimbursable 10.06.2020	32,462,083	113,144	50,261,213
91	Arrears of Escalation	From Oct 2019 to Nov 2019	PKR Remuneration 31.01.2020			5,266,917	PKR Arrears of Escalation 14.04.2020			4,044,354
92	066	Jan-20	PKR Remuneration 24.02.2020 & JPY & EURO 09.03.2020 & PKR Reimbursable 27.04.2020	35,922,505	146,378	52,379,808	PKR Remuneration 02.04.2020 & JPY & EURO 15.05.2020 & PKR Reimbursable 06.07.2020	28,616,260	117,384	46,172,804
93	067	Feb-20	PKR Remuneration 18.03.2020 & JPY & EURO 07.04.2020 & PKR Reimbursable 09.06.2020	38,743,766	158,284	50,877,843	PKR Remuneration 04.05.2020 & JPY & EURO 25.06.2020 & PKR Reimbursable 03.08.2020	28,986,611	126,019	44,233,452
94	068	Mar-20	PKR Remuneration 28.04.2020 & JPY & EURO 05.05.2020 & PKR Reimbursable 15.07.2020	45,523,859	160,795	56,498,786	JPY & EURO 02.07.2020 & PKR Remuneration 03.08.2020 & PKR Reimbursable 02.11.2020	33,489,540	123,560	49,674,390
95	069	Apr-20	PKR Remuneration 22.06.2020 & JPY & EURO 07.07.2020 & PKR Reimbursable 25.08.2020	36,087,897	165,010	52,033,891	PKR Remuneration 03.08.2020 JPY 07.08.2020 & EURO 10.08.2020 & PKR Reimbursable 02.11.2020	26,950,173	131,521	45,136,180
96	070	May-20	PKR Remuneration 23.06.2020 & JPY & EURO 08.07.2020 & PKR Reimbursable 10.09.2020	29,407,988	165,664	51,755,642	PKR Remuneration 17.09.2020 & JPY 28.09.2020 & EURO 25.09.2020 & PKR Reimbursable 28.10.2020	21,116,812	89,725	43,199,160
97	071	Jun-20	PKR Remuneration 19.08.2020 & JPY & EURO 21.08.2020 & PKR Reimbursable 29.09.2020 resubmitted on 15.12.2020	32,122,120	165,190	49,538,690	PKR Remuneration 02.11.2020 & JPY & EURO 02.12.2020 & PKR Reimbursable 20.01.2021	25,263,288	131,721	40,122,417
98	072	Jul-20	PKR Remuneration 31.08.2020 & JPY & EURO 08.09.2020 & PKR Reimbursable 23.10.2020 resubmitted on 15.12.2020	32,771,320	103,073	56,796,363	PKR Remuneration 02.11.2020 & JPY & EURO 17.12.2020 & PKR Reimbursable 24.02.2021	25,931,960	84,063	44,997,291
99	073	Aug-20	PKR Remuneration 25.09.2020 & JPY & EURO 30.09.2020 & PKR Reimbursable 31.12.2020	34,054,161	121,793	55,615,127	PKR Remuneration 28.10.2020 & JPY & EURO 17.12.2020 & PKR Reimbursable 08.03.2021	26,896,979	98,976	46,537,554
100	074	Sep-20	PKR Remuneration 19.10.2020 & JPY & EURO 21.10.2020 & PKR Reimbursable 08.02.2021 resubmitted on 25.03.2021	38,528,252	165,010	56,635,346	JPY & EURO 17.12.2020 & PKR Remuneration 21.12.2020 & PKR Reimbursable 03.05.2021	30,758,356	131,541	49,292,375
101	061S to 070S	From Aug 2019 to May 2020 Supplementary	JPY & EURO 28.10.2020	11,647,508	59,527		JPY 19.02.2021 & EURO 17.02.2021	9,190,079	48,749	
102	075	Oct-20	PKR Remuneration 13.11.2020 & JPY 27.11.2020 & EURO 19.11.2020 & PKR Reimbursable 19.03.2021	45,952,237	160,742	53,295,719	PKR Remuneration 07.01.2021 & JPY & EURO 12.01.2021 & PKR Reimbursable 20.05.2021	34,606,197	128,533	46,509,885
103	076	Nov-20	PKR Remuneration 21.12.2020 & JPY & EURO 28.12.2020 & PKR Reimbursable 13.04.2021	55,457,397	117,756	59,839,602	PKR Remuneration 20.01.2021 & JPY 26.04.2021 & EURO 24.05.2021 & PKR Reimbursable 31.05.2021	40,049,051	97,432	53,069,623
104	01S to 05S & 08S	From Aug 2014 to Dec 2014 & Mar 2015 177-M Supplementary	PKR Reimbursable 04.01.2021			1,735,825				
105	077	Dec-20	PKR Remuneration 20.01.2021 & JPY & EURO 04.02.2021 & PKR Reimbursable 15.04.2021	53,686,285	134,364	61,213,773	PKR Remuneration 24.02.2021 & JPY 26.04.2021 & EURO 24.05.2021 & PKR Reimbursable 30.06.2021	38,693,932	109,080	53,872,497
106	Arrears of Escalation	From Oct 2020 to Nov 2020	PKR Remuneration 08.02.2021			4,367,028	PKR Arrears of Escalation 29.03.2021			3,357,254
107	059S to 065S	From Jun 2019 to Dec 2019 Supplementary	PKR Remuneration 26.02.2021			13,201,527	PKR Remuneration 26.04.2021			10,306,734
108	066S to 074S	From Jan 2020 to Sep 2020 Supplementary	PKR Remuneration 02.03.2021			12,219,301	PKR Remuneration 26.04.2021			9,533,351
109	I.Tax-REIMB-001	From Aug 2014 to Jul 2016	PKR Reimbursable 06.04.2021			7,677,758				
110	078	Jan-21	PKR Remuneration 26.07.2021 & JPY & EURO 27.07.2021 & PKR Reimbursable 27.07.2021	48,993,921	156,846	61,580,382	PKR Remuneration 12.08.2021 & PKR Reimbursable 10.09.2021 & JPY & EURO 13.09.2021	39,022,205	126,910	53,961,613
111	079	Feb-21	PKR Remuneration 28.07.2021 & PKR Reimbursable 28.07.2021 & JPY & EURO 02.08.2021	39,842,807	156,803	61,119,247	PKR Remuneration 10.09.2021 & PKR Reimbursable 24.09.2021 & JPY & EURO 08.10.2021	31,550,549	126,898	53,919,977
112	080	Mar-21	PKR Remuneration 02.08.2021 & JPY & EURO 02.08.2021 & PKR Reimbursable 02.08.2021	46,933,791	117,735	60,828,467	PKR Remuneration 24.09.2021 & JPY & EURO 08.10.2021 & PKR Reimbursable 15.10.2021	37,273,926	94,772	53,809,689

113	081	Apr-21	PKR Remuneration 02.08.2021 & JPY & EURO 03.08.2021 & PKR Reimbursable 02.08.2021	50,360,981	135,755	61,848,229	JPY & EURO 08.10.2021 & PKR Remuneration 15.10.2021 & PKR Reimbursable 02.11.2021	40,499,764	109,590	54,878,121
114	082	May-21	PKR Remuneration 06.08.2021 & JPY & EURO 06.08.2021 & PKR Reimbursable 06.08.2021	38,398,709	117,955	66,602,680	JPY & EURO 29.10.2021 & PKR Remuneration 02.11.2021 & PKR Reimbursable 26.11.2021	30,708,564	95,753	59,499,966
115	083	Jun-21	PKR Remuneration 09.08.2021 & JPY & EURO 10.08.2021 & PKR Reimbursable 07.09.2021	41,331,568	125,545	73,154,118	JPY & EURO 29.10.2021 & PKR Remuneration 02.11.2021 & PKR Reimbursable 31.12.2021	31,899,578	103,265	66,199,405
116	084	Jul-21	JPY & EURO 02.09.2021 & PKR Remuneration 07.09.2021 & PKR Reimbursable 27.09.2021	37,031,624	174,114	62,486,066	JPY & EURO 29.10.2021 & PKR Remuneration 26.11.2021 & PKR Reimbursable 11.01.2022	29,628,387	141,530	55,495,681
117	085	Aug-21	PKR Remuneration 22.09.2021 & PKR Reimbursable 22.10.2021 & JPY & EURO 25.10.2021	43,337,513	162,190	65,776,983	PKR Remuneration 26.11.2021 & JPY & EURO 09.12.2021 & PKR Reimbursable 07.02.2022	35,807,673	144,520	58,797,008
118	086	Sep-21	PKR Remuneration 29.10.2021 & JPY & EURO 03.11.2021 & PKR Reimbursable 24.12.2021	32,714,524	181,228	68,477,340	JPY & EURO 15.12.2021 & PKR Remuneration 31.12.2021 & PKR Reimbursable 03.03.2022	27,949,152	161,641	65,011,885
119	DHC-DD-001	Double Deduction of Audit Recovery	PKR 18.11.2021			471,604				
120	072S to 077S	From July 2020 to Dec 2020 Supplementary	JPY 29.11.2021	13,829,217			JPY 15.02.2022	11,645,309		
121	078S to 084S	From Jan 2021 to July 2021 Supplementary	JPY & EURO 02.12.2021	1,767,800	3,475		EURO 14.02.2022 JPY 15.02.2022	1,255,200	2,782	
122	087	Oct-21	PKR Remuneration 02.12.2021 & JPY & EURO 08.12.2021 & PKR Reimbursable 03.01.2022	41,115,860	197,498	66,395,695	PKR Remuneration 11.01.2022 & JPY & EURO 19.01.2022 & PKR Reimbursable 24.03.2022	32,512,800	174,017	62,947,262
123	088	Nov-21	PKR Remuneration 31.12.2021 & JPY & EURO 05.01.2022 & PKR Reimbursable 18.01.2022	59,389,109	203,784	62,723,287	PKR Remuneration 07.02.2022 & EURO 14.02.2022 & JPY 15.02.2022 & PKR Reimbursable 08.04.2022	47,145,767	183,360	58,989,159
124	089	Dec-21	PKR Remuneration 25.01.2022 & JPY & EURO 11.02.2022 & PKR Reimbursable 14.03.2022	56,775,167	180,336	68,206,392	PKR Remuneration 03.03.2022 & JPY & EURO 14.04.2022 & PKR Reimbursable 23.04.2022	47,869,445	140,687	63,350,345
125	Arrears of Escalation	From Aug 2014 to Sep 2021	JPY & EURO 18.02.2022	86,181,370	366,028		JPY 10.05.2022 & EURO 09.05.2022	74,889,089	322,244	
126	090	Jan-22	PKR Remuneration 02.03.2022 & JPY & EURO 04.03.2022 & PKR Reimbursable 29.03.2022	47,988,271	231,246	78,338,629	PKR Remuneration 24.03.2022 & JPY & EURO 09.05.2022 & PKR Reimbursable 10.06.2022	35,849,929	183,999	74,119,379
127	091	Feb-22	PKR Remuneration 18.03.2022 & JPY & EURO 04.04.2022 & PKR Reimbursable 28.04.2022	49,351,025	238,651	72,344,440	PKR Remuneration 23.04.2022 & JPY & EURO 01.06.2022 & PKR Reimbursable 28.07.2022	39,917,960	201,572	65,529,896
128	Arrears of Escalation	From Oct 2021 to Dec 2021	PKR Remuneration 30.03.2022			7,068,517	PKR Arrears of Escalation 26.05.2022			6,160,113
129	092	Mar-22	PKR Remuneration 25.04.2022 & JPY & EURO 28.04.2022 & PKR Reimbursable 09.06.2022	49,365,007	249,212	101,124,224	PKR Remuneration 10.06.2022 & JPY & EURO 17.06.2022 & PKR Reimbursable 04.08.2022	38,333,736	198,362	95,017,406
130	093	Apr-22	PKR Remuneration 27.05.2022 & JPY & EURO 31.05.2022 & PKR Reimbursable 28.06.2022	50,667,037	244,679	75,218,195	PKR Remuneration 30.06.2022 & JPY & EURO 13.07.2022 & PKR Reimbursable 05.09.2022	41,394,136	220,243	69,577,673
131	094	May-22	PKR Remuneration 20.06.2022 & JPY & EURO 29.06.2022 & PKR Reimbursable 24.08.2022	49,101,375	205,176	72,623,685	PKR Remuneration 04.08.2022 & JPY & EURO 12.08.2022 & PKR Reimbursable 28.10.2022	39,167,659	184,398	67,291,826
132	095	Jun-22	PKR Remuneration 22.07.2022 & JPY & EURO 05.08.2022 & PKR Reimbursable 12.10.2022	53,592,870	221,575	99,319,441	PKR Remuneration 05.09.2022 & JPY & EURO 16.09.2022 & PKR Reimbursable 30.11.2022	29,026,310	199,046	86,307,474
133	Supplementary Invoice	Supplementary March 2022 Inv # 092	PKR Reimbursable 25.08.2022			422,415				
134	096	Jul-22	PKR Remuneration 26.08.2022 & JPY & EURO 06.09.2022 & PKR Reimbursable 01.11.2022	53,835,283	200,534	82,687,714	PKR Remuneration 20.09.2022 & EURO 20.10.2022 & JPY 09.11.2022 & PKR Reimbursable 09.12.2022	43,393,521	180,538	76,766,540
135	097	Aug-22	PKR Remuneration 22.09.2022 & resubmitted on 07.10.2022 & JPY & EURO 29.09.2022 & resubmitted on 13.10.2022 & PKR Reimbursable 10.11.2022	48,992,064	183,692	84,487,478	PKR Remuneration 07.11.2022 & JPY & EURO 05.12.2022	40,234,896	165,800	30,969,490
136	098	Sep-22	PKR Remuneration 28.10.2022 & JPY & EURO 02.11.2022 & PKR Reimbursable 06.12.2022	51,434,187	189,634	86,273,462	PKR Remuneration 09.12.2022			33,234,088
137	099	Oct-22	PKR Remuneration 15.11.2022 & JPY & EURO 28.11.2022	50,692,917	291,294	37,900,554	PKR Remuneration 09.12.2022			33,084,204
138	Arrears of Escalation	From Oct 2021 to Dec 2021	JPY & EURO 21.11.2022	6,956,297	55,730					
139	Arrears of Escalation	From Jan 2022 to Sep 2022	JPY & EURO 22.11.2022	723,093	50,327					
140	085S to 089S	From August 2021 to December 2021 Supplementary	JPY & EURO 30.11.2022	17,498,249	32,184					
141	090S to 096S	From January 2022 to July 2022 Supplementary	JPY & EURO 13.12.2022	52,760,915	69,748					
142	Arrears of Escalation	Oct-22	PKR Remuneration 16.12.2022			8,304,715				
143	100	Nov-22	PKR Remuneration 22.12.2022 & JPY & EURO 30.12.2022	48,570,033	217,767	47,723,476				
144										
<b>Total</b>				<b>3,640,628,457</b>	<b>11,163,687</b>	<b>5,143,601,112</b>		<b>2,494,820,389</b>	<b>7,987,876</b>	<b>3,641,025,110</b>

**NOTE:**

\* Less amounts which were received are due to deduction of PST , income Tax and without inter-adjustment

\*\* In above given table the Invoice # "018-R" is denoting the Invoice regarding reclaim of "man-months from Aug 2014 to Dec 2015" of pending 11 DHC employees .

\*\*\* In above given table the Invoice # "019-R" is denoting the Invoice regarding reclaim of "man-months from Aug 2014 to Jan 2016" of pending another 4 DHC employees .

## 5.2 Detail of Land Acquisition & Compensation Payment Status to DC

Following is the detail of advances that were reeled to DC office Kohistan by WAPDA as an advance for the tentative cost estimates of land to be acquired for DHPP up to this month.

**Table 5.1: Tentative Cost of Land Acquired**

Sr. No.	Date	Area	Financial Year	Total
1	13/04/2015	Wapda colony at Chuchang	2015-16	414,903,124
2	20/11/2015	Addl. Land for Wapda Offices & colony at Chuchang	2015-16	294,493,544
3	23/11/2015	CONTRACTOR CAMP UCHAR NULLAH DASU	2015-16	5,822,142
4	23/11/2015	CONTRACTOR CAMP ZAAL SEO	2015-16	16,714,957
5	03/02/2016	KKH-01	2015-16	658,041,445
6	16/05/2016	Protection of Rock Carving at Shatial	2015-16	6,623,625
7	16/05/2016	Uchar Access Road.	2015-16	79,999,633
8	16/05/2016	Zaal Contractors Camp at Seo.	2015-16	3,385,955
9	16/05/2016	Contractor Camp Uchar	2015-16	2,730
10	21/06/2016	Grid Station Dasu	2015-16	4,678,938
-	-	Total Amount Released in FY 2015-16		1,484,666,093
11	29/09/2016	Zaal Contractors Camp	2016-17	46,880
12	29/09/2016	Uchar Contractors Camp	2016-17	79,100
13	29/09/2016	Grid Station Site at Chuchang.	2016-17	568,000
14	28/10/2016	RAR-01 excluding Mouza Rongo	2016-17	111,626,318
15	16/01/2017	Wapda colony at Chuchang	2016-17	103,572,755
16	07/01/2017	Wapda colony at Chuchang	2016-17	3,246,412
17	10/02/2017	Chuchang for Offices & Colony Area	2016-17	9,466,253
18	23/02/2017	Uchar Access Road	2016-17	6,780
19	23/02/2017	Shatyal Aasar-e-Qadeema	2016-17	168,512
20	15/05/2017	Uchar Access Road	2016-17	1,087,884
21	15/05/2017	Barseen Access Road	2016-17	1,504,849
22	15/05/2017	Chuchang Khasra No. 594	2016-17	993,125
23	30/05/2017	Kaigah Bypass Road	2016-17	104,065
24	30/05/2017	Barseen Access Road	2016-17	132,825
25	30/05/2017	Kaigah Bypass Road	2016-17	48,996,985
26	30/05/2017	KKH-01 Dasu	2016-17	21,385,861
27	22/06/2017	RAR-01 Dasu HPP	2016-17	10,424,397
28	22/06/2017	Sigal Rangoo Area	2016-17	171,972
29	22/06/2017	KKH-01 Dasu HPP	2016-17	62,195,893
-	-	Total Amount Released in FY 2016-17		375,778,866
30	27/07/2017	Barseen Access Road	2017-18	95,737,370
31	25/08/2017	Tunnel Logro-2	2017-18	17,320,630
32	05/09/2017	Khushi to Logro(Dam Site)	2017-18	306,938,100
33	12/09/2017	Khushi Access Road for Dasu HPP	2017-18	269,175,080
34	03/10/2017	Revised Cost Land of Kaigah Bypass	2017-18	68,770
35	03/10/2017	Rangoo Area Dasu HPP	2017-18	4,480
36	20/10/2017	Logro-2	2017-18	129,460
37	20/10/2017	Khushi Access Road	2017-18	66,924
38	27/11/2017	Rangoo RAR-01	2017-18	5,247,497
39	29/11/2017	RAR-01	2017-18	2,292,968
40	29/11/2017	KKH-01	2017-18	3,322,315
41	12/12/2017	Khushi to Logro	2017-18	270,555
42	18/12/2017	Khushi access road and dumping area	2017-18	2,362,660
43	24/01/2018	Access road to Diversion Tunnel LOGRO 2	2017-18	2,552,187
44	29/05/2018	Contractor Camp Shaal,	2017-18	254,774,975
45	29/05/2018	Logro-1,	2017-18	191,527,493
46	29/05/2018	Dumping Area Summar Nullah ,	2017-18	75,954,433
47	29/05/2018	Zongmei Contractor Camp Uchar,	2017-18	14,836,535
48	29/05/2018	Pani Bah Access Road,	2017-18	13,223,907
49	29/05/2018	Shaal Additional Land of KKH-01,	2017-18	9,218,100
50	29/05/2018	Kotgal Access Road,	2017-18	9,099,595
51	29/05/2018	Chalsi Access road,	2017-18	7,129,417
52	29/05/2018	Summar Nullah Access road,	2017-18	3,111,777
53	29/05/2018	Sazeen Access Road,	2017-18	2,613,750
54	29/05/2018	Shuri Nullah Access road	2017-18	2,167,500
-	-	Total Amount Released in FY 2017-18		1,289,146,478
55	03/07/2018	Barseen Contractor Camp	2018-19	149,411,432
56	03/07/2018	Uchar Contractor Camp-2	2018-19	90,125,808
57	03/07/2018	Tailrace Area Kuz Chuchang	2018-19	56,753,658
58	03/07/2018	Seer Gayal RAR-02	2018-19	54,912,887
59	03/07/2018	Largani Reservoir	2018-19	3,902,900
60	03/07/2018	Rangoo Bypass RAR-01	2018-19	2,052,290
61	15/08/2018	Uchar Dumping Area	2018-19	256,701
62	15/08/2018	Pani Bah Access Road	2018-19	47,621
63	15/08/2018	Zongmei Contractor Camp	2018-19	12,870

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64	15/08/2018	KKh-01 (Shaal)	2018-19	43,996
65	15/08/2018	Barseen Contractor Camp	2018-19	39,911
66	25/09/2018	Uchar Nullah	2018-19	169,786,303
67	25/09/2018	Access Road Shuri Das	2018-19	40,400,071
68	25/09/2018	Logro-1	2018-19	136,498
69	12/10/2018	RAR-II Road Doga	2018-19	172,069,840
70	12/10/2018	Largani Reservoir area	2018-19	151,862,816
71	12/10/2018	RAR-II Koma	2018-19	148,130,506
72	12/10/2018	Tatta Pani Kaigah Reservoir	2018-19	56,715,345
73	12/10/2018	Kaigah Camp-II	2018-19	23,920,677
74	12/10/2018	Dumping Area Shuri Nullah	2018-19	12,544,413
75	12/10/2018	Dumping area chalasai	2018-19	12,409,619
76	12/10/2018	Kaigah Camp-I	2018-19	8,457,804
77	12/10/2018	Resettlement site uchar	2018-19	6,838,927
78	12/10/2018	Nasirabad II Resettlement site	2018-19	5,557,112
79	12/10/2018	Nasirabad (1) Kaigah	2018-19	4,784,360
80	12/10/2018	Logro-1	2018-19	6,245,665
81	12/10/2018	uchar Dumping Area	2018-19	2,893,999
82	12/10/2018	Spoil Uchar Dumping area	2018-19	436,750
83	12/10/2018	Tailrace Area	2018-19	313,996
84	12/10/2018	Dabbar RAR-01	2018-19	36,623
85	12/10/2018	Chalasai Access road	2018-19	29,878
86	12/10/2018	Zongmei Contractor Camp	2018-19	382,660
87	12/10/2018	Logro-1	2018-19	131,990
88	12/10/2018	Khushi to Logro Dam Site (Revised Cost)	2018-19	114,345
89	12/10/2018	Tailrace Area	2018-19	176,948
90	12/10/2018	RAR-01 Signal Rango	2018-19	35,920
91	12/10/2018	Khushi to Logro Dam Site	2018-19	29,047
92	12/10/2018	Lagrani Damages	2018-19	25,230
93	12/10/2018	Pani Bah Access Road	2018-19	17,045
94	15/10/2018	RAR-01	2018-19	2,347,846
95	12/11/2018	Land of Kaigah to Awayi KKH-02(i)	2018-19	259,065,119
96	12/11/2018	Access road to Resettlement Site 1 Area-4	2018-19	1,039,194
97	12/11/2018	Khushi Resettlement Site 1 Area 3	2018-19	2,202,374
98	12/11/2018	KKH-01 Kaigah Maidan	2018-19	306,000
99	12/11/2018	Khushi Access road & Dumping area	2018-19	215,144
100	12/11/2018	gobber Nullah dumping area and access road	2018-19	39,745,800
101	12/11/2018	Dumping area/Contractor Camp Looter	2018-19	28,103,095
102	12/11/2018	6% Interest: Khoshi access road	2018-19	4,251,640
103	12/11/2018	6% Interest: Logro-2	2018-19	820,671
104	10/01/2019	Kotgal Reservoir	2018-19	314,089,040
105	10/01/2019	Kandia Bridge to Dandar (RAR-02)	2018-19	255,222,908
106	10/01/2019	Looter Nullah to Shukrait Nullah KKh-02	2018-19	97,052,422
107	10/01/2019	Largani Reservoir Area-II	2018-19	83,770,189
108	10/01/2019	Awai to Looter Nuhhalh KKh-02 (iii)	2018-19	31,661,474
109	10/01/2019	Logro Reservoir (Site-1)	2018-19	18,146,145
110	10/01/2019	Koshi Resettlement Site 1 Area 1,2,	2018-19	4,886,237
111	10/01/2019	Shaal Zero Point.	2018-19	1,525,596
112	10/01/2019	Rangoo Bypass Komila	2018-19	25,740
113	18/01/2019	Barseen zogme Mazzine Side	2018-19	33,516,264
114	18/01/2019	Looter Reservoir area-II	2018-19	32,802,152
115	18/01/2019	Looter KKH-02	2018-19	10,143,092
116	18/01/2019	RAR-01	2018-19	75,814,812
117	18/01/2019	Khushi Access Road	2018-19	58,480,347
118	18/01/2019	Khushi To Logro	2018-19	47,373,470
119	18/01/2019	Logro-1	2018-19	36,195,531
120	18/01/2019	Access Road PAni Bah	2018-19	6,516,883
121	18/01/2019	Zongme Camp Uchar	2018-19	3,745,068
122	18/01/2019	Largani Damages	2018-19	1,264,413
123	18/01/2019	Addl Land KKH Zero Point	2018-19	866,999
124	18/01/2019	Khushi Access Road	2018-19	3,435,975
125	18/01/2019	Khushi Access Road	2018-19	906,160
126	22/02/2019	Looter Reservoir Area-1	2018-19	50,054,104
127	22/02/2019	Uchar KKh-01 3.	2018-19	38,236,096
128	22/02/2019	Barseen-III, KKH-01	2018-19	11,414,824
129	22/02/2019	Largani (KKH-01)	2018-19	11,403,443
130	22/02/2019	Chuchang (KKH-01)	2018-19	11,011,574
131	22/02/2019	Barseen-II, KKH-01	2018-19	10,264,800
132	22/02/2019	Kuz Chuchng (KKH-01)	2018-19	8,531,983
133	22/02/2019	Barseen 1, KKH 01	2018-19	8,246,666
134	22/02/2019	Barseen-IV, KKH-01	2018-19	1,105,000
135	22/02/2019	Khushi Resettlement site-1 (Area-3)	2018-19	811,312
136	22/02/2019	Khushi resettlement site-1 (Area-4)	2018-19	382,819
137	22/02/2019	Largani Reservoir Area 1	2018-19	2,649,997

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138	22/02/2019	Shaal Contractor Camp	2018-19	512,510
139	01/03/2019	Khushi Accesss Road	2018-19	6,376,401
140	01/03/2019	Khushi to Logro Khasra No. 47	2018-19	1,034,904
141	20/03/2019	Addl Land of Barseen (KKH-01)	2018-19	5,847,874
142	20/03/2019	Access Road to Khushi resettlement site-1 Area 1,2	2018-19	2,033,547
143	20/03/2019	Summar Nullah Access Road	2018-19	943,957
144	20/03/2019	Seer Gayal (RAR-02)	2018-19	905,518
145	20/03/2019	Access Road to Khushi resettlement site-1	2018-19	889,550
146	20/03/2019	Access Road to Nasirabad Resettlement Site-1	2018-19	163,462
147	20/03/2019	Kaigah Camp No. 02	2018-19	11,846
148	26/03/2019	Chillasi access road	2018-19	858,175
149	11/04/2019	Uchar Contractor Camp No. 2 Thoki	2018-19	5,214,310
150	11/04/2019	Uchar Contractor Camp No. 2 Thoki	2018-19	1,338,457
151	11/04/2019	Largani Reservoir Area-2	2018-19	1,064,723
152	11/04/2019	Largani Reservoir Area-1	2018-19	806,430
153	11/04/2019	Kaigah Contractor Camp-02	2018-19	142,000
154	11/04/2019	Shaal Contractor Camp	2018-19	111,515
155	11/04/2019	Chilasi/Chilaashi Dumping Area	2018-19	49,497
156	11/04/2019	Shuri Nullah Dumping Arear	2018-19	46,383
157	11/04/2019	Shuri Nullah Dumping Arear	2018-19	2,969
		Total Amount Released in FY 2018-19		2,820,048,907
158	30/07/2019	Addl Funds for Khushi to Logro (Dam Site)	2019-20	14,955,651
159	30/07/2019	Dandar to uthoor RAR-02(B)	2019-20	87,276,039
160	30/07/2019	Kaigah dumping area& Access road-1	2019-20	254,521,819
161	30/07/2019	Logro-II (TMA tax 2%)	2019-20	16,414
162	30/07/2019	Dumping Area Summar Nullah ,	2019-20	4,985,560
163	30/07/2019	Shaal Contractor Camp	2019-20	4,274,776
164	30/07/2019	Khushi to logro dam site	2019-20	4,270,103
165	30/07/2019	Resettlement site uchar-1	2019-20	1,307,148
166	30/07/2019	Summar Nullah dumping area	2019-20	616,362
167	30/07/2019	Summar Nullah dumping area	2019-20	253,185
168	30/07/2019	logro-II	2019-20	179,046
169	30/07/2019	Uchar contractor camp-2	2019-20	113,599
170	30/07/2019	Saeen access road	2019-20	41,486
171	30/07/2019	Summar Nullah Access Road	2019-20	45,843
172	30/07/2019	Shuri Nullah Access road	2019-20	13,010
173	30/07/2019	Sazeen access road	2019-20	722
174	06/12/2019	Addl land KKh-01 (Chuchang)	2019-20	406,620
175	06/12/2019	Addl land KKh-01 (Shaal to Chuchang)	2019-20	182,544
176	06/12/2019	Addl land KKh-01 (Barseen-1)	2019-20	18,030
177	06/12/2019	Addl land KKh-01 (Uchar logro)	2019-20	1,830
178	06/12/2019	Logro Reservoir (Site-1)	2019-20	36,060
179	06/12/2019	Shuri das access road	2019-20	36,060
180	06/12/2019	KKh-02 (part-1)	2019-20	15,012
181	06/12/2019	KKh-01 (Barseen-V)	2019-20	70,879
182	06/12/2019	Kaigah Contractor Camp-02	2019-20	1,524,283
183	09/12/2019	Pani bah access road (40%)	2019-20	5,289,563
184	09/12/2019	Chillasi access road (40%)	2019-20	2,851,766
185	09/12/2019	Rargo Bypass RAR-01 (40%)	2019-20	820,916
186	09/12/2019	Chillasi access road	2019-20	248,733
187	09/12/2019	Pani bah access road	2019-20	1,600,508
188	19/12/2019	Addl. Area for Grid Station (Kuz Chuchang)	2019-20	623,824
189	19/12/2019	Gobar Nullah Access	2019-20	448,153
190	19/12/2019	Addl. Land KKH-01 (Barseen-II)	2019-20	343,972
191	19/12/2019	Addl. Land KKH-01 (Barseen-I)	2019-20	287,432
192	24/12/2019	Kaigah Dumping Area and access road	2019-20	3,744,475
193	24/12/2019	Addl. Land KKH-01 (Lagrani)	2019-20	576,917
194	24/12/2019	KKH-02 (Shurkait nullah to shuri nullah part-III)	2019-20	360,620
195	24/12/2019	Addl. Land KKH-01 (Barseen-III)	2019-20	614,210
196	24/12/2019	KKh-02 (A) Awai to Looter Area	2019-20	312,200
197	24/12/2019	Gobar Nullah Access Road and Dumping Area	2019-20	203,850
198	24/12/2019	Tail Rece Area Chuchang	2019-20	22,701,463
199	24/12/2019	kaiga to awai kkh-02(i)	2019-20	103,626,048
200	24/12/2019	looter nullah to shukrait nullah kkh-02	2019-20	38,820,969
201	24/12/2019	Looter KKh-02	2019-20	4,057,237
202	24/12/2019	Awai to looter Nullah kkh-02 (iii)	2019-20	12,664,590
203	24/12/2019	Uchar contractor camp-2	2019-20	36,050,036
204	24/12/2019	barseen contractor camp	2019-20	59,764,573
205	24/12/2019	kaigah camp-1	2019-20	3,383,122
206	24/12/2019	kaigah camp-11	2019-20	9,568,271
207	24/12/2019	Addl Land KKH-01 Shaal Zero point	2019-20	610,238
208	24/12/2019	Addl Land Kuz chuchang KKh-01	2019-20	3,412,793
209	24/12/2019	Add. Land KKH-01 Shaal to chuchang	2019-20	4,404,630
210	24/12/2019	Largani KKh-01	2019-20	4,561,377

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211	24/12/2019	Barseen-1 KKH-01	2019-20	3,298,667
212	24/12/2019	Barseen-11 KKH-01	2019-20	4,105,920
213	24/12/2019	Barseen-111 KKH-01	2019-20	4,565,930
214	24/12/2019	Barseen-IV KKH-01	2019-20	442,000
215	24/12/2019	Uchar KKh-01	2019-20	15,294,438
216	24/12/2019	Barseen(V) KKh-01	2019-20	2,339,150
217	24/12/2019	KKh-01 Kaiga Maidan	2019-20	122,400
218	24/12/2019	Dumping area Summar Nala	2019-20	30,381,773
219	24/12/2019	Summar Nullah access road	2019-20	1,244,711
220	24/12/2019	shuri nullah access road	2019-20	867,000
221	24/12/2019	Sazin access road	2019-20	1,045,500
222	24/12/2019	Kotgal access road	2019-20	3,639,838
223	24/12/2019	zongmei contractor camp	2019-20	5,934,614
224	24/12/2019	largani damages	2019-20	1,560,027
225	24/12/2019	seer gayal RAR-02	2019-20	22,327,362
226	24/12/2019	RAR-II road Daga	2019-20	68,827,936
227	24/12/2019	RAR-II road Koma	2019-20	59,252,202
228	24/12/2019	Kandia Bridge to Dandar (RAR-02)	2019-20	102,089,163
229	24/12/2019	Uchar Dumping Area	2019-20	67,914,521
230	24/12/2019	Dumping area Chalashi	2019-20	4,963,848
231	24/12/2019	Access road shuri das	2019-20	16,160,028
232	24/12/2019	Dumping area/contractor camp looter	2019-20	11,241,238
233	24/12/2019	Dumping area shuri nullah	2019-20	5,017,765
234	24/12/2019	Gobbar Nullah Dumping area & access road	2019-20	15,898,320
235	24/12/2019	Kaiga Spoil dumping area & access road-01	2019-20	101,808,728
236	24/12/2019	Tatta pani kaiga Reservoir	2019-20	22,686,138
237	24/12/2019	Nasir abad (1) Kaiga	2019-20	1,913,744
238	24/12/2019	Nasir abad (2) Resettlement site	2019-20	2,222,845
239	24/12/2019	Khushi resettlement site 1 area 1 & 2	2019-20	2,767,914
240	24/12/2019	Access road to resettlement site-1 area 3	2019-20	568,805
241	24/12/2019	Khushi resettlement site 1 area 3	2019-20	1,205,474
242	24/12/2019	Resettlement site uchar	2019-20	2,735,571
243	24/12/2019	Largani reservoir area-01	2019-20	60,745,126
244	24/12/2019	RAR-02(B) Dandar to uthoor	2019-20	34,910,416
245	24/12/2019	Kotgal reservoir	2019-20	125,635,616
246	24/12/2019	Looter reservoir area-II	2019-20	13,120,861
247	24/12/2019	Largani reservoir area-02	2019-20	33,508,076
248	24/12/2019	Logro reservoir (site-1)	2019-20	7,258,458
249	24/12/2019	Barseen zongmei magazine site	2019-20	13,406,506
250	24/12/2019	Looter reservoir area-1	2019-20	20,021,642
251	08/01/2020	Doga RAR-02	2019-20	3,808,590
252	08/01/2020	Kaigah Access Road and spoil Dumping Area-1	2019-20	3,453,870
253	08/01/2020	Looter Contractor camp/Dumping Area	2019-20	1,549,490
254	08/01/2020	Shuri Das Access Road	2019-20	367,838
255	08/01/2020	Looter Contractor Camp/Dumping Area	2019-20	238,373
256	08/01/2020	Kaigah Dumping and Access Road Site-II	2019-20	9,361,188
257	27/01/2020	Doga RAR-02	2019-20	11,133,003
258	27/01/2020	Kaigah Contractor Camo No-01	2019-20	241,860
259	27/01/2020	Spoil Dumping area Uchar	2019-20	13,844,605
260	27/01/2020	Uchar Resettlement site-1(Revised cost)	2019-20	130,573
261	27/01/2020	KKh-02, Looter-2 (Part-2)	2019-20	94,181
262	27/01/2020	KKH-01 (Kuz Chuchang)	2019-20	122,496
263	27/01/2020	Looter KKH-02 (Part-3)	2019-20	7,824,854
264	27/01/2020	Largani Damages Area(Revised cost)	2019-20	288,904
265	27/01/2020	Summer Nullah Access Road (Revised cost)	2019-20	259,401
266	27/01/2020	Land Shaal Zero point	2019-20	24,890
267	27/01/2020	Shuri Nullah Dumping Area	2019-20	3,408,318
268	27/01/2020	Kaigah to Awai KKH-02(Part-1)	2019-20	7,867,037
269	27/01/2020	KKH-02 (iii) Awai to Looter	2019-20	391,045
270	27/01/2020	Zhongmei explosive (Barseen)	2019-20	32,000
271	27/01/2020	Zhongmei contractor camp , UCHAR	2019-20	51,410
272	27/01/2020	KKH-01 Logro-Uchar	2019-20	1,230,059
273	27/01/2020	Largani reservoir area-02	2019-20	80,789
274	27/01/2020	Looter contractor camp/dumping area	2019-20	1,137,167
275	27/01/2020	Kaigah Contractor Camp No. 02 (Revised cost)	2019-20	236,056
276	31/01/2020	Gober Nullah Dumping/Access Road	2019-20	2,300,775
277	31/01/2020	Logro Reservoir Area-1	2019-20	1,709,508
278	31/01/2020	Barseen contractor camp	2019-20	11,934,910
279	31/01/2020	Zongmei Explosive magazine, Barseen	2019-20	4,398,775
280	31/01/2020	Access road to uchar resettlement site-1	2019-20	894,656
281	31/01/2020	Largani Damages	2019-20	13,545
282	31/01/2020	Kotgal Access road	2019-20	436,324
283	07/02/2020	Alld. Land KKH-01 Gulibagh MAidan (Kaigah)	2019-20	2,251,904
284	07/02/2020	Zhongmei contractor camp uchar (Revised cost)	2019-20	788,941

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285	13/02/2020	Logro Reservoir Area-1	2019-20	7,295,563
286	13/02/2020	Barseen Contractor Camp Area	2019-20	1,151,677
287	13/02/2020	Seer Gayal RAR-02	2019-20	272,513
288	13/02/2020	Looter to Shukrait Nullah (KKH-02)	2019-20	181,960
289	13/02/2020	Kandia Bridge to Dandar (RAR-02)	2019-20	77,120
290	13/02/2020	Dandar to uthoor Nullah (RAR-02)	2019-20	96,679
291	13/02/2020	Kaigah Access road & Spoil dumping area-2	2019-20	470,172
292	13/02/2020	Looter reservoir area-2	2019-20	222,214
293	13/02/2020	Kaigah Reservoir area (Tatta Pani)	2019-20	204,864
294	24/02/2020	RAR-02 Dogah	2019-20	27,638,450
295	24/02/2020	KKH-02(Kaigah to Awai) Part-1	2019-20	3,348,658
296	24/02/2020	Kaigah Access Road & Dumping area-01	2019-20	2,392,969
297	24/02/2020	Kaigah Reservoir area (Tatta Pani)	2019-20	830,000
298	24/02/2020	KKH-02(Kaigah to Awai) Part-1	2019-20	658,080
299	24/02/2020	Zhongmei explosive magazine Barseen	2019-20	2,000
300	25/02/2020	Kotgal Reservoir Area(RAR-02)	2019-20	24,530,126
301	25/02/2020	Kotgal Reservoir Area(RAR-02)	2019-20	7,476,580
302	25/02/2020	Looter Reservoir Area-01	2019-20	1,111,360
303	25/02/2020	Looter Reservoir Area-02	2019-20	198,132
304	05/03/2020	Kaigah Access Road & Dumping Area-01	2019-20	62,054,228
305	05/03/2020	Viz Kaigah Reservoir Area(Tatta Pani)	2019-20	47,017,152
306	05/03/2020	Tailrace AT Kuz Chuchang	2019-20	38,116,451
307	05/03/2020	Kandia Bridge to Dandar(RAR-II)	2019-20	19,425,418
308	05/03/2020	RAR-02 Komah	2019-20	15,750,337
309	05/03/2020	RAR-02 Komah	2019-20	7,984,191
310	05/03/2020	Viz Dandar to Uthoor	2019-20	3,718,056
311	05/03/2020	Kotgal Reservoir Area	2019-20	89,039,872
312	05/03/2020	Largani Reservoir area-1	2019-20	12,711,751
313	05/03/2020	Uchar contractor camp No.2 (Thoki)	2019-20	54,073,119
314	05/03/2020	Kandia Bridge to Dandar(RAR-II)	2019-20	38,177,960
315	13/03/2020	Addl. Land KKH-01 Zero Point	2019-20	274,088
316	19/03/2020	KKH-01, Part 1 (Kaigah to Awai)	2019-20	75,010,953
317	19/03/2020	RAR-02 Komah	2019-20	23,317,710
318	19/03/2020	Reservoir area(tatta pani)	2019-20	3,704,779
319	19/03/2020	Zongmei explosive magazine	2019-20	21,997,858
320	20/03/2020	KKH-02 Part-1 (Kaigah to Awai)	2019-20	8,135,120
321	20/03/2020	RAR-02 (Doga)	2019-20	33,920,622
322	15/06/2020	Addl. Land in Kumaro Nalah (RAR-01)	2019-20	6,239,358
323	15/06/2020	Barseen Dumping & Reservoir area	2019-20	392,115,653
324	15/06/2020	Sazeen Das Limit to Sazeen Nalah File No. 01	2019-20	132,784,379
325	15/06/2020	Reservoir (Jhali Nala to Komah Nala)	2019-20	113,309,762
326	29/06/2020	Access Road to Resettlement Site (Dhaat-3)	2019-20	9,279,175
-	-	Total Amount Released in FY 2019-20		2,968,389,280
327	14/07/2020	Shuri Das Access road	2020-21	16,550,382
328	17/07/2020	Pani Bah Reservoir	2020-21	358,605,821
329	17/07/2020	Barseen Baily Bridge Site-II	2020-21	172,847,803
330	17/07/2020	Sigloo Blasting Area	2020-21	32,603,566
331	17/07/2020	Addl. Land KKH-01 (K-3 Tunnel)	2020-21	5,100,448
332	04/08/2020	Chilashi to Looter Reservoir Area	2020-21	249,485,714
333	04/08/2020	Logro Reservoir Area-2	2020-21	80,837,537
334	04/08/2020	Kaigah Quarry Area-2	2020-21	56,140,028
335	04/08/2020	Uchar Crushing Plant	2020-21	26,249,159
336	04/08/2020	Additional Land for Grid Station Chuchang	2020-21	15,134,498
337	04/08/2020	Barseen Contractor Camp	2020-21	33,878,313
338	04/08/2020	Looter Reservoir	2020-21	1,442,739
339	07/08/2020	Dumping Area Summar Nullah	2020-21	76,382,222
340	14/10/2020	Pani Bah Reservoir Area-2	2020-21	232,970,420
341	14/10/2020	Uchar logro	2020-21	103,839,286
342	14/10/2020	Siglo-3	2020-21	75,775,648
343	14/10/2020	Lor Summar Nullah to Sazeen Limits	2020-21	73,483,857
344	14/10/2020	LoR Shuri Nullah To Summar Nullah	2020-21	65,843,126
345	14/10/2020	LoR Sazeen Nala To Shatial Limits (File-1)	2020-21	48,282,768
346	14/10/2020	Addl. Land Tailrace Area at Kuz Chung	2020-21	21,973,117
347	14/10/2020	Sigloo-1 (File-2)	2020-21	11,144,393
348	14/10/2020	Addl. Land RAR-01(ZAAL)	2020-21	1,965,761
349	14/10/2020	Addl. Land of Rango Bypass	2020-21	1,203,203
350	14/10/2020	Siglo-2 (File-3)	2020-21	118,507,107
351	14/10/2020	Seer Gayal (RAR-02)	2020-21	14,776,899
352	14/10/2020	Add Land Grid Station Chuchang	2020-21	721,071
353	03/11/2020	Kaegah Quarry Area-II	2020-21	8,761,380
354	03/11/2020	Uchar Crushing Plant	2020-21	3,012,113
355	03/11/2020	Pani Bah Reservoir Area-2	2020-21	1,250,200
356	03/11/2020	Barseen Dumping & Reservoir Area-1	2020-21	669,550
357	03/11/2020	Sigloo Blasting Area	2020-21	421,970



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358	03/11/2020	Siglo-2(file-4)	2020-21	320,490
359	03/11/2020	Barseen Dumping & Reservoir Area-II	2020-21	228,040
360	03/11/2020	Pani Bah Reservoir	2020-21	122,280
361	19/11/2020	Gober Nullah to Shukrait Reservoir area	2020-21	213,574,025
362	19/11/2020	Gumoonend point to Uthor Nullah Reservoir area	2020-21	82,125,209
363	19/11/2020	Natbail To Salich bridge kandia reservoir area	2020-21	315,329,500
364	19/11/2020	Lachi Nala reservoir area-1 (File-4)	2020-21	18,837,988
365	19/11/2020	Uchar Crushing plant	2020-21	10,733
366	19/11/2020	Sigloo Blasting area	2020-21	829,518
367	19/11/2020	Uchar Logro reservoir area file-2	2020-21	25,395,628
368	19/11/2020	Uchar Logro reservoir area file-1	2020-21	12,573,766
369	19/11/2020	Add Land for access road to resettlement site 3 & 4 Uchar	2020-21	997,013
370	19/11/2020	Siglo-1 File-1	2020-21	243,654,294
371	19/11/2020	Siglo-2 file 4	2020-21	233,248,782
372	19/11/2020	LoR Shukrait Nala to Shuri nala	2020-21	183,633,196
373	19/11/2020	Lachi Nala reservoir area file 5	2020-21	28,183,251
374	19/11/2020	Kotgal to kandia reservoir area	2020-21	824,536,409
375	19/11/2020	Siglo 2 file 2	2020-21	53,367,028
376	19/11/2020	Lachi Nala reservoir area file 2	2020-21	19,030,084
377	19/11/2020	Sazeendas reservoir area 2	2020-21	162,230,931
378	19/11/2020	Lachi nala reservoir area-1	2020-21	114,802,353
379	26/11/2020	Sazeendas reservoir area 1	2020-21	514,387,499
380	26/11/2020	Lachi nala reservoir area file 3	2020-21	20,339,746
381	26/11/2020	Kishu karh to milar limits reservoir area	2020-21	75,626,895
382	26/11/2020	Slich bridge to kotgal reservoir area	2020-21	219,610,080
383	26/11/2020	Kotgal to dandar start point reservoir	2020-21	316,895,164
384	26/11/2020	Milar to Dogah reservoir area 1	2020-21	315,044,806
385	27/11/2020	Komila By Pass File 1	2020-21	69,740,347
386	27/11/2020	Komila By Pass File 2	2020-21	34,933,173
387	08/12/2020	Gayal/Kandia Reservoir	2020-21	9,405,883
388	08/12/2020	Natbail to BairKandia Reservoir	2020-21	291,384,204
389	08/12/2020	Dogah end Point to Gayal Nullah (File-3)	2020-21	239,493,017
390	08/12/2020	Komila Bypass (File-3)	2020-21	61,122,322
391	08/12/2020	Dogah end Point to Gayal Nullah file-2	2020-21	84,933,188
392	08/12/2020	Siglo-2 File-1	2020-21	167,512,778
393	08/12/2020	Dogah Nullah to Gayal Limits (File-4)	2020-21	144,165,744
394	08/12/2020	Summer End Point to Lachi Limit	2020-21	120,157,403
395	08/12/2020	Gadeer Reservoir Area-4	2020-21	41,944,487
396	08/12/2020	Guli Bagh Reservoir Area	2020-21	327,318,915
397	08/12/2020	Gadeer Reservoir Area-3	2020-21	32,737,936
398	08/12/2020	For Dogh Nullah to Gayal Limit File-1	2020-21	169,531,753
399	08/12/2020	Lor (Sazeen Das Limit to Sazeen Nullah) File-2	2020-21	117,679,861
400	08/12/2020	For Gumoon Start Point to Gumoon End Point	2020-21	145,682,859
401	08/12/2020	Lor (Sazeen Das Limit to Sazeen Nullah) File-3	2020-21	19,313,425
402	08/12/2020	Gadeer Reservoir Area File-2	2020-21	185,212,869
403	08/12/2020	Dandar Reservoir Area	2020-21	141,940
404	08/12/2020	Siglo-2 (File-2)	2020-21	2,000
405	08/12/2020	Barsen Dumping area and reservoir area-2	2020-21	5,958,055
406	08/12/2020	Logro Reservoir Area (File-2)	2020-21	3,874,900
407	08/12/2020	Pani Bah Reservoir Area-2	2020-21	2,638,006
408	08/12/2020	Uchar Logro Reservoir area (File-3)	2020-21	2,153,547
409	08/12/2020	Uchar Logro Reservoir area (File-2)	2020-21	812,090
410	08/12/2020	Uchar Logro Reservoir area (File-1)	2020-21	748,811
411	08/12/2020	Gadeer Reservoir Area (File-3)	2020-21	174,833
412	08/12/2020	Uchar Logro reservoir area (File-2)	2020-21	98,700
413	08/12/2020	Siglo-1 (File-2)	2020-21	73,827
414	08/12/2020	Add. Land (K-2 Tunnel) Parts 1 & 2	2020-21	53,502
415	08/12/2020	Siglo-1 (File-3)	2020-21	45,120
416	15/12/2020	Siglo-2 (File-4)	2020-21	22,313,455
417	15/12/2020	Guli Bagh Reservoir area	2020-21	17,236,360
418	15/12/2020	Siglo-2 (File-1)	2020-21	11,795,118
419	15/12/2020	Gumoon Baily Bridge (Left bank)	2020-21	7,999,425
420	15/12/2020	Siglo-2 (File-3)	2020-21	6,524,642
421	15/12/2020	Barseen Dumping and reservoir area-1	2020-21	4,848,750
422	15/12/2020	Siglo-3 (File-1)	2020-21	3,742,894
423	15/12/2020	Baily Bridge Barseen / Komah (Site-1)	2020-21	3,268,160
424	15/12/2020	LoR Chillashi to Looter	2020-21	2,452,852
425	15/12/2020	Pani Bah reservoir area-1	2020-21	2,082,644
426	15/12/2020	Gadeer Reservoir Area (File-2)	2020-21	1,959,054
427	15/12/2020	Guli Bagh Reservoir area	2020-21	740,282
428	15/12/2020	Kaigah Quarry Area-2	2020-21	617,248
429	15/12/2020	Gadeer Reservoir Area (File-1)	2020-21	556,972
430	15/12/2020	LoR KKh-02 End Point to Sazeen Das Limits	2020-21	342,367
431	15/12/2020	Gadeer Reservoir Area (F-4)	2020-21	219,690

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432	15/12/2020	Lachi Nala File-3	2020-21	167,518
433	15/12/2020	Addl. Land Tailrace	2020-21	166,559
434	15/12/2020	Lachio Nala (F-5)	2020-21	91,927
435	15/12/2020	Baily Bridge Gumoon/ Looter (Left bank)	2020-21	78,690
436	15/12/2020	Lachi Nala (File-2)	2020-21	44,852
437	15/12/2020	Sazeen Nala to Shatial Limits (File-1)	2020-21	43,134
438	28/12/2020	Gayal Nala to Kandia bridge Reservoir area	2020-21	270,576,717
439	28/12/2020	LoR Baily Bridge Gumoon	2020-21	237,437,738
440	28/12/2020	Gandeer Reservoir area (File-1)	2020-21	77,523,782
441	28/12/2020	Dogah Nala Gayal Limits (File-2)	2020-21	45,160,978
442	28/12/2020	Dandar Reservoir Area	2020-21	540,514,619
443	28/12/2020	Millar to Dogah Nala (File-3)	2020-21	117,870,498
444	28/12/2020	Millar to Dogah Nala (File-1)	2020-21	109,061,636
445	28/12/2020	Millar to Dogah Nala (File-2)	2020-21	99,494,112
446	28/12/2020	Baily Bridge Barseen/ Komah (Site-3)	2020-21	50,391,488
447	28/12/2020	Sigloo-3 File-2	2020-21	139,963,273
448	07/01/2021	Dogah Nala to Dogah End Point Reservoir Area (File-3)	2020-21	183,491,325
449	07/01/2021	Kaigah Quarry-2	2020-21	3,244,732
450	15/01/2021	Baily Bridge Gumoon Left Side Reservoir Area	2020-21	2,593,759
451	07/01/2021	Siglo Blasting Area	2020-21	27,550,211
452	07/01/2021	RAR-1 Addl. Land Zaal	2020-21	507,539
453	07/01/2021	Siglo-III File-2	2020-21	6,173,311
454	07/01/2021	Lachi Nalla File-4	2020-21	30,260
455	07/01/2021	Siglo-III File-1	2020-21	220,750
456	07/01/2021	Jhalinallah to Kumanallah	2020-21	20,130
457	07/01/2021	Baily Bridge Barseen/Komah (Site-1)	2020-21	366,546,865
458	07/01/2021	KKH-02, End Point to Sazeen Das Limit Reservoir Area)	2020-21	161,498,328
459	07/01/2021	Summar Nallah to Sazin Limit Area	2020-21	693,611
460	07/01/2021	Shuri Nallah to Summar Nallah Area	2020-21	408,909
461	07/01/2021	Komila Bypass File-2	2020-21	118,446
462	19/01/2021	Pani Bah Reservoir area-I	2020-21	22,120,646
463	19/01/2021	Sazeen Das Limit to Sazeen Nallah Reservoir area (P-1)	2020-21	15,096,150
464	19/01/2021	Siglo-I File-I	2020-21	13,979,730
465	19/01/2021	Barseen Dumping reservoir area-2	2020-21	13,194,453
466	19/01/2021	Tailrace Addl. area Kuz Chuchang	2020-21	9,074,538
467	19/01/2021	Pani Bah Reservoir area-II	2020-21	8,189,040
468	19/01/2021	Lachi Nallah Left of Reservoir Area-File-4	2020-21	2,605,490
469	19/01/2021	Sazeen Das Limit to Sazeen Nallah PT-2 (LoR)	2020-21	1,556,128
470	19/01/2021	Komila Bypass File-1	2020-21	456,766
471	19/01/2021	Sazeen Das Limit to Sazeen Nallah PT-3 (LoR)	2020-21	219,379
472	19/01/2021	Sazeen Das File-2 Reservoir area	2020-21	32,747
473	28/01/2021	Lachi Nala left of Reservoir Area File-1	2020-21	6,661,510
474	28/01/2021	Sigloo-3 File-2	2020-21	2,619,820
475	28/01/2021	Lachi nullah left of Reservoir Area File-3	2020-21	2,009,090
476	28/01/2021	Baily Bridge Barseen / Kuma Site-2	2020-21	1,965,890
477	28/01/2021	Lachi nullah left of Reservoir Area File-2	2020-21	486,490
478	28/01/2021	Sazeen Das Reservoir area File-1	2020-21	405,990
479	28/01/2021	Siglo-3 File-2	2020-21	114,988,616
480	28/01/2021	Gobar Nalla to Shukrait Nalla	2020-21	5,582,395
481	28/01/2021	Shukrait Nalla to Shuri Nalla	2020-21	5,136,785
482	28/01/2021	Siglo-1 File-1	2020-21	3,953,242
483	28/01/2021	Lachi Nallah File-1	2020-21	579,000
484	28/01/2021	Summar End Point to Lachi Nala Limit	2020-21	413,797
485	28/01/2021	Saznin Das File-1	2020-21	159,464
486	28/01/2021	RAR-01 Additional Land (Zaal)	2020-21	13,630
487	28/01/2021	Komila Bypass File-2	2020-21	274,650
488	28/01/2021	Komila Bypass File-1	2020-21	252,310
489	28/01/2021	Sigloo-2 File-2	2020-21	7,880,638
490	28/01/2021	Sigloo-2 File-4	2020-21	2,007,222
491	28/01/2021	Dam site Siglo-2 (File-4)	2020-21	79,359,651
492	28/01/2021	Uchar/Logro Reservoir area File-2	2020-21	45,115,260
493	28/01/2021	Dam site Siglo-2 (File-3)	2020-21	44,840,531
494	28/01/2021	Dam site Siglo-2 (File-2)	2020-21	30,412,764
495	11/02/2021	Barseen Baily Bridge Right Side (File-II)	2020-21	8,121,145
496	11/02/2021	Siglo-2 File-2	2020-21	3,906,508
497	11/02/2021	Sazin Limit to Sazin Nala PT-01	2020-21	1,926,201
498	11/02/2021	Barseen Baily Bridge Right Side (File-III)	2020-21	1,074,343
499	11/02/2021	Kaigah Quarry Area-II	2020-21	55,574,343
500	11/02/2021	Siglo-2 File-1	2020-21	54,605,040
501	11/02/2021	Baily Bridge Barseen /Koma Site-01	2020-21	14,764,410
502	11/02/2021	Gobar Nallah to Shukrait Nallah	2020-21	14,737,030
503	11/02/2021	Dam Site Siglo-2 File-1 (Additional Funds)	2020-21	640,769
504	22/02/2021	Siglo-3 File-1	2020-21	63,143,402
505	22/02/2021	Siglo-1 File-2	2020-21	24,788,900

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506	22/02/2021	Chilashi to Looter File-1	2020-21	11,326,019
507	22/02/2021	Seer Gayal RAR-II (Addl funds)	2020-21	13,854,021
508	25/02/2021	Shukrait Nalla to Shuri Nalla Reservoir	2020-21	1,284,760
509	25/02/2021	Lor Sazeen Das limit to Sazeen Nallah (Part-1)	2020-21	35,748,740
510	25/02/2021	KKH-02, End Point to Sazeen Das Limit	2020-21	738,218
511	25/02/2021	Bairlo Warisabad Reservoir area	2020-21	103,118,860
512	25/02/2021	Barseen Nallah Reservoir area	2020-21	7,288,104
513	25/02/2021	Barseen Dumping and reservoir area-1	2020-21	16,914,767
514	25/02/2021	Gadair Reservoir area File-1 (Part-1)	2020-21	2,244,452
515	08/03/2021	(LoR) Shukrait Nallah to Shuri Nallah (Addl. Land)	2020-21	933,935
516	08/03/2021	Access road to Resettlement site, Khoshi (Addl. Land)	2020-21	2,460,379
517	08/03/2021	Doga End Point to Gayal Nala (File-3)	2020-21	1,801,711
518	08/03/2021	LoR Shukrait Nallah to Shuri Nallah	2020-21	26,291,368
519	08/03/2021	Gadeer Reservoir Area File-1 Part-2	2020-21	7,956,592
520	22/03/2021	Siglo-2 File-1(Addl Funds)	2020-21	23,461,454
521	22/03/2021	Summer End Point to Lachi Limits	2020-21	2,768,137
522	23/02/2021	Gadeer Reservoir area File-4	2020-21	1,100,102
523	23/02/2021	LoR Lachi Nala-5	2020-21	84,695
524	02/03/2021	Sigloo-2 File-3 (addl funds)	2020-21	20,940,413
525	02/03/2021	Lachi Reservoir area File-5 (addl funds)	2020-21	5,164,145
526	02/03/2021	LoR Summar Nala to SazinLimit (addl funds)	2020-21	2,841,918
527	02/03/2021	LoR Lachi Nala-4	2020-21	8,360,214
528	02/03/2021	Sazeen Das Limit to Sazeen Nallah Part-III	2020-21	5,066,168
529	02/03/2021	Gumoon Start point to Gumoon end point	2020-21	1,049,991
530	07/04/2021	Komila Bypass File-1	2020-21	7,465,688
531	26/04/2021	Sazeen Das Reservoir Area-1	2020-21	33,526,212
532	26/04/2021	Gumoon Start Point to Gumoon End Point	2020-21	6,110,097
533	26/04/2021	Gadeer Reservoir Area File-4	2020-21	573,608
534	21/04/2021	Siglo-1 File-1	2020-21	234,022,257
535	21/04/2021	Kotgal to Dundar Start point Reservoir area	2020-21	64,550,544
536	21/04/2021	Gadeer Reservoir Area-2	2020-21	7,422,542
537	21/04/2021	Lachi Nallah File-1	2020-21	36,613,879
538	21/04/2021	Sazin Das Reservoir File-1	2020-21	29,683,764
539	21/04/2021	Lachi Nallah File-3	2020-21	26,641,326
540	21/04/2021	Lachi Nala File-2	2020-21	19,220,242
541	21/04/2021	Sazen Das Reservoir Area-2	2020-21	12,081,737
542	21/04/2021	Sazin Das Limit to Sazin Nala Part-3	2020-21	4,502,500
543	30/04/2021	Gayal / Kanda Reservoir Area	2020-21	156,734
544	30/04/2021	Dogah Nallah to Gayal Limits (File-2)	2020-21	202,894
545	30/04/2021	Bairlo Warisabad Reservoir Area	2020-21	23,378,602
546	30/04/2021	Barseen Contractor Camp-1	2020-21	890,585
547	30/04/2021	Dogah Nallah to Gayal Limits (File-1)	2020-21	19,152,654
548	30/04/2021	Dogah Nallah to Geyal Limits (File-3)	2020-21	943,731
549	30/04/2021	Gul-e-Bagh Reservoir Area	2020-21	63,777,264
550	30/04/2021	Barseen Nallah Reservoir Area	2020-21	530,647
551	30/04/2021	Gayal Nallah to Kandia Bridge Reservoir Area	2020-21	56,316,060
552	30/04/2021	Nala to Gayal Limits (File-2)	2020-21	8,574,388
552	20/05/2021	Dandar Reservoir Area	2020-21	21,458,126
553	06/05/2021	Komila Bypass File-3	2020-21	33,028,709
554	31/05/2021	Slich Bridet to Kotgal Reservoir Area	2020-21	3,263,215
555	31/05/2021	KKH-01 Additional Land Sliding Area at K-3 tunnel	2020-21	1,960,822
556	31/05/2021	KKH-01 Additional Land Bar Chuchang	2020-21	1,754,953
557	31/05/2021	Additional land Wapda Colony Chuchang	2020-21	1,154,090
558	31/05/2021	Natbail to Slich Bridge	2020-21	93,962,656
559	31/05/2021	Milar to Dogah Nallah File-2	2020-21	53,466,312
560	31/05/2021	Millar to Dogah Nallah (File-1)	2020-21	20,784,397
561	31/05/2021	Milar to Dogah Nallah File-3	2020-21	7,451,071
562	31/05/2021	Lachi Nala File-2	2020-21	178,452
563	31/05/2021	Millar to Dogah (FILE-3)	2020-21	3,199,854
564	31/05/2021	Dogah Nallah to Gayal Limit (File-2)	2020-21	837,835
565	31/05/2021	KKH-01 Additional Land K-3 Tunnel Sliding Area	2020-21	64,674
566	19/05/2021	Addl. Land Kumaro Nallah	2020-21	530,880
567	18/06/2021	Milar Reservoir Area	2020-21	116,825,717
568	18/06/2021	Salich Bridge to Kotgal	2020-21	81,366,218
569	18/06/2021	Natbail to Bair Kandia Reservoir Area	2020-21	47,982,311
570	18/06/2021	Siglo-1 File-1	2020-21	5,631,974
571	18/06/2021	Gadeer Reservoir Area (File-1) Part-1	2020-21	489,022
572	28/06/2021	Kotgal-2 Kandia Reservoir	2020-21	23,325,036
573	28/06/2021	Baily Bridge Barseen Komah Site-1	2020-21	15,120,314
574	28/06/2021	Jhali Nallah to Komah Nullah	2020-21	10,729,419
575	28/06/2021	Milar Reservoir Area	2020-21	8,239,075
576	28/06/2021	Dandar Reservoir Area	2020-21	7,839,952
577	28/06/2021	Dogah End Point to Gayal (File-3)	2020-21	5,504,587
578	28/06/2021	Dogah Nala to Gayal Limit (File-1)	2020-21	5,498,698

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579	28/06/2021	Dogah End Point to Gayal Nallah (File-2)	2020-21	4,491,472
580	28/06/2021	Gayal Nallah to Kandia Bridge	2020-21	3,482,384
581	28/06/2021	Dogah Nallah to Gayal Limit (File-3)	2020-21	3,350,143
582	28/06/2021	Kotgal to Dandar	2020-21	3,093,261
583	28/06/2021	Kishu Karh to Millar	2020-21	2,942,397
584	28/06/2021	Gumoon Start point to Gumoon End Point	2020-21	2,712,472
585	28/06/2021	Narbeer to salich bridge	2020-21	2,515,107
586	28/06/2021	Natbail to Bair Kandia Reservoir Area	2020-21	1,939,387
587	28/06/2021	Milar to Dogah Nallah (File-1)	2020-21	1,733,964
588	28/06/2021	Dogah Nallah to Gayal Limit (File-4)	2020-21	1,427,152
589	28/06/2021	Gayal / Kanda Reservoir Area	2020-21	1,413,808
590	28/06/2021	Salich Bridge to Kotgal	2020-21	1,349,024
591	28/06/2021	Warisabad Bairlo	2020-21	860,730
592	28/06/2021	Gumoon End Point to Uthoor Nallah	2020-21	773,035
593	28/06/2021	Milar to Dogah Nallah File-2	2020-21	676,286
594	28/06/2021	WAPDA Colony Addl. Land	2020-21	98,840
595	28/06/2021	Barseen Nallah Reservoir Area	2020-21	28,333
596	28/06/2021	Milar Reservoir Area	2020-21	26,104,060
597	28/06/2021	Dogah Nala to Gayal Limit File-1	2020-21	25,356,410
598	28/06/2021	Dandar Reservoir Area	2020-21	16,440,940
599	28/06/2021	Milar to Dogah Nallah (file-2)	2020-21	14,783,790
600	28/06/2021	Milar to Dogah Nallah (File-3)	2020-21	14,258,380
601	28/06/2021	Kotgal to Dandar Area	2020-21	9,686,560
602	28/06/2021	Dogah End Point to Gayal Nallah File-3	2020-21	9,593,500
603	28/06/2021	Salich Bridge to Kotgal Reservoir Area	2020-21	8,525,340
604	28/06/2021	Gayal Nallah to Kandia Bridge Area	2020-21	6,766,260
605	28/06/2021	Milar to Dogah Nallah (File-1)	2020-21	5,482,930
606	28/06/2021	Natbail to Salich Bridge Kandia Reservoir Area	2020-21	8,360,630
607	28/06/2021	Bairlo Warisabad Area	2020-21	4,900,580
608	28/06/2021	Natbail to Bair Reservoir Area	2020-21	3,154,650
609	28/06/2021	Barseen Nallah Reservoir Area	2020-21	3,033,900
610	28/06/2021	Gumoon Start point to Gumoon End Point	2020-21	2,752,950
611	28/06/2021	Dogah Nallah to Dogah End Point Reservoir Area File-3	2020-21	2,488,010
612	28/06/2021	Komila Bypass (File-3)	2020-21	1,733,200
613	28/06/2021	Dogah End Point to Gayal Nallah File-2	2020-21	1,034,960
614	28/06/2021	Kotgal-2 Kandia Reservoir Area	2020-21	424,790
615	28/06/2021	Siglo-2 File-1	2020-21	291,960
616	28/06/2021	Gayal / Kanda Reservoir Area	2020-21	178,770
617	28/06/2021	Dogah Nallah to gayal Limits (File-2)	2020-21	16,000
618	28/06/2021	Komila byPass File-3	2020-21	194,922
619	28/06/2021	Siglo01 (File-1)	2020-21	74,067
-	-	Total Amount Released in FY 2020-21		13,126,462,656
620	10/08/2021	Barseen Contractor Camp-1	2021-22	14,653,970
621	10/08/2021	Millar to Dogah Nallah File-2	2021-22	1,960,517
622	10/08/2021	Siglo Blasting Area	2021-22	540,569
623	23/09/2021	Kishu Karh Reservoir Area	2021-22	187,024,120
624	23/09/2021	Access road to Grid Station At Kuz Chuchang	2021-22	9,518,488
625	30/08/2021	Kotgal-2 Kandia Reservoir area	2021-22	15,448,737
626	10/09/2021	KKH-01 Additional Land ( Bar Chuchang)	2021-22	2,983,172
627	10/09/2021	KKH-01 Additional Land (Area-3) at Chuchang	2021-22	1,400,083
628	10/09/2021	New Additional KKH-01 Land Area-2	2021-22	1,091,677
629	10/09/2021	Kishu Karr Reservoir Area	2021-22	364,954
630	07/10/2021	Additional Land for WAPDA colony Chuchang	2021-22	596,368
631	07/10/2021	Access road to Grid Station At Kuz Chuchang	2021-22	375,256
632	07/10/2021	KKH-01 Addl Land Area-3 Chuchang	2021-22	91,504
633	15/10/2021	KKH-01 Additional Land Area-4A & 4B at Chuchang	2021-22	4,571,140
634	15/10/2021	KKH-01 Additional Land Area-4 at Chuchang	2021-22	3,070,090
635	18/10/2021	KKH-01 Additional Land (E-15) Khushi	2021-22	20,629,641
636	18/10/2021	KKH-01 ADDITIONAL LAND E-3/ ZERO POINT	2021-22	131,715
637	18/10/2021	KKH-01 Additional Land K-15 Tunnel Area 03B	2021-22	100,762
638	18/10/2021	KKH-01 ROW Additional Land Area-16	2021-22	19,125,711
639	22/10/2021	KKH-01 Additional Land E-4 (C) Uchar Nala (Area 4C)".	2021-22	60,457
640	22/10/2021	KKH-01 ROW ADDITIONAL LAND-3 AREA-16	2021-22	124,964
641	22/10/2021	KKH-01 ADDITIONAL LAND AREA-4 CHUCHANG	2021-22	115,948
642	22/10/2021	KKH-01 ADDITIONAL AREA 4A & 4B CHUCANG	2021-22	91,840
643	22/10/2021	KKH-01 AREA-14 AFTER UCHAR NULLAH	2021-22	43,540
644	22/10/2021	KKH-01 ADDITIONAL LAND K-15 TUNNEL AREA 03B	2021-22	34,832
645	22/10/2021	KKH-01 ADDITIONAL Land E-4 ( C ) UCHAR NUALL (AREA 4C)	2021-22	16,128
646	22/10/2021	KKH-02 (SAZEEN)	2021-22	79,596,249
647	22/10/2021	KKH-02(SHUKAIT NULLAH TO SHURI NULLAH )	2021-22	77,259,081
648	22/10/2021	KKH-02(SHURI NULLAH TO SUMMER NULLAH )	2021-22	34,257,666
649	22/10/2021	KKH-02(SHUKRAIT NULLAH TO SHURI NULLAH )	2021-22	28,464,733
650	22/10/2021	KKH-02 ADDITIONAL LAND (SUMMER NULLAH )	2021-22	22,982,784
651	22/10/2021	KKH-02 ADDITIONAL LAND (SHURI NULLAH TO SUMMER NULLAH)	2021-22	18,146,725

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652	22/10/2021	KKH-02 ADDITIONAL LAND (LOOTER TO SUKRAIT NULLAH ) Area-2	2021-22	14,680,369
653	04/11/2021	KKH-02 (Summarnala)	2021-22	60,757,874
654	04/11/2021	KKH-01 Additional Land Location-II (Khoshi)	2021-22	3,619,495
655	04/11/2021	KKH-01 Additional Land Area-3 Chuchang	2021-22	196,219
656	04/11/2021	KKH-01 Additional Land (A-05)	2021-22	1,213,353
657	25/11/2021	KKH-02 (Addl Land) Kaigah to Awai Area-2	2021-22	24,840,913
658	25/11/2021	KKH-02 (Addl Land) Looter to Shukrait Nallah Area-1	2021-22	17,763,573
659	25/11/2021	KKH-01 Addl Land A-14 after Uchar Nala	2021-22	4,527,929
660	09/12/2021	Siglo 1 File 1	2021-22	3,117,753
662	25/11/2021	Kaigah to awai Addl Land KKH 2 File 1	2021-22	101,524,072
663	09/12/2021	KKH 2 Kaigah to Awai Additional Land 2	2021-22	715,459
664	09/12/2021	Access Road to logro tunnel outlet	2021-22	258,623
665	09/12/2021	KKH-02 Summar Nala	2021-22	405,418
666	09/12/2021	KKH-02 Shukrait Nallah to Shuri Nallah	2021-22	2,309,870
667	09/12/2021	KKH-02 addl. Land (Looter to Shukrait Nallah)	2021-22	38,600
668	09/12/2021	KKH-01 (Addl Land) A-01	2021-22	4,361,405
669	09/12/2021	Access Road to Logro Tunnel Outlet Portal	2021-22	7,398,588
670	09/12/2021	KKH-02 Addl Land Shuri	2021-22	5,247,015
671	09/12/2021	KKH-01 ADDL. LAND AREA-5	2021-22	16,492
672	09/12/2021	KKH-01 NEW ADDL. LAND AREA-2 AT LARGANI	2021-22	17,052
673	09/12/2021	KKH-01 ADDL. LAND (A-01)	2021-22	57,372
674	29/12/2021	KKH-02 (Sazeen Area)	2021-22	4,665,900
675	29/12/2021	KKH-02 (Summar Nala)	2021-22	587,380
676	29/12/2021	KKH-02 Shurinala to Summar Nala	2021-22	2,402,887
677	29/12/2021	KKH-II Addl Land Shurinala to Summar Nala	2021-22	825,429
678	29/12/2021	KKH-01 Additional Land E-15 (Khushi)	2021-22	744,856
679	29/12/2021	KKH-01 Additional Land Location-II (Khushi)	2021-22	26,040
680	20/01/2022	KKH-02 Addl. Land (Awai to Looter)	2021-22	18,648,652
681	20/01/2022	KKH-02 ADDITIONAL LAND SAZEEN	2021-22	23,112,997
682	20/01/2022	KKH-02 ADDITIONAL LAND KAIGA TO AWAI AREA-2 (PART-A)	2021-22	1,685,377
683	20/01/2022	KKH-02 Looter to Shukrait Nala	2021-22	188,430
684	20/01/2022	KKH.02 Summer Nala	2021-22	4,952,713
685	20/01/2022	KKH.02 SAZEEN	2021-22	1,183,184
686	20/01/2022	KKH.02 Shukrait Nala To Shuri Nala	2021-22	940,684
687	20/01/2022	KKH.02 Additional Land Looter to Shukrait Nala Area.2A	2021-22	506,790
688	20/01/2022	KKH.02 Additional Land Shukrait Nala To Shuri Nala	2021-22	313,204
689	20/01/2022	KKH.02 Additional Land Summer Nala	2021-22	309,756
690	20/01/2022	KKH.02 Additional Land Looter To Shukrait Nala Area.1A	2021-22	263,788
691	20/01/2022	KKH.02 Additional Land Awai To Looter (Part.1)	2021-22	181,098
692	20/01/2022	KKH.02 Additional Land Looter To Shukrait Nullah Area.2B	2021-22	166,203
693	20/01/2022	KKH.02 (Shuri) Additional Land	2021-22	109,184
694	20/01/2022	KKH.02 Additional Land AWAI TO LOOTER (PART.2)	2021-22	109,117
695	20/01/2022	KKH.02 Looter To Shukrait Nala (Area.1, Part-B)	2021-22	75,942
696	20/01/2022	KKH.02 (Looter)	2021-22	9,938
<b>Total Amount Released in FY 2021-22</b>				<b>859,950,414</b>
<b>Total Amount in PKR Released</b>				<b>22,924,442,694</b>

### 5.3 Details of Interim Payment Certificates

Up to this month, status of Interim Payments Certificates (IPC) has been issued and the work executed is presented as in Appendix-F.

### 5.4 Details of Claims/Notifications

The Consultants continue to record and evaluate Claims for additional cost and Varied Works from the Contractors. The detail of the Claims submission and status of Contractors Claim Notifications up to this month is given in Appendix-G.

### 5.5 Variations Status

Status of Issued and proposed Variation up to this month is presented in Appendix-H.

### 5.6 Contract Information and Status of Guarantee & Insurance

The detail of the project completion dates along with EOT is given in Appendix-I named "Contract Information" and status of each Contract Guarantee & Insurance is given in Appendix-J named "Status of Guarantee and Insurance".

## 6 OHS MANAGEMENT ACTIVITIES

### 6.1 Incident Statistics and Description for the Reporting Month

#### A – Personal Injury (Work Related)

Contract Package	Incident Category								Total Incidents till Reporting Month (A+B)
	To End Previous Month				During Reporting Month				
	Fatal	LTI	MTC	Total (A)	Fatal	LTI	MTC	Total (B)	
KKH-01	1	9	7	17	0	0	1	1	18
KKH-02	0	0	0	0	1	0	1	2	2
RAR-01	1	8	4	13	0	0	0	0	13
RAR-02	0	1	1	2	0	0	0	0	2
132kV TL	3	1	0	4	0	0	0	0	4
MW-01	2	48	4	54	0	0	2	2	56
MW-02	1	17	4	22	0	0	0	0	22
LBRV-11 &12	2	1	1	4	0	0	0	0	4
PCI-01R	3	7	1	11	0	1	0	1	12
Dasu-RV	1	0	0	1	0	0	0	0	1
LADP-IKAN	0	1	0	1	0	0	0	0	1
LADP-RHC	0	1	0	1	0	0	0	0	1
DHC	0	6	3	9	0	0	0	0	9
PMU	0	1	0	1	0	0	0	0	1
<b>Total</b>	<b>14</b>	<b>101</b>	<b>25</b>	<b>140</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>6</b>	<b>146</b>

#### B – Personal Injury (Non- Work Related)

Contract Package	Incident Category								Total till Reporting Month (A+B)
	To End Previous Month				During Reporting Month				
	Fatal	LTI	MTC	Total (A)	Fatal	LTI	MTC	Total (B)	
KKH-01	0	0	0	0	0	0	0	0	0
KKH-02	0	0	0	0	0	0	0	0	0
RAR-01	1	0	1	2	0	0	0	0	2
RAR-02	0	0	0	0	0	0	0	0	0
132kV TL	0	0	0	0	0	0	0	0	0
MW-01	1	3	0	4	0	0	0	0	4
MW-02	1	1	0	2	0	0	0	0	2
LBRV-11 &12	0	0	0	0	0	0	0	0	0
PCI-01R	0	0	0	0	0	0	0	0	0
Dasu-RV	0	0	0	0	0	0	0	0	0
LADP-IKAN	0	0	0	0	0	0	0	0	0
LADP-RHC	0	0	0	0	0	0	0	0	0
DHC	0	0	0	0	0	0	0	0	0
PMU	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>

#### C – Machinery Damage

Contract Package	Incident Category							Total Incidents till Reporting Month (A+B)
	To End Previous Month			During Reporting Month				
	Major Damage	Minor Damage	Total (A)	Major Damage	Minor Damage	Total (B)		
KKH-01	17	13	30	0	0	0	30	
KKH-02	0	0	0	0	2	2	2	
RAR-01	4	3	7	0	0	0	7	
RAR-02	0	1	1	0	0	0	1	
132kV TL	0	2	2	0	0	0	2	
MW-01	6	18	24	0	0	0	24	
MW-02	3	7	10	0	0	0	10	
LBRV-11/12	1	6	7	0	0	0	7	
PCI-01R	0	1	1	0	0	0	1	
Dasu-RV	0	0	0	0	0	0	0	
LADP-IKAN	0	0	0	0	0	0	0	
DHC	3	6	9	0	0	0	9	
<b>Total</b>	<b>34</b>	<b>57</b>	<b>91</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>93</b>	

#### 6.1.1 Description of Incidents/Accidents (Work Related)

Date of Incident	Location of Incident	Contract	Description of Incident	Category	Corrective Action	Status
26 <sup>th</sup> Dec, 2022	Cat-1	PCI-01	At 11:45 hrs. a Chinese manager while walking back from site to camp, slipped and fell near Cat-1 dislocating his left wrist joint. The IP was shifted to DHQ Dasu for treatment and was advised for X-ray examination. The IP was then, shifted to Aqeel Memorial Hospital Abbottabad for X-ray which revealed that his left wrist joint was dislocated.	LTI (1)	Detailed report and RCA awaited	Open
24 <sup>th</sup> Dec, 2022	K-34	KKH-02	At 12:45 hrs., a loose boulder fell from a height of 89 meters, rolled down towards existing KKH road and hit a passing vehicle fatally injuring the driver. The IP was rescued and shifted to DHQ Dasu for lifesaving treatment but was pronounced dead later by the doctors.	FAT (1)	Detailed report and RCA awaited	Open
15 <sup>th</sup> Dec, 2022	K9 Tunnel	KKH-01	A driller was drilling the first layer of shotcrete at crown of tunnel when at 19:05 hrs. the shotcrete collapsed and hit the driller. The driller fell down from the platform and got head injury. The IP was provided first aid at K-9 Tunnel first aid station and later was shifted to DHQ Dasu for further treatment.	MTC	Detailed report and RCA awaited	Open
06 <sup>th</sup> Dec, 2022	Inlet	MW-01	At 20:10 hrs. a foreman while inspecting the top slab, tripped over a protruding rebar and fell off the slab on a	MTC	Reinforcement session to be done with the line management and site	Open

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Date of Incident	Location of Incident	Contract	Description of Incident	Category	Corrective Action	Status
			scaffolding platform about 6 meters down and kept rolling down the platforms and came to a halt on the lowest platform about 1 meter above ground. He received injuries to his head and back. The IP was rescued by his coworkers and shifted to DHQ Dasu. The wound on his head required four stitches. Doctors advised X-ray examination and referred to Abbottabad. The X-ray and CT scan was conducted and IP was cleared of any fracture or further damage.		working platform and PFAS shall be inspected by competent person before starting each shift. Conduct refresh training to all the workers and supervisors regarding SOP02 WAH and ensure the implementation and compliance at site. Issue warning letter to relevant site supervisor/team in charge and impose fine notice. Scaffold tag system should be implemented and also inspection on weekly and monthly basis.	
05 <sup>th</sup> Dec, 2022	K-47	KKH-02	The watchman hired to control access to the community cable lift for crossing the river, left his post without intimation and at 15:10 hrs. a local boy crossed the river in cable lift and ended up in the line of fire of the material dumping operation at K-47. He was hit on the left leg with a rolling stone. The IP was transferred to DHQ Dasu and doctor diagnosed a tibia fracture distally on his left leg.	MTC	Training of watchman that is assigned for access control. Relocate the access cable lift to a safe location away from work activities. Additional watchman to be hired for the left bank for effective communication and monitoring of access through cable lift.	Open
03 <sup>rd</sup> Dec, 2022	New Crush Plant	MW-01	Four welders were working on conveyor belt at a height of about six meters. All four were wearing full body harness which were hooked to anchor points. At 11:20 hrs. one welder slipped and fell towards the ground. The lanyard of the harness broke at impact and the worker hit the plywood laying on the ground. The IP was shifted to first aid station at Uchar and referred to DHQ Dasu by resident doctor. After X-ray examination by DHQ Doctors, the IP was cleared of any fracture or internal damage and discharged to camp.	MTC	Conduct refresher training to all the workers and supervisors regarding SOP02 WAH and ensure the implementation at site Issue warning letter to relevant team in charge and impose fine notice Reinforcement session to be done with the line managers and supervisors that the PFAS and working platform shall be inspected/tagged and verified before performing the task related to WAH.	Open

### 6.1.2 Description of Incidents/Accidents (Machinery Damage)

Date of Incident	Location of Incident	Contract	Description of Incident	Category	Corrective Action	Status
23 <sup>rd</sup> Dec, 2022	K-47	KKH-02	At around 13:30 hours work was stopped for lunch break and existing KKH road was opened for general traffic. When the traffic reached K-35+850, some loose stones fell from slope fell from a height of about 18 meters, hit the roof of local commuter vehicle and broke the wind screen.	Minor	NA	Closed
18 <sup>th</sup> Dec, 2022	K-47	KKH-02	At around 15:15 hrs. some loose stones on the slope fell from a height of approx. 15 meters and hit two passing vehicles at existing KKH road causing minor damages to vehicles.	Minor	NA	Closed

### 6.1.3 Key Performance Indicators – During Reporting Month

**Table 6.1: Key Performance Indicators during Reporting Month**

Metrics	PMU	DHC	RAR-01	KKH-01	TL-01	MW-01	MW-02	PCI-01	LBRV 11/12	RAR-02	KKH-02	EM-01	DHPP Total	Target
Number of Staff/Workers	309	440	96	523	26	1791	1751	312	0	96	152	69	5565	
Recordable Injuries & Illness (RI)	0	0	2	1	0	1	0	1	0	0	2	0	7	
Incidence Rate (TRIR, monthly) *	0	0	1.8	0.15	0	0.04	0	0.26	0	0	1.09	0	0.104	
TRIR (Year-to-date)														1.25 <sup>*1</sup>
Fatality Case	0	0	0	0	0	0	0	0	0	0	1	0	1	
Fatality Frequency Rate (FFR)	0	0	0	0	0	0	0	0	0	0	0.6	0	0.01	
Lost time injuries (LTI)	0	0	0	0	0	0	0	1	0	0	0	0	1	
LTI Frequency Rate (LTIFR monthly) **	0	0	0	0	0	0	0	0.26	0	0	0	0	0.04	1.0 <sup>*2</sup>
First-Aid Cases (FAC)	0	0	0	3	1	0	3	1	0	0	0	0	8	
FAC frequency rate (FACFR, monthly)	0	0	0	0.47	3.20	0	0.14	0.26	0	0	0	0	0.11	
Medical Treatment Cases (MTC)	0	0	0	1	0	2	0	0	0	0	1	0	4	
MTC frequency rate (MTCFR, monthly)	0	0	0	0.15	0	0.09	0	0	0	0	0.6	0	0.05	
Near-miss Incidence (NMI, monthly)	0	0	0	0	0	1	0	5	0	0	0	0	6	
NMI Investigated & corrective actions taken	0	0	0	0	0	1	0	4	0	0	0	0	5	
% NMI closed	0	0	0	0	0	100	0	80	0	0	0	0	83	100% <sup>*3</sup>
COVID19 cases	0	0	0	0	0	0	0	0	0	0	0	0	0	
COVID-19 per 100 workforces (CFR)	0	0	0	0	0	0	0	0	0	0	0	0	0	
No of OHS AFI attended by DHC	0	0	3	8	0	7	7	0	0	0	0	0	25	
No. of AFI approved	0	0	2	8	0	7	7	0	0	0	0	0	24	
No. of OHS EI issued by DHC	0	0	1	2	1	1	1	1	0	1	2	1	11	
NO of EI Closed	0	0	0	1	0	1	1	1	0	0	0	0	4	
% of OHS EI closed	0	0	0	50	0	100	100	100	0	0	0	0	36.37	
No. of OHS Training	0	0	5	17	4	167	166	4	0	95	9	4	471	

Training (No. Attendees)	0	0	58	105	64	2363	1521	107	0	1256	85	90	5649
No. of OHS NCR issued	0	0	0	2	0	2	0	0	0	0	0	0	4
No. of OHS NCR closed	0	0	0	0	0	0	0	0	0	0	0	0	0
% of NCR Closed	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of Toolbox Talks (TBT) by Contractors	0	0	37	45	24	496	496	16	0	60	155	21	1350
TBT Participants of Contractors	0	0	479	262	299	14880	14880	211	0	608	1395	552	33566
No of OHS walk-through-Inspections by													
Contractor Management/ Senior Staffs	0	0	0	15	0	5	5	4	0	5	0	4	38
DHC Management/ Senior Staffs	0	0	0	2	0	1	1	0	0	1	2	0	7
DHC Supervisors	0	0	2	13	1	17	13	5	0	6	4	1	62
Contractor Supervisors	0	0	0	98	7	31	31	9	0	31	0	3	210
Unsafe Acts identified by DHC	0	0	2	12	1	20	8	6	0	9	7	1	66
Unsafe Conditions identified by DHC	0	0	9	54	5	91	83	15	0	7	4	2	270
No of Joint Inspections Conducted	0	0	0	2	0	1	1	0	0	1	2	0	7
<sup>1</sup> DHPP TRIR Target for 2022 (assumed), <sup>2</sup> DHPP Lost Time Injury Frequency Rate (LTIFR) Target 2022, <sup>3</sup> % NMI Closer Target within 30 days, <sup>4</sup> COVID-19 Frequency Rate (number of cases per 100 workers/staffs). * IR = $\frac{\text{Recordable Incidences}}{\text{Total man hours worked per month}} * 16,000$													

**\*Please Note:**

No data from KGL, IKAN, received for the KPI data set for Nov 2022. This illustrates discontinuity associated with Contractor submitted data.  
No data reported from LBRV11/12 as it is in handover phase.

## 6.2 Safety Performance

In December 2022, 1 Fatality, 1 LTIs, 4 MTCs, 2 MVC and 8 first aid cases were recorded.

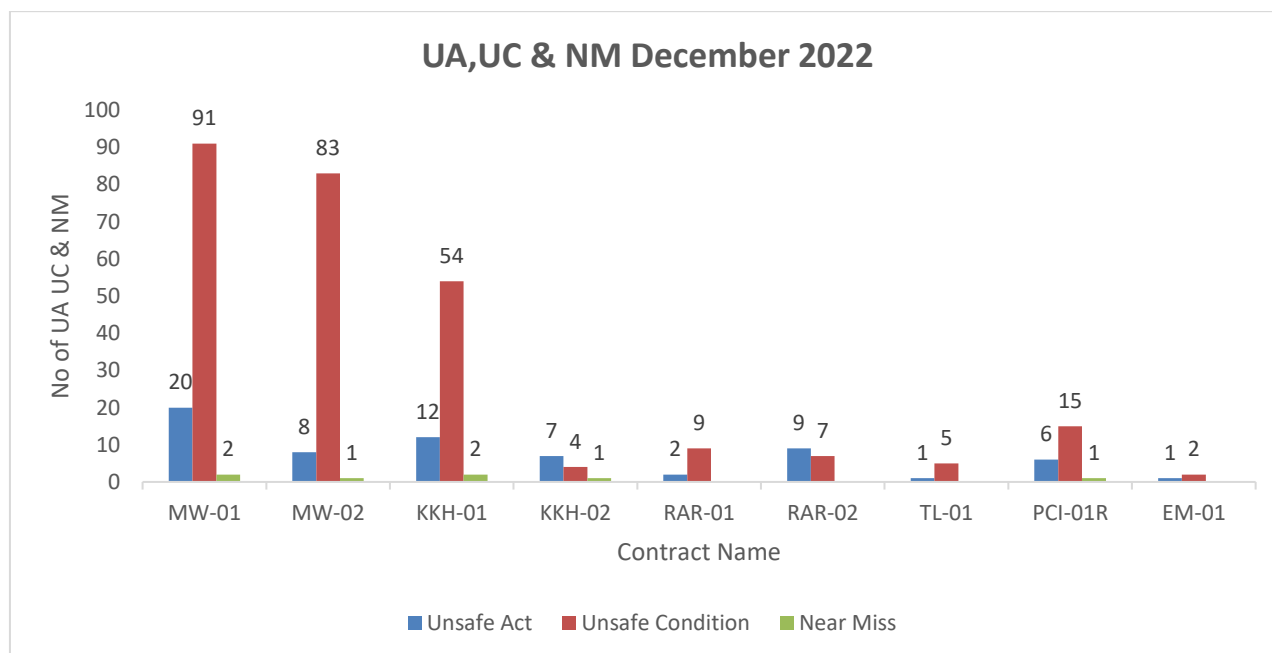
### 6.2.1 Injuries and Illness Performance

Total recordable injury and illness during the reporting month were one Fatality, one LTI, four Medical Treatment Cases. Out of which, one FAT at KKH02, one LTI at PCI01R, two MTCs at MW01 and one MTC each at KKH01 and KKH02 were reported. As a consequence, monthly TRIR, LTIFR & MTCFR of DHPP for December 2022 are estimated as 0.1, 0.01, and 0.05, respectively.

### 6.2.2 Unsafe Condition, Unsafe Act and Near-Miss

66 unsafe acts, 270 unsafe conditions and 5 near misses were identified during the reporting month including LADP project. Most of UA, UC and NM were related to MW-01 and MW-02 contracts.

Following table presents contract wise unsafe acts, conditions and near misses during the reporting month.



**Figure: Contract-wise unsafe acts and conditions**

### 6.2.3 Monthly OHS Progress Review Meeting

Following table presents the overall status of monthly OHS MOM for Dec 2022. All Contractors were instructed to close the remaining issues as soon as possible.



**Table 6.2: Status of Outcomes in December 2022 Monthly Progress Review Meeting**

Sl.	Contract	OHS MoM Status in Dec-22				
		Total	Open	Partially closed	Closed	New Items added
1.	MW-01/02	16	10	1	0	5
2.	RAR-01	11	4	0	3	4
3.	RAR-02	7	4	0	1	2
4.	KKH-01	16	00	0	3	3
5.	KKH-02	11	7	0	2	2
6.	PCI-01	7	3	1	1	2
7.	TL-01	10	6	0	3	1
<b>Total</b>		<b>78</b>	<b>44</b>	<b>2</b>	<b>13</b>	<b>19</b>

#### 6.2.4 Status of NCRs

The contract-wise status of NCRs can be seen in Table 6.3.

**Table 6.3: Status of NCRs since commencement of Project**

Contracts	Previous Open	Open in April	Previous Closed	Closed during reporting month	Total
KKH-01	1	2	4	0	7
RAR-01	1	0	6	0	7
TL-01	1	0	2	0	3
MW-01/02	3	2	41	0	46
PCI-01R	2	0	15	0	17
LBRV-11/12	0	0	2	0	2
RAR-02	0	0	2	0	2
LADP SA-01	1	0	0	0	1
LADP JMK	0	0	1	0	1
<b>Total</b>	<b>9</b>	<b>4</b>	<b>73</b>	<b>0</b>	<b>86</b>

#### 6.2.5 Joint Site Inspection by PMU, DHC, and Contractors:

OHS team of DHC conducted seven joint inspections along with PMU and contractors. The results are shared with all stakeholders. Joint inspection revealed significant improvements. Good observations were noted and the contractors were directed to improve the enhancement measures and continue good practices at sites. The summary of joint inspection is presented in the Table below.

Sl. No	Contract	No. of Joint Inspection by DHC, WAPDA & Contractors	No. of Joint Inspection by DHC & Contractors	Total
1.	MW-01/02	2	0	2
2.	RAR-01	0	0	0
3.	RAR-02	0	1	1
4.	KKH-01	1	1	2
5.	KKH-02	1	1	2
6.	PCI-01	0	0	0
7.	TL-01	0	0	0
8.	EM-01	0	0	0
9.	LADP	0	0	0
<b>Total</b>		<b>4</b>	<b>3</b>	<b>7</b>

#### 6.2.6 Training and Capacity building:

Training is a key element in construction projects to enhance a practical skill or behaviour of workforce in order to obtain optimum result and to prevent hazards, its associated risk and accidents/fatalities at workplace. This practice gradually increases the individual level of self-awareness, proficiency skill and motivation to perform his job well. Therefore, WB, PMU and DHC primarily emphasized on regular training program for the DHC, PMU and Contractors staff. Detail of trainings delivered by DHC OHS staff is described below:

Sl. No.	Trainings arranged by DHC				
	Date of Training	Subject of Training	Trainer	Target Group	No. of Participants
1.	December 18, 2022	Communicable Diseases	Mr. Muhammad Iqbal (Dep. Lead OHS)	DHC Staff	15
<b>Total</b>					<b>15</b>

#### 6.2.7 Plant and equipment Inspection

The contract-wise status of plant and equipment inspection can be seen in the below table

**Dasu Hydropower Project**  
**Monthly Progress Report No. 101 (December 2022)**

Contract Package	Total Inspection Conducted till 30 <sup>th</sup> September		Total Inspection Conducted During Reported Period														Total Inspections Conducted till October-22		
			Light Vehicles		Dump Trucks		Excavators		Jumbo and Conventional Drills		Shotcrete Jumbo Machines		Bucket Loaders		Other				
	Approved	Seized	Approved	Seized	Approved	Seized	Approved	Seized	Approved	Seized	Approved	Seized	Approved	Seized	Approved	Seized	Approved	Seized	
KKH-01	10	5			3	3	1							2		2		18	8
KKH-02	26	4	2	1										1				29	5
RAR-01	21	4			3		3							1				28	4
RAR-02	1	1																1	1
132kV TL	18	3																18	3
MW-01	2	0	1		3	1	3	1						1		1		11	2
MW-02	76	6			6	3	1	1						1		2		86	10
LBRV-11/12	0	0																0	0
PCI-01R	14	0																14	0
EM01	3	1	1		1		3									2		10	1
LADP-IKAN	0	0																0	0
LADP-KGL	0	0																0	0
DHC	48	9	14	1														62	10
<b>Total</b>	<b>219</b>	<b>33</b>	<b>18</b>	<b>2</b>	<b>16</b>	<b>7</b>	<b>11</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>277</b>	<b>44</b>

### 6.2.8 Covid-19 Cases

The contract-wise status of cases for the reporting month can be seen in the below table

Sl.	Organization	Number of Employees	Previous Cumulative Positive Cases till Date (A)	Positive Cases Reported this Month (B)	Total Number of Deaths till Date	Cumulative Positive Cases till Date (A+B)
1.	WAPDA	309	13	0	1	13
2.	DHC	440	84	0	0	84
3.	MW-01 and MW-02, KKH-02, RAR-02	3790	124	0	0	124
4.	KKH-01 & RAR-01	619	24	0	0	24
5.	PCI-01R	312	16	0	0	16
6.	LBRV-11&12	0	0	0	0	0
7.	TL-01	26	0	0	0	0
8.	EM-01	69	0	0	0	0
9.	<b>Total</b>	<b>5565</b>	<b>261</b>	<b>0</b>	<b>1</b>	<b>261</b>

### 6.2.9 Trainings by the Contractor

Details of trainings arranged by the Contractors are presented below:

Sl.	Contract	Number of Trainings during reporting month	No. of Participants
1.	RAR-01	5	58
2.	RAR-02	95	1256
3.	KKH-01	17	105
4.	KKH-02	9	85
5.	TL-01	4	64
6.	MW-01	167	2363
7.	MW-02	166	1521
8.	PCI-01	4	107
9.	LBRV 11/12	0	0
10.	EM-01	4	90
	<b>Total</b>	<b>471</b>	<b>5649</b>

### 6.2.10 Tool-box Talks by the Contractor

During the reporting period, contractors conducted toolbox talks and trained the staff on different safety issues during TBT meetings. Details of daily TBT is described below:

Sl.	Contract	Number of daily TBT conducted by the contractors during reporting month	No. of Participants
1.	RAR-01	37	479
2.	RAR-02	60	608
3.	KKH-01	45	262
4.	KKH-02	155	1395
5.	TL-01	24	299
6.	MW-01	496	14880
7.	MW-02	496	14880
8.	PCI-01	16	211
9.	LBRV 11/12	0	0
10.	EM-01	21	552
<b>Total</b>		<b>1350</b>	<b>33566</b>

### **6.3 General OHS Management Activities**

#### **6.3.1 High-Level OHS Management**

The International Environment Advisor B/ OHS Expert has been supporting the field team in the following matters:

- Review field progresses, prepare agenda for weekly OHS meetings, send Zoom invitations to all participants, attend and moderate weekly OHS meetings with DHC, PMU, and the World Bank,
- Review and edit November 2022 monthly report,
- Review incident investigation reports of November 28 and December 5 and provide comments on 5 Whys, and
- Review Letter 22-674 digging and extraction of surplus spoil material in Siglo, NCR 08/KKH01, and aggression report of December 19 and provide comments.

#### **6.3.2 OHS Systems and Procedures**

International OHS Specialist (Systems and Procedure) was not involved in this reporting month:

#### **6.3.3 OHS Underground Works**

International OHS Specialist (Underground Works) not been involved in this reporting month.

## 7 SOCIAL AND RESETTLEMENT MANAGEMENT ACTIVITIES

### Implementation Progress of Social & Resettlement (S&R) Management Plan

Work on SRMP implementation continued during the reporting month. Major activities carried out by various S&R teams during the reporting month are summarized below:

#### 7.1 Land Acquisition and Compensation Payment

Land Acquisition Team undertook the following tasks during the reporting month.

##### 7.1.1 Land Acquisition Status

As per updated status of Land Acquisition obtained from the Land Acquisition Section of the Deputy Commissioner's Office, Dasu, Kohistan Upper, a total land of about 4,652 acres has been awarded / acquired by the end of December 2022. It includes 729 acres of land (Batch-1) awarded before ECNEC decision (November 2019), as well as, 12 acres of land acquired for main works through direct payments to PTDC and FWO departments, while 3,923 acres of land was acquired after ECNEC decision (after November 2019). The land awarded after ECNEC decision; includes, 380 acres land acquired through compulsory acquisition and 3,543 acres land acquired under private negotiation. No new land was acquired during the reporting month. Land acquisition formalities for the remaining land remained under process according to the scheduled timeline. Batch-wise land acquisition status is given below.

**Table 7.1: Batch-wise Status of Land Acquisition (Updated by End of Reporting Month)**

Batch	Total Land To Be Acquired	Land Acquired	Remaining Land To Be Acquired	Status
Batch-1	741	729 (12 acres direct payment)	–	Possession of 100% land has been taken over by WAPDA.
Batch-2	957	957	–	Possession of 100% land has been taken over by WAPDA.
Batch-3	1,554	1,517	37	The possession of 1,516 acres (98%) of the acquired land has been taken over. The acquisition of remaining land is under process and delayed due to an enquiry being carried out by LAC.
Batch-4	981	981	–	Possession of 100% land has been taken over by WAPDA.
Batch-5	787	468	319	Acquisition of remaining land is under process. The possession of 221 acres (50%) of the acquired land has been taken over by WAPDA.
<b>Total</b>	<b>5,020</b>	<b>4,652</b> (12 acres direct payment)	<b>378</b>	The possession of 4,397 acres (95%) of the acquired land has been taken over by WAPDA

In addition to the above total (5,020 acres) land in District Upper Kohistan, about 654 acres land will be acquired in District Diamir making the total land to 5,674 acres.

##### 7.1.2 Status of Compensation Payments

By the end of the reporting month, a total amount of PKR 19.39 billion was paid, including PKR 19.05 billion to 7,871 PAPs through 11,671 cheques and PKR 245.240 million deposited to court for disputed cases. While PKR 27.717 million and PKR 65.598 million paid directly to FWO and PTDC respectively.

During December 2022, an amount of PKR 153,975,939/- was paid as compensation payment to 77 PAPs of 17 components. A total of 105 cheques were issued by DC office.

Component wise detail of payment is given in table below:

**Table 7.2: Compensation Paid during the Reporting Month**

S. No.	Component	PAPs	Cheques	Amount
1	Access Road to Resettlement Site 01 Area 04 Kuz Chuchang	23	25	38,681,180
2	Barseen/Komah Bailey Bridge Right Bank (Area-2)	3	3	5,237,955
3	Dam Site Siglo 2 (File 01)	2	2	1,497,017
4	Jhali Nullah to Kuma Nullah	1	1	557,936
5	KKH-02 Additional Land (Kaigah to Awai) Area-1 (A) Part-I	1	1	13,434
6	KKH-02 Additional Land Shukrait Nallah to Shuri Nallah	3	4	1,246,071
7	KKH-02 Additional Land Summer Nullah	6	6	3,001,255
8	KKH-02 Kaigah to Awai Area-1 (B)	6	9	9,622,694
9	KKH-02 Looter to Shukrait Nallah Area 1B (II)	1	1	83,628
10	KKH-02 Sammar Nala	7	8	4,220,733
11	KKH-02 Sazeen	11	11	67,398,258
12	KKH-02 Shukrait Nallah to Shuri Nallah	3	3	1,961,979

S. No.	Component	PAPs	Cheques	Amount
13	KKH-02 Shuri Nala to Sammar Nala	4	4	1,618,748
14	Looter Reservoir Area-1	1	22	16,746,595
15	Millar to Dogah Nullah File( 02) Part (A)	2	2	509,930
16	RAR-01 Zaal Area-03	1	1	237,689
17	Uchar Logro Reservoir Area File-2	2	2	1,340,837
<b>Total</b>		<b>77</b>	<b>105</b>	<b>153,975,939</b>

### 7.1.3 Land Revenue Survey:

During the reporting month revenue survey of the following three components remained under process:

- Revenue Survey of Shatial Nullah File 1 and 4 completed
- Revenue Survey of Harban Nullah File 4 and 6 completed
- Revenue Survey of near end point of reservoir file-5 completed

In addition, following revenue records were received from LAC office, and submitted to WAPDA office after digitization and verification by GIS section. Details are given in table below:

**Table 7.3: Component wise Digitization and Verification**

S/N	Component	Received On	Submitted on
1	Bailey Bridge Gumoon / Looter Right Side Area-2	09.12.2022	22.12.2022
2	LOR Shatial Limits to Shatial Nullah Area-3 Part-A	17.12.2022	21.12.2022
3	LOR Shatial Limits to Shatial Nullah Area-3 Part-B	23.11.2022	06.12.2022
4	LOR Shatial Limits to Shatial Nullah Area-4	18.12.2022	19.12.2022
5	LoR Shatial Nullah to Reservoir End Point Area-01	18.12.2022	19.12.2022
6	LoR Shatial Nullah to Reservoir End Point Area-2	18.12.2022	21.12.2022
7	Shatial Limit to Shatial Nullah Area-05	15.12.2022	19.12.2022
8	Crush Plant Seo Area	28.11.2022	03.12.2022

### 7.1.4 Cost Assessments and Verifications

Verification of cost estimates continued during the reporting month and verification of three components was completed and submitted to WAPDA for transfer of funds to LAC designated account. The details of cost assessments are given in Table below:

S/N	Component	Received on	Submitted On	Amount
<b>Land</b>				
1	Crush Plant Area Seo	06.12.2022	08.12.2022	22,492,222.00
2	Dogah End Point to Gayal Nullah Area-1	06.12.2022	08.12.2022	335,732,537.00
<b>Built up Property</b>				
1	Gul e Bagh Reservoir Area-01	12.12.2022	29.12.2022	183,752,481.00

### 7.1.5 Draft Sections/Corrigendum issued.

No Draft Sections/Corrigendum issued during the month of December, 2022

### 7.1.6 Meeting of Compensation Disbursement Committee (Attended) during Reporting Month.

- Add Land RAR Zaal Area-3
- Access Road to Resettlement Site-4 Kuz Chuchang

## 7.2 GIS Verification

The GIS Team processed the GIS verification of 15 received components (with an estimated area of 1,769 Kanals / 221 acres) during the reporting month, out of which GIS Certificate was issued for 08 components (426.15 Kanals / 53.25 acres), while GIS verification of Seven 07 components (1341.16 Kanals / 167.7 acres) was returned back to LAC/DC Office with observations for further rectification. Details are given in the Table below;

S. No.	Component	Area			Remarks
		Kanal	Marla	Sarsai	
1	Crush Plant SEO	59	11	0	Certificate issued at SI-2019 dated 03-12-2022.
2	Shatial Nallah to End of Reservoir Area-2	38	7	6	Certificate issued at SI-2019 dated 19-12-2022.
3	Shatial Nallah to End of Reservoir Area-1	45	9	5	Certificate issued at SI-2019 dated 18-12-2022.
4	Shatila limits to Shatila Nullah file-5	57	11	8	Certificate issued at SI-2019 dated 18-12-2022.
5	Shatila limits to Shatila Nullah file-4	122	2	3	Certificate issued at SI-2019 dated 16-12-2022.
6	Shatila limits to Shatila Nullah file-3 (Part-B)	5	4	3	Certificate issued at SI-2014 dated 05-12-2022
7	Shatila limits to Shatila Nullah file-3 (Part-A)	68	9	3	Certificate issued at SI-2014 dated 19-12-2022.

S. No.	Component	Area			Remarks
		Kanal	Marla	Sarsai	
8	Shatila limits to Shatila Nullah file-2	116	8	8	GIS observation sent to LAC office 19-11-2022, and rectified record received 23-11-2022 and again, error found in Masavi. Letter sent to LAC office for Correction dated 5-12-2022
9	Shatila limits to Shatila Nullah file-1	162	4	4	Geo-Referenced Masavi with survey data after process found error in masavi. Letter sent to LAC office for correction accordingly dated 5-12-2022.
10	Bailey Bridge Gumoon Looter (Right Side) Area-2	29	19	6	Certificate issued at SI-2014 dated 21-12-2022.
11	Dogah Nallah to Gayal Nallah File-1 (Seer Gayal Village)	378	7	7	After Site Visited with line departments 2nd observation sent to LAC office dated 26-12-2022.
12	Shatial Nullah to End of Reservoir File-4	44	11	4	GIS observation sent to LAC Dated 27-12-2022
13	Shatial Nullah to End of Reservoir File-5	542	1	0	Geo-Referenced Masavi with survey data after process found error in masavi. Letter sent to LAC office for correction accordingly dated 9-12-2022.
14	Shatial Nullah to (Harban) End of Reservoir File-6	48	12	5	Geo-Referenced Masavi with survey data after processing found error in masavi. Letter sent to LAC office for correction accordingly dated 9-12-2022.
15	Shatial Nullah to End of Reservoir File-3	49	10	0	GIS 117 out of 321 observations sent to LAC office Dated 12-12-2022
Total		<b>1768</b>	<b>11</b>	<b>8</b>	

### 7.2.1 Status of Land Lease of Kass

On an overall, about 87% of Kass Area has been taken over by WAPDA. Kass Area-1 (File- 2) and Kass Area-2 has been handed over to CGGC. Similarly, major portions of Kass Area-1 (File-1) and Kass Area-1 (File-3) has also been taken over and handed over to E&M and CGGC contractors. However few houses with disputed title ownership are still to be paid lease amounts and relocation is delayed. Status of various components of Kass in term of payments and land handover by the end of reporting month is as under;

#### a) Kass Area-1/File-1 (413K-14M-03S)

- All 83 beneficiaries of Kass have signed the agreement and have received the advance (3-months land lease rent + 10% of the BUP Value) as well as the remaining cheque of remaining amount (57-months land lease rent + 90% of the BUP Value).
- Almost all houses have been demolished except few which are disputed (0.25 acres). Possession of 01 lesser (16 Marla Area) has recently taken over after court decision. Out of total 103 K, about 90K (11 acres) land has been handed over to E&M contractor and contractor is working in the area.

#### b) Kass Area-1/File-2 (223K-05M-02S)

- Advance as well as final payments to all 27 AHHs of Kass Area-1/File-2 have been completed. All houses have been demolished and the area has been taken over by WAPDA on 13-08-2021.

#### c) Kass Area-1/File-3 (457K-01M-04S)

- Agreement signing of Kass Area-1/File-3 yet not completed and out of total 105 beneficiaries 63 have signed the agreements. Remaining beneficiaries did not sign the agreement mainly due to land dispute / court cases and resistance of few households.
- Out of total 63 beneficiaries (who have signed agreement), 59 have been paid the advance money (3-months land lease rent + 10% of the BUP Value), while 53 households have demolished their houses and they have been paid the remaining amount (57-months land lease rent + 90% of the BUP Value).
- About 48% of the area (219 Kanals) have been taken over by WAPDA and the houses have been demolished. The demolishing of remaining houses is in progress and cheques are ready for payment as soon they will complete the demolishing of their houses.
- The teams are working on the files of Kass Area-1 / File-3 and following up the remaining PAPs to make them agree for receiving their advance payments as early as possible. However about 47.2 kanals land is disputed and the Jirgas are underway to resolve the disputes as early as possible.

**d) Kass Area-2 (393K-16M-05S)**

- All 110 beneficiaries have signed the agreement and have been paid the advance money (3-months land lease rent + 10% of the BUP Value).
- All the houses have been demolished after paying the remaining amount (57-months land lease rent + 90% of the BUP Value).
- 100% of the area (393 Kanals) have been taken over by WAPDA and the houses have been demolished.

**7.3 Development of Resettlement Sites and Relocation**

Resettlement and Relocation (R&R) Team carried out various tasks / activities during the reporting month. These mainly include; monitoring of all on-going resettlement sites under construction (LBRV-11, LBRV-12, and Dasu RV), preparation of TRP files and release of payments / cheque, compilation of household data as per revenue record, updating HHs information on MIS and meetings with various stakeholders.

Task-wise details of activities carried out by R&R Team during December 2022 are given below:

**7.3.1 Progress of Seven under Construction Resettlement Sites (under construction)**

There are four RV Packages (LBRV-11, LBRV-12 and RBRV-11, and Dasu-RV) consisting of 21 resettlement sites have been tendered and awarded to three contractors under four contracts (LBRV-11, LBRV-12, RBRV-11, and Dasu RV).

Currently seven resettlement sites are active. The contract of Zhongmei for LBRV-11 & 12 was commenced on December 26th 2018 and five priority sites (Nasirabad 1&2, Khushi 1&2 and Uchar-1) were handed over to the Contractor, while only two sites of Dasu-RVs (Chuchang Rv-1 & 4) contracted to Khyber Grace Limited (KGL) and was commenced on 18th June 2019 and the area was handed over to the contractor.

Enhanced Self-managed relocation Package was announced by Deputy Commissioner Kohistan on 31st May, 2021 that the AHHs have the option to change their stance from resettlement site to self. After the announcement, majority of AHHs opted self-resettlement.

The work only on seven resettlement sites of LBRV-11 & 12, and Dasu-RV remained in progress. Social & Resettlement Teams monitored the sites under construction and resolved the emerging issues.

During December 2022, the following activities were carried out:

**a) Resettlement Site Nasirabad 1&2**

During the reporting month, S&R team visited RV Nasirabad-01 in pursuant to the application submitted by Mr. Jamil Khan the resettling HH of the mention RV. In his application the applicant stated that the contractor have not removed the disposal materials (Excavated Loose Materials) dumped at three points of the mention RV.

S&R team have observed that, being agreed on the urgent removal of the disposal material during the joint visit to this RV on August 3, 2022, the contractor yet not removed the loose materials from all three spots.

**b) Resettlement Site Khushi-1**

During the reporting month S&R team organized a consultation meeting with the resettling AHHs of RV Khushi-01. The agenda of this meeting was to get signed the agreement by the resettling villagers with the owner of water source Mr. Muhammad Idrees alias Hubab Shah (Chairman Tehsil Council Dasu). In this meeting the participants have been told to get the agreement signed as early as possible so that the feasibility of the subject water supply could be initiated timely for further process. The community responded that the owner is not present in the district and shall come back within coming couple of days as and when he arrived here in Dasu they shall get the agreement signed with them.

S&R team prepared 74 TRP files of the resettling AHHs and submitted to WAPDA for the payment of their remaining installments.

**c) Resettlement Site Uchar -1**

In resettlement site Uchar-01 the contractor was abide to remove the excavated loose material in disposed in between the both terraces and form the outer edge of the access road. During the visit

S&R team observed that, the contractor again did not removed the disposed loose materials and left the site as it was previously.

During the reporting month S&R team have prepared 17 TRP files for the resettling AHHs of this RV and submitted to WAPDA for the payment of their remaining installments.

**d) Resettlement Site Khushi-2 link-01**

Same is the case is here with resettlement site Khushi-02 Link-01 where the contractor have done nothing which were agreed during the joint visit paid in august 2022. During the reporting month S&R team prepared 06 TRP files pertaining to the AHHs of this RV and submitted to WAPDA office for the payment their remaining installments.

**e) Resettlement Site Chuchang-01**

During the reporting month S&R team have prepared 03 TRP files for the AHHs of this RV and Submitted to WAPDA office for the payment of their remaining installments. Work on this RV is in progress limited speed.

**f) Resettlement Site Chuchang-04**

Consultation meeting was held on 14-12-2022 with RV-4 community for relocation of houses and evacuate the area as the contractor requires working space. The community was also informed that each household were compensated with TRP package but the community shows their apprehensions that at this time we cannot manage the residential houses in the local area and time taken for further consultation among the remained community members.

During the reporting month S&R team have prepared all 22 TRP files for the AHHs resettling in this RV and submitted to WAPDA office for the payment of their remaining installments. Work on this RV is also in slow progress.

**7.3.2 SMR Implementation Progress**

- i. By the end of December 2022, an amount of Rs. 2,901.15 Million have been paid to 830 Affected Households. So far, 1,081 cases have been approved after field verification and Review process. ESMR Cheques of remaining 251 have also been prepared and the payment is in progress.
- ii. About 99 cheques were disbursed during the reporting month, though the progress of ESMR payment / cheque disbursement was slow, however, quite better than the last month. A number of consultation meetings and jirgas were held with community in Deputy Commissioner's Office to brief them about the situation and complete relocation in priority areas as early as possible.
- iii. The SMR Working Committee have almost completed all targeted files (1878) while Field Verification Committee have completed field verification of about 1831 ESMR cases by end December 2022. Review & Scrutiny Committee has disposed of 1,561 files by the end of the reporting month.
- iv. All SMR Committees also kept engage in revising the referred back files as per the comments of Review & Scrutiny Committee (RSC) and Payment Committee (PC). Weekly Progress Review meeting convened by the Deputy Commissioner also held regularly during the reporting month, in which targets were set and progress reviewed.
- v. The S&R field teams remained engage in getting missing signs of AHHs on Affidavit & Other Documents as well as signs on Special Power of Attorney.
- vi. The S&R Team also remained engaged to receive & review number of applications regarding SMR from the community. The reply of priority applications was prepared and submitted.
- vii. List of 79 additional households submitted to WAPDA was also process and field visits were made by WAPDA staff before approval. WAPDA office has approved 28 cases from Kuz Chuchang village and provided list to Working Committee for preparation of ESMR files. Working Committee prepared these files and submitted to FVC for field verification during the month.
- viii. Working Committee also remained engage in preparing files of "More Than One Shareholder" and reconsideration of "CNIC Addresses Cases" as per decision of Project Steering Committee.



- ix. Relocation of houses from 08 priority villages remained in progress and majority of the houses from Barseen, Uchar, and Bar Chuchang relocated to other places after demolishing their houses. During the reporting month Task Force Committee demolished about 20 houses from 8 priority villages (Siglo and Chuchang Area).

### 7.3.3 Status of TRP Payment

At the end of December 2022, a total amount of PKR 79,723,447/- paid as TRP to 210 RVs (PKR 68,868,554/-) and 86 self-opted (PKR 10,854,893/-) AHHs of 13 components. In addition, PKR 3,926,220/- were paid to 43 commercial structures of Barseen, Khushi, Siglo and Tailrace Kuz Chuchang Area.

During the reporting month, M&E team conducted a verification exercise, updated missing entries and corrected components in the database.

**Table: Status of Payments of TRP and Allowances to the Owners of AHHs**

S. No	Component	Status by upto previous month			Status during reporting month			Grand Total
		RVs	Self	Amount	RVs	Self	Amount	
1	Additional ROW (KKH-01)	6	4	4,456,086	0	0	-	4,456,086
2	Bar Chuchang	1	3	543,869	0	0	-	543,869
3	Khushi Access Road to Ventilation Tunnel	13	1	4,790,800	0	0	-	4,790,800
4	Khushi Dumping	9	8	5,016,191	0	0	-	5,016,191
5	Khushi to Logro	58	0	4,750,000	0	0	-	4,750,000
6	KKH-01 (ROW)	34	22	23,032,961	0	0	-	23,032,961
7	Logro	43	0	20,876,616	0	0	-	20,876,616
8	RAR-01 (ROW)	16	26	9,245,959	0	0	-	9,245,959
9	Uchar Thoki (Uchar Contractor Camp-2 Thoki)	15	0	755,000	0	0	-	755,000
10	WAPDA Offices and Colony Chuchang	1	0	416,447	0	0	-	416,447
11	Zhongmei Camp	4	1	2,658,200	0	0	-	2,658,200
12	Khushi Access Road	0	18	2,263,741	0	0	-	2,263,741
13	Tailrace Area Kuz Chuchang	10	3	917,577	0	0	-	917,577
	<b>Total</b>	<b>210</b>	<b>86</b>	<b>79,723,447</b>	<b>0</b>	<b>0</b>	<b>-</b>	<b>79,723,447</b>

The updated status for the payments of project allowances to the owners of Commercial Structures is given in below Table. During the reporting month, no cheque was issued for commercial structures

**Table: Status of Payments of Allowances to the Owners of Commercial Structures**

Sr. No.	Component	Status by upto previous month		Status during reporting month		Grand Total
		# of Commercial Structures	Amount Paid (Rs)	# of Commercial Structures	Amount Paid (Rs)	
1	RAR(RoW) Seo Village	8	448,784	0	0	448,784
2	Khushi Access Road	10	638,938	0	0	638,938
3	Tailrace Area Kuz Chuchang	13	1,555,708	0	0	1,555,708
4	Barseen	12	1,282,790	0	0	1,282,790
	<b>Total</b>	<b>43</b>	<b>3,926,220</b>	<b>0</b>	<b>0</b>	<b>3,926,220</b>

### 7.3.4 Status of Demolished Houses

Deputy Commissioner Kohistan constituted a Task Force Committee for demolishing of houses who received their compensation payments, ESMR & all other project allowances and not willing to relocate from priority areas. The area is required for Contractor on urgent basis. The Task force has dismantled the 20 houses during the month of December 2022 who received all their compensation payments and project allowances, including ESMR package. So far, a total of 507 AHHs have been relocated after demolishing their houses

### 7.3.5 Other Major Activities Carried Out by R&R Team

The following other major activities were carried out by R&R team during reporting month:

- i. Updated Commercial Structure's list of different villages comprised Bar Chuchang to Summer Nullah on left bank and from Sigloo to Gummo village on right bank.
- ii. Response and reply of different letters to WAPDA as received from WAPDA belonged to different areas.

- iii. During the month, weekly meetings on missing documents in ESMR Files attended in LAC Office. The meeting organized and Chaired by Land Acquisition Collector and attended by 04 community members.
- iv. During the reporting month S&R team visited Resettlement site Nasirabad 1, Uchar 1 and Khushi 2 Link-01 to observe the progress of minor nature remaining work as per punch list of infrastructure section and per the agreed decisions which were taken during the joint visit to all RVs in back August and September. It has been found that on the ground the contractor had not completed the agreed works on all resettlement sites. The detailed report of field visit have already been shared with the concern quarters.
- v. During the reporting month S&R team paid a joint Field Verification Visit to Kuz Kai and Millar village for the verification of 27 Houses for ESMR package. The visit was accompanied by Assistant Commissioner (R)/Convener Field verification committee, Chief S&R (DHC), Ad PC&P-WAPDA and Jr. Resettlement Professional-DHC.
- vi. Attended 52<sup>nd</sup> meeting of Review & Scrutiny Committee (RSC), reviewed and scrutinized 45 ESMR files pertaining to various components of Somar and Panibah area. Those files which were having no ambiguities and were complete in all respect have been furnished to SMR-IC, the doubt full files are referred back to Working Committee (WC) for further needful actions.
- vii. During the reporting month S&R team have scanned and printed 39 ESMR paid files for the office record and also prepared 39 admissible project allowances files pertaining to various components.
- viii. On the directives of Chief S&R the Social & Resettlement Team have prepared 140 Qabzul Wasools for the shifting & Reconstruction allowances for the SMR approved files by SMR-IC but yet not paid. It was decided in a meeting held in WAPDA office that the both the ESMR and admissible allowances cheque shall be paid simultaneously to the ESMR eligible households.
- ix. During the reporting month S&R team had a meeting with the Soniwal (Gold Extractor) Community in S&R Jirga hall. Total 14 Soniwal HHs shall be affected by the interventions of DHPP and all these HHs belong to the Khalilabad village of Derail valley District Diامر. The working area of these Soniwals community was extending from Shetyal to Dasu and sometime up to District Lower Kohistan as well. A meeting was convened with them in which they introduced themselves and followed by the detail interview through a checklist and semi structured questionnaire. The purpose to interview this community was to know about the future intentions/Deliberation as their working areas has been affected and now, they are not allowing by the security agencies due to momentum of work particularly in the DHPP Reservoir Area.
- x. A detail meeting was held 30-12.2022 with NES Pak Team (Consultants hired by WAPDA for LADP, Livelihood, Downstream Stream Impact Management and Public Health). S&R Team briefed NES Pak team about social section activities and assured that DHC social team will facilitate when required.

#### **7.4 Public Consultation and Participation**

Major activities carried out under Public Consultation and Participation Section during the reporting month are briefed as below:

##### **7.4.1 Public Consultations Regarding Resettlement Sites**

Construction work on seven priority sites remained in progress during the reporting period. The Public Consultation and Participation (PC&P) Team remained engaged in resolving social issues mainly on the handed-over resettlement sites, where Zhongmei and KGL contractors are involved in construction works. Consultation team provided its support in resolving the issues related to design or any conflict between contractor and community during the construction activities. A number of consultation meetings were conducted over the period of three years (from commencement of construction work).

Social and Resettlement Section of DHC holds a series of meetings with communities of under developed Resettlement Sites to inquire about any reservation or issue related to site development. The basic aim for these meetings was to discuss the issues or concerns of the community and resolve these issue with input from technical team.

- i. A Consultative meeting was held with AHHs of Khushi village. These AHHs have planned to resettle at Khushi 1 Resettlement Site. Initially there were 65 HHs agreed to resettle of the said site. The site plan was finalized and contract was awarded. Later on, total AHHs from Khushi raised to 79. A meeting was held with these additional household to identify the land for development of their plots. The identified site was declared non feasible from Infrastructure section. These additional HHs have least interest in resolving the issue. Despite the several reminders for meeting only few of them attended the meeting and asked for some time to consult with different groups for the provision of land for plots. A meeting was planned to be conducted during the last week of December. But at the day, AHHs told that there is a death among them and they cannot attend the meeting. The AHHs has not shown any interest afterwards. The issue is still pending
- ii. The Infrastructure and social teams conducted a community meeting in September to finalize the handing over timeline. During that meeting community raised some minor issues related to the finishing of development work. One of the main issue among was the removal of material dumped by the contractor in the land outside the Resettlement site. The contractor was instructed to remove the said material and clear the site. Now the community, through Mr. Jameel submitted an application to WAPDA regarding the same issue. The social team met with Mr. Kan, Infrastructure team and asked them to instruct the contractor to do the needful as agreed during the meeting held in September 2022. It was decided that the contractor will be instructed to remove the material as agreed with the community. The said material was dumped in the site during the development of plots with consent of community and surety from contractor to remove it lately. Moreover, the social team visited the site along with community to verify the current condition of the said issue. During the visit it was observed that the material is still dumped in the plot and needs to be removed as promised by contractor earlier. One window of the masjid was also damaged and needs to be repaired accordingly
- iii. A joint visit with Director (S & R) WAPDA, Chairman IGRC and Infrastructure Team from DHC was conducted to Kuz Chuchang regarding the re-alignment of Access Road for Upper portion. According to community, the approved design is contains very steep slope and it would be dangerous for cars or vehicles. Mr. Anwaar, the design engineer told that the elevation of the road is calculated to be 17 % which is a normal. He briefed the meeting about the points of road, from start point to end point and possible turns and elevation. It was also told that the elevation of Khushi Access Road is more than 17 % and it carries dumpers and cars safely. After thorough discussion and technical assessment, it was agreed that the designer will revise the design and try to minimize the elevation by extending the loop. The issue is now with the Infrastructure Team to realign the road to minimize the elevation.

#### **7.4.2 Public Consultations Regarding Temporary Relocation Package**

WAPDA approved to pay a Temporary Relocation Package (TRP) to the eligible Affected Households in case the construction area is required while the proposed resettlement sites for the area are under development. In this regard community is being consulted for the requirement of the area and briefed about the details of TRP. After the agreement of the concerned community the case is forwarded to WAPDA for further process. So far, about 15 consultation meetings have been held with community for their consent over TRP. During the reporting period no new TRP request was received. PC & P assisted the Resettlement team in preparing the files for earlier TRP cases.

Sr. No	TRP Component	Consultations Done (By November 2022)	Consultations Done (During Reporting Month)	Remarks
1	Kuz Chuchang	04	01	- Community is not agreed to relocate before March 2023

WAPDA Offices and Colony work is undergoing and contractor is working on full pace. Some of the Chuchang community that planned to resettle on under construction Chuchang RV 4 is currently residing along the working area of the colony. As the volume of work is increasing and there are also some security concerns for Chinese contractor. The Authority decided to relocate the AHHs from the area. In this regard, a meeting was held with the AHHs, which are resettling on the under construction Chuchang RV 4 and the current security concerns were shared with them. Those AHHs were briefed about the Temporary Relocation Package (TRP) and told that WAPDA is offering TRP as the area is now required. The community after thorough discussion requested for some time to discuss the matter with other stakeholders. The next meeting was held two days afterwards and community shared that the AHHs are not agreed to get TRP and move on temporary

basis due to the unembellished weather and not availability of houses in the area during this season. The community requested that they can relocate on temporary basis after this winter season i.e., not earlier than March 2023. The issue is still pending and needs further consultation.

#### **7.4.3 Public Consultations Regarding Other Components / Construction Sites to Resolve Issues**

Consultation and Participation team also extends its support for other construction components i.e., Roads, TL and Gender Implementation. During the reporting period no issue was emerged to be referred to PC & P.

A meeting was held with newly mobilized consultants' team from NESPAK. The said team will look after the Local Area Development, Downstream Fisheries Management, Livelihood and Public Health components. Guests were briefed about the working of different sections of S & R along with the progress and updates on different components of the project. The status of LAD Schemes, the challenges they might face during the implementation and other minor concerns were also discussed during the meeting. The potential for some livelihood interventions was also conferred and the livelihood specialist from GDC shared the past experiences and details of earlier programs for livelihood.

#### **7.4.4 Other Major Activities Carried Out during the Reporting Month**

Public Consultation and Participation section of DHC extended its services with Land Acquisition Cell (LAC) to assist Sub Registrar for completion of documents for private registration deeds to acquire land for various Additional Land for different components.

### **7.5 Income and Livelihood Restoration**

Key activities carried out under "Income and livelihood Restoration" Section during the reporting month are briefed below:

#### **7.5.1 Pre-Evaluation Survey and Reports Regarding Utilization of Compensation Money**

A number of components have been awarded and the compensation payments either have been completed or in progress for many components. The ILRP Team is involved in conducting surveys and preparing reports for knowing the proper utilization of compensation money for all completed components.

The purpose of these surveys/reports is two-fold: First to recognize, how compensation money is utilized by Project Affected Persons (PAPs) for the development of sustainable income and restoration of livelihood means within the available opportunities and options in the project area. Secondly, to outline the opportunities which are available with the project and need of technical skills in establishing sustainable entrepreneurship for the PAPs.

The survey/report presents results on the intentions/perceptions of affected communities to utilize compensation money in terms of "who wants what" and how to utilize the compensation amount productively. This was important because unexpected huge amounts were disbursed to PAPs due to DHPP and ***"Rocks have turned / turning into cash"*** & *new income generating opportunities are emerging if spent / invested wisely*. Table below shows the details of completed and submitted reports.

So far following 13 reports on 39 components have been completed and submitted to WAPDA,

**Table 7.4: Status of Submitted Reports on Utilization of Compensation Money**

<b>Sr. No</b>	<b>Village Name</b>	<b>Component Name</b>	<b>Submitted on</b>
1	Uchar	1. Contractor Camp Uchar	December,2016
	Zaal	2. Contractor Camp Zaal	
2	Bar Chuchang	1. WAPDA Colony	October,2017
	Kuz Chuchang	2. Grid Station	
3	Uchar	1. Access Road Uchar	June,2018
	Barseen	2. Access Road Barseen	
4	11 villages (Dasu to Kaigha)	1. KKH-01	March,2019
5	6 Villages (Kass to Sigloo)	1. RAR-01	March,2021
6	Kotgal Village	1. Kotgal Reservoir-01	March,2021
		2. Kotgal Access Road	
		3. Japan bridge to Dhundar	
7	Uchar Village	1. Access Road to R. Site-1 Uchar	August,2021
		2. Contractor Camp-2 (Thoki Uchar)	
		3. Dumping area Uchar	
		4. Contractor (Zhongmei) Camp Uchar	
		5. Uchar to Logroo reservoir	

Sr. No	Village Name	Component Name	Submitted on
8	Pani Bah Village	1. Pani Bah Access Road	August,2021
		2. Pani Bah Reservoir-01	
		3. Pani Bah Reservoir-02	
9	Logroo Village	1. Logroo-01	August,2021
		2. Logroo-02	
		3. Logroo Reservoir-01	
		4. Logroo Reservoir-02	
10	Kuz Chuchang	1. Tailrace Area	August,2021
11	Sigloo Village	1. Sigloo-1 File-1	December,2021
		2. Sigloo-1 File-2	
		3. Sigloo-2 File-1	
		4. Sigloo-2 File-2	
		5. Sigloo-2 File-3	
		6. Sigloo-2 File-4	
		7. Sigloo-3 File-1	
		8. Sigloo-3 File-2	
12	Barseen Village	1. Barseen Reservoir Area-1	April,2022
		2. Barseen Reservoir Area-2	
		3. Barseen Contractor Camp-1	
		4. Barseen Access Road	
		5. Barseen Nullah Reservoir Area	
		6. Barseen Zhongmei Explosive Magazine	
13	Sluch Village	1. Natbail to Sluch Bridge Reservoir Area	July,2022

Note: The survey of village Seer Gayal is in progress.

**Table 7.5: Status of On-going Surveys/reports on Utilization of Compensation Money**

Sr. No	Village / Component	Status (By Previous Month)	Work Done (During the Reporting Month)	Remarks
1	Seer Gayal Village	Survey in progress (132 PAPs interviewed)	-----	The revenue survey of one component in Seer Gayal village has not been completed yet the verification is in process. When the revenue survey is completed than this component will be added.

### 7.5.2 Post-Evaluation Surveys / Reports regarding Utilization of Compensation Money:

Post evaluation report on Utilization of Compensation Money of WAPDA colony/Bar Chuchang is completed and under review.

### 7.5.3 Project Allowances for Vulnerable Group (Soniwals)

Soniwals are a migratory tribe in the northern area of Pakistan. They earn their livelihood through gold extraction from sand, which is deposited on the banks of the Indus River. The gold extraction season normally starts from November to April every year and this one season of gold extraction is their earnings for the year. Most of the family members (male & female) participate in the gold extraction trade. There are 14 families affected in the project area. Prepared allowance sheet of Soniwals and has been sent to chief S&R for NOL from WAPDA.

### 7.5.4 Other Major Activities carried out during the Month

- i. During the month 64 TRP files of Khushi site-01 prepared/reviewed and submitted to WAPDA for payment
- ii. During the month 17 TRP files of Uchar site-01 prepared/reviewed and submitted to WAPDA for payment
- iii. During the month 06 TRP files of Khushi site -02 prepared/reviewed and submitted to WAPDA for payment
- iv. During the month 03 TRP files of Chuchang site-01 prepared/reviewed and submitted to WAPDA for payment
- v. During the month 21 TRP files of Kuz Chuchang site-04 prepared/reviewed and submitted to WAPDA for payment
- vi. During the month 14 TRP files of Nasir Abad -1&2 prepared/reviewed and submitted to WAPDA for payment
- vii. During the month, total 39 SMR paid files received from DC office for project allowance and document scanning for office record.
- viii. During the month, 39 SMR paid files scanned and prepared duplicate files for DHC office record.
- ix. During the month, prepared 38 SMR paid files for project allowance and will be submitted in next month.

## 7.6 Local Area Development Program (LADP)

The implementation of LADP was started in 2019. A total of three priority batches covering about 54 schemes has been finalized. two scheme “Solar Street Light at Komila and Dasu and Construction of new RCC Bridge at Jalkot Nullah” are completed; while four more schemes ( Rehabilitation of Rural Health Center, Jamia Mosque, Komila, Sanitation and Sewerage system at Komila and Dasu (SSKD) and PKG 01 road Schemes) were awarded in 2020-22 and are under construction. The status of priority-I schemes by the end of the reporting month is as under:

**Table 7.6: Status of Priority-I Schemes under LADP**

Sr. No	ID	Scheme	Description of Scheme	Tentative Cost (Million PKR)	Status By Reporting Month
1	SP-1	Solar Street Lights at Komila and Dasu	Installation of Solar Street Lights at Komila and Dasu.	4.31	<ul style="list-style-type: none"> <li>➤ Installation of all 60 Poles completed in July, 2020</li> <li>➤ Completion Certificate issued on July 25, 2020.</li> <li>➤ Payment Certified.</li> </ul>
2	RB-14	Jalkot bridge	Design and Construction of New RCC Bridge at Jalkot Nullah	69.94	<ul style="list-style-type: none"> <li>➤ Construction Work started from January 01, 2021</li> <li>➤ Contractual completion was March 25, 2022 after EOT.</li> <li>➤ Bridge Structure is completed. Completion certificate issued on April 18, 2022</li> <li>➤ Bridge is open for traffic</li> </ul>
3	MI-1	Rural Health Center (RHC), Dasu	Repair and Rehabilitation of Rural Health Center (RHC), Dasu	107.70	<ul style="list-style-type: none"> <li>➤ Commencement letter issued on March 18, 2021</li> <li>➤ Revise Completion date is December, 2022</li> <li>➤ Rehabilitation work for possession area completed. Punch list issued for 10 blocks.</li> <li>➤ Possession of all remaining blocks handed over to Contractor</li> <li>➤ Rehabilitation of remaining blocks in progress</li> <li>➤ Construction of boundary walls completed</li> <li>➤ Sewerage work completed</li> <li>➤ Rehab.</li> <li>➤ Physical progress is 50.44% and Financial progress is 47.04%</li> </ul>
4	DW-1	Drinking water supply facilities for Komila, Dasu, Jalkot and Teyal	Design and Construction of Drinking Water Supply Facilities for these 4 towns, consisting of water intake, pipeline and distribution tanks	216.80	<ul style="list-style-type: none"> <li>➤ Revised Bidding Document and revised Cost Estimate resubmitted in August, 2022</li> <li>➤ Komila town is excluded from scheme due to water source</li> <li>➤ Tentative commencement of project: December, 2022</li> </ul>
5	MI-2	Reconstruction of Jamia Mosque Komila	Design and Reconstruction of Jamia Mosque at Komila	203.20	<ul style="list-style-type: none"> <li>➤ Commencement on August 31, 2021</li> <li>➤ Construction of retaining wall completed</li> <li>➤ Construction of gray structure for Mosque and Madrassa completed</li> <li>➤ Block masonry, plaster and Drainage works in progress</li> <li>➤ Construction of lower ground floor in progress</li> <li>➤ Physical progress is 60.35% and Financial progress is 47.04%</li> </ul>
6	SA-1	Sanitation & Sewerage Systems in Kamila and Dasu	Improvement of sewerage and sanitation facilities at Komila and Dasu towns	116.30	<ul style="list-style-type: none"> <li>➤ Contract signed on December 30, 2021; commencement Letter issued on January 01, 2022.</li> <li>➤ Design approved for Komila and DASU towns</li> <li>➤ Executional works on District Council Road (244m) Komila in progress</li> <li>➤ Execution works of Dasu town Section-4 &amp; 3 (619m) in-progress</li> <li>➤ Excavation and dismantling for remaining drains Section-2, 4 &amp; 5 (450m) for Dasu town in progress</li> <li>➤ Excavation and dismantling for remaining District Council Road Komila drains in progress</li> <li>➤ Execution of 0+340m drain sections in Dasu town is completed</li> <li>➤ Execution of 0+140m drain sections in Komila town is completed</li> <li>➤ Physical progress is 16% and Financial progress is 10%</li> </ul>
7	SH-07-11	DASU-LADP-PKG-01, 05 Road Schemes,	RB-03: Seo Razika Road, RB-09: Dong Nulah Road, RB-13: DC Colony Road, RB-16: Access road for DHPP Affectees settling area at Jalkot, RB-18: Access road for Shahi Bagh Affectees	238.47	<ul style="list-style-type: none"> <li>➤ Contract Signed and Commencement on May 20, 2022</li> <li>➤ Survey work completed</li> <li>➤ Construction drawings approved</li> <li>➤ Dong Nullah Road</li> <li>➤ Excavation completed for construction of retaining wall from RD. 0+420 to 0+500, 0+520 to 0+600 and 0+680 to 0+720</li> <li>➤ Lean and bed concrete completed for retaining wall from RD. 0+420 to 0+500, 0+520 to 0+600 and 0+680 to 0+720</li> <li>➤ Construction of stone masonry wall in progress from RD. 0+420 to 0+500</li> <li>➤ Payment concrete completed for road from RD. 0+420 to 0+500 and 0+125 to 0+215 Seo Razika Road</li> <li>➤ Excavation completed for construction of retaining wall from RD. 0+320 to 0+440</li> <li>➤ Lean and bed concrete completed for retaining wall from RD. 0+320 to 0+440</li> </ul>

Sr. No	ID	Scheme	Description of Scheme	Tentative Cost (Million PKR)	Status By Reporting Month
					<ul style="list-style-type: none"> <li>➤ Construction of stone masonry wall is in progress from RD. 0+365 to 0+440</li> <li>➤ Payment concrete in progress for road from RD. 0+1800 to 0+2000 DC Colony Road</li> <li>➤ Cleaning and widening of road is in progress for achieving 22 ft. width is in progress</li> <li>➤ Payment concrete in progress for road from RD. 1+265 to 1+400</li> <li>➤ Physical progress is 13% and Financial progress is 10%</li> </ul>

### 7.7 Public Health and Gender Implementation Plan (PHIP)

The on-going activities under this component are currently being supervised by the Director General Social Safeguards in assistance with Director S&R and Assistant Director Gender and community Health (WAPDA). However, Public Health Implementation Plan has been included in the scope of new LADP Consultants. A couple of meetings of WAPDA S&R Team including Assistant Director Public Health with the representatives of new consultants regarding the new arrangements were held during the month. The new consultant (NESPAK) is on board and will share Public Health Implementation Action Plan and accordingly report the monthly progress of this component.

### 7.8 Gender Implementation Plan (GIP)

GIP Team carried out the following activities during the reporting month.

- i. Contract for the identified teacher has been approved by WAPDA Office as per their standard procedures. Community has made all necessary arrangements including neat and clean room etc. Purchase of the approved items is in progress.
- ii. Gender Sensitive communication messages are reviewed for girls' education promotion.
- iii. Gender Awareness and sensitization 'Participants hand Book' in Urdu reviewed and in final stages
- iv. Coaching session as a regular practice has been continued with key Religious Leaders. District Khateeb has committed for continue addressing importance of women and girls' education in the context of Islam.
- v. List of Religious Leaders for next workshop is prepared in consultation with key religious leaders of advisory committee
- vi. List of third batch of Religious Leaders for week course in International Islamic University Islamabad (IIUI) is developed.
- vii. Informal coaching sessions with local staff members is a continue process and impacting positively. One local activist has arranged a community contact i.e. a local Traditional Birth Attendant (TBA), who is very well-known in SEO and Raziqa for her technical skill and abilities. She has agreed for training other local women in Kohistan, with a women only environment.
- viii. Through a long and intensive process of community consultations including religious leaders some 17 candidates are identified including from Kandya, Shityal, Raziqa, Herban, Jalkot and Dasu, their families agreed for a 2 years long course in Abbottabad, which is a real breakthrough in the context of Kohistan.
- ix. Provincial Health Services Academy (PHSA) senior staff in Peshawar, have made the selection criteria relaxed for Kohistan. A formal Memorandum of Understanding (MOU) is also in progress, as the list along with documents is shared with PHSA.

### 7.9 Implementation of Communication Plan

Following major activities were carried out during the reporting month

- i. Communication Team remained engage in public dealing in the Public Information Centre and sharing information regarding Dasu HPP with local community and general public.
- ii. Preparation of Contents for Digital Display Screen is a continuous activity. New content selected and modified for SMD have been displayed after approval from the management.
- iii. Coverage of different events and meetings remained in progress during the reporting month, communication team also captured photos of different sites regarding progress.

- iv. Coverage of the different project activities for information of all the stakeholders through social media pages of Facebook, YouTube etc. (continuous activity). The team covered the World Bank Team visit during the reporting month (on 21<sup>st</sup> to 23<sup>rd</sup> December).
- v. Updated project progress on Dasu HPP website, updated content and published new events on project website.
- vi. Preparation and finalization of estimate for School vans on 15 different routes remained under process, communication team collected quotations from local vendors and submitted estimate for further processing and approval from management.
- vii. Communication team remained engaged with SMR R&SC on signing of MOM from review & scrutiny committee members & handing over the files to the IC committee & FVC/WC.
- viii. Coordinated with contract section regarding advertisement of “Hiring of twelve vehicles for security purpose” and “Pic & Drop facility for School going children on 15 different routes”. The contract section will email the said case after some changes & review from GM/PD.
- ix. Coordinated with CST section regarding advertisement of pre-qualification for “supply of LPG cylinders to office building and officers/officials accommodation. The CST section will forward the case after changes & reviewing from GM/PD.
- x. Communication Team attended the World Bank Meeting on 23<sup>rd</sup> December 2022 and presented the progress of their section.

### 7.10 Independent Grievance Redress Committee (IGRC)

About all pending & new complaints have been addressed and disposed-off and no new complaints received during the reporting month.

### 7.11 Migration Management

Major activities related to In-migration Management were carried out by the Assistant Director In-migrant Management during the reporting month (December, 2022). These mainly included visit to the Contractors’ camps for resolving the emerging labor issues and awareness campaigns to implement code of conduct.

Workforce data of all contractors as well DHC and WAPDA was entered in MIS till the last month (November, 2022). Based on the workforce data received from various contractors and other organizations a total of 4,713 workers / staff were estimated. Out of total (4,713); 2,437 (52%) were locals, 1,749 (37%) were non-local national, while 527 (11%) were foreigners. A total of 18 females were working in the project during the reporting month which is 1 percent of the whole workforce.

Following table shows the details of the in-migrants at Dasu Site as of December, 2022:

In-migrants at Dasu Site (Data as on December, 2022)										
S. No	Components	Contracts	Locals		Non-Locals		Foreigners		Component wise Total	Total
			Male	Female	Male	Female	Male	Female		
1	WAPDA/ LA&AU	WAPDA-DHHP	159	205	0	0	0	364	364	
2	DHC	DHC-DHPP	214	127	2	22	0	365	365	
3	CGGC	MW-01	987	316	0	151	6	1460	3132	
		MW-02	634	467	0	189	9	1299		
		RAR-02	80	10	0	19	0	109		
		KKH-02	159	66	0	39	0	264		
4	CCECC	RAR-01	67	25	0	16	0	108	393	
		KKH-01	56	181	0	47	1	285		
5	CGICOP	PCI-01R	28	153	0	11	0	192	192	
6	KGL	DASU-RV	6	74	0	0	0	80	80	
7	PCCCL	TL-01	20	67	0	14	0	101	101	
8	Zhongmei	LBRV-11&12	8	6	0	2	0	16	16	
9	IKAN	LADP	9	43	0	0	0	52	52	
10	MSC	Consultant	10	7	0	1	0	18	18	
<b>Total</b>			<b>2437</b>	<b>1747</b>	<b>2</b>	<b>511</b>	<b>16</b>	<b>4713</b>	<b>4713</b>	

Data of security forces (consists of Frontier Constabulary, Frontier Core, Police, WAPDA /Private security guards and Dir Scouts (QRF)) were also collected during the reporting quarter. This data



was collected through law-and-order representative (Deputy Director Security (Social), WAPDA office. Total 854 security personals have been engaged for DHPP during the reporting month as mentioned in the table. (27 Persons from regular FC are not included in list).

### 7.11.1 Other Major Activities during the month

The following major activities were carried out during the reporting month:

- i. Visited M/s CGICOP contractors' camp (Chuchang) and M/s ZEGL contractors' camp (Chuchang) and construction sites regarding awareness session on codes of conduct to workers at site.
- ii. Meeting with Social & Resettlement Advisor, Management Support Consultant (MSC) regarding workers facilitation and to conduct survey on contractors' compliance/non-compliance engaged with all contractors and plan for next day meeting with M/s PCCCL, KGL and CCECC.
- iii. Preparation and submission of Monthly Progress Report of Migration Management for the month of November-2022 to Communication section and for further submission.
- iv. Meeting with M/s PCCCL, KGL and CCECC management to plan for workers interview regarding facilitation and to conduct survey on contractors' compliance/non-compliance.
- v. Drafting & submission of letter regarding meeting with all contractors regarding registration of workers with EOBI.
- vi. Meeting with all DHPP contractors regarding registration of workers with EOBI.
- vii. Field visit to CCECC RAR-01 site regarding social issue at site.
- viii. Submission of LADP case "Chairlift at Kuma Seo" to Director S&R and DG (SS) for comment and further submission to GM/PD Dasu HPP. And request for NOL to World Bank through Camp office, on dated.
- ix. Field visit to construction site at Shaal regarding stoppage of work by community along with District Police.
- x. Submission of LADP case "Chairlift at Kuma Seo" to Contract section. The requested NOL from World Bank through Camp office provided and attached.
- xi. Preparation and submission of Monthly Progress Report of Migration Management for the month of December-2022 to Communication section and for further submission.

### 7.12 Internal Monitoring and Evaluation (M&E)

Responsibilities of M&E Team includes data management, monitoring of compensation payments & temporary relocation payments, monitoring of field activities of S&R and Environment Teams, supporting MIS development work on daily basis, and preparation of M&E and other section reports. Following major tasks were carried out during the reporting Month.

#### 7.12.1 Monitoring of Compensation Payment Process at DC Office

During the month of December 2022, a total amount of PKR 19.39 billion was paid, including PKR 19.05 billion to 7,871 PAPs through 11,671 cheques and PKR 245.240 million deposited to court for disputed cases. While PKR 27.717 million and PKR 65.598 million paid directly to FWO and PTDC respectively. During the reporting month M&E team verified and corrected database entry amounts, some wrong entries were corrected, total compensation amount shrink for 5.9 million due to data entry corrections.

S. No.	Components	Status by Previous Month			Status during Reporting Month			Grand Total
		# of PAPs	# of CHQ	Amount (In Billion)	# of PAPs	# of CHQ	Amount (In Billion)	
1	All Components	7801	11566	18.90	70	105	0.15	19.05

#### 7.12.2 Monitoring of Lease and Compensation Payment Process for Kass Area at WAPDA Office

During December 2022, WAPDA Accounts Section did not release lease payment cheque to any PAP. At the end of reporting month, a total amount of PKR 548.3/- million was paid to the PAPs as lease, compensation for built-up properties and trees.

S. No.	Components	Status by Previous Month			Status during Reporting Month			Grand Total
		# of PAPs	# of CHQ	Amount	# of PAPs	# of CHQ	Amount	
1	Kass Disposal Area-01 (File-01)	64	99	147,439,862				147,439,862
2	Kass Disposal Area-01 (File-02)	28	67	115,372,658				115,372,658
3	Kass Disposal Area-01 (File-03)	52	72	109,621,927				109,621,927
4	Kass Disposal Area-02	112	278	175,834,389				175,834,389
	<b>Total</b>	<b>256</b>	<b>516</b>	<b>548,268,836</b>				<b>548,268,836</b>

### 7.12.3 Accounts Adjustment Submissions to WAPDA

During the month, M&E team worked on identification of remaining paid cheques to be processed for accounts adjustment. These cheques will be processed during January 2023 for account adjustment.

S. No.	Components	Status by Previous Month	Status during Reporting Month	Grand Total
		Amount	Amount	Amount
1	Final Summaries Submitted to WAPDA	18,821,487,872	0	18,821,487,872
2	Preparation of Summaries and Supporting Booklets	19,160,737,093	0	19,160,737,093

### 7.12.4 Monitoring of Temporary Relocation Payment (TRP) and Allowances to Affected Households

At the end of December 2022, a total amount of PKR 79,723,447/- paid as TRP to 210 RVs (PKR 68,868,554/-) and 86 self-opted (PKR 10,854,893/-) AHHs of 13 components. In addition, PKR 3,926,220/- were paid to 43 commercial structures of Barseen, Khushi, Siglo and Tailrace Kuz Chuchang Area.

During the reporting month, M&E team conducted a verification exercise, updated missing entries and corrected components in the database.

By end of reporting month, resettlement allowances released to 217 AHHs who already received their ESMR Package. A total amount of PKR 5.837/- million is paid on account of resettlement allowances

During December 2022, resettlement allowances were paid to 37 AHHs, total amount of PKR 919,036/- paid as resettlement allowance during the reporting period.

Sr. No.	Village Priority	By Oct 2022		During Nov 2022		Grand Total	
		No. of AHHs	Amount	No. of AHHs	Amount	No. of AHHs	Amount
1	Priority I Villages	149	4,190,251	23	590,519	172	4,780,769
2	Priority II Villages	31	728,266	14	328,517	45	1,056,783
3	Priority III Villages	0	-	0	-	0	-
	<b>Total</b>	<b>180</b>	<b>4,918,517</b>	<b>37</b>	<b>919,036</b>	<b>217</b>	<b>5,837,552</b>

### 7.12.5 Preparation and Review of Files and Payment of ESMR Package

Preparation of AHHs files for payment of Extended Self-Managed Resettlement (ESMR) Package remained in progress. In total Working Committee prepared and submitted 1,878 ESMR files to Field Verification Committee.

During December 2022, a total amount of PKR 349.95 million paid as ESMR package to 100 AHHs. By the end of reporting month ESMR package was paid to 831 AHHs of batch-1, 2, 3 and 4, total amount paid on account of ESMR is PKR **2904.65** million.

S. No.	Batch	Total AHHs	Status by Previous Month		Status During Reporting Month		Total	
			Paid AHHs	Amount (Rs. Million)	Paid AHHs	Amount (Rs. Million)	Paid AHHs	Amount (Rs. Million)
1	Batch-1	84	78	269.20	0	0.00	78	269.20
2	Batch-2	960	321	1123.50	25	87.45	346	1210.95
3	Batch-3	966	307	1074.50	75	262.50	382	1337.00
4	Batch-4		25	87.50	0	0.00	25	87.50
5	Batch-5		0	0.00	0	0.00	0	0.00
	<b>Grand Total</b>	<b>2010</b>	<b>731</b>	<b>2554.70</b>	<b>100</b>	<b>349.95</b>	<b>831</b>	<b>2904.65</b>

### 7.12.6 Compilation of Compensation and Allowances Payment Data and Entry in MIS

M&E team entered cheques data and prepared summary tables in Excel. Scanned data of compensation payments including scanned ID cards, cheques and photos of PAPs receiving compensation payment was organized and uploaded on MIS servers. Following activities were carried out during the reporting month:

- Data entry of land compensation payments in MIS from received Qabzul Wasool remained in progress. During reporting period data entry of 10,700 (92% of total cheques/Qabzul Wasools) have been entered in MIS. Data entry of remaining Qabzul Wasools is in progress, a backlog of 971 Qabzul Wasools recorded by end of the reporting period.
- Total 100 SMR cheques issued to AHHs by Dec 30, 2022, all issued cheques were entered in MS Excel Database and MIS.
- Resettlement allowances cheques were issue to 37 AHHs by end of reporting period, all these issue cheques entered in MS Excel database and updated summary tables.

### 7.13 Development of Management Information System

The following activities were carried out by MIS team during the reporting month:

#### 7.13.1 OHS Accident Management System

During the month under reporting, accident management system under OHS was designed and developed for recording activities in an automated way. The authorized user can easily enter data using web-based user-friendly input interfaces for various processes like: initial accident report, RCA (Route Cause Analysis) and closeout. The system stores these data into MIS database for generating dashboards and required reports.

Following modules were developed during the reporting period

- Design and development structure and layout of accident management system,
- Identification and development of input modules submodules
- Development of input web forms and database
- Development system's security and access control system
- Registration of accidents with initial information
- Accident category, actual severity, potential severity level and MVI level
- RCA management
- Closeout and evidence management

#### 7.13.2 Understanding and analysis of OHS MIS

During the month under reporting, the modules for document management system for OHS were identified and analyzed.

Following activities were completed during the reporting period

- Understanding and design of document management system's modules,
- Understanding Document types and categories
- Understanding of security feature and accessing levels

#### 7.13.3 Maintenance of Operational Modules

Maintenance, enhancement and technical support are being provided on regular basis. During the month under reporting, the maintenance and technical support was provided to already developed and operational modules.

### 7.14 Status of Key Performance Indicators (KPIs) of S&R Section (During the Month)

The Status of Key Performance Indicators (KPIs) of S&R Section during the reporting month is as under;

Sr. No	Key Performance Indicator (KPI)	Status by November 2022	Progress during December 2022	Remarks
<b>&gt; Land Acquisition and Compensation Payment (LA &amp; CP)</b>				
1	Land Acquired (Acres)	4,652	00	Total land acquired 4,629 acres (92% of the total land)
2	Number of PAPs Compensated	7,801	0	Total PAPs compensated 7,801
3	Compensation Paid (M. Rs)	18907.23	00	In addition to this an amount of Rs. 245 M paid to courts and Rs.93.32 M, directly paid to PTDC & FWO
4	GIS Verifications Completed (Number of Components)	186	03	GIS Verification of KKH-02 has almost been completed while few components of KKH-01 are remaining
5	GIS Verification Completed ( Area of Components in Acres)	5,315.40	48.53	
<b>&gt; Resettlement &amp; Relocation (R&amp;R)</b>				
1	Number of Resettlement Sites Completed	3	0	Two resettlement sites Uchar RV-01 & Chuchang Additional completed and handover to the community
2	Number of HHs received TRP relocating to RVs	138	0	Majority of AHHs residing in the Project area and some of them shifted to down districts

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3	Total TRP paid to AHHs relocating to RVs (RS Million)	68.868554	0		
4	Number of HHs received TRP relocating on SMR (RS Million)	86	0	Majority of AHHs residing in project area and some of them shifted to down districts	
5	Total TRP paid to AHHs relocating to SMR (M. Rs)	10.854875	0		
6	<b>Total TRP paid to AHHs (RVs+SMR) (RS Million)</b>	<b>79.723447</b>	<b>0</b>		
7	New ESMR paid (No. of AHHs)	731	100		
8	New ESMR paid (RS Million)	2554.70	349.95		
9	Allowances Paid to Owners of Commercial Structures (RS Million)	3.92622	0	Including dislocation, Shifting and Covered Area Allowance per square meter	
<b>&gt; Public Consultation and Participation (PC&amp;P)</b>					
1	Number of Consultation Meetings Conducted	796	05	Various meetings were conducted regarding ESMR Package.	
2	Percent issues / disputes resolved	87	95	The resolution of remaining issues in progress	
3	Percentage of PAPs participating in consultation meetings (Approximately all (100%) PAPs were consulted during Planning & Design Stage)	90	68	% PAPs from related villages presented during the meetings	
4	Percentage of their suggestions taken into account	78	83	The suggestions regarding design changes are sometimes difficult to accommodate	
<b>&gt; Income and Livelihood Restoration Program (ILRP)</b>					
1	Number of UCM components Completed & submitted	13	---	13 reports prepared & submitted to WAPDA.	
2	Number of UCM components (survey completed and reports in progress)	--	---	----	
3	Survey for UCM in progress	1	---	Survey in progress, 1, Seer Gayal village	
4	Number of interviews related to UCM Survey completed and ongoing	2054	---	----	
5	Number of Capacity Building Trainings Conducted	11	0	9 <sup>th</sup> Batch started from 24 October 2022 in NLC Dina Jehlum. Total Trainees is 36 for 3-month duration.	
6	Number of Local Youth Benefited from Trainings	228	---	Batch 1,2,3&4	45 Youth
				5 <sup>th</sup> & 6 <sup>th</sup> batch	37 Youth
				7 <sup>th</sup> batch	26 Youth
				8 <sup>th</sup> batch	86 Youth
				Fisheries (7days)	24 Youth
				Journalist (10 days)	10 Journalist
<b>&gt; Local Area Development Program (LADP)</b>					
1	Total Number of Schemes Identified	52	40	Total schemes revised & finalized by WAPDA so far	
2	Number of Schemes Completed	03	--	Solar Street Light Scheme completed in July 2020	
3	Number of Schemes under construction	08	08	Jalkot Bridge, Jamia Mosque Komila, RHC, and Sanitation Scheme Komila	
4	Number of Schemes Awarded	01	01	Package-1 (Five Link Roads)	
5	Number of schemes where work has been commenced / started	--	--		
6	Number of Schemes under Bidding Process	06	06	120 Solar Lights, Computer Labs Equipment and Solar System for Computer Labs, Procurement of Ambulances	
7	Total Number of Schemes for which Design has been Completed	17	17		
8	Total Number of Schemes for which feasibility has been Completed	25	25		
9	Schemes Cancelled	04	04		
10	Percent LADP Budget Utilized	5.97	5.97		
<b>&gt; Public Health Implementation Plan (PHIP)</b>					
1	Number of Medical Camps Organized	10	00	Ten medical camps organized from February 2017 to September 2022	
2	Number of Males Treated	3,287	60	Total patients treated in 10 medical camps	
3	Number of Females Treated	4,147	91		
4	Number of Children Treated	4,001	147		
5	Number of Capacity Building Trainings Conducted	02	--	Training of two batches (48 local Ulemas) was conducted in Islamabad in December 2019 and February 2021.	
6	Number of PH Schemes Completed	--	--		
7	Number of PH Schemes Under Process	02	--	Rehabilitation of RHC and Procurement of Ambulances	
8	Total PH Budget (Million Rs)	1500	00		
9	Percent Budget Utilized (Million Rs)	1.76	0.20		
<b>&gt; Gender Implementation Plan (GIP)</b>					
1.	Number of Gender Core Workgroup Program (GCWP) Quarterly Meetings Conducted	02		Discussion has been made with WAPDA to plan after establishment of concrete activities	
2.	Number of Gender Sensitization Sessions Conducted with CGBT / WVCs	21		Two sessions have been carried out with local activists and women of Bari Rango village-	
3.	Number of Gender Sensitization Sessions Conducted with Various Target Groups (PMU, DHC, Contractor, and other stakeholders)	10		A Module on Gender Awareness and Sensitization is reviewed. Three Gender Sensitization coaching sessions have been undertaken with local DHC staff 3 staff members	
4.	Number of VTCs established	01		All the arrangements and purchase will be completed by the end of January; and course will start in February - Purchase of items for the skill development course is in progress. Teacher contract is approved and ready to sign; once purchases are complete and all necessary arrangements are setup.	
5.	Number of GIP Information Centers Identified	01		06 locations identified in Shatial and Sazeen in consultations with health department	

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6.	Number of GIP Information Centers Established	-	-	Plan is in process to establish women community centers at village level, these will be equipped with project related information and will serve as project Information Center as well
7.	Number of Schools Covered under Health & Hygiene Program	02		Once the kits are ready to distribute, Health and Hygiene sessions will be conducted as per plan. Health and Hygiene kit proposal is sent to PMU and is in the process of approval
8.	Number of Project Staff (including Contractor's staff) Benefited from sensitization trainings	85	2	Two staff members are sensitized and as a result helped identification and counseling of three families for LHV two years long course
9.	Number of Trainings Sessions / Exposure Visits of Ulemas Conducted	04	01	List of third batch is in progress
10.	Number of Ulemas Benefited	94	3	Individual coaching sessions are found more practical and action oriented.
11.	Percent of women using health facilities in project area	30	5	Figure is updated from the meeting with health department and visit to DHQ, Dasu.
12.	Percent of women engaged in Income Generating Activities in the Project Area	38	-	Figure is updated from the field visits experience and eye witnessed of shops run by women in the villages.
<b>&gt; In-Migrant Management Plan / Management Plan for Construction Related Impacts (IMMP)</b>				
1	Total Staff working on DHPP	4,023	4,023	
2	Local Staff working on DHPP	1,793	1793	
3	Non-local Staff working on DHPP	1,641	1,641	
4	Foreigner Staff working on DHPP	589	589	Workforce data includes staff (including labor) of all contractors, DHC, and WAPDA
5	Number of Awareness Sessions on CoC Conducted with Community	27	00	
6	Number of Total Participants in Community Awareness Sessions	424	00	
7	Number of Awareness Sessions on CoC Conducted with Labor	59	01	One awareness session has been conducted during the reporting month with the labor and staff of CGICOP and PCCCL.
8	Number of Total Participants in Labor Awareness Sessions	1,117	10	
9	Number of visits for Camp Inspection	93	03	Continuous activity
<b>&gt; Communication Plan (CP)</b>				
1	Baseline Documentary for socio-economic situation	Completed	-	
2	Number of IEC Material prepared and printed	24,000	-	It includes printed copies newsletter and flyers & brochures related to S&R sections including IEC material on Covid-19
3	Number of Quarterly Newsletters prepared and issued	02	-	Preparation of third & fourth newsletter in progress
4	Number of Awareness Sessions conducted with various target groups of community	12	-	Awareness about DHPP to school teachers, students and community representatives
5	Number of Exposure visits organized	02	-	No visit during the reporting month
6	Arrangement of NADRA Van for registration of unregistered PAPs (number of rounds)	02	-	NADRA Van was arranged two times (2017 and 2020) and registration of 690 PAPs (80% Women) was completed
7	Provision of Pick & Drop facility for school going children (M/F) in project area.	06	-	06 vans arranged by WAPDA to pick & drop school children within project area
8	Installation of Digital display screen (SMD) in project area.	Completed	-	Screen installed in Komila Bazar to present key information regarding DHPP
9	Number of DHPP events covered	83	01	All project events including important meetings, ceremonies, exposure visits, and other events
<b>&gt; Grievances Redress Plan (GRP)</b>				
1	Number of Grievances / Complaints Received	350	00	Complaints received since 2015
2	Number of grievances / complaints redressed / resolved	347	00	Almost all grievances resolved by the end of reporting period
3	Percent of grievances / complaints redressed / resolved	99	0	
4	Number of New Complaints received	01	0	
5	Number of grievances / complaints under process of resolution	04	04	
6	Number of grievances stand unresolved	02	02	
7	Number of IGRC Meetings conducted	02	-	
<b>&gt; Internal Monitoring and Evaluation(M&amp;E)</b>				
1	Compensation Payments (in Billion)	18.90	0.15	
2	Compensation Payments Entries in MIS (Number)	10,395	0	
3	Preparation of ESMR Files	1,878	0	
4	Release of ESMR Payment (in Million)	2554.70	349.95	
5	ESMR Payment Data Entry in MIS	731	100	
6	TRP Payments (in Million) (AHHs & Commercial Structure)	83.649	0	
7	TRP Data Entry in MIS (Number)	1,293	0	
8	Preparation of Compensation Payment Summaries for WAPDA Submission (Million)	19.16	0	
9	Submissions of Compensation Payment Summaries to WAPDA for Adjustment (Million)	18.82	0	
10	PAPs Documents Organization (Number)	31,837	0	
11	PAPs Documents Uploading in MIS (Number)	23,111	0	
12	Development and Operationalization of MIS Developed Modules	11	0	
13	Number of Internal M&E (SRMP & EMAP) Reports	11	0	
14	Lease Payment (Amount in Million)	548.27	0	
15	Lease Payment Data Entry in MS Excel Database	516	0	

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Development of Management Information System (MIS)				
1	Total Modules to be Developed	16	16	Web portal & Communication are merged into one M&E and Reporting system are also merged into one
2	Number of Modules Completed	12	12	Land Acquisition, Resettlement, IGRC, LADP , IMM,PH, Reporting System, Web Portal, Lease, Gender, PC&P, Communication
3	Number of Modules Partially Completed	02	02	Environment, Downstream Reports
4	Number of Modules in Progress / Up-grades	2	3	Environment, Downstream, OHS
5	Number of Remaining Modules (Development yet to be started)	1	1	Ecology
6	MIS Development Work Completed (%)	85	86	This percentage is for MIS development activities.

### 7.15 Implantation Plan of S&R Teams for Next Month

Sr. No	Activity	Timeline	Status / Remarks
<b>Land Acquisition and Compensation Payment (LA&amp;CP)</b>			
1	Digitization of rectified revenue record received from LAC	Continuous Tasks / Activities Delivered as per agreed timelines as well as urgent requirements	About 93% of land has been acquired so far. Land leasing of Kass is in progress. Land Acquisition of KKH-01 and KKH-02 Additional Land is in progress. Assessments of built-up property and fruit trees of remaining components in progress. Compensation payments in progress.
2	GIS verification of targeted components as per timelines		
3	Preparation of Corrigendum u/s-4 for submitting to WAPDA & LAC		
4	Verification of cost assessments of land and land-based assets (Trees & Built-up Property) of required components		
5	Update the status of LA and GIS verification for submitting to WAPDA		
<b>Resettlement &amp; Relocation (R&amp;R)</b>			
1	Preparation of ESMR Files	Continuous	Various villages
2	Collection of document from Community for ESMR Files	Continuous	
3	Monitoring of under construction resettlement sites	Continuous	Visit to all ongoing site will be carried during the month
4	Preparation of TRP files and Distribution of TRP Cheque	Continuous	Payment to the beneficiaries who already receiving the TRP
5	Matching AHHS data of remaining villages with GIS Verified record.	Continuous	GIS verification of some villages is awaited.
6	Other Key Activities( Letter, meetings with WAPDA, Contractor and stakeholders)	Continuous	As needed
<b>Public Consultation and Participation (PC&amp;P)</b>			
1	Consultation regarding issues related to ongoing resettlement Sites (under construction)	Continuous	As and when needed – Resolution of pending issues will be continued
2	Consultation regarding new resettlement sites	Continuous	Consultation regarding technical issue arose (If any)
3	Consultation regarding LADP Schemes	Continuous	Consultation regarding Package III and IV schemes are scheduled
4	Consultation regarding submission of Documents for ESMR Files	Continuous	Consultation for submission of documents and to answer the queries of community regarding ESMR Package
<b>Income and Livelihood Restoration Program (ILRP)</b>			
1	Survey/Assessment on Efficient Utilization of Compensation Money	Continues activities	Continues activities
2	Proposal on Fish Farm		Proposal will be finalized soon
3	Assessment of Commercial Structure	File preparation is in progress	File preparation is in progress
4	Working with resettlement team regarding SMR and RVs files	Continues activities	Continues activities
5	Working on SMR paid files for project allowance	Continues activities	Continues activities
<b>Local Area Development Program (LADP)</b>			
1	Preparation of Bidding Document of remaining schemes	Continuous	
2	Finalization of Design of remaining schemes	Continuous	
3	Finalization of Feasibility assessment of remaining schemes	Continuous	
4	Preparation of design of remaining 06 schemes (Not yet started)	Continuous	
5	Supervision of construction works of 02 schemes (Jalkot Bridge and RHC)	Continuous	
<b>Gender Implementation Plan (GIP)</b>			
1.	Third Meeting of Gender Core Workgroup	Process will be initiated in Last Week of Jan for the 3 <sup>rd</sup> meeting	Discussions have been made with WAPDA as Project has some concrete set of activities now.
2.	Visit to Kuz Chuchang site for Establishment of VTC for a group of 25 Women.	Last Week of January	Pilot Phase Training center in Kuz Chuchang Village will be started in February; Once WAPDA complete the purchases required. Contract for teacher will be approved and the course will be started.
3.	Follow-Up sessions with selected Ullama, for the third batch of trainings to have their feedback for an updated course in future.	2nd Week of Jan, 2023.	
4.	Gender Sensitization Session With CBGT/ WVCs in selected Villages	2nd Week of January	Awareness sessions with women and men in purana Seo village
5.	Gender Sensitization session held with Various Target Group (PMU, DHC, Contractor and other Stakeholders)	1 <sup>st</sup> week of January	-
6.	Preparation of Implementing Plan on SH&HP for further villages and follow ups with the existing villages	Plan will be prepared for H& Sessions; to be conducted in February	Health and hygiene kits have been developed and sent to WAPDA Office for approval and purchase.
7.	Implementation on EPP Plan will be decided in GCW Meeting	A concept note for Community Girls School will be finalized in end of January,2023 Adult Literacy Course proposal and Letter of Understanding will be	Process of engaging with E & SEF is in right direction and the department agreed to collaborate and take over the schools after two years.

**Dasu Hydropower Project**  
**Monthly Progress Report No. 101 (December 2022)**

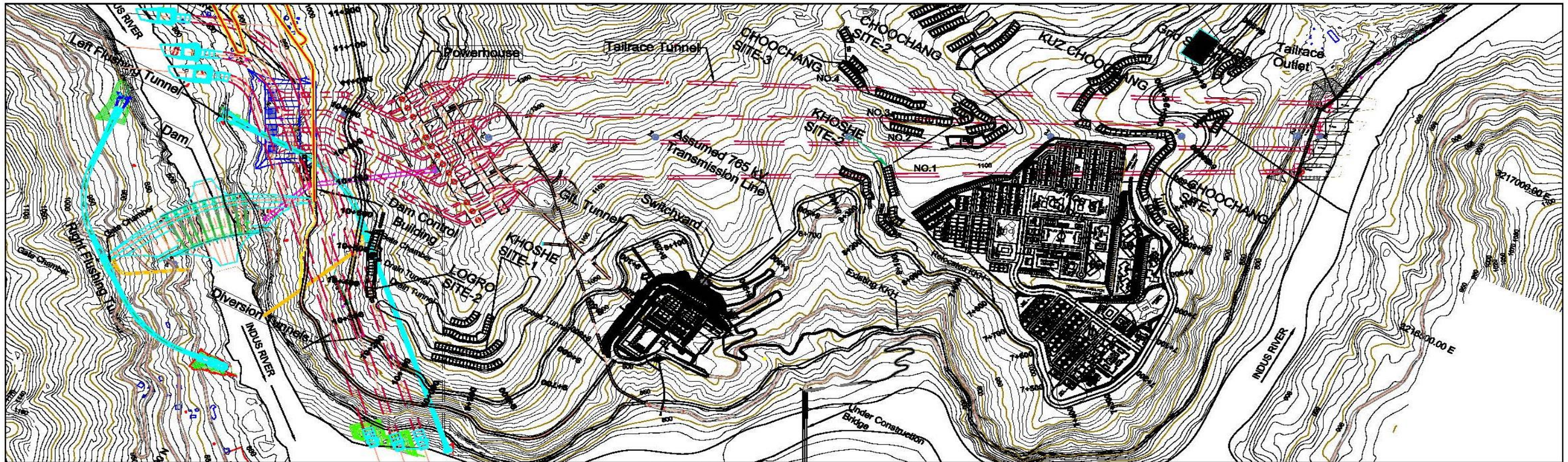
Sr. No	Activity	Timeline	Status / Remarks
		approved by last week of January	
8.	Number of Trainings Sessions / Exposure Visits of Ulemas Conducted	List of new Ulema for the training is developed for the third batch Preparations for a Workshop on 'Importance of Girls' education and progress tracking workshop.	<ul style="list-style-type: none"> <li>Preparations of 3<sup>rd</sup> batch of Ulema workshop in Islamabad</li> </ul>
<b>&gt; In-Migrant Management Plan / Management Plan for Construction Related Impacts (IMMP)</b>			
1	Collection of workforce data and entry in MIS	Continuous activity	
2	Awareness Sessions with Labor	Continuous activity	
3	Awareness Sessions with Community	Continuous activity	New IMM Specialist will join soon
4	Camp Inspection	Continuous activity	
<b>&gt; Communication Plan (CP)</b>			
1	Review, finalization, printing and distribution of 3 <sup>rd</sup> newsletter	Delayed	3 <sup>rd</sup> and 4 <sup>th</sup> newsletters are under preparation. Not achieved within planned time
2	Editing & finalization of baseline documentary		A separate contract with the media house for editing of documentary is in progress
3	Installation of Digital display screen (SMD) in project area.		Completed & installed. Further working to display information
4	Management of Web Portal		Updating of web portal design and uploading of most recent information in progress
5	Media Coverage of DHPP Events	Continuous	Coverage of major DHPP events on social media and press releases
<b>&gt; Grievances Redress Plan (GRP)</b>			
1	Meetings of IGRC Members for resolution of pending cases	Delayed	Meeting could not be conducted in the reporting month
2	Entry of existing complaints into MIS	Delayed	CMS has been completed by MIS Specialist. Data has been entered
3	Registration of new grievances / complaints	Continuous	New complaints will be registered and entered into the system
4	Preparation of updated reports	Continuous	Report for next month will be prepared
<b>&gt; Downstream Impact Management Plan of Fishing Communities (DIMP)</b>			
1	Follow-up with Provincial Fisheries Department to finalize MoU for signing	Delayed	MoU not yet finalized and being followed up with Fisheries Department.
2	Publishing of Booklet on "Importance of Fisheries and Cultivable Fish"	Delayed	Under review process with Fisheries Department, KPK.
3	Draft Proposal on Fisheries Entrepreneurship Program	Delayed	Meeting with fish farmers and field visit to be conducted.
<b>&gt; Internal Monitoring and Evaluation(M&amp;E)</b>			
1	Submission of MPR on M&E Section	10-01-2023	
2	Preparation of Compensation Payment Summaries/Submissions	31-01-2023	
3	PAPs documents uploading	Continuous	
4	Support in Development of MIS	Continuous	
5	Compensation and TRP Payments	Continuous	
6	Review of comments on ESMR Referred Back files from FVC and Remove Deficiencies	Continuous	
7	Resettlement Allowances Payments and Data Management	Continuous	
8	Monthly M&E Reports on SRMP (Jul and Aug)	20-01-2023	
<b>&gt; Development of Management Information System (MIS)</b>			
1	OHS Document Management System	January 2023	Development of all features of OHS Document Management System
2	Development of OHS Communication System	January 2023	It covers the development of OHS cure modules as per project requirements specified by relevant section
3	Technical Support / development of new features in existing modules if required	January 2023	Maintenance of developed and operational modules. It can include improvements in existing systems, addition of new features in existing modules as per requirements

# FIGURES

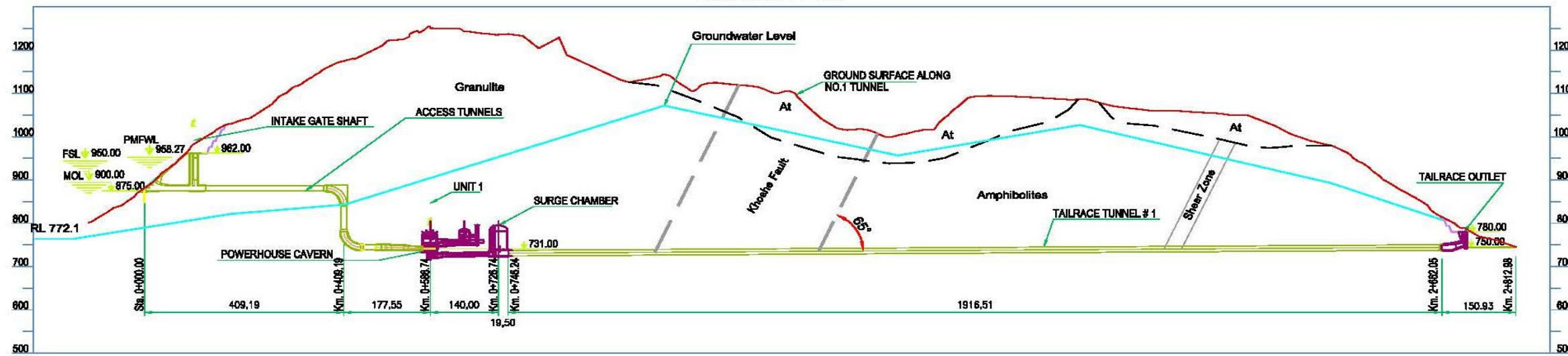
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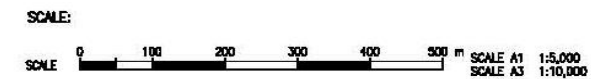




LAYOUT PLAN



WATERWAY PROFILE



**DASU HYDROPOWER PROJECT**

PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY-WAPDA

**CONSTRUCTION DRAWING FOR No.DASU-MW-01 Dam and Appurtenant Structures**

**GENERAL LAYOUT PLAN & PROFILE**

DASU HYDROPOWER CONSULTANTS DATE: 03 OCT 2018

DRAWING No. 111-003

Rev. No.	DATE	REVISION	Appr.
Prepared		Reviewed	Approved

Name: Kawagoe Toshio Name: Nishimiyu Hironobu Name: Iijima Motohiko

JOINT VENTURE OF NIPPON KOGYO CO., LTD. and DOLBY ENGINEERING LIMITED In Association with DEVELOPMENT & MANAGEMENT CONSULTANTS, NATIONAL DEVELOPMENT CONSULTANTS LTD. and PAKISTAN ENGINEERING SERVICES LTD.

Figure 1: Layout Plan & Waterway Profile

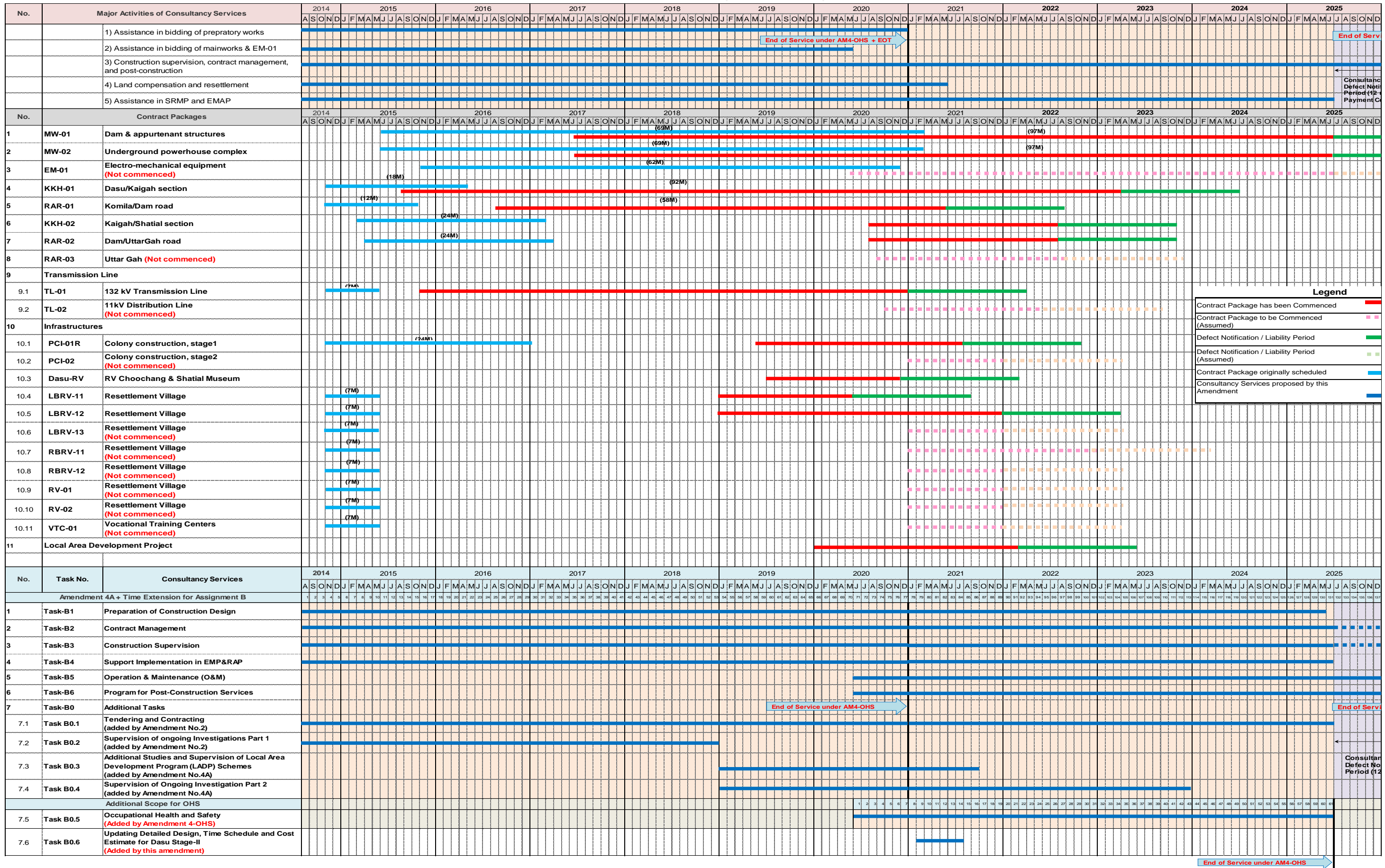


Figure 2: Implementation Schedule

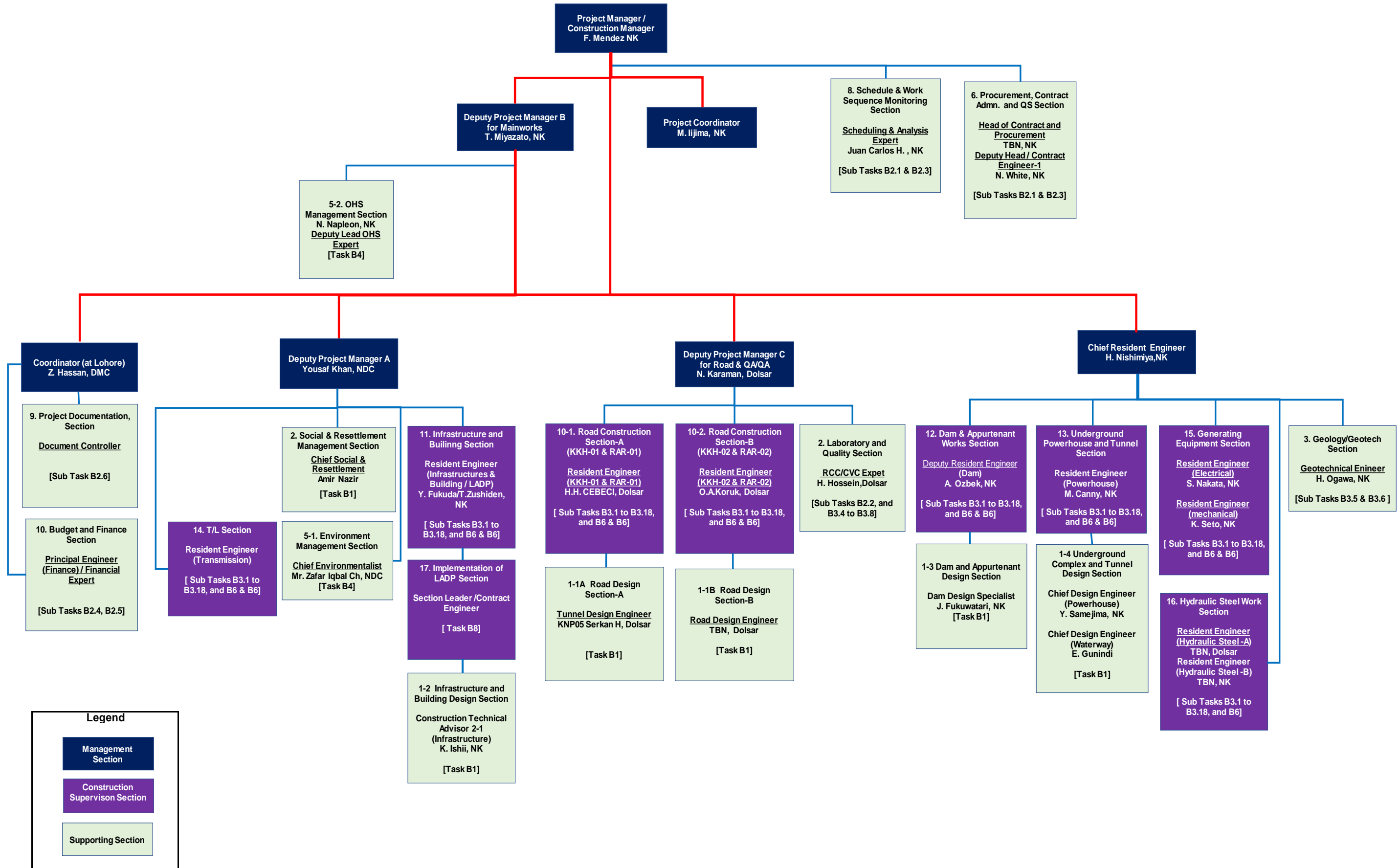


Figure 3: Organization for Consultant Team of Dasu Hydropower Project for Assignment-B



Figure 4 [1/1]

**Work Progress  
 Upto Reporting Month**

Sr. No.	Work Activity	% age	2014	2015	2016	2017	2018	2019	2020	2021	2022																																																																																				
			A	S	O	N	D	F	M	A	M	J	J	A	S	O	N	D	F	M	A	M	J	J	A	S	O	N	D	F	M	A	M	J	J	A	S	O	N	D	F	M	A	M	J	J	A	S	O	N	D	F	M	A	M	J	J	A	S	O	N	D	F	M	A	M	J	J	A	S	O	N	D	F	M	A	M	J	J	A	S	O	N	D	F	M	A	M	J	J	A	S	O	N	D
			1 to 5	6 to 17	18 to 29	30 to 41	42 to 53	54 to 65	66 to 77	78 to 89	90 to 101																																																																																				
	i) Assistance in Bidding of Preparatory Works	99%	[Gantt chart bars]																																																																																												
		99%	[Gantt chart bars]																																																																																												
	ii) Assistance in Bidding of Main Works	98%	[Gantt chart bars]																																																																																												
		97%	[Gantt chart bars]																																																																																												
	iii) Preparation of Construction Draw ings	65%	[Gantt chart bars]																																																																																												
		54%	[Gantt chart bars]																																																																																												
	iv) Land Compensation and Resettlement	98%	[Gantt chart bars]																																																																																												
		67%	[Gantt chart bars]																																																																																												
	v-a) Assistance in Social & Resettlement Management Plan	96%	[Gantt chart bars]																																																																																												
		57%	[Gantt chart bars]																																																																																												
	v-b) Assistance in Environment Management Action Plan (EMAP)	92%	[Gantt chart bars]																																																																																												
		88%	[Gantt chart bars]																																																																																												
1	Task-B0 Supervision of Ongoing Investigations	95%	[Gantt chart bars]																																																																																												
		93%	[Gantt chart bars]																																																																																												
2	Task-B1 The Engineer during Assignment-B	55%	[Gantt chart bars]																																																																																												
		42%	[Gantt chart bars]																																																																																												
3	Task-B2 Contract Management	60%	[Gantt chart bars]																																																																																												
		52%	[Gantt chart bars]																																																																																												
4	Task-B3 Construction Supervision	58%	[Gantt chart bars]																																																																																												
		50%	[Gantt chart bars]																																																																																												
5	Task-B4 A) Support in Implementation of Resettlement Action Plan	88%	[Gantt chart bars]																																																																																												
		79%	[Gantt chart bars]																																																																																												
6	Task-B4 B) Support in Implementation of Environment Management Plan	57%	[Gantt chart bars]																																																																																												
		45%	[Gantt chart bars]																																																																																												

SCHEDULE —  
 PROGRESS - - -

Figure 4: Work Progress

DASU CONTRACTS PROCUREMENT SCHEDULE (December, 2022)

Sr. No.	ACTIVITY	2021												2022												2023											
		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1	Bid of KKH-01	[Blue bar]												[Blue bar]												Work Under Progress											
2	Bid of RAR-01	[Blue bar]												[Blue bar]												Work Under Progress											
3	Bid of TL-01	[Blue bar]												[Blue bar]												Work Under Progress											
4	Re-Bid of PCI-01R	[Blue bar]												[Blue bar]												Work Under Progress											
5	Re-Bid of DASU-RV	[Blue bar]												[Blue bar]												Work Under Progress											
6	Bid of KKH-02	[Blue bar]												[Blue bar]												Work Under Progress											
7	Bid of RAR-02	[Blue bar]												[Blue bar]												Work Under Progress											
8	PQ of RAR-03	[Blue bar]												[Blue bar]												[Blue bar]											
9	Bid of RAR-03	[Blue bar]												[Blue bar]												[Blue bar]											
10	Bid of Resettlement Villages LBRV 11, LBRV 12 & RBRV 11	[Blue bar]												[Blue bar]												LBRV11 &12 Under Progress											
11	Bid of Resettlement Villages LBRV 13, RBRV 12, RV-01, RV-02	[Blue bar]												[Blue bar]												[Blue bar]											
12	Bid of PCI-02	[Blue bar]												[Blue bar]												[Blue bar]											
13	Bid of VTC-01/Technical College	[Blue bar]												[Blue bar]												[Blue bar]											
14	Bid of MW-01	[Blue bar]												[Blue bar]												Work Under Progress											
15	Bid of MW-02	[Blue bar]												[Blue bar]												Work Under Progress											
16	Bid of EM-01	[Blue bar]												[Blue bar]												Work Under Progress											

**Legends**

- Revision/Preparation of Documents
- Commencement Issued & Work in Progress
- Commencement

Figure 5: Contracts Procurement Schedule

### Dasu HPP Overall Physical Progress (%)

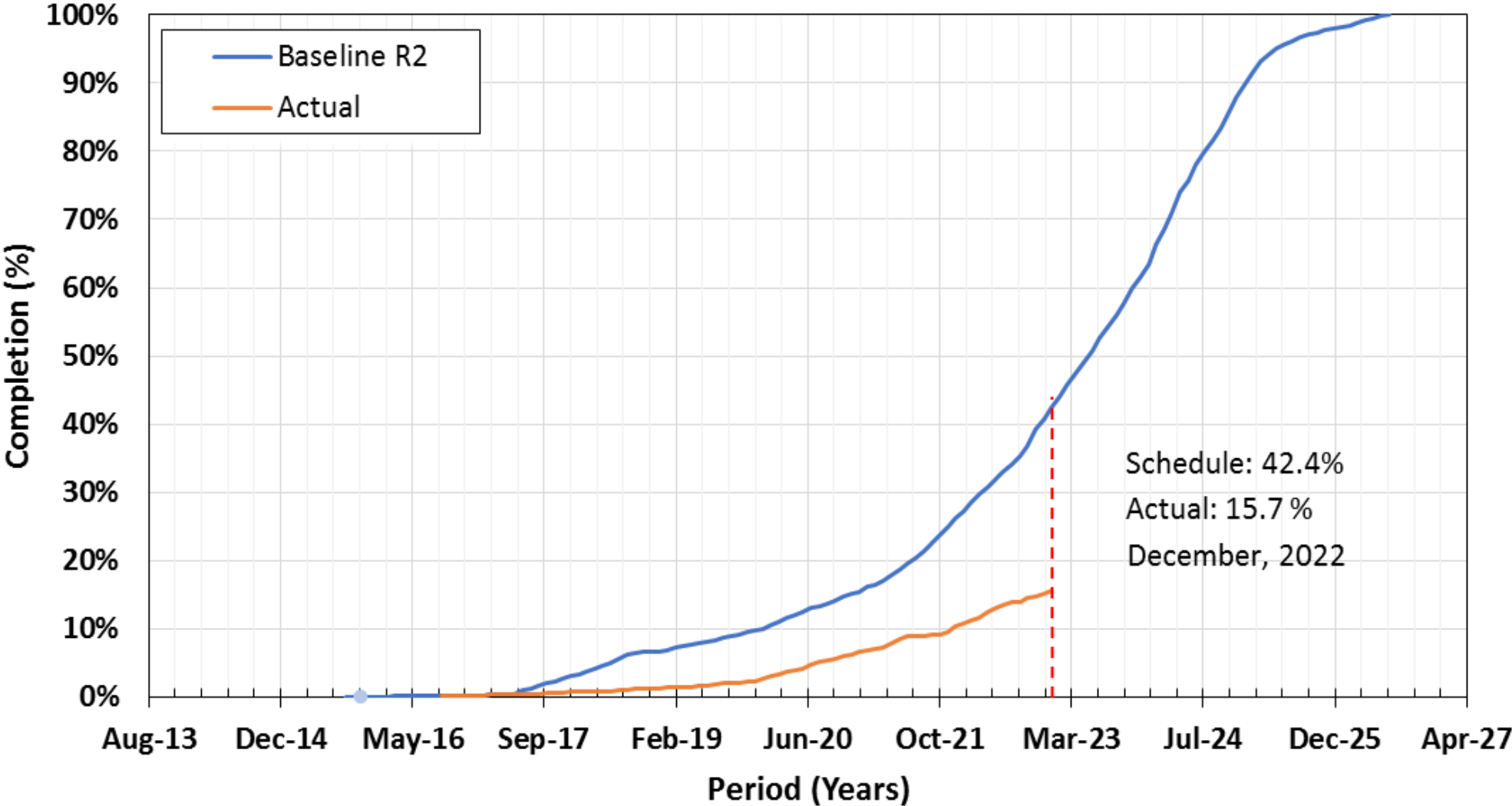


Figure 6: Dasu HPP Overall Progress (Physical Progress)



### Dasu HPP Overall Financial Progress (%)

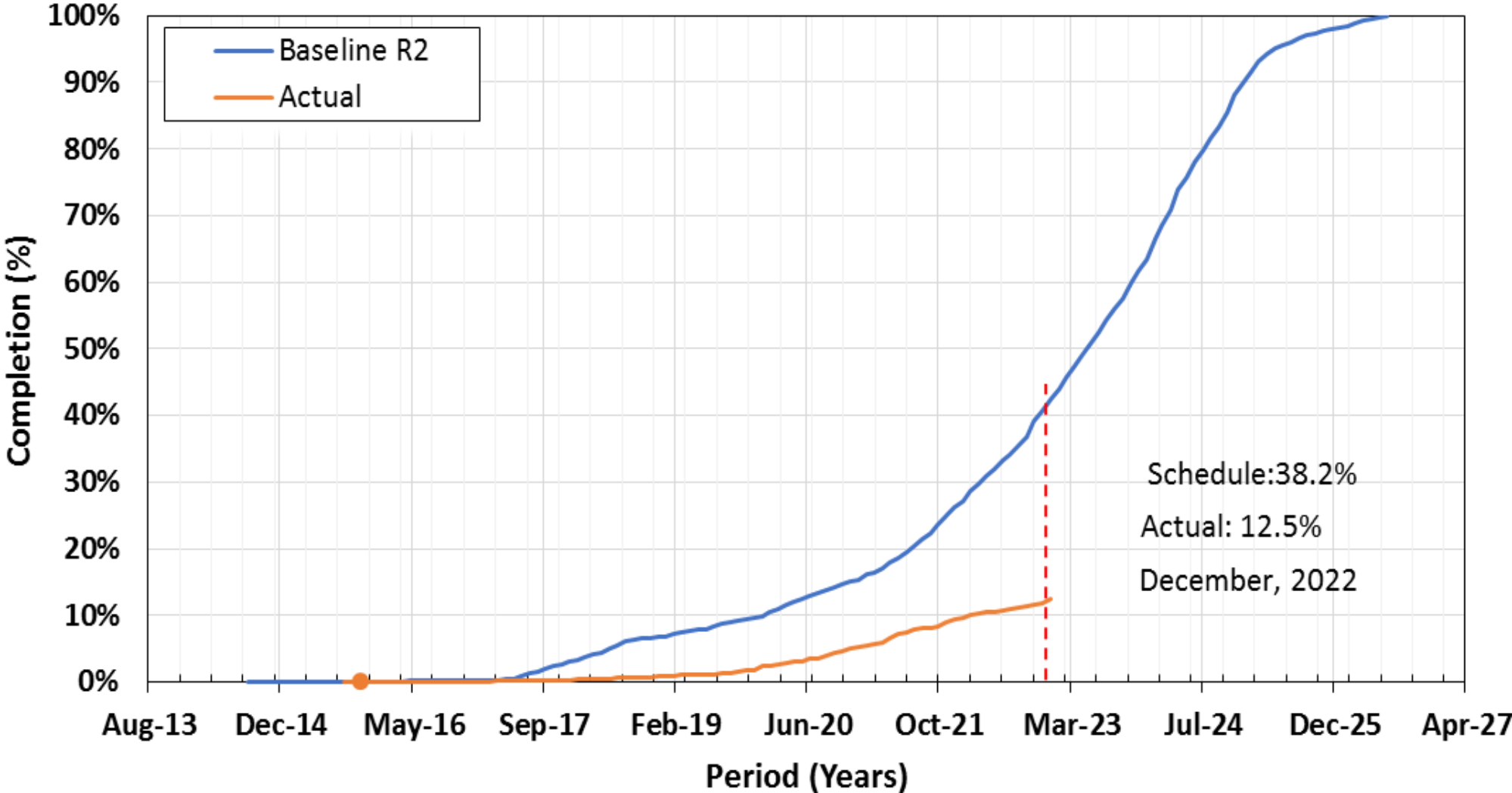


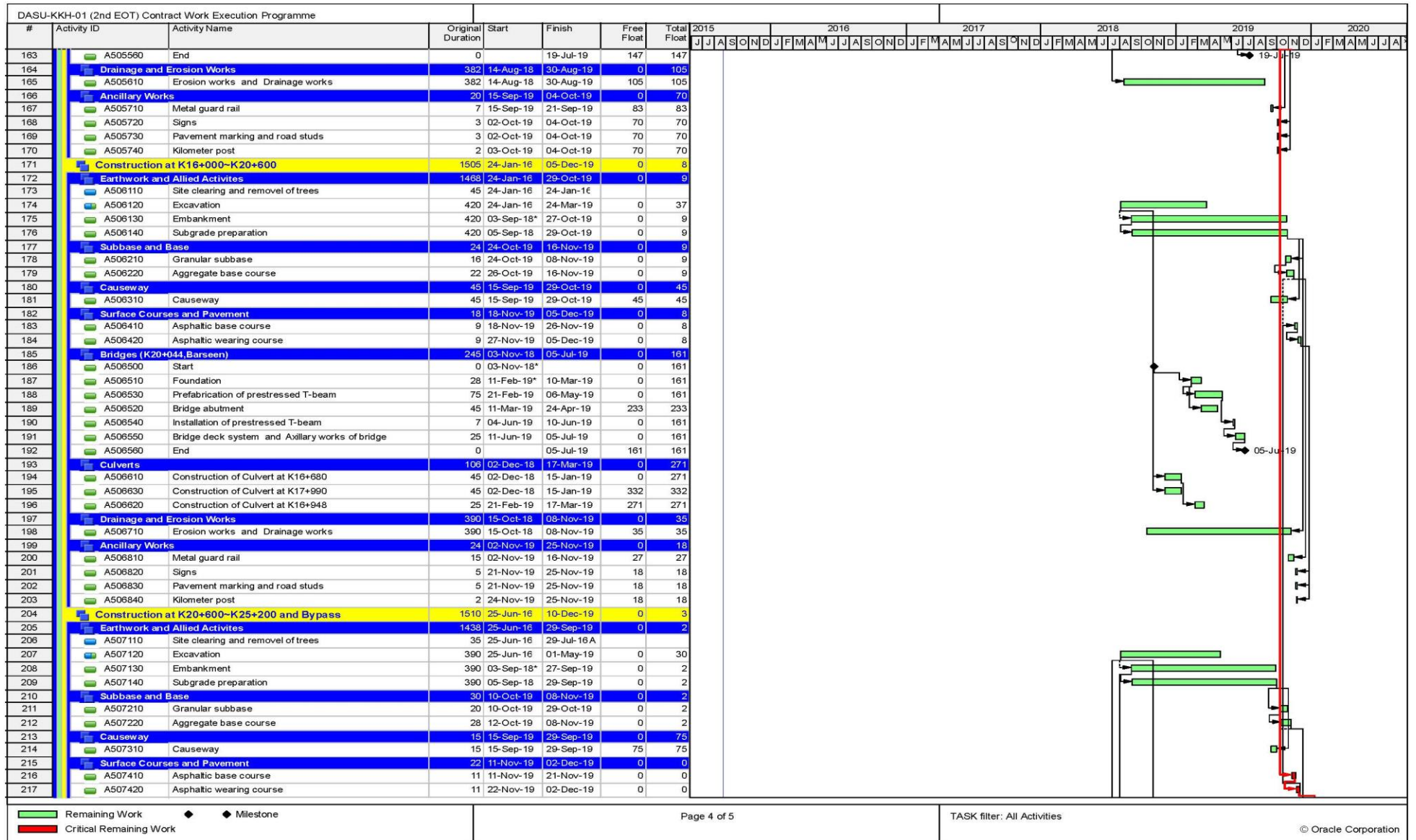
Figure 7: Dasu HPP Overall Progress (Financial Progress)





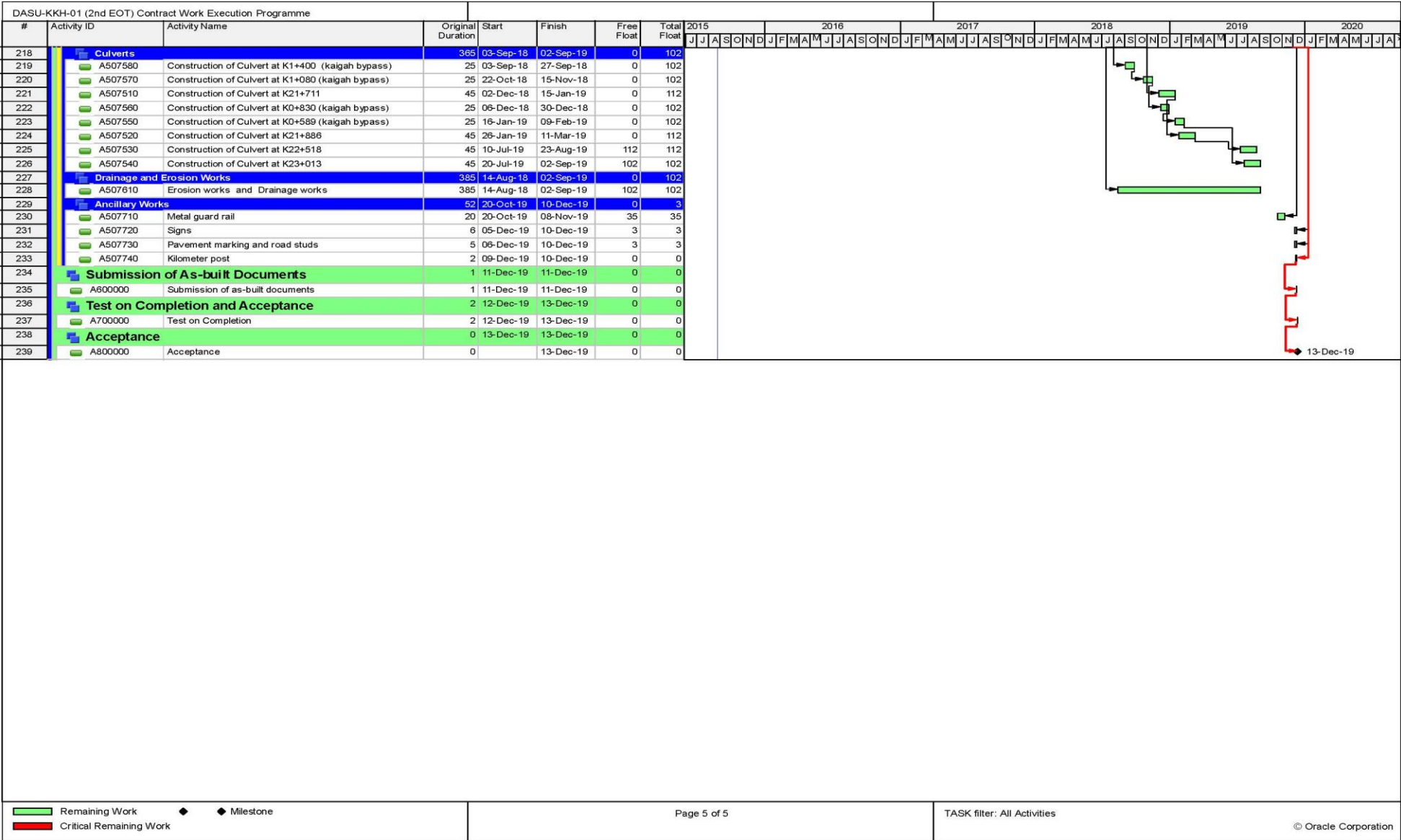


Figure 8 [4/5]



Gantt Chart of Dasu-KKH-01 (4 of 5)

Figure 8 [5/5]



Gantt Chart of Dasu-KKH-01 (5 of 5)

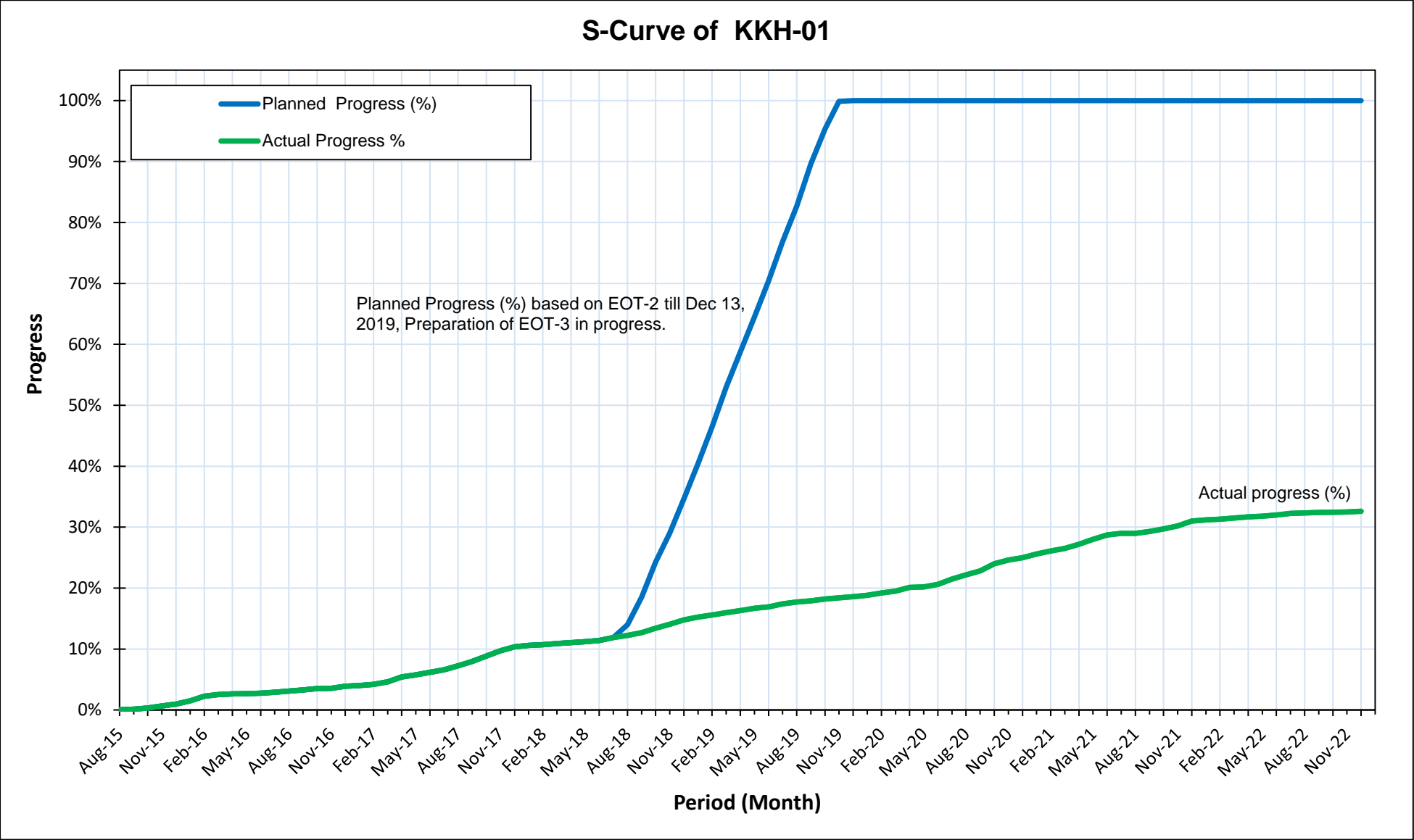


Figure 9: S Curve for Dasu-KKH-01

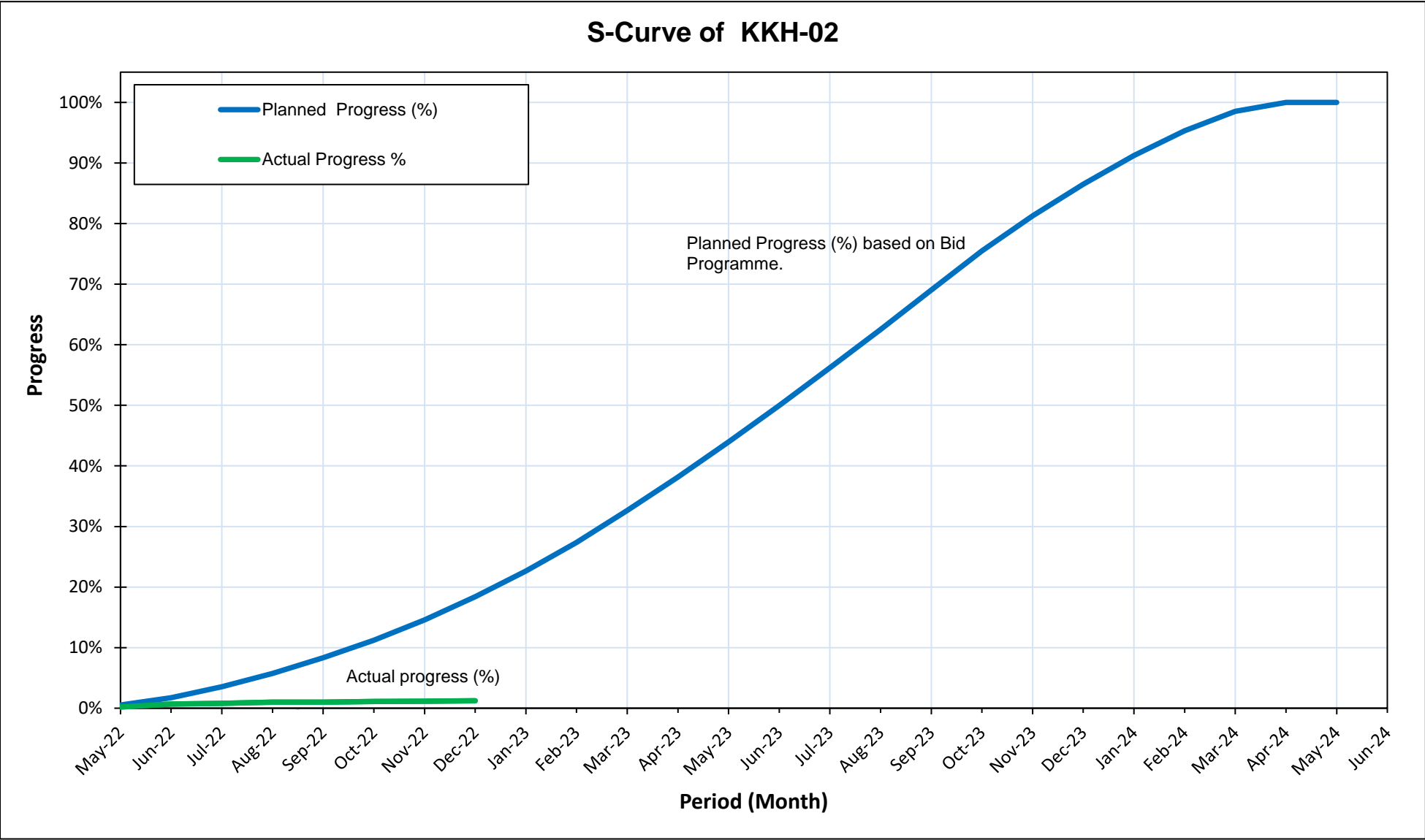


Figure 10: S Curve for Dasu-KKH-02



Figure 11 [1/6]

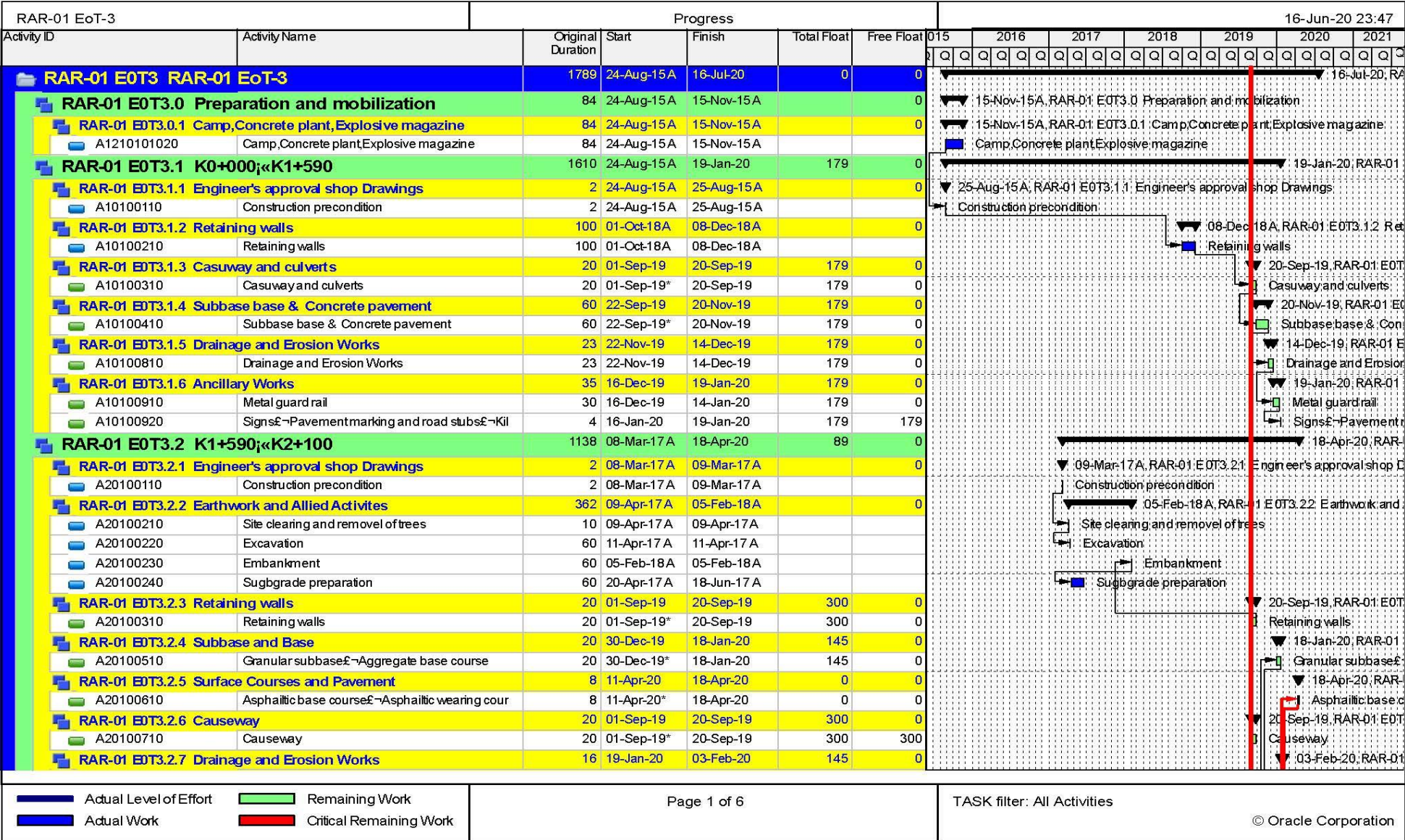
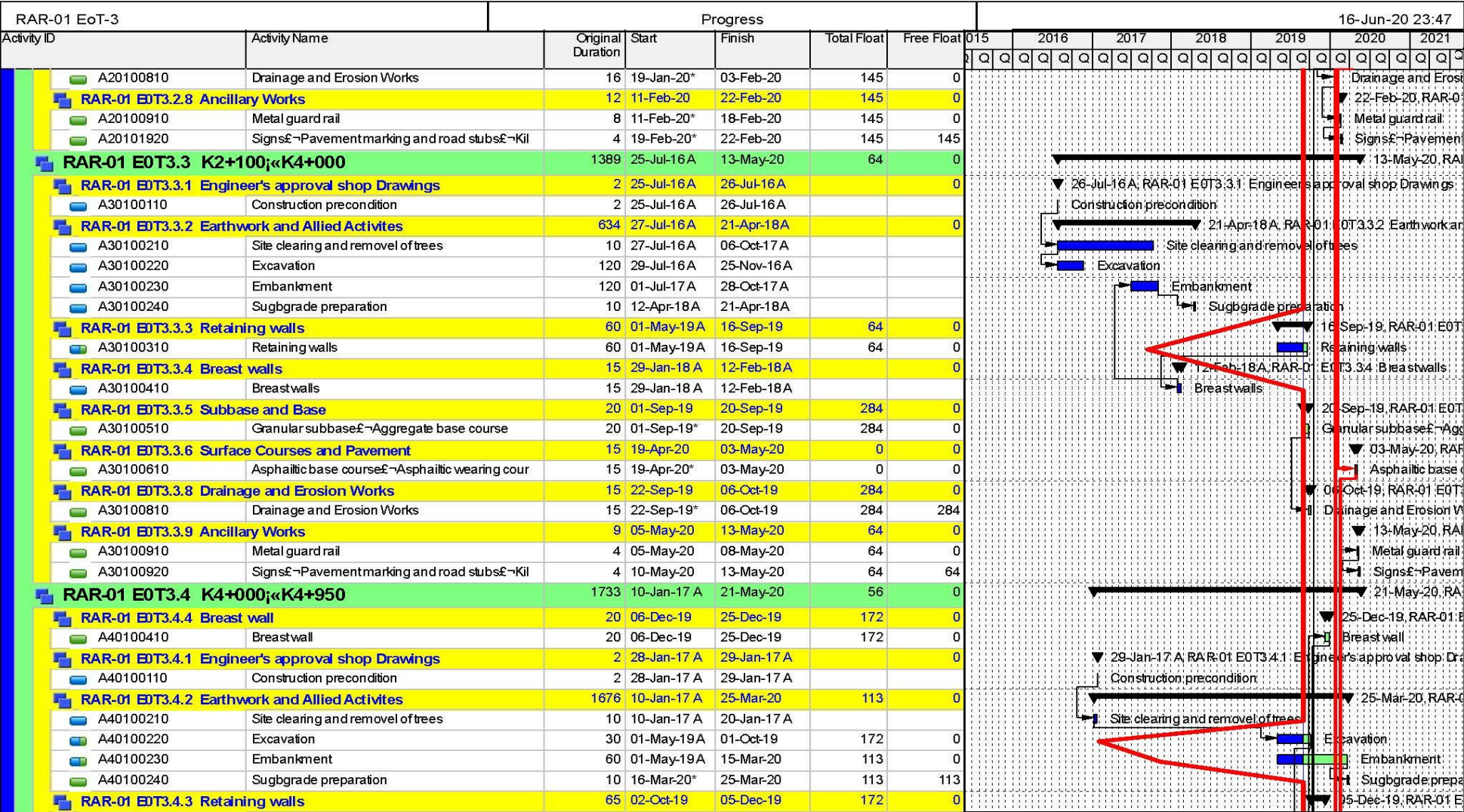


Figure 11: Gantt Chart of Dasu-RAR-01 (1 of 6)

Figure 11 [2/6]

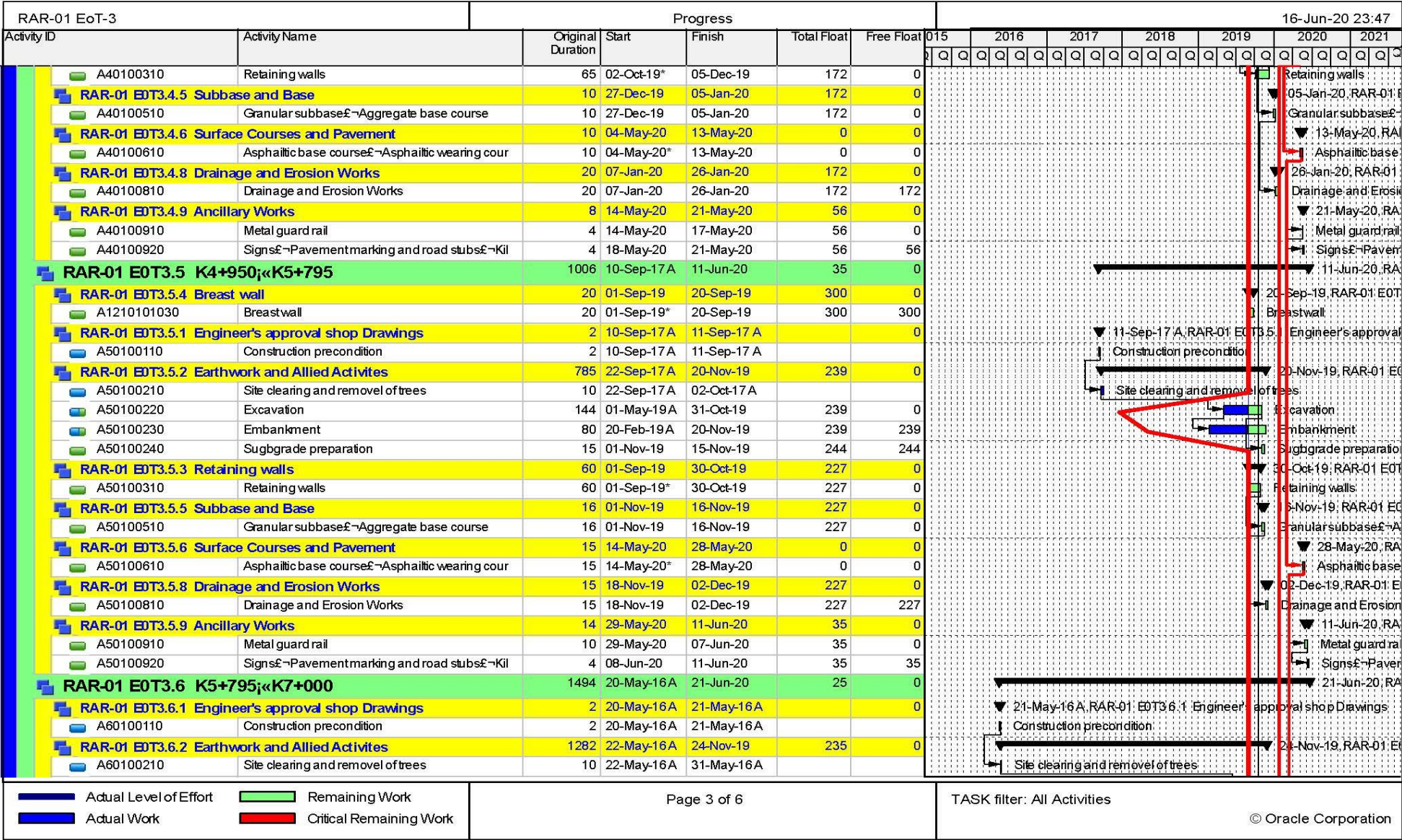


█ Actual Level of Effort     █ Remaining Work  
█ Actual Work                █ Critical Remaining Work

TASK filter: All Activities

Gantt Chart of Dasu-RAR-01 (2 of 6)

Figure 11 [3/6]



Gantt Chart of Dasu-RAR-01 (3 of 6)

Figure 11 [4/6]

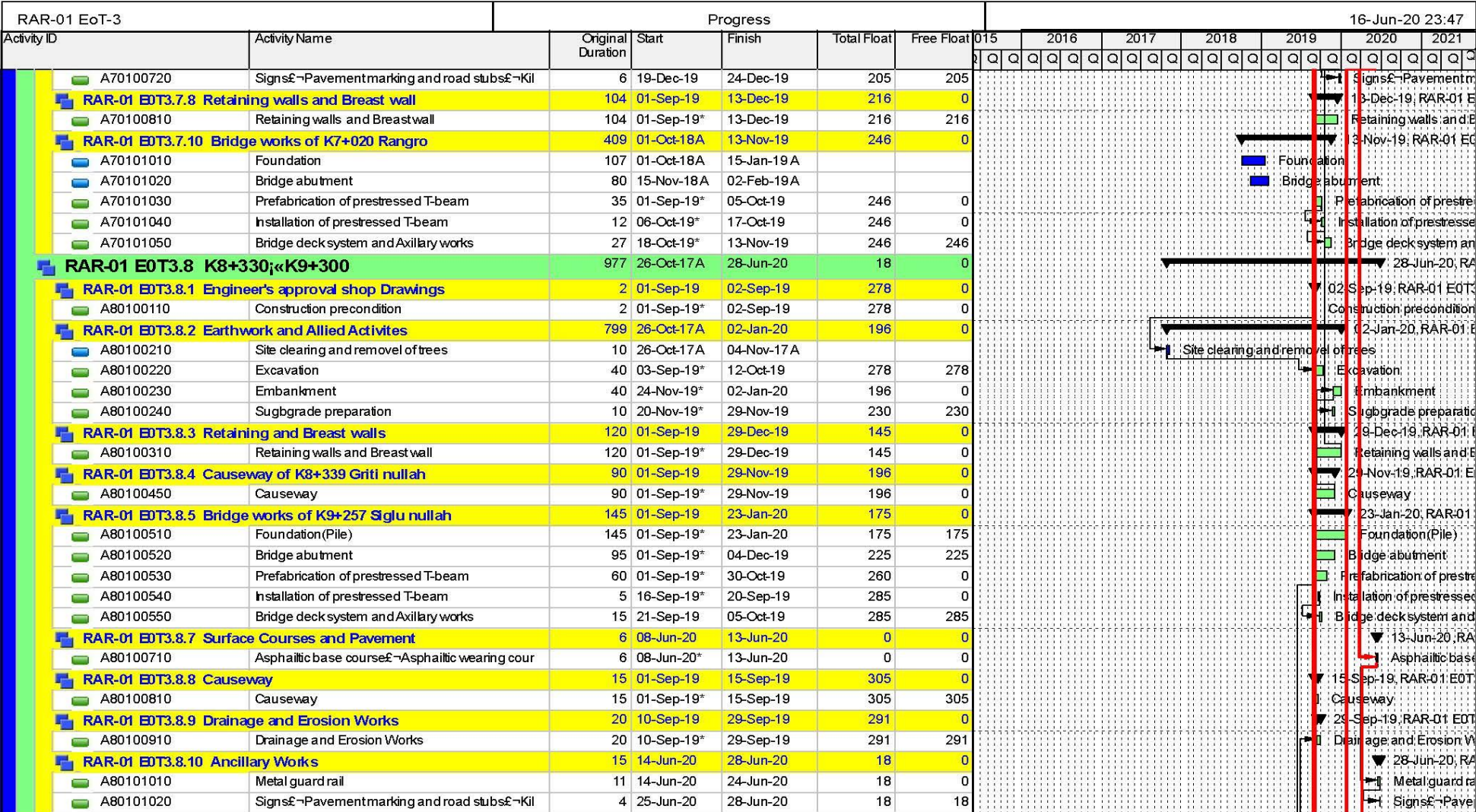
RAR-01 EoT-3		Progress						16-Jun-20 23:47											
Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Free Float	2015	2016		2017		2018		2019		2020		2021	
A60100220	Excavation	60	01-Sep-19*	30-Oct-19	168	0													
A60100230	Embankment	80	06-Sep-19*	24-Nov-19	235	235													
A60100240	Subgrade preparation	10	01-Nov-19*	10-Nov-19	249	249													
<b>RAR-01 EDT3.6.4 Breast wall</b>		50	01-Sep-19	20-Oct-19	270	0													
A60100410	Breastwall	50	01-Sep-19*	20-Oct-19	270	270													
<b>RAR-01 EDT3.6.3 Retaining walls</b>		65	16-Oct-19	19-Dec-19	210	0													
A60100310	Retaining walls	65	16-Oct-19*	19-Dec-19	210	0													
<b>RAR-01 EDT3.6.5 Culverts</b>		60	31-Oct-19	29-Dec-19	168	0													
A60100510	Construction of K6+355 box Culverts	60	31-Oct-19*	29-Dec-19	168	0													
<b>RAR-01 EDT3.6.6 Subbase and Base</b>		12	31-Dec-19	11-Jan-20	168	0													
A60100610	Granular subbase & Aggregate base course	12	31-Dec-19	11-Jan-20	168	0													
<b>RAR-01 EDT3.6.7 Surface Courses and Pavement</b>		5	29-May-20	02-Jun-20	0	0													
A60100710	Asphaltic base course & Asphaltic wearing course	5	29-May-20*	02-Jun-20	0	0													
<b>RAR-01 EDT3.6.8 Causeway</b>		20	25-Oct-19	13-Nov-19	246	0													
A60100810	Causeway	20	25-Oct-19*	13-Nov-19	246	246													
<b>RAR-01 EDT3.6.9 Drainage and Erosion Works</b>		18	13-Jan-20	30-Jan-20	168	0													
A60100910	Drainage and Erosion Works	18	13-Jan-20	30-Jan-20	168	168													
<b>RAR-01 EDT3.6.10 Ancillary Works</b>		19	03-Jun-20	21-Jun-20	25	0													
A60101010	Metal guard rail	15	03-Jun-20	17-Jun-20	25	0													
A60101020	Signs & Pavement marking and road subbase & Kil	4	18-Jun-20	21-Jun-20	25	25													
<b>RAR-01 EOT3.7 K7+000;K8+330</b>		958	24-Oct-17 A	07-Jun-20	39	0													
<b>RAR-01 EDT3.7.1 Engineer's approval shop Drawings</b>		2	24-Oct-17 A	25-Oct-17 A		0													
A70100110	Construction precondition	2	24-Oct-17 A	25-Oct-17 A		0													
<b>RAR-01 EDT3.7.2 Earthwork and Allied Activities</b>		62	01-Sep-19	01-Nov-19	258	0													
A70100210	Site clearing and removal of trees	10	01-Sep-19*	10-Sep-19	205	0													
A70100220	Excavation	40	01-Sep-19*	10-Oct-19	205	0													
A70100230	Embankment	40	23-Sep-19*	01-Nov-19	205	0													
A70100240	Subgrade preparation	10	02-Oct-19*	11-Oct-19	279	279													
<b>RAR-01 EDT3.7.3 Subbase and Base</b>		15	03-Nov-19	17-Nov-19	205	0													
A70100310	Granular subbase & Aggregate base course	15	03-Nov-19	17-Nov-19	205	0													
<b>RAR-01 EDT3.7.4 Surface Courses and Pavement</b>		5	03-Jun-20	07-Jun-20	0	0													
A70100410	Asphaltic base course & Asphaltic wearing course	5	03-Jun-20*	07-Jun-20	0	0													
<b>RAR-01 EDT3.7.6 Drainage and Erosion Works</b>		25	19-Nov-19	13-Dec-19	205	0													
A70100610	Drainage and Erosion Works	25	19-Nov-19	13-Dec-19	205	0													
<b>RAR-01 EDT3.7.7 Ancillary Works</b>		10	15-Dec-19	24-Dec-19	205	0													
A70100710	Metal guard rail	4	15-Dec-19	18-Dec-19	205	0													

Actual Level of Effort (Blue bar)  
Actual Work (Green bar)  
Remaining Work (Light Green bar)  
Critical Remaining Work (Red bar)

TASK filter: All Activities

Gantt Chart of Dasu-RAR-01 (4 of 6)

Figure 11 [5/6]



■ Actual Level of Effort    ■ Remaining Work  
■ Actual Work                ■ Critical Remaining Work

Gantt Chart of Dasu-RAR-01 (5 of 6)

Figure 11 [6/6]

RAR-01 EoT-3		Progress					16-Jun-20 23:47																
Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Free Float	2015	2016			2017			2018			2019			2020			2021
RAR-01 EDT3.8.6	Subbase and Base	9	01-Sep-19	09-Sep-19	291	0																	
A80100610	Granular subbase-Aggregate base course	9	01-Sep-19	09-Sep-19	291	0																	
RAR-01 EDT3.9	K9+300;K12+071	315	01-Sep-19	11-Jul-20	5	0																	
RAR-01 EDT3.9.1	Land issue solved	1	01-Sep-19	01-Sep-19	0	0																	
A1210101050	land issues solved (assumed)	1	01-Sep-19*	01-Sep-19	0	0																	
RAR-01 EDT3.9.2	Bypass Construction	29	01-Sep-19	29-Sep-19	291	0																	
A90100210	Bypass Construction	29	01-Sep-19*	29-Sep-19	291	291																	
RAR-01 EDT3.9.3	Earthwork and Allied Activities	283	01-Sep-19	09-Jun-20	0	0																	
A90500310	Site clearing and removal of trees	10	01-Sep-19*	10-Sep-19	0	0																	
A90500320	Excavation	265	01-Sep-19*	22-May-20	0	0																	
A90500330	Embankment	265	15-Sep-19*	05-Jun-20	0	0																	
A90500340	Subgrade preparation	260	24-Sep-19	09-Jun-20	0	0																	
RAR-01 EDT3.9.4	Retaining walls	261	19-Sep-19	05-Jun-20	0	0																	
A90100410	Retaining walls	261	19-Sep-19	05-Jun-20	0	0																	
RAR-01 EDT3.9.5	Breast walls	261	19-Sep-19	05-Jun-20	0	0																	
A90100510	Breastwalls	261	19-Sep-19	05-Jun-20	0	0																	
RAR-01 EDT3.9.6	Culverts	75	01-Sep-19	14-Nov-19	245	0																	
A90100610	Construction of K11+908 Box Culverts	75	01-Sep-19*	14-Nov-19	245	245																	
RAR-01 EDT3.9.7	Subbase and Base	10	10-Jun-20	19-Jun-20	0	0																	
A90100710	Granular subbase-Aggregate base course	10	10-Jun-20	19-Jun-20	0	0																	
RAR-01 EDT3.9.8	Surface Courses and Pavement	8	21-Jun-20	28-Jun-20	0	0																	
A90100810	Asphaltic base course-Asphaltic wearing cour	8	21-Jun-20	28-Jun-20	0	0																	
RAR-01 EDT3.9.9	Causeway	10	01-Sep-19	10-Sep-19	310	0																	
A90100910	Causeway	10	01-Sep-19*	10-Sep-19	310	310																	
RAR-01 EDT3.9.10	Drainage and Erosion Works	11	21-Jun-20	01-Jul-20	0	0																	
A90101010	Drainage and Erosion Works	11	21-Jun-20	01-Jul-20	0	0																	
RAR-01 EDT3.9.11	Andillary Works	12	30-Jun-20	11-Jul-20	0	0																	
A90101110	Metal guard rail	8	30-Jun-20	07-Jul-20	0	0																	
A90101220	Signs-Pavement marking and road stubs-Kil	3	09-Jul-20	11-Jul-20	0	0																	
RAR-01 E0T3.10	Submit Completion drawing	2	13-Jul-20	14-Jul-20	0	0																	
A1010101010	Submit complete drawing	2	13-Jul-20	14-Jul-20	0	0																	
RAR-01 E0T3.11	Inspection after completion	1	15-Jul-20	15-Jul-20	0	0																	
A1110101010	Inspection after completion	1	15-Jul-20	15-Jul-20	0	0																	
RAR-01 E0T3.12	Hand over	1	16-Jul-20	16-Jul-20	0	0																	
A1210101010	Hand over	1	16-Jul-20	16-Jul-20	0	0																	

Actual Level of Effort    Remaining Work  
 Actual Work            Critical Remaining Work

Gantt Chart of Dasu-RAR-01 (6 of 6)

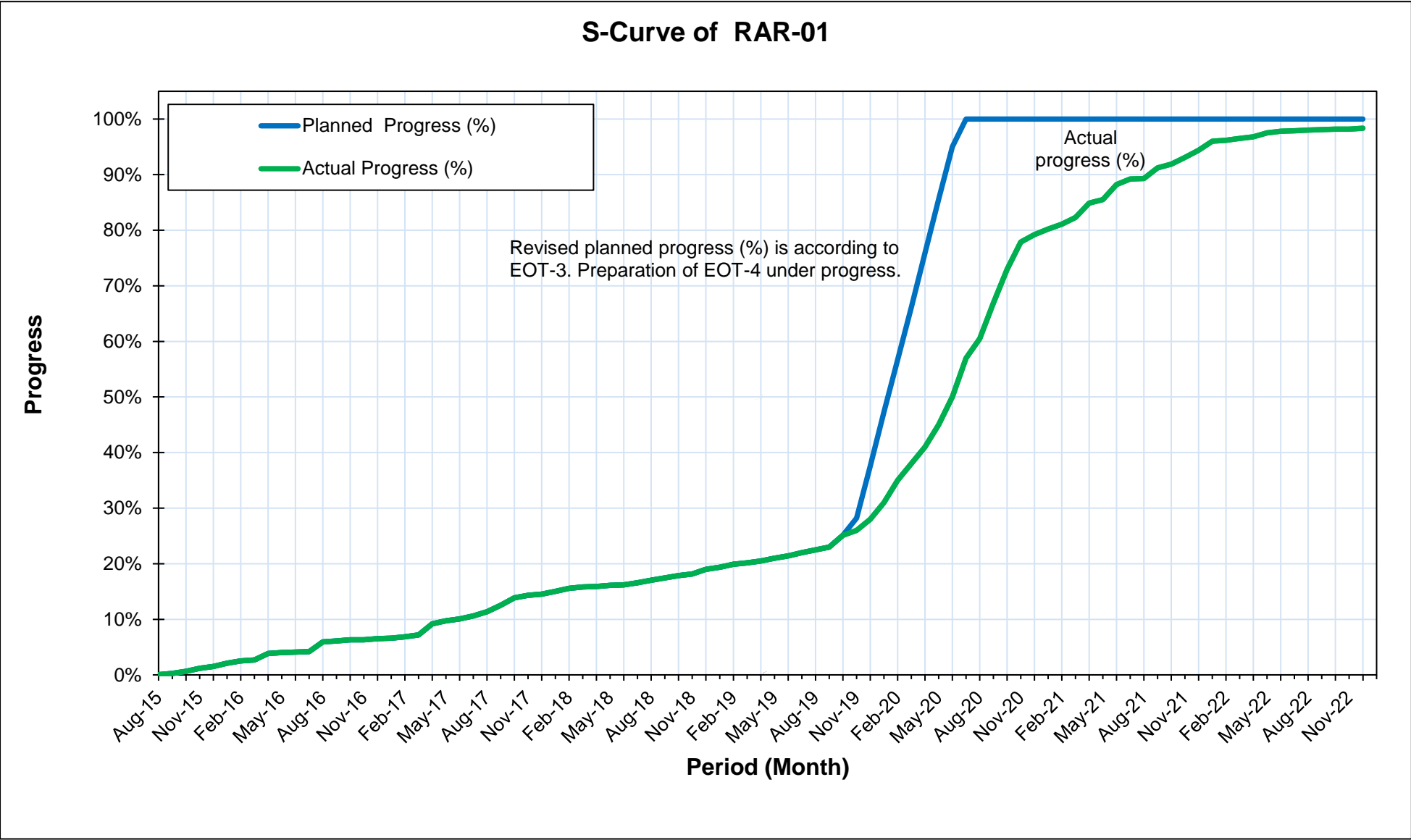


Figure 12: S Curve for Dasu-RAR-01

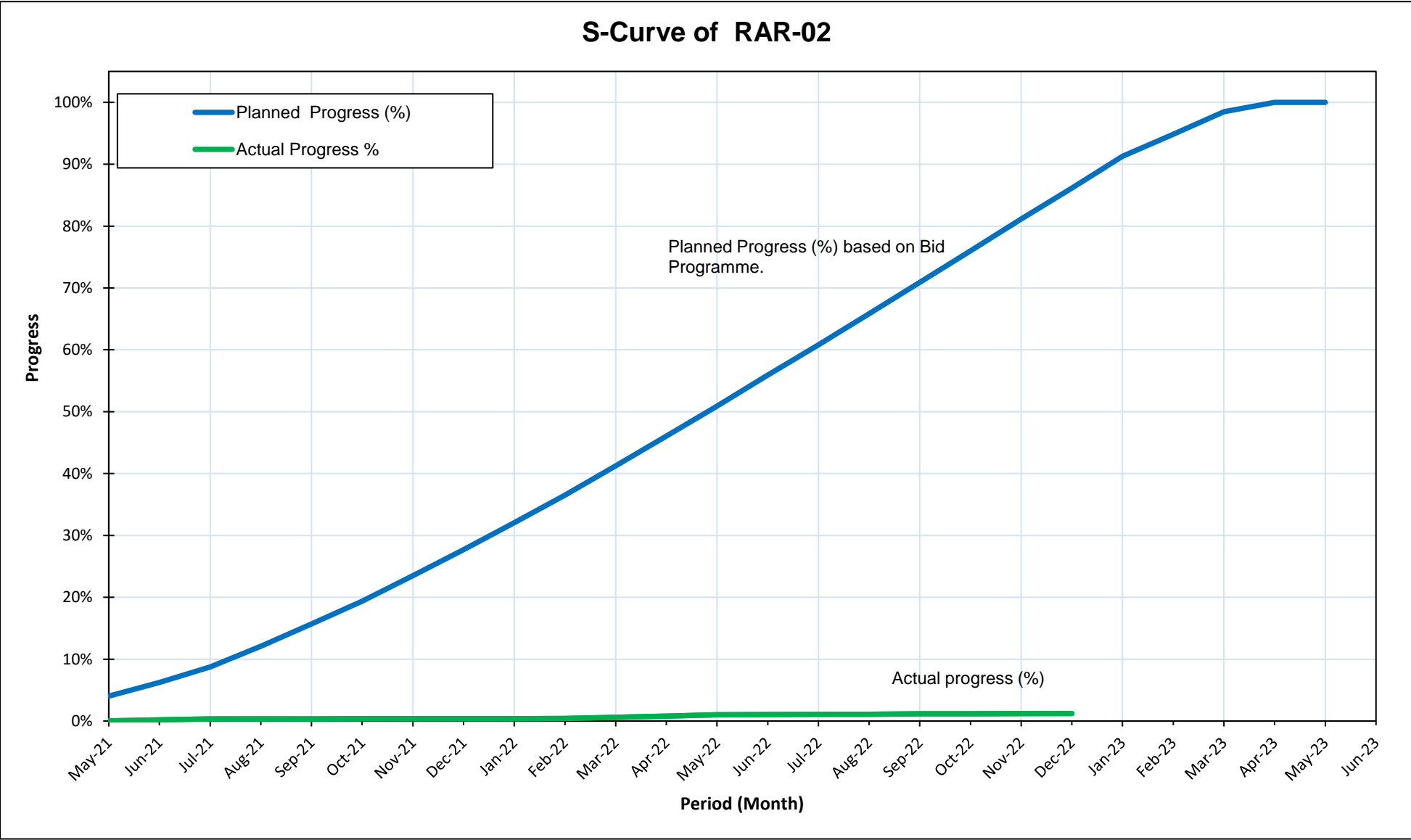
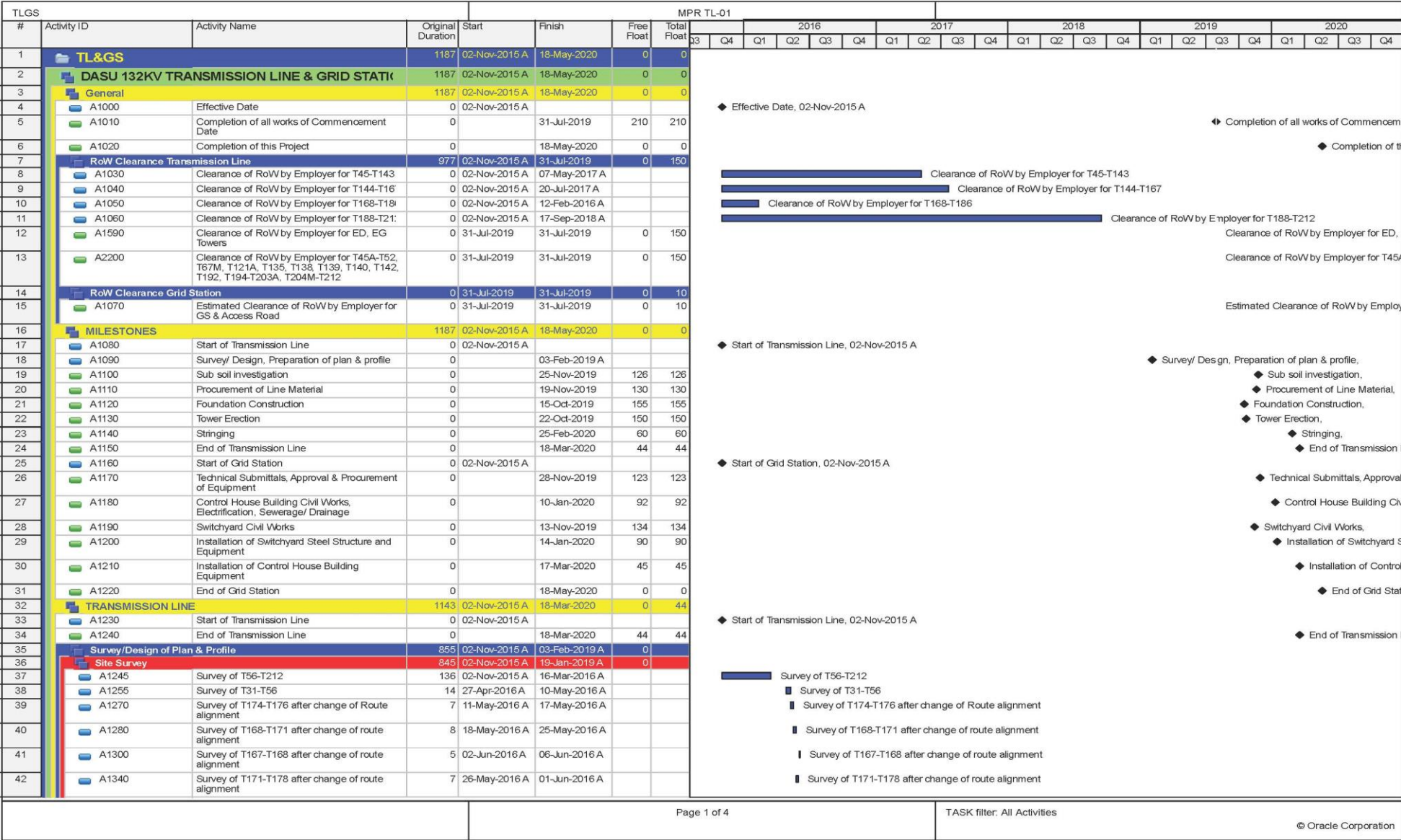


Figure 13: S Curve for Dasu-RAR-02



**Figure 14 [1/4]**



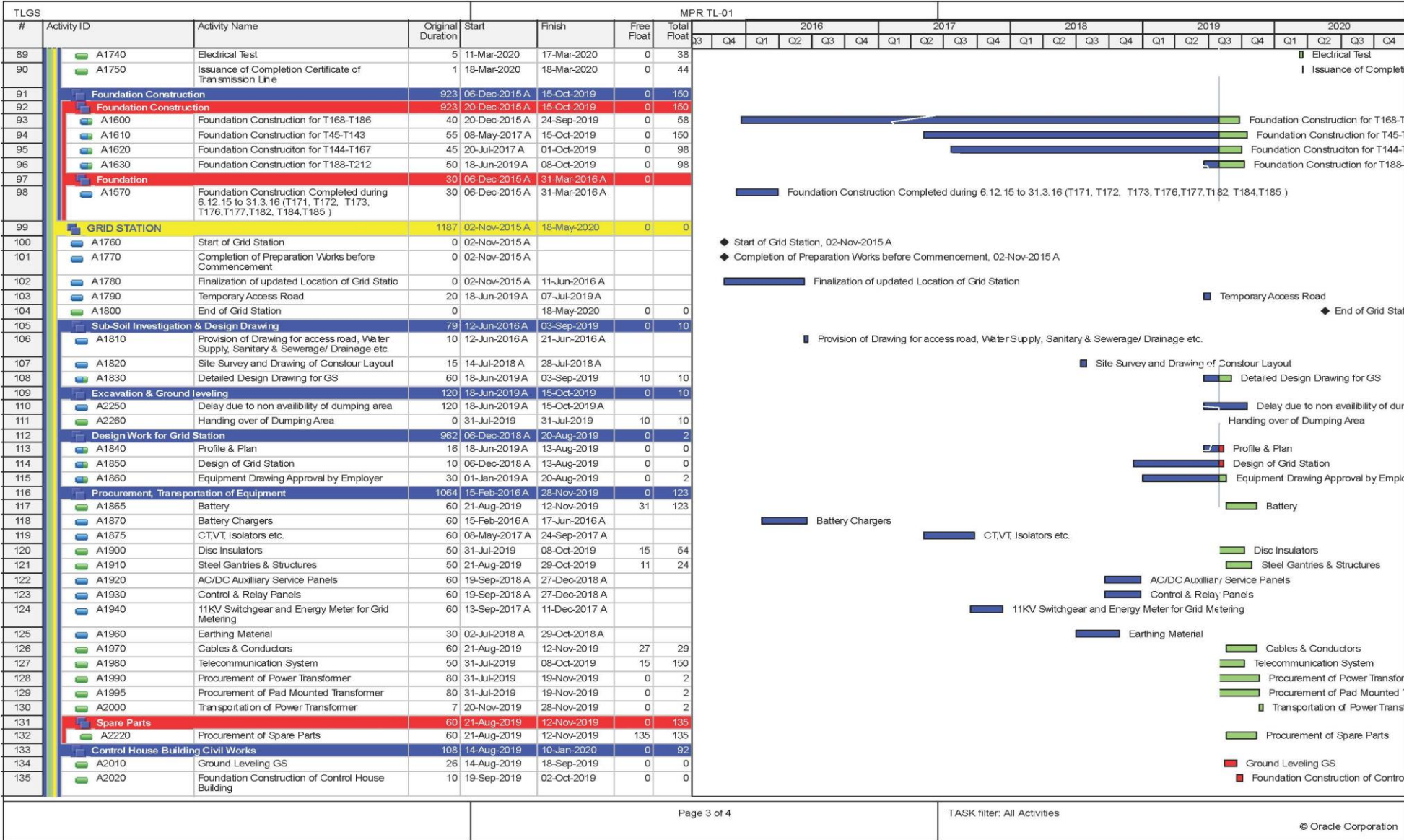
**Figure 14: Gantt Chart of Dasu-TL-01 (1 of 4)**

Figure 14 [2/4]



Gantt Chart of Dasu-TL-01 (2 of 4)

Figure 14 [3/4]



Gantt Chart of Dasu-TL-01 (3 of 4)

Figure 14 [4/4]

TLGS		MPR TL-01																											
#	Activity ID	Activity Name	Original Duration	Start	Finish	Free Float	Total Float	2016				2017				2018				2019				2020					
								Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
136	A2030	Construction of Control House Building	60	03-Oct-2019	25-Dec-2019	0	0																						
137	A2040	Installation of Electric Material for Control Room	9	26-Dec-2019	07-Jan-2020	0	92																						
138	A2050	Installation of other Facilities for Control Room	9	31-Dec-2019	10-Jan-2020	0	92																						
139	Switchyard		87	19-Sep-2019	17-Jan-2020	0	2																						
140	Switchyard Civil Works		40	19-Sep-2019	13-Nov-2019	0	13																						
141	A2060	Foundation Excavation	33	19-Sep-2019	04-Nov-2019	0	13																						
142	A2070	Concrete & Backfilling	30	03-Oct-2019	13-Nov-2019	0	13																						
143	Installation of Switchyard Steel Structure		47	14-Nov-2019	17-Jan-2020	0	2																						
144	A2080	Fabrication & Installation of Steel Structures & Gantries	15	14-Nov-2019	04-Dec-2019	11	13																						
145	A2090	Installation of Power Transformer	15	29-Nov-2019	19-Dec-2019	0	2																						
146	A2100	Installation of Circuit Breaker	10	20-Dec-2019	02-Jan-2020	0	2																						
147	A2110	Installation of other Equipment	21	20-Dec-2019	17-Jan-2020	0	2																						
148	A2120	Installation of Conductor (600mm)	18	20-Dec-2019	14-Jan-2020	0	2																						
149	Installation of Control House Building		59	26-Dec-2019	17-Mar-2020	0	0																						
150	A2130	Installation of Electric Panels	16	26-Dec-2019	16-Jan-2020	0	0																						
151	A2140	Placement of Power Cables	15	17-Jan-2020	06-Feb-2020	0	0																						
152	A2150	Connection of Cables & Busbars	28	07-Feb-2020	17-Mar-2020	0	0																						
153	Inspection and Taking Over		45	18-Mar-2020	18-May-2020	0	0																						
154	A2160	Test & Inspection of Electrical Equipment	30	18-Mar-2020	28-Apr-2020	0	0																						
155	A2170	Inspection & Acceptance before Transmission Line Electrified	8	29-Apr-2020	07-May-2020	0	0																						
156	A2180	Running Electrified Transmission Line	4	08-May-2020	13-May-2020	0	0																						
157	A2190	Issuance of Completion Certificate for Grid Station	3	14-May-2020	18-May-2020	0	0																						

Gantt Chart of Dasu-TL-01 (4 of 4)

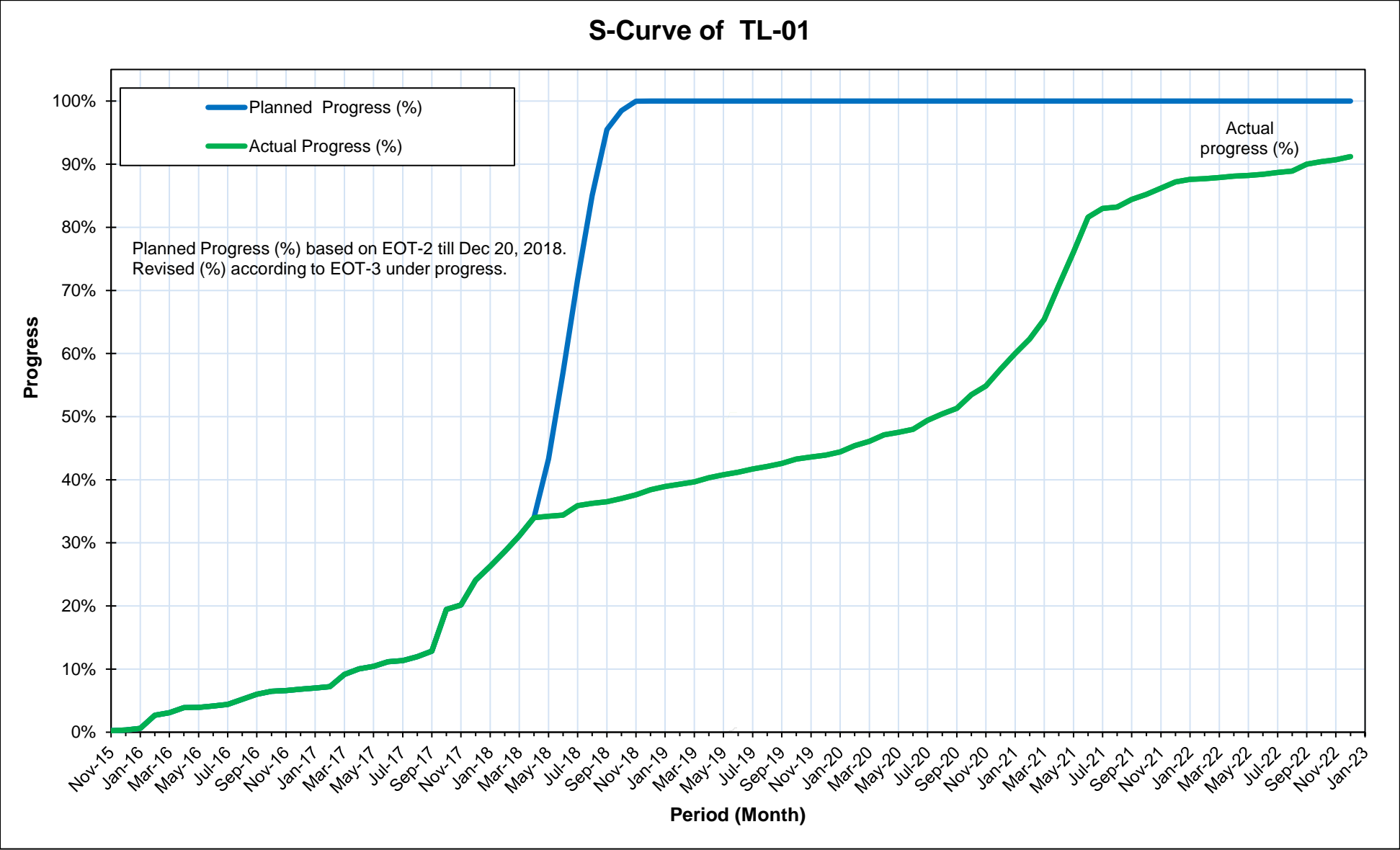


Figure 15: S Curve for Dasu-TL-01

Figure 16 [1/6]

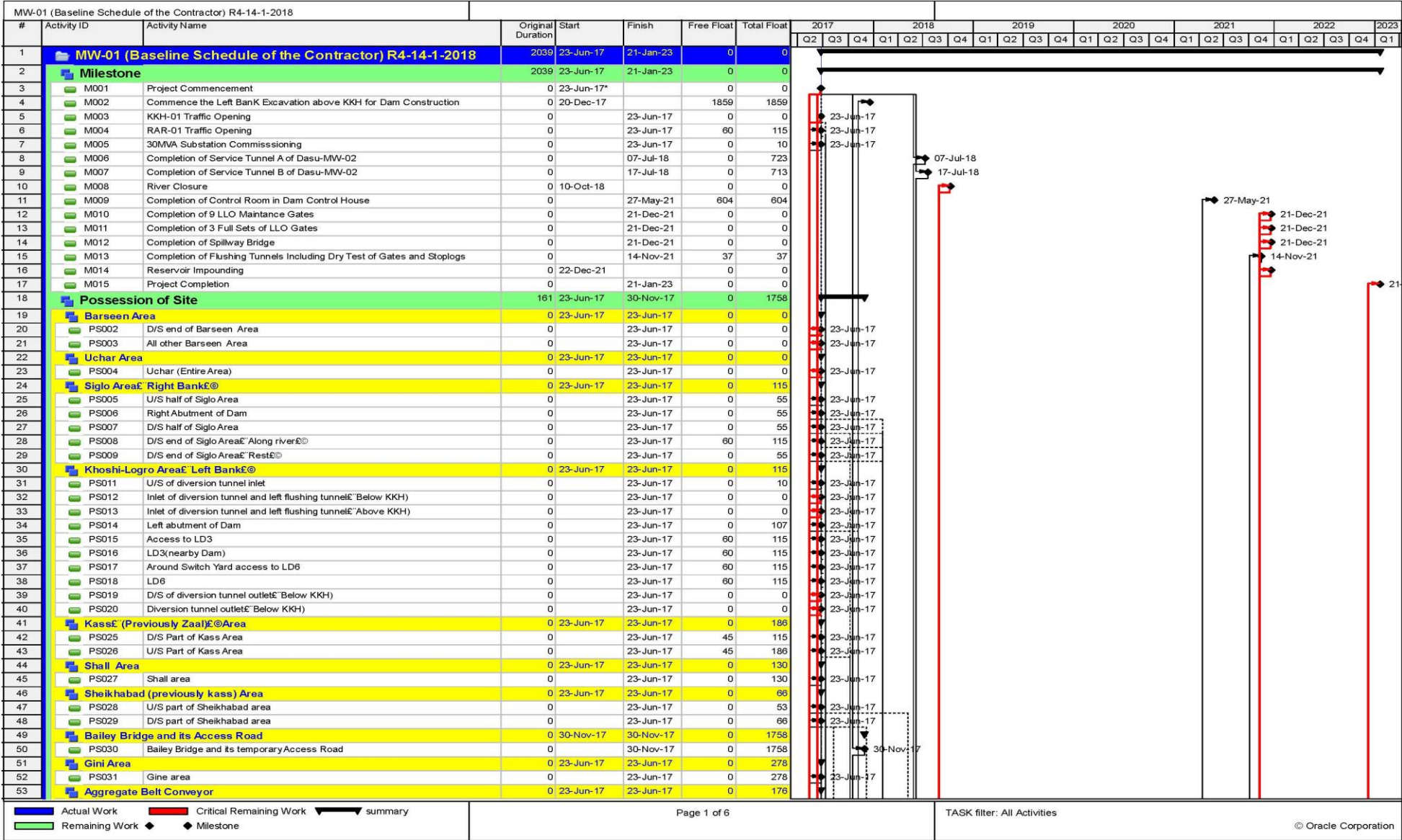
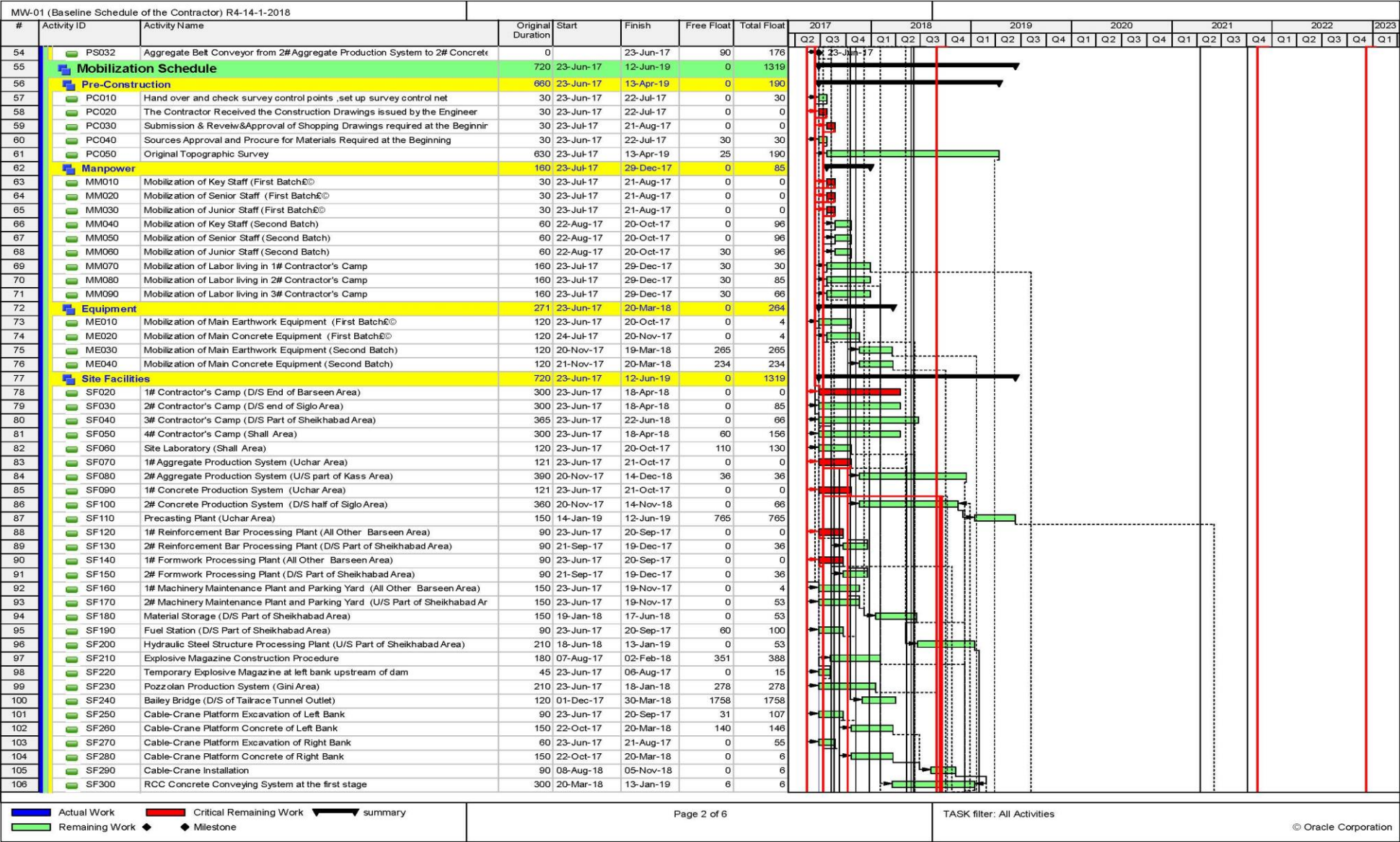


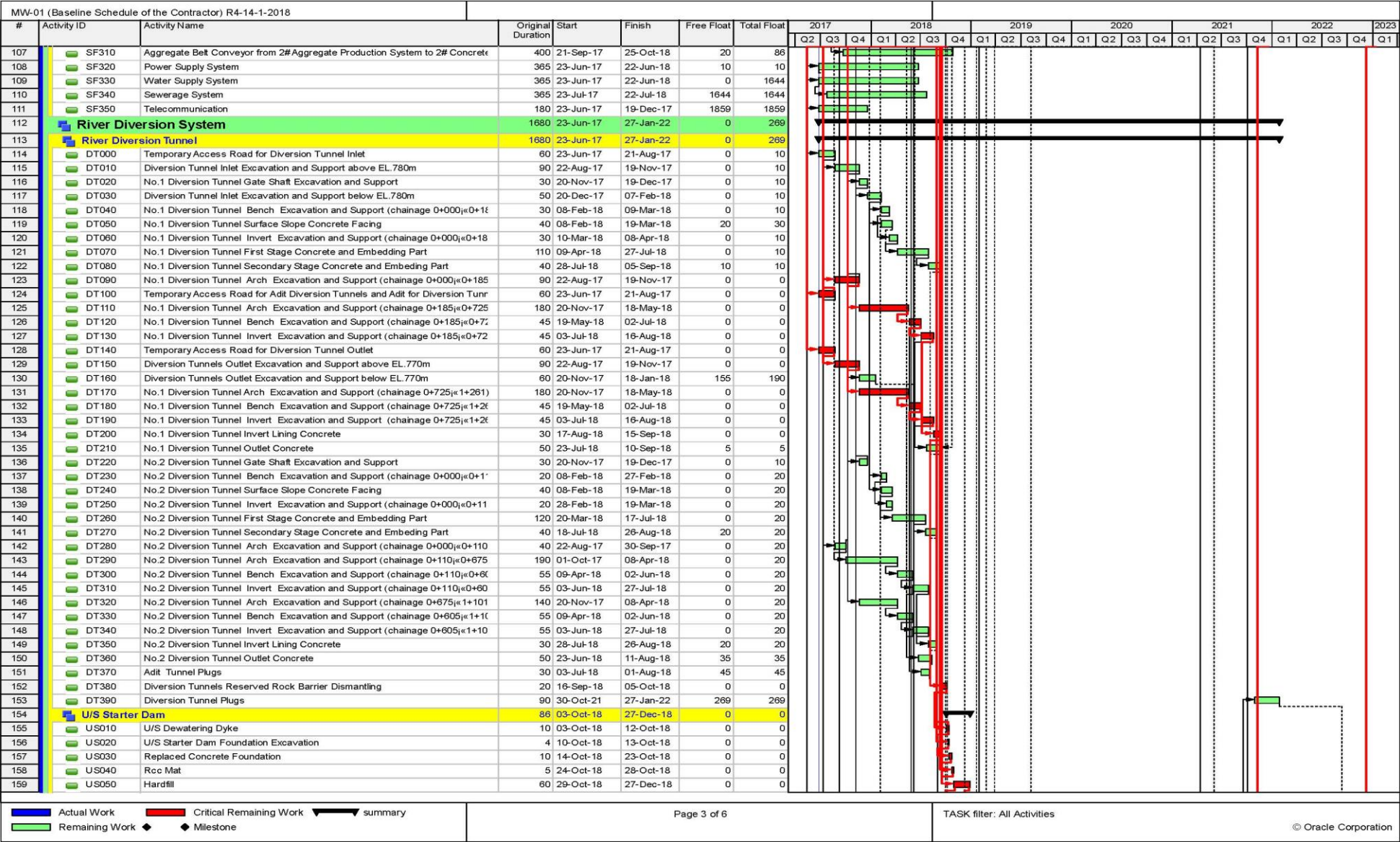
Figure 16: Gantt Chart of Dasu-MW-01 (1 of 6)

Figure 16 [2/6]



Gantt Chart of Dasu-MW-01 (2 of 6)

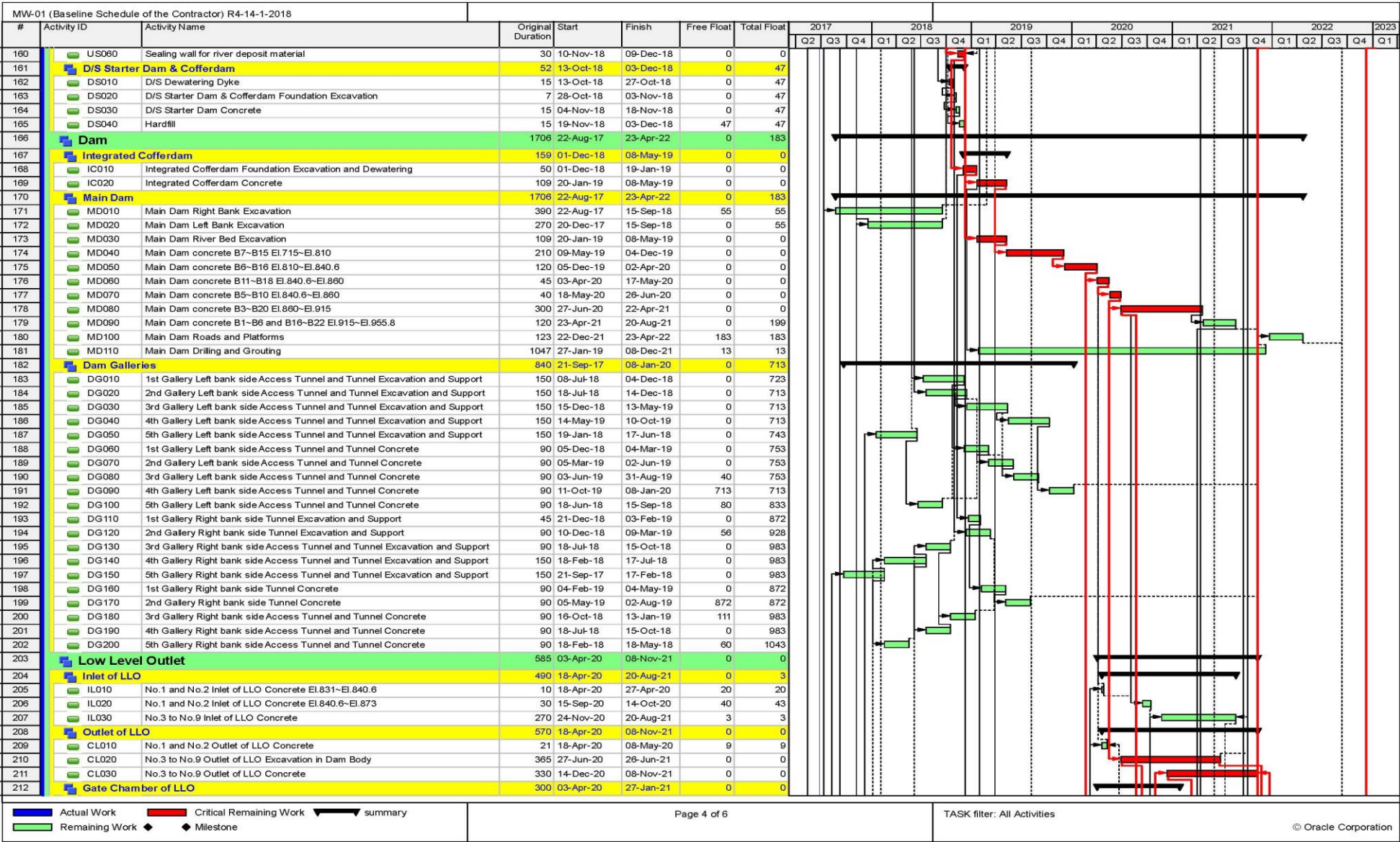
Figure 16 [3/6]



Gantt Chart of Dasu-MW-01 (3 of 6)

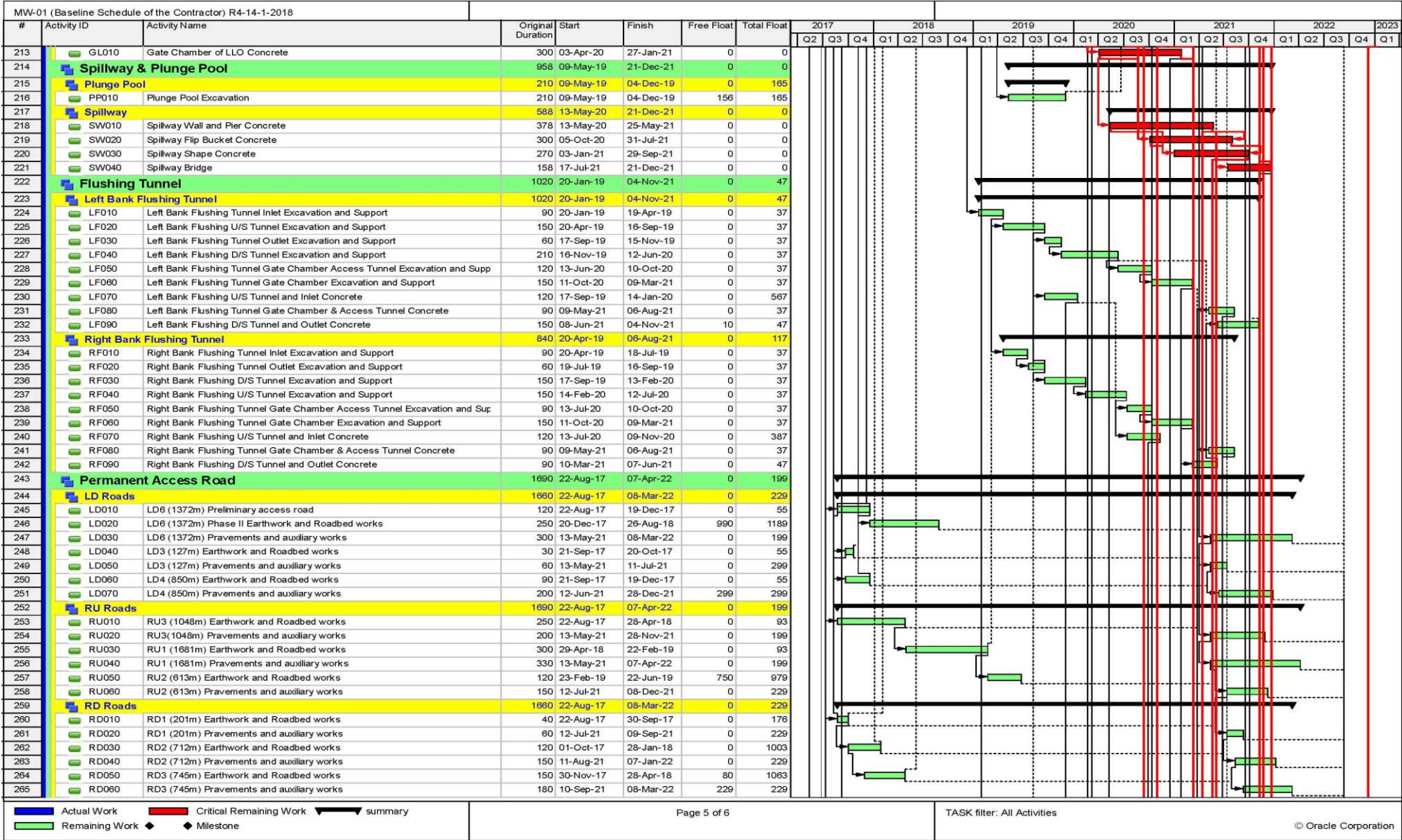


Figure 16 [4/6]



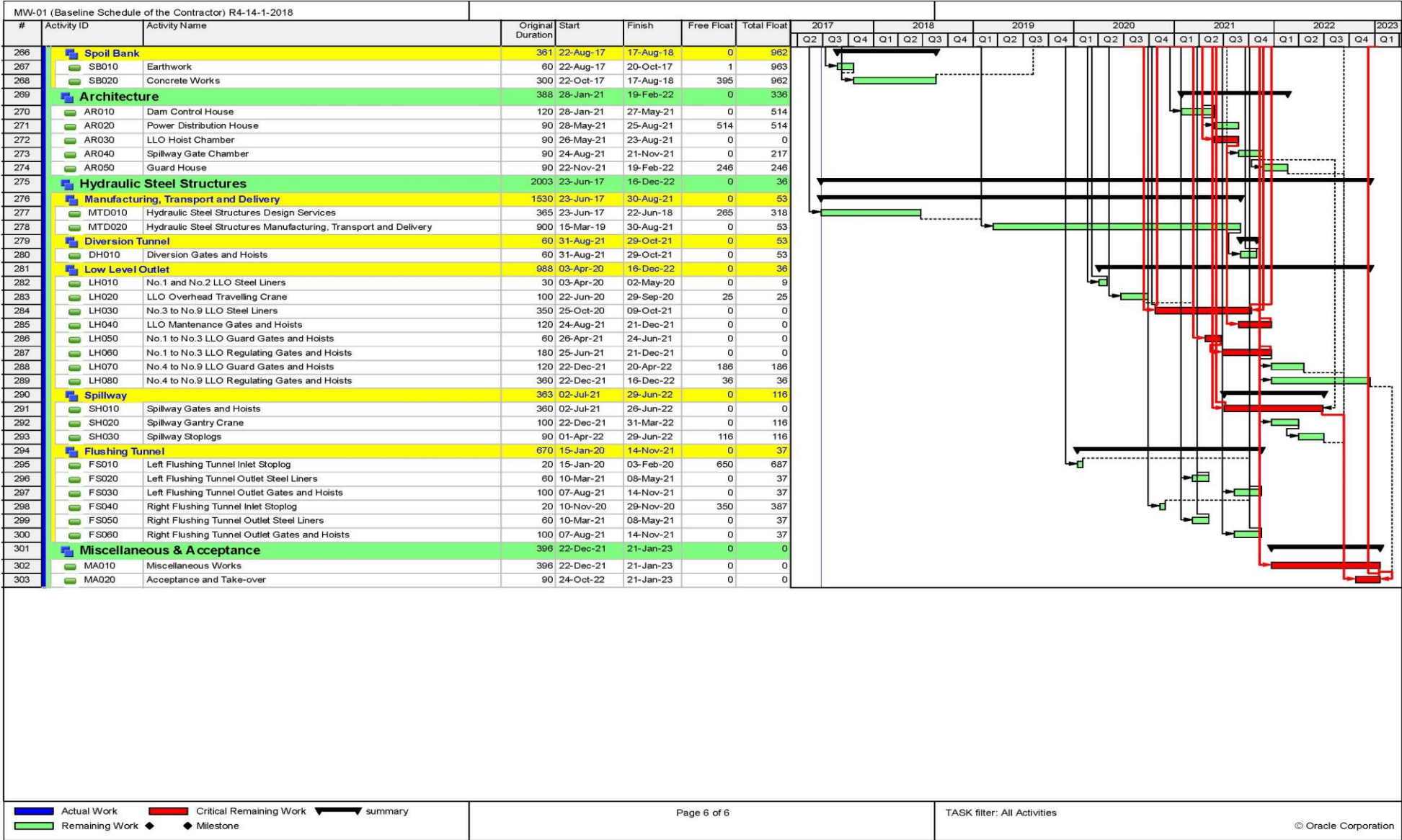
Gantt Chart of Dasu-MW-01 (4 of 6)

Figure 16 [5/6]



Gantt Chart of Dasu-MW-01 (5 of 6)

Figure 16 [6/6]



Gantt Chart of Dasu-MW-01 (6 of 6)

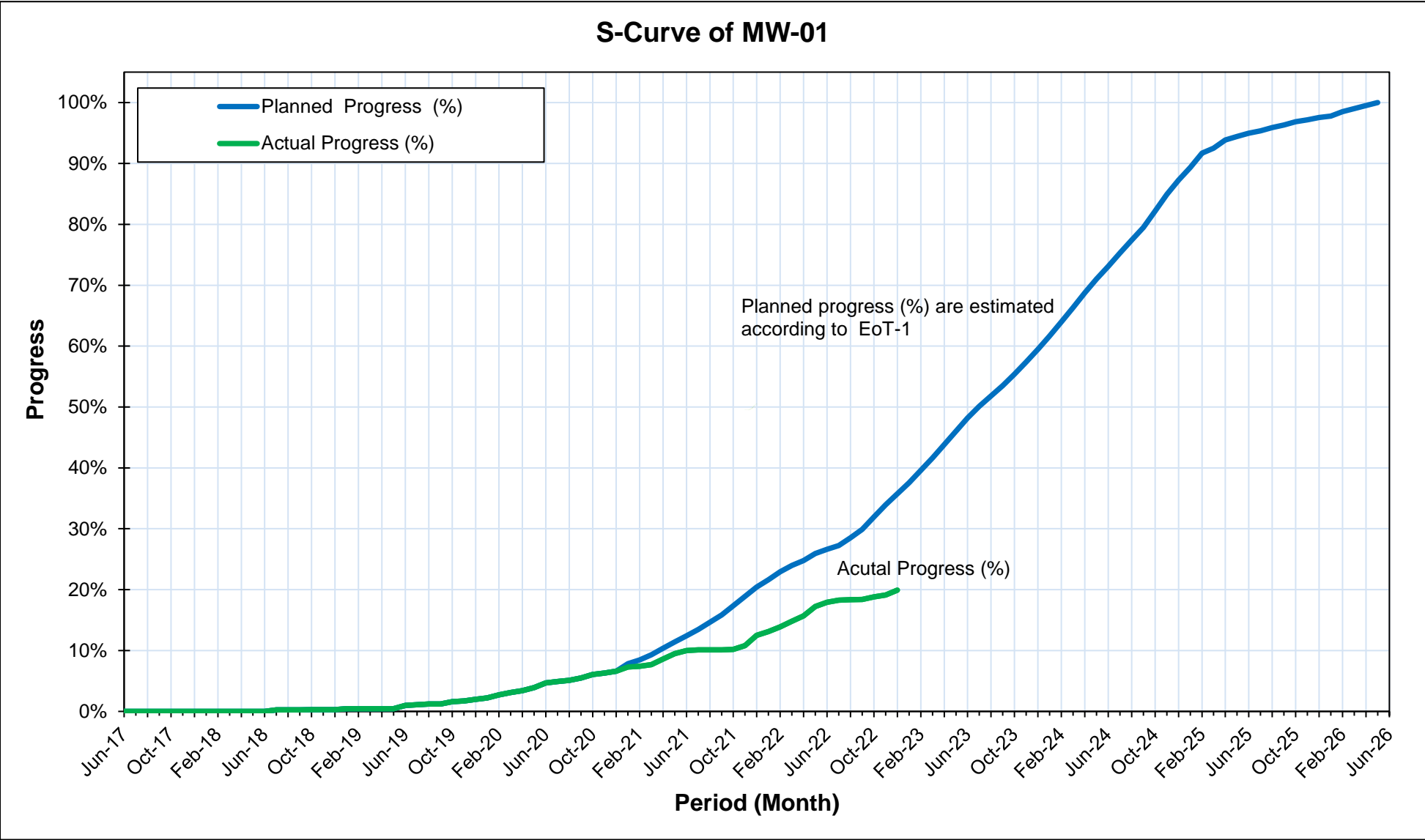


Figure 17: S-Curve for MW-01

Figure 18 [1/8]

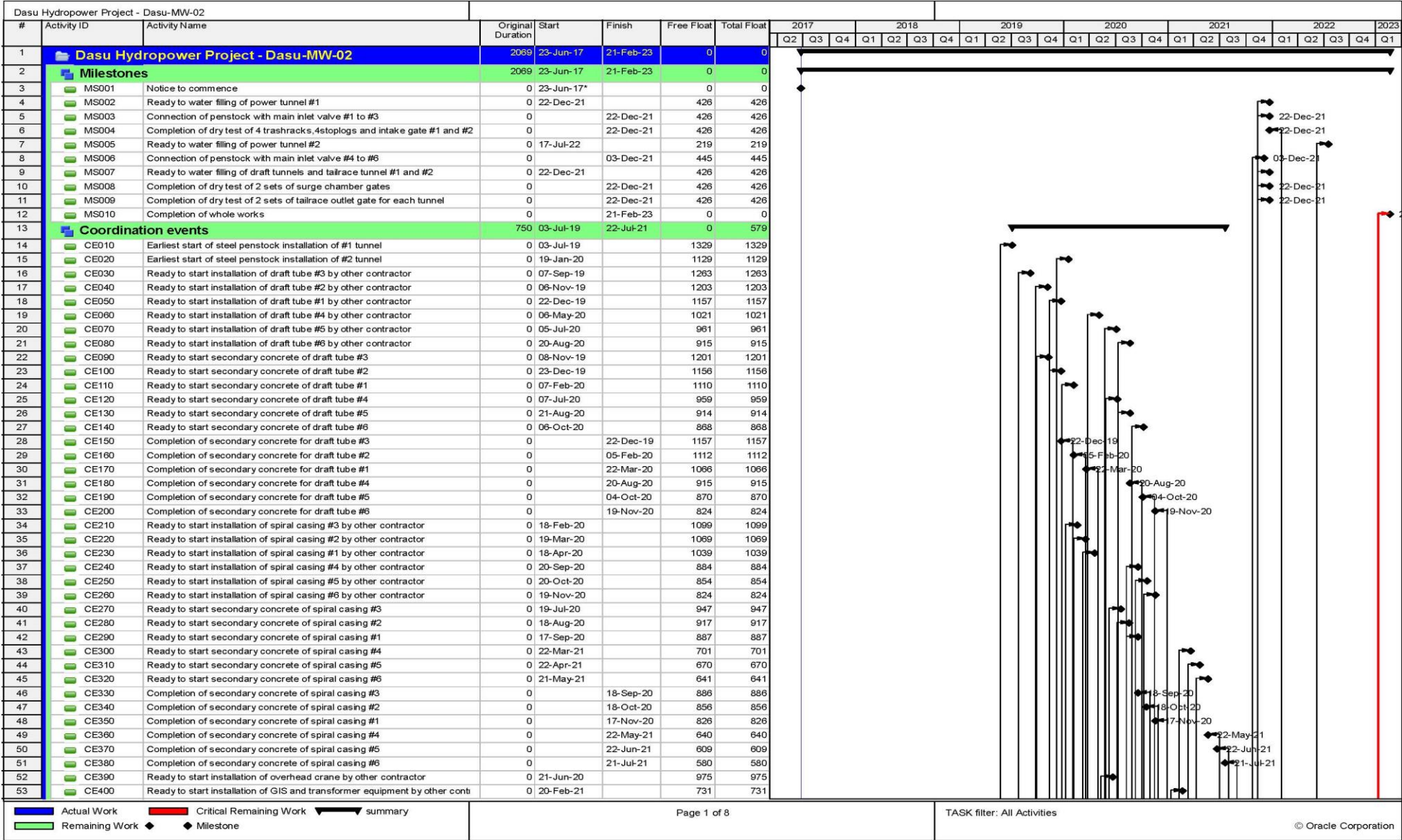
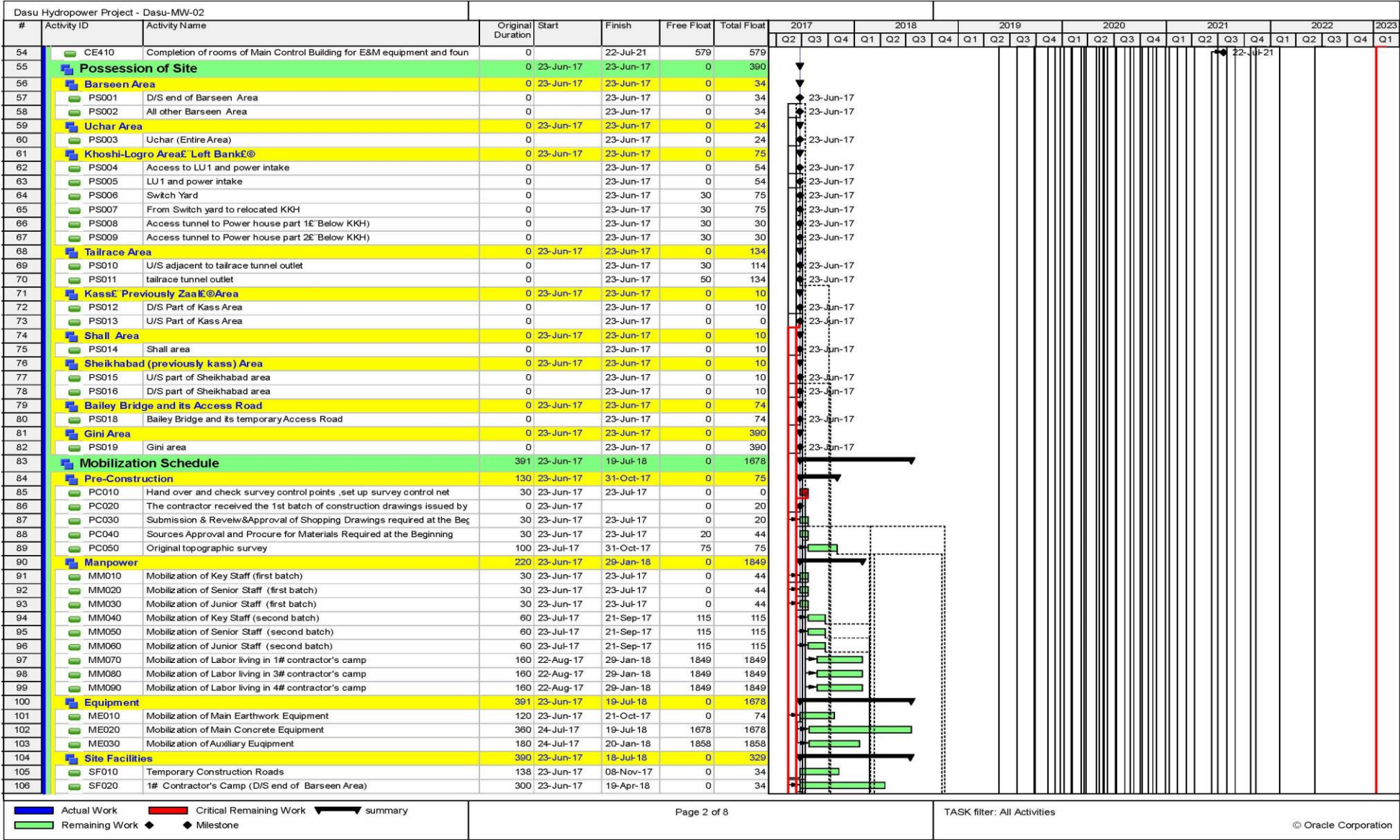


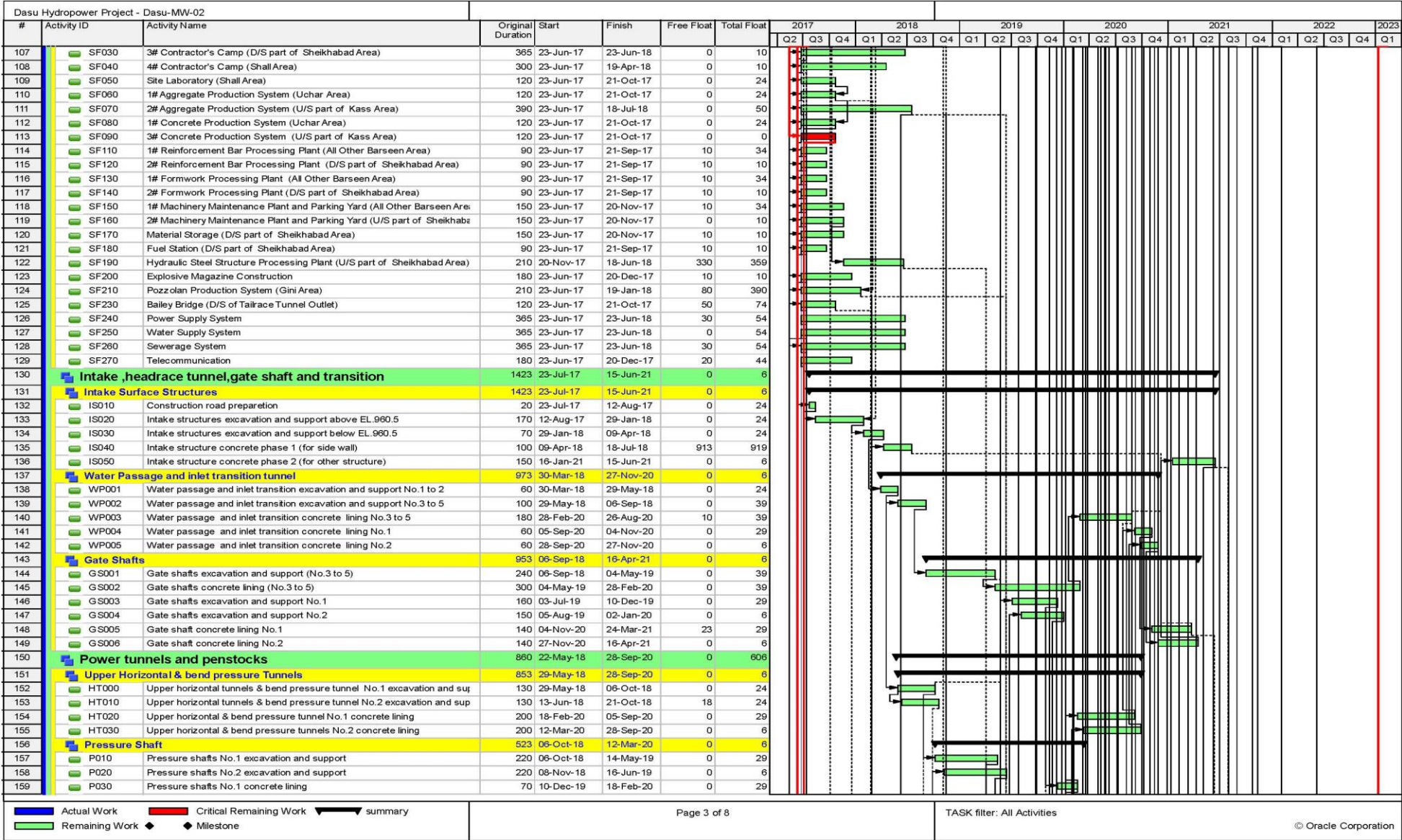
Figure 18: Gantt Chart of Dasu-MW-02 (1 of 8)

Figure 18 [2/8]



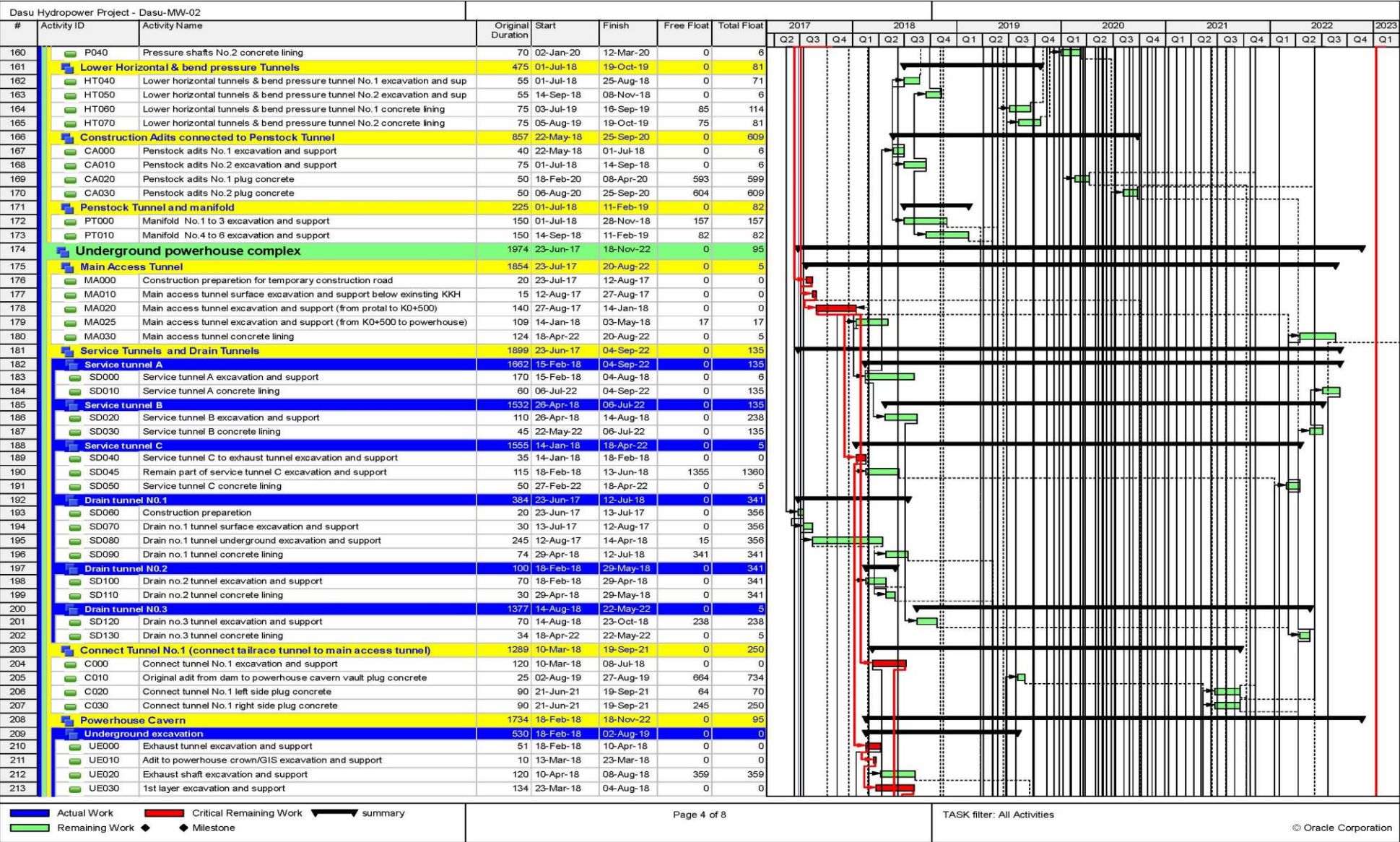
Gantt Chart of Dasu-MW-02 (2 of 8)

Figure 18 [3/8]



Gantt Chart of Dasu-MW-02 (3 of 8)

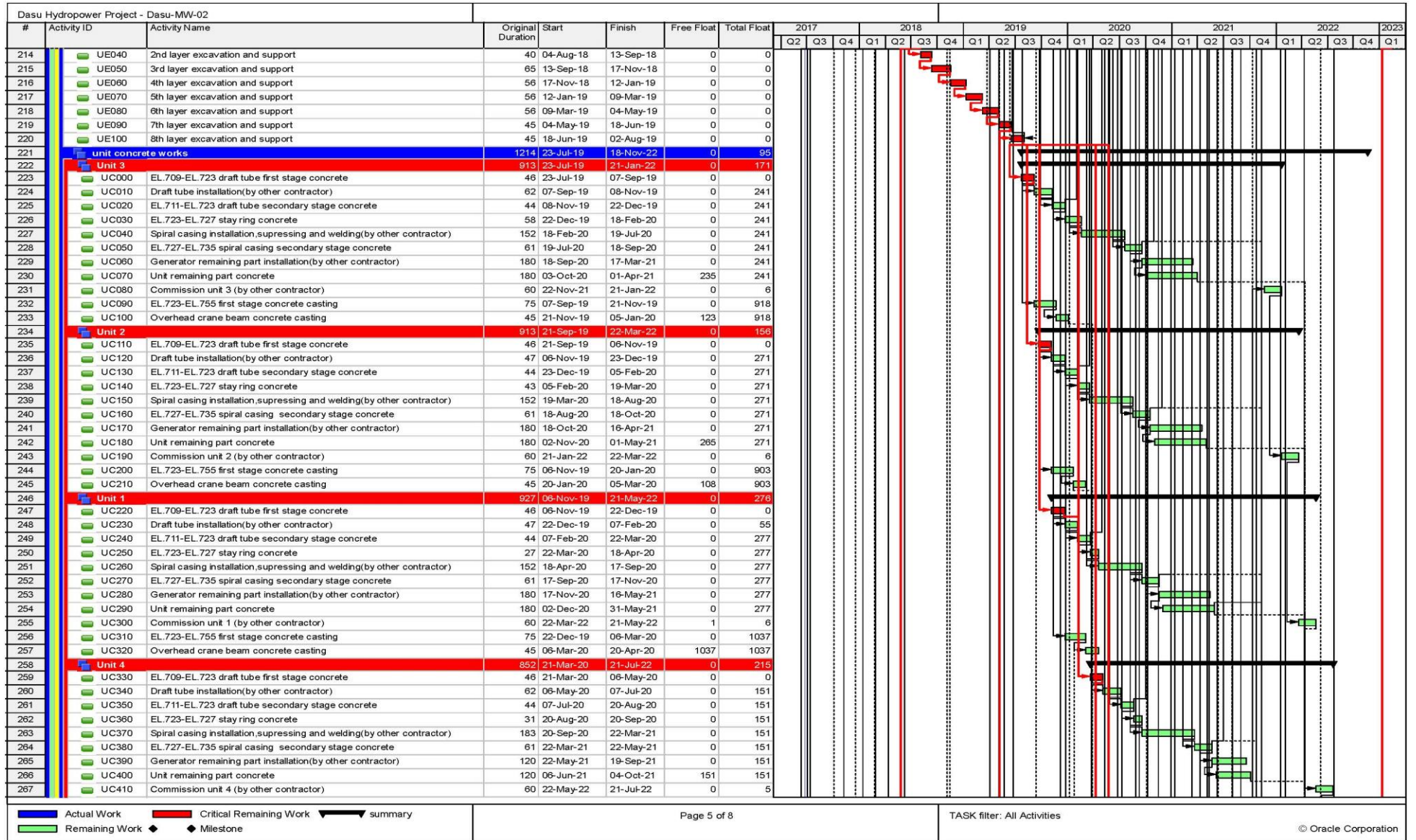
Figure 18 [4/8]



Gantt Chart of Dasu-MW-02 (4 of 8)



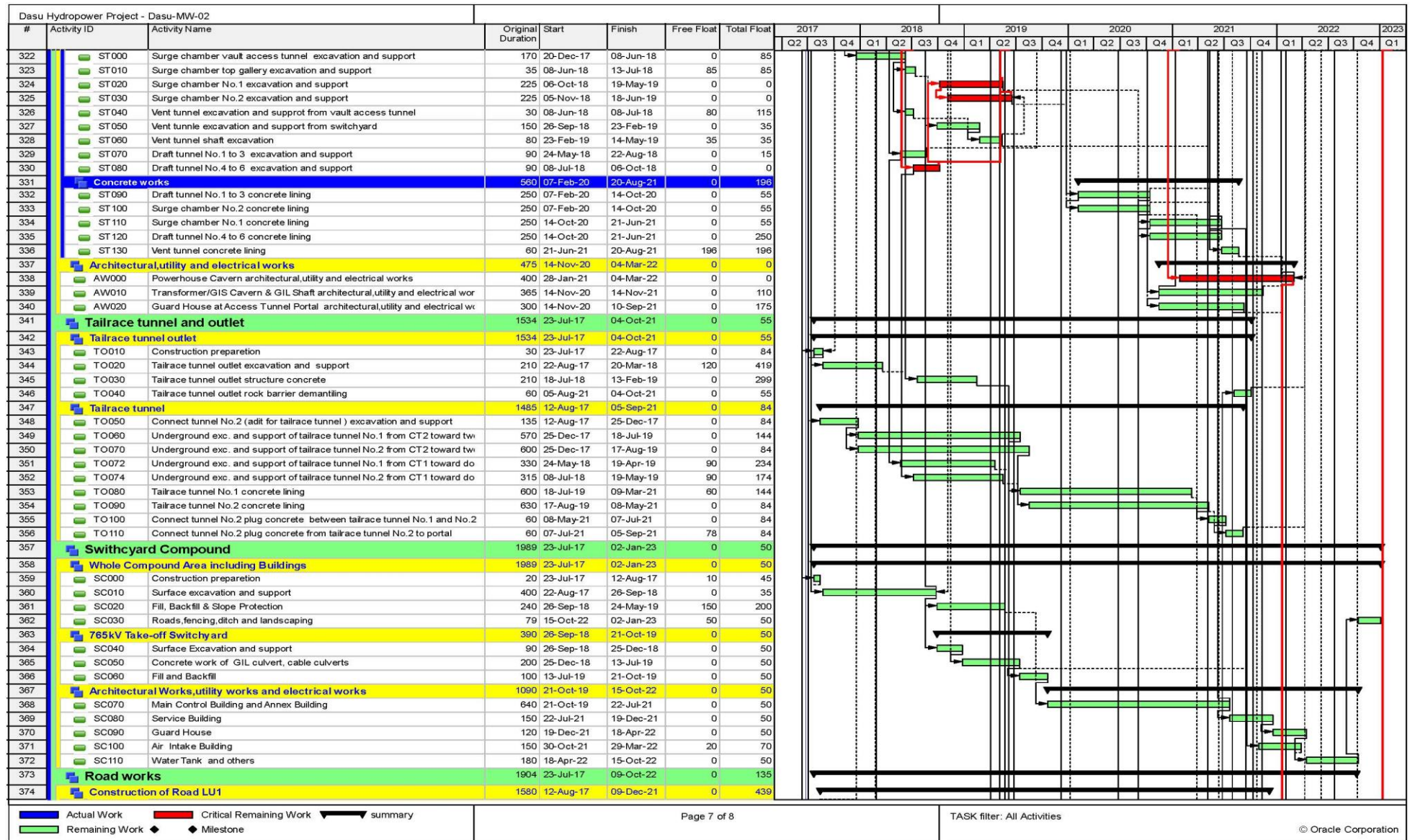
Figure 18 [5/8]



Gantt Chart of Dasu-MW-02 (5 of 8)

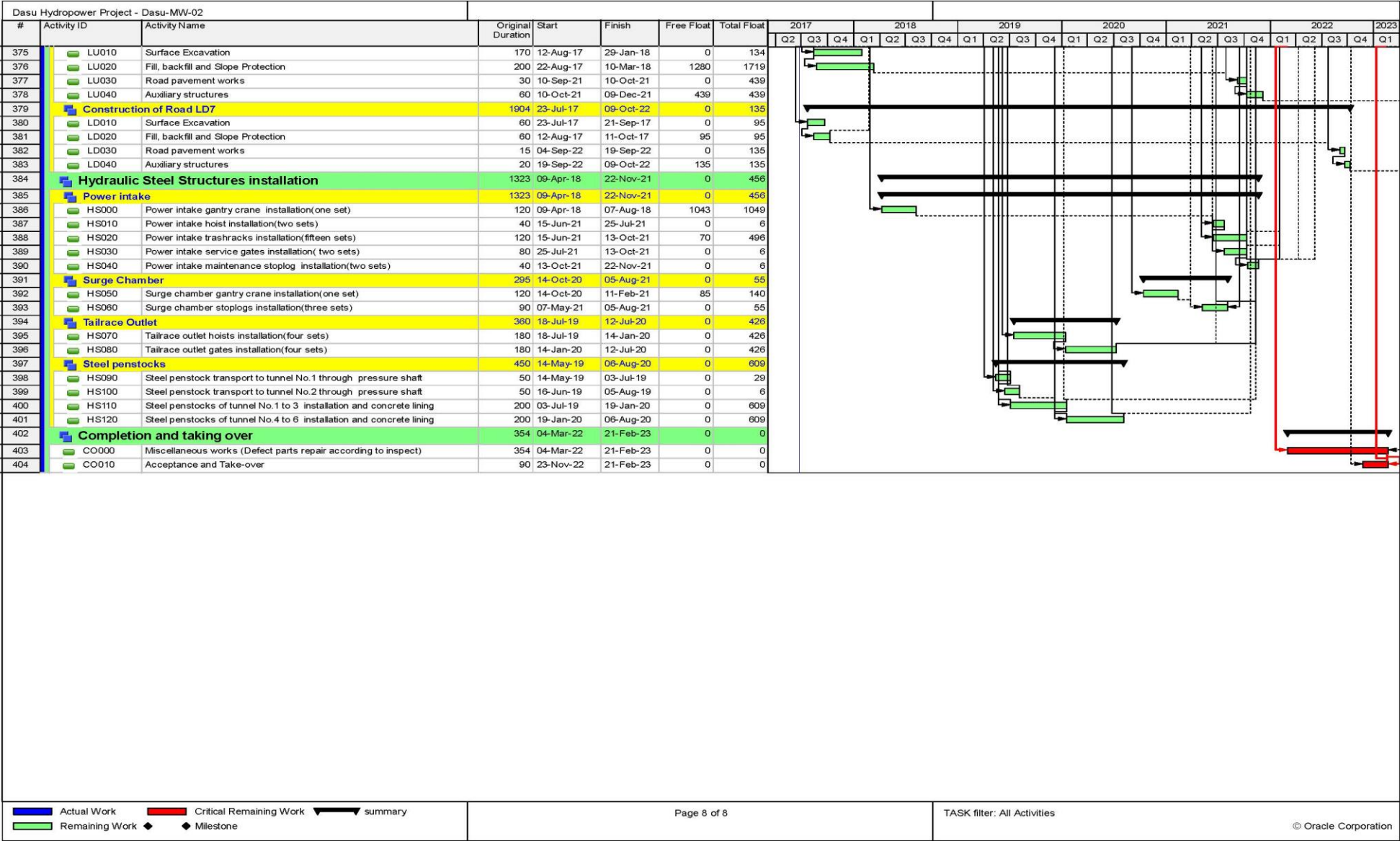


**Figure 18 [7/8]**



**Gantt Chart of Dasu-MW-02 (7 of 8)**

Figure 18 [8/8]



█ Actual Work   
 █ Critical Remaining Work   
  summary  
█ Remaining Work   
 ◆ Milestone

Gantt Chart of Dasu-MW-02 (8 of 8)

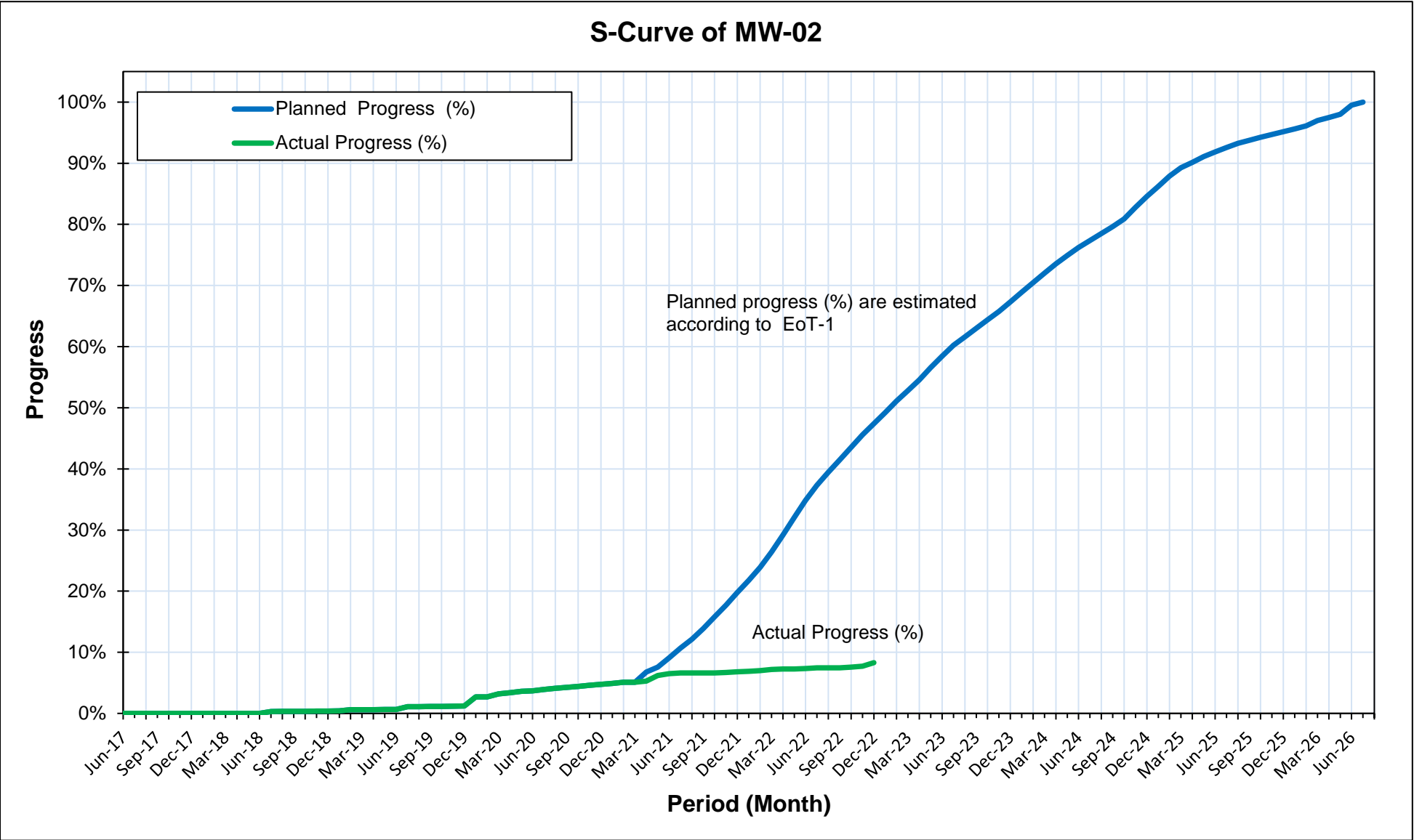


Figure 19: S-Curve for MW-02

Figure 20 [1/14]

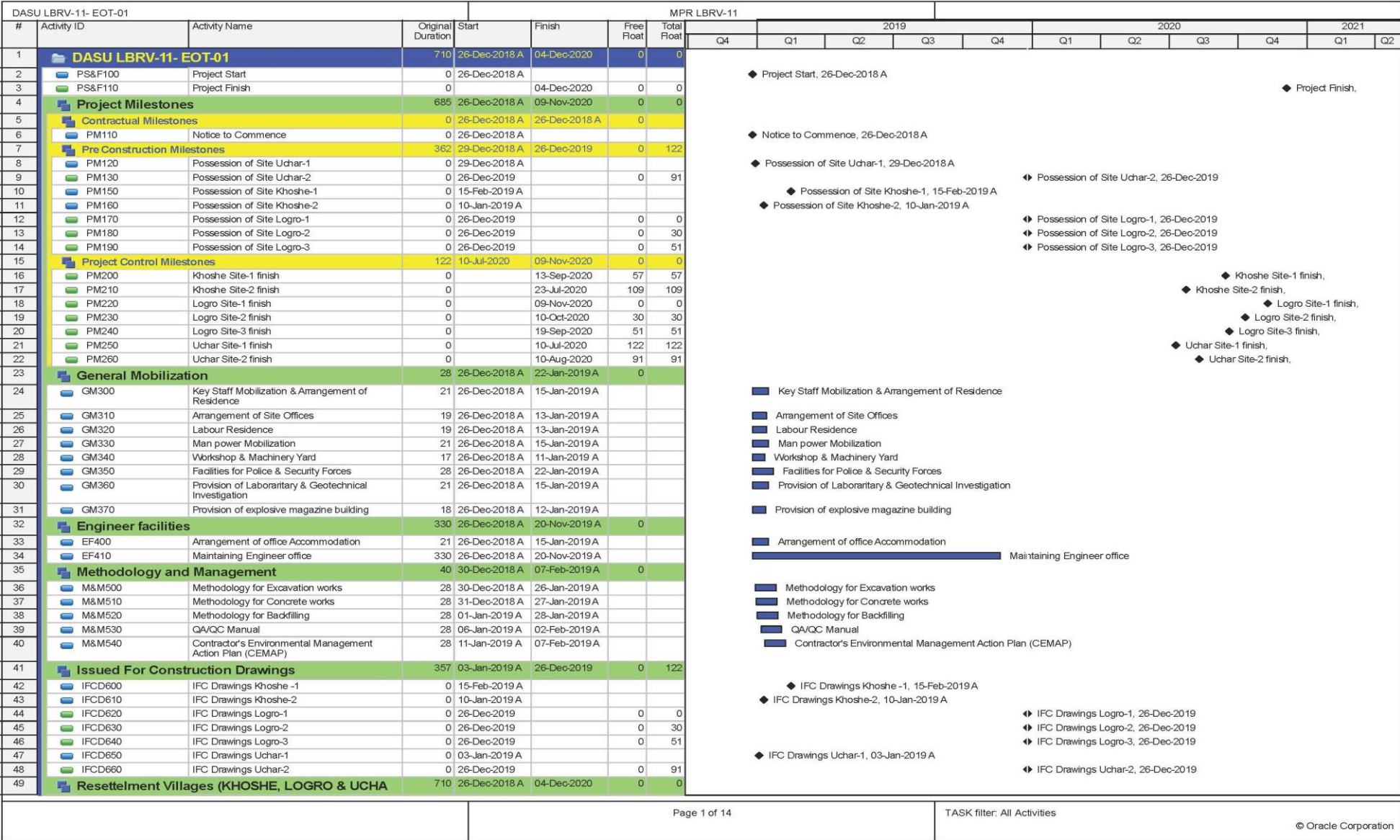
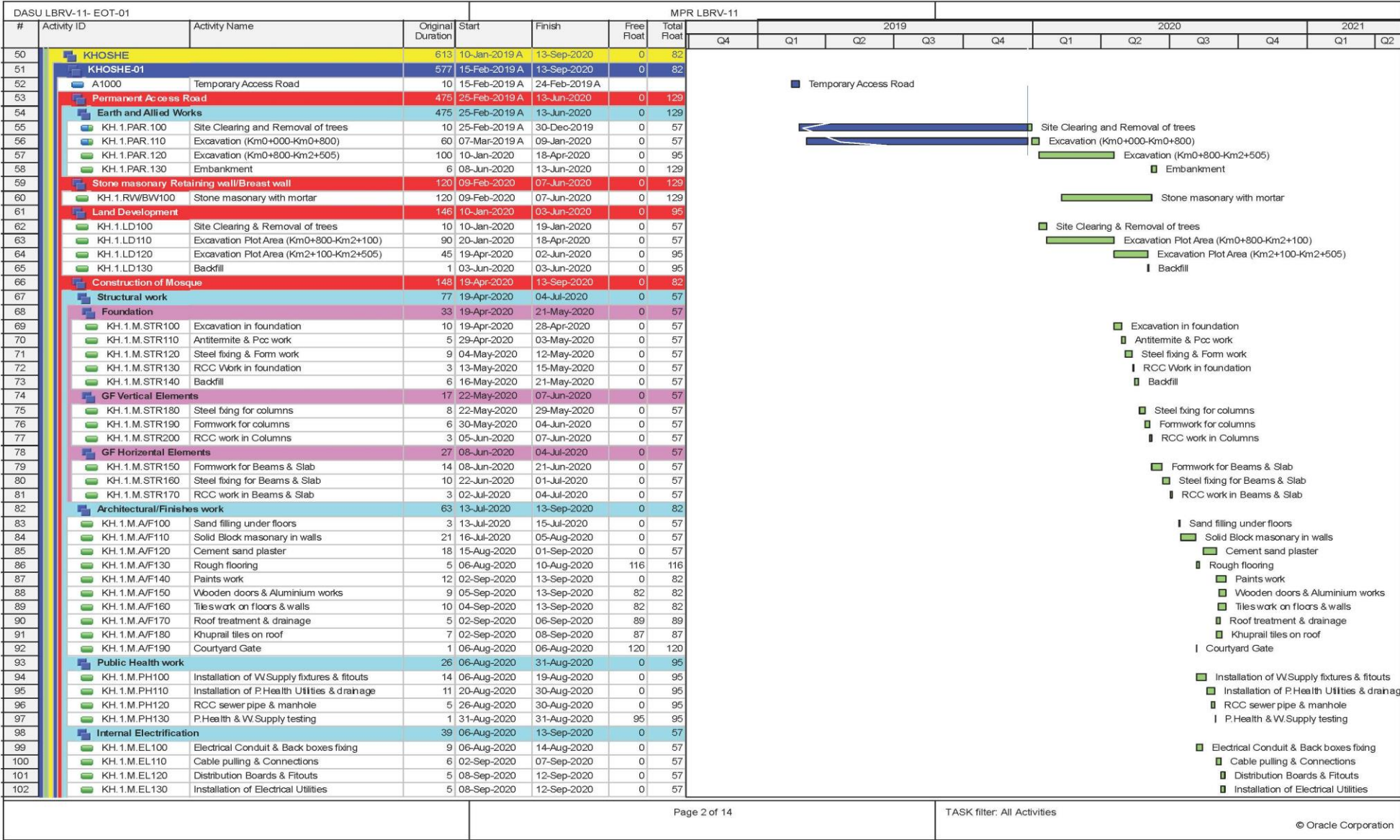
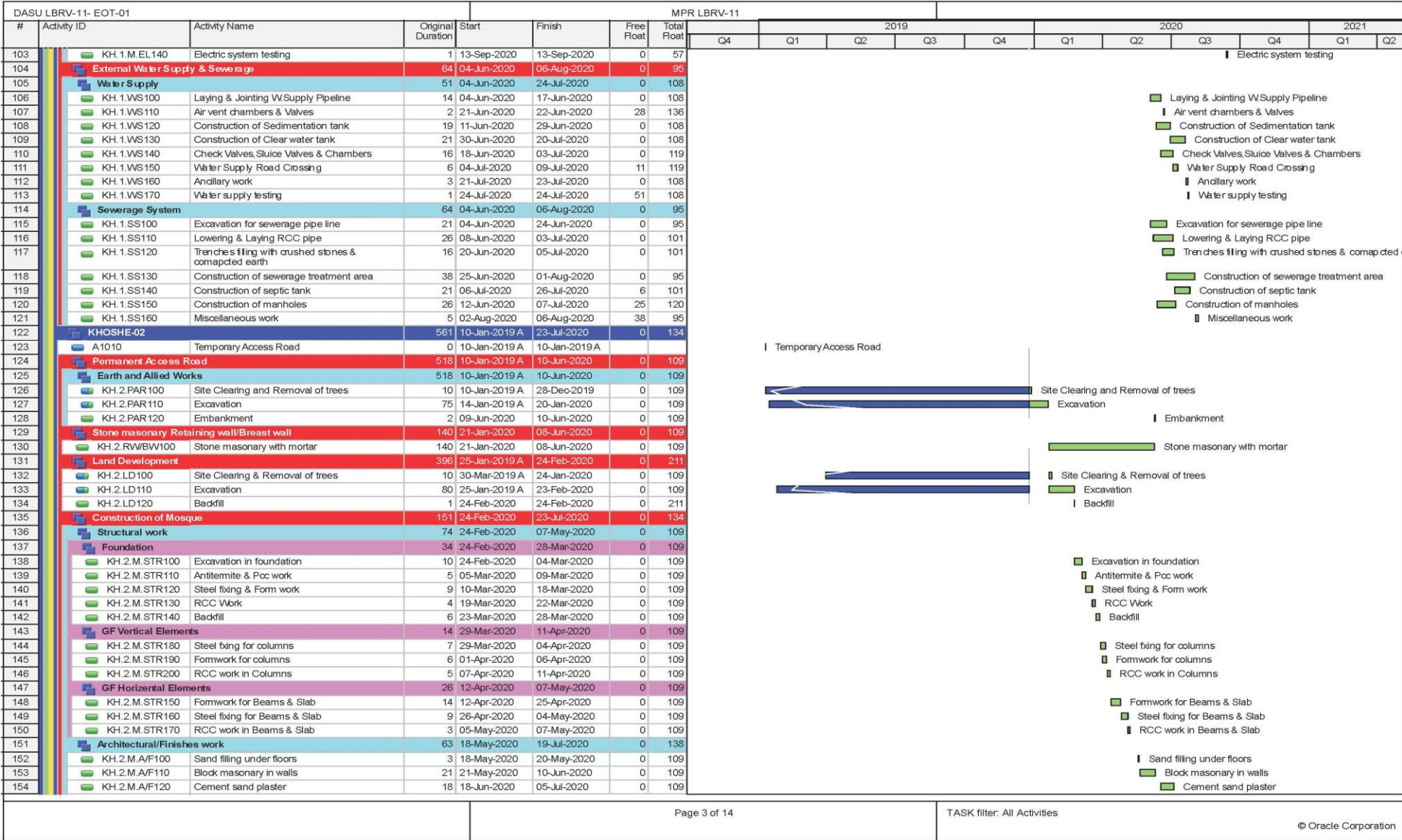


Figure 20: Gantt Chart of Dasu-LBRV-11 (1 of 14)



Gantt Chart of Dasu-LBRV-11 (2 of 14)



Gantt Chart of Dasu-LBRV-11 (3 of 14)



DASU LBRV-11- EOT-01				MPR LBRV-11															
#	Activity ID	Activity Name	Original Duration	Start	Finish	Free Float	Total Float	2019				2020				2021			
								Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
155	KH.2.M.A/F130	Rough flooring	5	11-Jun-2020	15-Jun-2020	172	172												
156	KH.2.M.A/F140	Paints work	14	06-Jul-2020	19-Jul-2020	0	138												
157	KH.2.M.A/F150	Wooden doors & Aluminium works	9	11-Jul-2020	19-Jul-2020	0	138												
158	KH.2.M.A/F160	Tileswork on floors & walls	8	12-Jul-2020	19-Jul-2020	138	138												
159	KH.2.M.A/F170	Roof treatment & drainage	5	06-Jul-2020	10-Jul-2020	147	147												
160	KH.2.M.A/F180	Khuprail tiles on roof	7	06-Jul-2020	12-Jul-2020	145	145												
161	KH.2.M.A/F190	Courtyard Gate	1	11-Jun-2020	11-Jun-2020	176	176												
162	Public Health work		19	11-Jun-2020	29-Jun-2020	0	158												
163	KH.2.M.PH100	Installation of WSupply fixtures & fitouts	10	11-Jun-2020	20-Jun-2020	0	158												
164	KH.2.M.PH110	Installation of P Health Utilities & drainage	8	21-Jun-2020	28-Jun-2020	0	158												
165	KH.2.M.PH120	RCC sewer pipe & manhole	5	24-Jun-2020	28-Jun-2020	0	158												
166	KH.2.M.PH130	P.Health & W.Supply testing	1	29-Jun-2020	29-Jun-2020	158	158												
167	Internal Electrification		43	11-Jun-2020	23-Jul-2020	0	109												
168	KH.2.M.EL100	Electrical Conduit & Back boxes fixing	7	11-Jun-2020	17-Jun-2020	0	109												
169	KH.2.M.EL110	Cable pulling & Connections	6	06-Jul-2020	11-Jul-2020	0	109												
170	KH.2.M.EL120	Distribution Boards & Fitouts	5	12-Jul-2020	16-Jul-2020	0	109												
171	KH.2.M.EL130	Installation of Electrical Utilities	6	17-Jul-2020	22-Jul-2020	0	109												
172	KH.2.M.EL140	Electric system testing	1	23-Jul-2020	23-Jul-2020	0	109												
173	External Water Supply & Sewerage		48	25-Feb-2020	12-Apr-2020	0	211												
174	Water Supply		42	02-Mar-2020	12-Apr-2020	0	211												
175	KH.2.WS100	Laying & Jointing WSupply Pipeline	14	02-Mar-2020	15-Mar-2020	0	211												
176	KH.2.WS110	Air vent chambers & Valves	2	16-Mar-2020	17-Mar-2020	17	228												
177	KH.2.WS120	Construction of Sedimentation tank	19	14-Mar-2020	01-Apr-2020	0	211												
178	KH.2.WS130	Construction of Clear water tank	21	14-Mar-2020	03-Apr-2020	0	211												
179	KH.2.WS150	Check Valves,Sluice Valves & Chambers	12	16-Mar-2020	27-Mar-2020	7	218												
180	KH.2.WS160	WSupply Road & Nullah crossing	6	16-Mar-2020	21-Mar-2020	13	224												
181	KH.2.WS170	Ancillary work	3	04-Apr-2020	06-Apr-2020	0	211												
182	KH.2.WS180	Water supply testing	1	12-Apr-2020	12-Apr-2020	102	211												
183	Sewerage System		45	25-Feb-2020	09-Apr-2020	0	214												
184	KH.2.SS100	Excavation for sewerage pipe line	13	25-Feb-2020	08-Mar-2020	0	214												
185	KH.2.SS110	Lowering & Laying RCC pipe	12	29-Feb-2020	11-Mar-2020	0	214												
186	KH.2.SS120	Trenches filling with crushed stones & compacted earth	12	03-Mar-2020	14-Mar-2020	0	214												
187	KH.2.SS130	Construction of sewerage treatment area	12	09-Mar-2020	20-Mar-2020	15	229												
188	KH.2.SS140	Construction of septic tank	21	15-Mar-2020	04-Apr-2020	0	214												
189	KH.2.SS150	Construction of manholes	16	29-Feb-2020	15-Mar-2020	20	234												
190	KH.2.SS160	Miscellaneous work	5	05-Apr-2020	09-Apr-2020	105	214												
191	LOGRO		320	26-Dec-2019	09-Nov-2020	0	25												
192	LOGRO-01		320	26-Dec-2019	09-Nov-2020	0	25												
193	LG.1.TAR.100	Temporary Access Road	18	26-Dec-2019	12-Jan-2020	0	0												
194	Permanent Access Road		234	13-Jan-2020	02-Sep-2020	0	53												
195	Earth and Allied Works		234	13-Jan-2020	02-Sep-2020	0	53												
196	LG.1.PAR.100	Site Clearing and Removal of trees	10	13-Jan-2020	22-Jan-2020	0	0												
197	LG.1.PAR.110	Excavation Link-1	65	16-Jan-2020	20-Mar-2020	0	0												
198	LG.1.PAR.130	Excavation Link-2	45	21-Mar-2020	04-May-2020	0	40												
199	LG.1.PAR.140	Excavation Link-3	35	05-May-2020	08-Jun-2020	0	40												
200	LG.1.PAR.150	Embankment	6	28-Aug-2020	02-Sep-2020	0	53												
201	Stone masonry Retaining wall/Breast wall		160	21-Mar-2020	27-Aug-2020	0	53												
202	LG.1.RW/BW100	Stone masonry with mortar	160	21-Mar-2020	27-Aug-2020	0	53												
203	Land Development		100	21-Mar-2020	28-Jun-2020	0	114												
204	LG.1.LD100	Site Clearing & Removal of trees	10	21-Mar-2020	30-Mar-2020	0	0												
205	LG.1.LD110	Excavation (Link-1 Plot Area)	45	21-Mar-2020	04-May-2020	0	0												
206	LG.1.LD120	Excavation (Link-2 Plot Area)	35	05-May-2020	08-Jun-2020	0	0												

- █ Rough flooring
- █ Paints work
- █ Wooden doors & Aluminium works
- █ Tileswork on floors & walls
- █ Roof treatment & drainage
- █ Khuprail tiles on roof
- █ Courtyard Gate
- █ Installation of WSupply fixtures & fitouts
- █ Installation of P Health Utilities & drainage
- █ RCC sewer pipe & manhole
- █ P.Health & W.Supply testing
- █ Electrical Conduit & Back boxes fixing
- █ Cable pulling & Connections
- █ Distribution Boards & Fitouts
- █ Installation of Electrical Utilities
- █ Electric system testing
- █ Laying & Jointing WSupply Pipeline
- █ Air vent chambers & Valves
- █ Construction of Sedimentation tank
- █ Construction of Clear water tank
- █ Check Valves,Sluice Valves & Chambers
- █ WSupply Road & Nullah crossing
- █ Ancillary work
- █ Water supply testing
- █ Excavation for sewerage pipe line
- █ Lowering & Laying RCC pipe
- █ Trenches filling with crushed stones & compacted earth
- █ Construction of sewerage treatment area
- █ Construction of septic tank
- █ Construction of manholes
- █ Miscellaneous work
- █ Temporary Access Road
- █ Site Clearing and Removal of trees
- █ Excavation Link-1
- █ Excavation Link-2
- █ Excavation Link-3
- █ Embankment
- █ Stone masonry with mortar
- █ Site Clearing & Removal of trees
- █ Excavation (Link-1 Plot Area)
- █ Excavation (Link-2 Plot Area)

Gantt Chart of Dasu-LBRV-11 (4 of 14)

Figure 20 [5/14]

DASU LBRV-11- EOT-01		MPR LBRV-11						2019								2020				2021	
#	Activity ID	Activity Name	Original Duration	Start	Finish	Free Float	Total Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2			
207	LG.1.LD130	Excavation (Link-3 Plot Area)	50	05-May-2020	23-Jun-2020	0	40														
208	LG.1.LD140	Backfill	5	24-Jun-2020	28-Jun-2020	61	114														
209	<b>Construction of Mosque</b>		<b>153</b>	<b>05-May-2020</b>	<b>04-Oct-2020</b>	<b>0</b>	<b>61</b>														
210	<b>Structural work</b>		<b>82</b>	<b>05-May-2020</b>	<b>25-Jul-2020</b>	<b>0</b>	<b>40</b>														
211	<b>Foundation</b>		<b>38</b>	<b>05-May-2020</b>	<b>11-Jun-2020</b>	<b>0</b>	<b>40</b>														
212	LG.1.M.STR100	Excavation in foundation	11	05-May-2020	15-May-2020	0	40														
213	LG.1.M.STR110	Antitermite & Pcc work	6	16-May-2020	21-May-2020	0	40														
214	LG.1.M.STR120	Steel fixing & Form work	10	22-May-2020	31-May-2020	0	40														
215	LG.1.M.STR130	RCC Work	5	01-Jun-2020	05-Jun-2020	0	40														
216	LG.1.M.STR140	Backfill	6	06-Jun-2020	11-Jun-2020	0	40														
217	<b>GF Vertical Elements</b>		<b>22</b>	<b>12-Jun-2020</b>	<b>03-Jul-2020</b>	<b>0</b>	<b>40</b>														
218	LG.1.M.STR150	Steel fixing for columns	10	12-Jun-2020	21-Jun-2020	0	40														
219	LG.1.M.STR160	Formwork for columns	7	22-Jun-2020	28-Jun-2020	0	40														
220	LG.1.M.STR170	RCC work in Columns	5	29-Jun-2020	03-Jul-2020	0	40														
221	<b>GF Horizontal Elements</b>		<b>22</b>	<b>04-Jul-2020</b>	<b>25-Jul-2020</b>	<b>0</b>	<b>40</b>														
222	LG.1.M.STR180	Formwork for Beams & Slab	11	04-Jul-2020	14-Jul-2020	0	40														
223	LG.1.M.STR190	Steel fixing for Beams & Slab	8	15-Jul-2020	22-Jul-2020	0	40														
224	LG.1.M.STR200	RCC work in Beams & Slab	3	23-Jul-2020	25-Jul-2020	0	40														
225	<b>Architectural/Finishes work</b>		<b>63</b>	<b>03-Aug-2020</b>	<b>04-Oct-2020</b>	<b>0</b>	<b>61</b>														
226	LG.1.M.A/F100	Sand filling under floors	4	03-Aug-2020	06-Aug-2020	0	40														
227	LG.1.M.A/F110	Solid Block masonry in walls	21	07-Aug-2020	27-Aug-2020	0	40														
228	LG.1.M.A/F120	Cement sand plaster	18	06-Sep-2020	23-Sep-2020	0	40														
229	LG.1.M.A/F130	Rough flooring	4	28-Aug-2020	31-Aug-2020	95	95														
230	LG.1.M.A/F140	Paints work	11	24-Sep-2020	04-Oct-2020	0	61														
231	LG.1.M.A/F150	Wooden doors & Aluminium works	9	26-Sep-2020	04-Oct-2020	0	61														
232	LG.1.M.A/F160	Tiles work on floors & walls	8	27-Sep-2020	04-Oct-2020	61	61														
233	LG.1.M.A/F170	Roof treatment & drainage	5	24-Sep-2020	28-Sep-2020	67	67														
234	LG.1.M.A/F180	Courtyard Gate	1	28-Aug-2020	28-Aug-2020	98	98														
235	LG.1.M.A/F190	Khuprail tiles on roof	5	24-Sep-2020	28-Sep-2020	67	67														
236	<b>Public Health work</b>		<b>22</b>	<b>28-Aug-2020</b>	<b>18-Sep-2020</b>	<b>0</b>	<b>77</b>														
237	LG.1.M.PH100	Installation of WSupply fixtures & fitouts	10	28-Aug-2020	06-Sep-2020	0	77														
238	LG.1.M.PH110	Installation of PHealth Utilities & drainage	11	07-Sep-2020	17-Sep-2020	0	77														
239	LG.1.M.PH120	RCC sewer pipe & manhole	5	13-Sep-2020	17-Sep-2020	0	77														
240	LG.1.M.PH130	P.Health & W.Supply testing	1	18-Sep-2020	18-Sep-2020	77	77														
241	<b>Internal Electrification</b>		<b>34</b>	<b>28-Aug-2020</b>	<b>30-Sep-2020</b>	<b>0</b>	<b>40</b>														
242	LG.1.M.EL100	Electrical Conduit & Back boxes fixing	9	28-Aug-2020	05-Sep-2020	0	40														
243	LG.1.M.EL110	Cable pulling & Connections	6	24-Sep-2020	29-Sep-2020	0	40														
244	LG.1.M.EL120	Distribution Boards & Fitouts	6	24-Sep-2020	29-Sep-2020	0	40														
245	LG.1.M.EL130	Installation of Electrical Utilities	4	26-Sep-2020	29-Sep-2020	0	40														
246	LG.1.M.EL140	Electric system testing	1	30-Sep-2020	30-Sep-2020	40	40														
247	<b>Construction of Primary/Middle School</b>		<b>154</b>	<b>09-Jun-2020</b>	<b>09-Nov-2020</b>	<b>0</b>	<b>25</b>														
248	<b>Structural work</b>		<b>71</b>	<b>09-Jun-2020</b>	<b>18-Aug-2020</b>	<b>0</b>	<b>0</b>														
249	<b>Foundation</b>		<b>27</b>	<b>09-Jun-2020</b>	<b>05-Jul-2020</b>	<b>0</b>	<b>0</b>														
250	LG.1.PS.STR100	Excavation in foundation	10	09-Jun-2020	18-Jun-2020	0	0														
251	LG.1.PS.STR110	Antitermite & Pcc work	5	16-Jun-2020	20-Jun-2020	0	0														
252	LG.1.PS.STR120	Steel fixing & Form work	9	21-Jun-2020	29-Jun-2020	0	0														
253	LG.1.PS.STR130	RCC Work	5	30-Jun-2020	04-Jul-2020	0	0														
254	LG.1.PS.STR140	Backfill	6	30-Jun-2020	05-Jul-2020	0	0														
255	<b>GF Vertical Elements</b>		<b>16</b>	<b>06-Jul-2020</b>	<b>21-Jul-2020</b>	<b>0</b>	<b>0</b>														
256	LG.1.PS.STR150	Steel fixing for columns	10	06-Jul-2020	15-Jul-2020	0	0														
257	LG.1.PS.STR160	Formwork for columns	7	12-Jul-2020	18-Jul-2020	0	0														
258	LG.1.PS.STR170	RCC work in Columns	3	19-Jul-2020	21-Jul-2020	0	0														
259	<b>GF Horizontal Elements</b>		<b>28</b>	<b>22-Jul-2020</b>	<b>18-Aug-2020</b>	<b>0</b>	<b>0</b>														

Gantt Chart of Dasu-LBRV-11 (5 of 14)

DASU LBRV-11- EOT-01		MPR LBRV-11						2019								2020				2021	
#	Activity ID	Activity Name	Original Duration	Start	Finish	Free Float	Total Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2			
260	LG.1.PS.STR180	Formwork for Beams & Slab	14	22-Jul-2020	04-Aug-2020	0	0														
261	LG.1.PS.STR190	Steel fixing for Beams & Slab	12	05-Aug-2020	16-Aug-2020	0	0														
262	LG.1.PS.STR200	RCC work Beams & Slab	2	17-Aug-2020	18-Aug-2020	0	0														
263		<b>Architectural/Finishes work</b>	70	19-Aug-2020	27-Oct-2020	0	38														
264	LG.1.PS.A/F100	Sand filling under floors	4	19-Aug-2020	22-Aug-2020	0	0														
265	LG.1.PS.A/F110	Block masonry in walls	22	23-Aug-2020	13-Sep-2020	0	0														
266	LG.1.PS.A/F120	Cement sand plaster	20	24-Sep-2020	13-Oct-2020	0	0														
267	LG.1.PS.A/F130	Rough flooring	4	14-Sep-2020	17-Sep-2020	78	78														
268	LG.1.PS.A/F140	Paints work	14	14-Oct-2020	27-Oct-2020	0	38														
269	LG.1.PS.A/F150	Wooden doors & Aluminium works	9	19-Oct-2020	27-Oct-2020	0	38														
270	LG.1.PS.A/F160	Tile work on floors & walls	8	20-Oct-2020	27-Oct-2020	38	38														
271	LG.1.PS.A/F170	Main entrance Gate	2	14-Sep-2020	15-Sep-2020	80	80														
272	LG.1.PS.A/F180	Khupral tiles on roof	6	14-Oct-2020	19-Oct-2020	46	46														
273		<b>Public Health work</b>	19	14-Sep-2020	02-Oct-2020	0	63														
274	LG.1.PS.PH100	Installation of WSupply fixtures & fitouts	10	14-Sep-2020	23-Sep-2020	0	63														
275	LG.1.PS.PH110	Installation of PHealth Utilities & drainage	8	24-Sep-2020	01-Oct-2020	0	63														
276	LG.1.PS.PH120	RCC sewer pipe & manhole	5	27-Sep-2020	01-Oct-2020	0	63														
277	LG.1.PS.PH130	PHealth & WSupply testing	1	02-Oct-2020	02-Oct-2020	63	63														
278		<b>Internal Electrification</b>	57	14-Sep-2020	09-Nov-2020	0	0														
279	LG.1.PS.EL100	Electrical Conduit & Back boxes fixing	10	14-Sep-2020	23-Sep-2020	0	0														
280	LG.1.PS.EL110	Cable pulling & Connections	10	14-Oct-2020	23-Oct-2020	0	0														
281	LG.1.PS.EL120	Distribution Boards & Fitouts	9	24-Oct-2020	01-Nov-2020	0	0														
282	LG.1.PS.EL130	Installation of Electrical Utilities	7	02-Nov-2020	08-Nov-2020	0	0														
283	LG.1.PS.EL140	Electric system testing	1	09-Nov-2020	09-Nov-2020	0	0														
284		<b>External Water Supply &amp; Sewerage</b>	70	09-Jun-2020	17-Aug-2020	0	84														
285		<b>Water Supply</b>	45	09-Jun-2020	23-Jul-2020	0	109														
286	LG.1.WS100	Laying & Jointing WSupply Pipeline	15	09-Jun-2020	23-Jun-2020	0	109														
287	LG.1.WS110	Air vent chambers & Valves	2	24-Jun-2020	25-Jun-2020	22	131														
288	LG.1.WS120	Construction of Sedimentation tank	15	19-Jun-2020	03-Jul-2020	0	109														
289	LG.1.WS130	Construction of Clear water tank	14	04-Jul-2020	17-Jul-2020	0	109														
290	LG.1.WS140	Check Valves, Sluice Valves & Chambers	14	24-Jun-2020	07-Jul-2020	10	119														
291	LG.1.WS150	Ancillary work	5	18-Jul-2020	22-Jul-2020	0	109														
292	LG.1.WS160	Water supply testing	1	23-Jul-2020	23-Jul-2020	109	109														
293		<b>Sewerage System</b>	55	24-Jun-2020	17-Aug-2020	0	84														
294	LG.1.SS100	Excavation for sewerage pipe line	7	24-Jun-2020	30-Jun-2020	0	84														
295	LG.1.SS110	Lowering & Laying RCC pipe	14	01-Jul-2020	14-Jul-2020	0	106														
296	LG.1.SS120	Trenches filling with crushed stones & compacted earth	14	05-Jul-2020	18-Jul-2020	25	109														
297	LG.1.SS130	Construction of sewerage treatment area	27	01-Jul-2020	27-Jul-2020	0	84														
298	LG.1.SS140	Construction of septic tank	16	28-Jul-2020	12-Aug-2020	0	84														
299	LG.1.SS150	Construction of manholes	21	01-Jul-2020	21-Jul-2020	22	106														
300	LG.1.SS160	Miscellaneous work	5	13-Aug-2020	17-Aug-2020	84	84														
301		<b>LOGRO-02</b>	290	26-Dec-2019	10-Oct-2020	0	55														
302		<b>Permanent Access Road</b>	185	26-Dec-2019	27-Jun-2020	0	87														
303		<b>Earth and Allied Works</b>	185	26-Dec-2019	27-Jun-2020	0	87														
304	LG.2.PAR100	Site Clearing and Removal of trees	7	26-Dec-2019	01-Jan-2020	0	30														
305	LG.2.PAR110	Excavation (Km0+000-Km0+270)	55	29-Dec-2019	21-Feb-2020	0	30														
306	LG.2.PAR120	Excavation (Km0+270-Km0+461)	45	22-Feb-2020	06-Apr-2020	0	87														
307	LG.2.PAR130	Embankment	7	21-Jan-2020	27-Jun-2020	0	87														
308		<b>Stone masonry Retaining wall/Breast wall</b>	75	07-Apr-2020	20-Jun-2020	0	87														
309	LG.2.RW/BW110	Stone masonry with mortar	75	07-Apr-2020	20-Jun-2020	0	87														
310		<b>Land Development</b>	117	22-Feb-2020	17-Jun-2020	0	63														
311	LG.2.LD100	Site Clearing & Removal of trees	5	22-Feb-2020	26-Feb-2020	0	30														

Gantt Chart of Dasu-LBRV-11 (6 of 14)

DASU LBRV-11- EOT-01		MPR LBRV-11																
#	Activity ID	Activity Name	Original Duration	Start	Finish	Free Float	Total Float	2019				2020				2021		
								Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
312	LG.2.LD110	Excavation (Km0+270-Km0+350) Plot Area	70	25-Feb-2020	04-May-2020	0	30											
313	LG.2.LD120	Excavation (Km0+350-Km0+461) Plot Area	40	05-May-2020	13-Jun-2020	0	63											
314	LG.2.LD130	Backfill	4	14-Jun-2020	17-Jun-2020	0	63											
315	<b>Construction of Mosque</b>		159	05-May-2020	10-Oct-2020	0	55											
316	<b>Structural work</b>		73	05-May-2020	16-Jul-2020	0	30											
317	<b>Foundation</b>		35	05-May-2020	08-Jun-2020	0	30											
318	LG.2.M.STR100	Excavation in foundation	10	05-May-2020	14-May-2020	0	30											
319	LG.2.M.STR110	Antitermite & Pcc work	5	15-May-2020	19-May-2020	0	30											
320	LG.2.M.STR120	Steel fixing & Form work	9	20-May-2020	28-May-2020	0	30											
321	LG.2.M.STR130	RCC Work	5	29-May-2020	02-Jun-2020	0	30											
322	LG.2.M.STR140	Backfill	6	03-Jun-2020	08-Jun-2020	0	30											
323	<b>GF Vertical Elements</b>		11	09-Jun-2020	19-Jun-2020	0	30											
324	LG.2.M.STR150	Steel fixing for columns	10	09-Jun-2020	18-Jun-2020	0	30											
325	LG.2.M.STR160	Formwork for columns	7	12-Jun-2020	18-Jun-2020	0	30											
326	LG.2.M.STR170	RCC work in Columns	5	15-Jun-2020	19-Jun-2020	0	30											
327	<b>GF Horizontal Elements</b>		19	28-Jun-2020	16-Jul-2020	0	30											
328	LG.2.M.STR180	Formwork for Beams & Slab	9	28-Jun-2020	06-Jul-2020	0	30											
329	LG.2.M.STR190	Steel fixing for Beams & Slab	8	07-Jul-2020	14-Jul-2020	0	30											
330	LG.2.M.STR200	RCC work in Beams & Slab	2	15-Jul-2020	16-Jul-2020	0	30											
331	<b>Architectural/Finishes work</b>		66	31-Jul-2020	04-Oct-2020	0	61											
332	LG.2.M.A/F100	Sand filling under floors	3	31-Jul-2020	02-Aug-2020	0	30											
333	LG.2.M.A/F110	Solid Block masonry in walls	21	03-Aug-2020	23-Aug-2020	0	30											
334	LG.2.M.A/F120	Cement sand plaster	18	03-Sep-2020	20-Sep-2020	0	30											
335	LG.2.M.A/F130	Rough flooring	5	24-Aug-2020	28-Aug-2020	98	98											
336	LG.2.M.A/F140	Paints work	14	21-Sep-2020	04-Oct-2020	0	61											
337	LG.2.M.A/F150	Wooden doors & Aluminium works	9	26-Sep-2020	04-Oct-2020	0	61											
338	LG.2.M.A/F160	Tile work on floors & walls	7	28-Sep-2020	04-Oct-2020	61	61											
339	LG.2.M.A/F170	Roof treatment & drainage	5	21-Sep-2020	25-Sep-2020	70	70											
340	LG.2.M.A/F180	Courtyard Gate	1	24-Aug-2020	24-Aug-2020	102	102											
341	LG.2.M.A/F190	Khuprail tiles on roof	7	21-Sep-2020	27-Sep-2020	68	68											
342	<b>Public Health work</b>		19	24-Aug-2020	11-Sep-2020	0	84											
343	LG.2.M.PH100	Installation of WSupply fixtures & fitouts	10	24-Aug-2020	02-Sep-2020	0	84											
344	LG.2.M.PH110	Installation of PHealth Utilities & drainage	8	03-Sep-2020	10-Sep-2020	0	84											
345	LG.2.M.PH120	RCC sewer pipe & manhole	5	06-Sep-2020	10-Sep-2020	0	84											
346	LG.2.M.PH130	PHealth & W Supply testing	1	11-Sep-2020	11-Sep-2020	84	84											
347	<b>Internal Electrification</b>		48	24-Aug-2020	10-Oct-2020	0	30											
348	LG.2.M.EL100	Electrical Conduit & Back boxes fixing	10	24-Aug-2020	02-Sep-2020	0	30											
349	LG.2.M.EL110	Cable pulling & Connections	8	21-Sep-2020	28-Sep-2020	0	30											
350	LG.2.M.EL120	Distribution Boards & Fitouts	6	29-Sep-2020	04-Oct-2020	0	30											
351	LG.2.M.EL130	Installation of Electrical Utilities	5	05-Oct-2020	09-Oct-2020	0	30											
352	LG.2.M.EL140	Electric system testing	1	10-Oct-2020	10-Oct-2020	0	30											
353	<b>External Water Supply &amp; Sewerage</b>		82	18-Jun-2020	07-Sep-2020	0	63											
354	<b>Water Supply</b>		52	18-Jul-2020	07-Sep-2020	0	63											
355	LG.2.WS100	Laying & Jointing WSupply Pipeline	11	18-Jul-2020	28-Jul-2020	0	63											
356	LG.2.WS110	Air vent chambers & Valves	3	29-Jul-2020	31-Jul-2020	32	95											
357	LG.2.WS120	Construction of Sedimentation tank	10	29-Jul-2020	07-Aug-2020	0	63											
358	LG.2.WS130	Construction of Clear water tank	10	09-Aug-2020	18-Aug-2020	0	63											
359	LG.2.WS140	Check Valves,Sluice Valves & Chambers	8	29-Jul-2020	05-Aug-2020	27	90											
360	LG.2.WS150	Pressure Break tank	14	19-Aug-2020	01-Sep-2020	0	63											
361	LG.2.WS160	Water Supply Road Crossing	4	29-Jul-2020	01-Aug-2020	31	94											
362	LG.2.WS170	Ancillary work	5	02-Sep-2020	06-Sep-2020	0	63											
363	LG.2.WS180	Water supply testing	1	07-Sep-2020	07-Sep-2020	33	63											
364	<b>Sewerage System</b>		52	18-Jun-2020	08-Aug-2020	0	93											

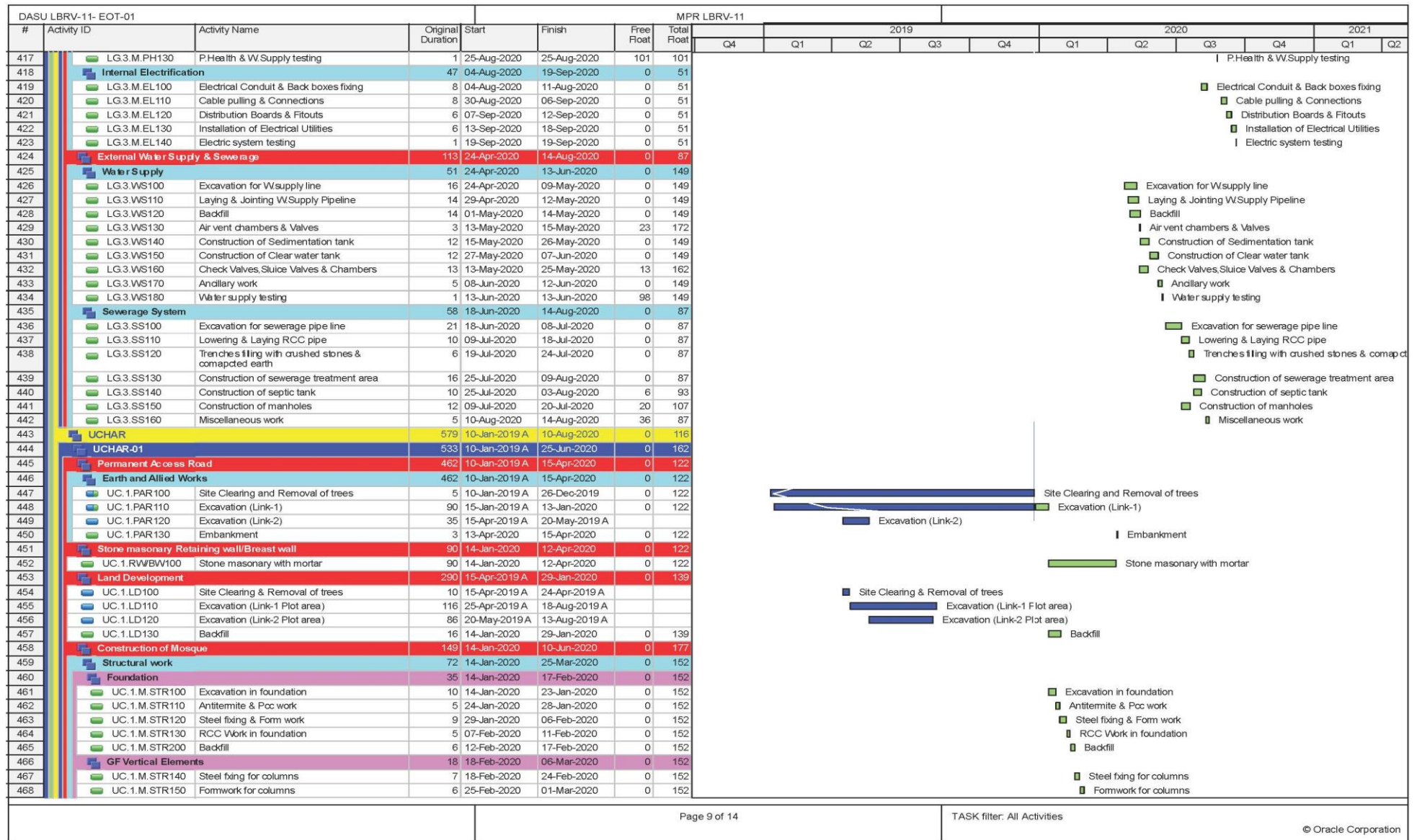
**Gantt Chart of Dasu-LBRV-11 (7 of 14)**

**Figure 20 [8/14]**

DASU LBRV-11- EOT-01		MPR LBRV-11																	
#	Activity ID	Activity Name	Original Duration	Start	Finish	Free Float	Total Float	2019				2020				2021			
								Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
365	LG.2.SS100	Excavation for sewerage pipe line	17	18-Jun-2020	04-Jul-2020	0	93												
366	LG.2.SS110	Lowering & Laying RCC pipe	8	01-Jul-2020	08-Jul-2020	0	93												
367	LG.2.SS120	Trenches filling with crushed stones & compacted earth	8	03-Jul-2020	10-Jul-2020	0	93												
368	LG.2.SS130	Construction of sewerage treatment area	24	11-Jul-2020	03-Aug-2020	0	93												
369	LG.2.SS140	Construction of septic tanks	11	05-Jul-2020	15-Jul-2020	19	112												
370	LG.2.SS150	Construction of manholes	8	01-Jul-2020	08-Jul-2020	26	119												
371	LG.2.SS160	Miscellaneous work	5	04-Aug-2020	08-Aug-2020	63	93												
372	LOGRO-03		269	26-Dec-2019	19-Sep-2020	0	76												
373	<b>Permanent Access Road</b>		189	26-Dec-2019	01-Jul-2020	0	80												
374	<b>Earth and Allied Works</b>		189	26-Dec-2019	01-Jul-2020	0	80												
375	LG.3.PAR100	Site Clearing and Removal of trees	10	26-Dec-2019	04-Jan-2020	0	51												
376	LG.3.PAR110	Excavation (Km0+000-Km0+300)	50	31-Dec-2019	18-Feb-2020	0	51												
377	LG.3.PAR120	Excavation (Km0+300-Km0+698)	65	19-Feb-2020	23-Apr-2020	0	149												
378	LG.3.PAR130	Embankment	9	23-Jun-2020	01-Jul-2020	0	57												
379	<b>Stone masonry Retaining wall/Breast wall</b>		125	19-Feb-2020	22-Jun-2020	0	57												
380	LG.3.RV/BW100	Stone masonry with mortar	125	19-Feb-2020	22-Jun-2020	0	57												
381	<b>Land Development</b>		123	19-Feb-2020	20-Jun-2020	0	125												
382	LG.3.LD100	Site Clearing & Removal of trees	5	19-Feb-2020	23-Feb-2020	0	51												
383	LG.3.LD110	Excavation (Km0+300-Km0+400) Plot Area	55	24-Feb-2020	18-Apr-2020	0	51												
384	LG.3.LD120	Excavation (Km0+600-Km0+700) Plot Area	60	19-Apr-2020	17-Jun-2020	0	87												
385	LG.3.LD130	Backfill	3	18-Jun-2020	20-Jun-2020	68	125												
386	<b>Construction of Mosque</b>		154	19-Apr-2020	19-Sep-2020	0	76												
387	<b>Structural work</b>		74	19-Apr-2020	01-Jul-2020	0	51												
388	<b>Foundation</b>		31	19-Apr-2020	19-May-2020	0	51												
389	LG.3.M.STR100	Excavation in foundation	10	19-Apr-2020	28-Apr-2020	0	51												
390	LG.3.M.STR110	Antitermite & Pcc work	5	25-Apr-2020	29-Apr-2020	0	51												
391	LG.3.M.STR120	Steel fixing & Form work	9	30-Apr-2020	08-May-2020	0	51												
392	LG.3.M.STR130	RCC Work in foundation	5	09-May-2020	13-May-2020	0	51												
393	LG.3.M.STR200	Backfill	6	14-May-2020	19-May-2020	0	51												
394	<b>GF Vertical Elements</b>		12	20-May-2020	31-May-2020	0	51												
395	LG.3.M.STR140	Steel fixing for columns	7	20-May-2020	26-May-2020	0	51												
396	LG.3.M.STR150	Formwork for columns	6	21-May-2020	26-May-2020	0	51												
397	LG.3.M.STR160	RCC work in Columns	5	27-May-2020	31-May-2020	0	51												
398	<b>GF Horizontal Elements</b>		23	09-Jun-2020	01-Jul-2020	0	51												
399	LG.3.M.STR170	Formwork for Beams & Slab	11	09-Jun-2020	19-Jun-2020	0	51												
400	LG.3.M.STR180	Steel fixing for Beams & Slab	9	20-Jun-2020	28-Jun-2020	0	51												
401	LG.3.M.STR190	RCC work in Beams & Slab	3	29-Jun-2020	01-Jul-2020	0	51												
402	<b>Architectural/Finishes work</b>		64	11-Jul-2020	12-Sep-2020	0	83												
403	LG.3.M.A/F100	Sand filling under floors	3	11-Jul-2020	13-Jul-2020	0	51												
404	LG.3.M.A/F110	Solid Block masonry in walls	21	14-Jul-2020	03-Aug-2020	0	51												
405	LG.3.M.A/F120	Cement sand plaster	18	12-Aug-2020	29-Aug-2020	0	51												
406	LG.3.M.A/F130	Rough flooring	5	04-Aug-2020	08-Aug-2020	118	118												
407	LG.3.M.A/F140	Paints work	14	30-Aug-2020	12-Sep-2020	0	83												
408	LG.3.M.A/F150	Wooden doors & Aluminium works	9	04-Sep-2020	12-Sep-2020	0	83												
409	LG.3.M.A/F160	Tile work on floors & walls	8	05-Sep-2020	12-Sep-2020	83	83												
410	LG.3.M.A/F170	Khuprail tiles on roof	7	30-Aug-2020	05-Sep-2020	90	90												
411	LG.3.M.A/F180	Roof treatment & drainage	5	30-Aug-2020	03-Sep-2020	92	92												
412	LG.3.M.A/F190	Courtyard Gate	1	04-Aug-2020	04-Aug-2020	122	122												
413	<b>Public Health work</b>		22	04-Aug-2020	25-Aug-2020	0	101												
414	LG.3.M.PH100	Installation of WSupply fixtures & fitouts	14	04-Aug-2020	17-Aug-2020	0	101												
415	LG.3.M.PH110	Installation of P Health Utilities & drainage	7	18-Aug-2020	24-Aug-2020	0	101												
416	LG.3.M.PH120	RCC sewer pipe & manhole	5	20-Aug-2020	24-Aug-2020	0	101												

**Gantt Chart of Dasu-LBRV-11 (8 of 14)**

Figure 20 [9/14]



Gantt Chart of Dasu-LBRV-11 (9 of 14)

**Figure 20 [10/14]**

DASU LBRV-11- EOT-01		MPR LBRV-11																	
#	Activity ID	Activity Name	Original Duration	Start	Finish	Free Float	Total Float	2019				2020				2021			
								Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
469	UC.1.M.STR160	RCC work in Columns	5	02-Mar-2020	06-Mar-2020	0	152												
470	GF Horizontal Elements		19	07-Mar-2020	25-Mar-2020	0	152												
471	UC.1.M.STR170	Formwork for Beams & Slab	9	07-Mar-2020	15-Mar-2020	0	152												
472	UC.1.M.STR180	Steel fixing for Beams & Slab	7	16-Mar-2020	22-Mar-2020	0	152												
473	UC.1.M.STR190	RCC work in Beams & Columns	3	23-Mar-2020	25-Mar-2020	0	152												
474	Architectural/Finishes work		64	06-Apr-2020	08-Jun-2020	0	179												
475	UC.1.M.A/F100	Sand filling under floors	3	08-Apr-2020	08-Apr-2020	0	152												
476	UC.1.M.A/F110	Solid Block masonry in walls	21	09-Apr-2020	29-Apr-2020	0	152												
477	UC.1.M.A/F120	Rough flooring	5	30-Apr-2020	04-May-2020	214	214												
478	UC.1.M.A/F130	Cement sand plaster	18	08-May-2020	25-May-2020	0	152												
479	UC.1.M.A/F140	Paints work	14	26-May-2020	08-Jun-2020	0	179												
480	UC.1.M.A/F150	Wooden doors & Aluminium works	9	31-May-2020	08-Jun-2020	0	179												
481	UC.1.M.A/F160	Tile work on floors & walls	8	01-Jun-2020	08-Jun-2020	179	179												
482	UC.1.M.A/F170	Roof treatment & drainage	7	26-May-2020	01-Jun-2020	186	186												
483	UC.1.M.A/F180	Courtyard Gate	1	30-Apr-2020	30-Apr-2020	218	218												
484	UC.1.M.A/F190	Khuprail tiles on roof	7	26-May-2020	01-Jun-2020	186	186												
485	Public Health work		22	30-Apr-2020	21-May-2020	0	197												
486	UC.1.M.PH100	Installation of W.Supply fixtures & fitouts	14	30-Apr-2020	13-May-2020	0	197												
487	UC.1.M.PH110	Installation of P.Health Utilities & drainage	7	14-May-2020	20-May-2020	0	197												
488	UC.1.M.PH120	RCC sewer pipe & manhole	5	16-May-2020	20-May-2020	0	197												
489	UC.1.M.PH130	P.Health & W.Supply testing	1	21-May-2020	21-May-2020	197	197												
490	Internal Electrification		42	30-Apr-2020	10-Jun-2020	0	152												
491	UC.1.M.EL100	Electrical Conduit & Back boxes fixing	8	30-Apr-2020	07-May-2020	0	152												
492	UC.1.M.EL110	Cable pulling & Connections	6	26-May-2020	31-May-2020	0	152												
493	UC.1.M.EL120	Distribution Boards & Fitouts	6	01-Jun-2020	06-Jun-2020	0	152												
494	UC.1.M.EL130	Installation of Electrical Utilities	5	05-Jun-2020	09-Jun-2020	0	152												
495	UC.1.M.EL140	Electric system testing	1	10-Jun-2020	10-Jun-2020	30	152												
496	Construction of High School		164	14-Jan-2020	25-Jun-2020	0	162												
497	Structural work		85	14-Jan-2020	07-Apr-2020	0	137												
498	Foundation		34	14-Jan-2020	16-Feb-2020	0	137												
499	UC.1.HS.STR100	Excavation in foundation	14	14-Jan-2020	27-Jan-2020	0	137												
500	UC.1.HS.STR110	Antitermite & Pcc work	10	21-Jan-2020	30-Jan-2020	0	137												
501	UC.1.HS.STR120	Steel fixing & Form work	9	31-Jan-2020	08-Feb-2020	0	137												
502	UC.1.HS.STR130	RCC Work	3	09-Feb-2020	11-Feb-2020	0	137												
503	UC.1.HS.STR140	Backfill	5	12-Feb-2020	16-Feb-2020	0	137												
504	GF Vertical Elements		19	17-Feb-2020	06-Mar-2020	0	137												
505	UC.1.HS.STR150	Steel fixing for columns	10	17-Feb-2020	26-Feb-2020	0	137												
506	UC.1.HS.STR160	Formwork for columns	7	27-Feb-2020	04-Mar-2020	0	137												
507	UC.1.HS.STR170	RCC work in Columns	2	05-Mar-2020	06-Mar-2020	0	137												
508	GF Horizontal Elements		32	07-Mar-2020	07-Apr-2020	0	137												
509	UC.1.HS.STR180	Formwork for Beams & Slab	16	07-Mar-2020	22-Mar-2020	0	137												
510	UC.1.HS.STR190	Steel fixing for Beams & Slab	14	23-Mar-2020	05-Apr-2020	0	137												
511	UC.1.HS.STR200	RCC work in Beams & Slab	2	06-Apr-2020	07-Apr-2020	0	137												
512	Architectural/Finishes work		69	08-Apr-2020	15-Jun-2020	0	172												
513	UC.1.HS.A/F100	Sand filling under floors	3	08-Apr-2020	10-Apr-2020	0	137												
514	UC.1.HS.A/F110	Block masonry in walls	22	11-Apr-2020	02-May-2020	0	137												
515	UC.1.HS.A/F120	Cement sand plaster	19	12-May-2020	30-May-2020	0	137												
516	UC.1.HS.A/F130	Rough flooring	4	03-May-2020	06-May-2020	212	212												
517	UC.1.HS.A/F140	Paints work	16	31-May-2020	15-Jun-2020	0	172												
518	UC.1.HS.A/F150	Wooden doors & Aluminium works	9	07-Jun-2020	15-Jun-2020	0	172												
519	UC.1.HS.A/F160	Tile work on floors & walls	8	08-Jun-2020	15-Jun-2020	172	172												
520	UC.1.HS.A/F170	Main entrance Gate	1	03-May-2020	03-May-2020	215	215												
521	UC.1.HS.A/F180	Khuprail tiles on roof	7	31-May-2020	06-Jun-2020	181	181												

- █ RCC work in Columns
- █ Formwork for Beams & Slab
- █ Steel fixing for Beams & Slab
- █ RCC work in Beams & Columns
- █ Sand filling under floors
- █ Solid Block masonry in walls
- █ Rough flooring
- █ Cement sand plaster
- █ Paints work
- █ Wooden doors & Aluminium works
- █ Tiles work on floors & walls
- █ Roof treatment & drainage
- █ Courtyard Gate
- █ Khuprail tiles on roof
- █ Installation of W.Supply fixtures & fitouts
- █ Installation of P.Health Utilities & drainage
- █ RCC sewer pipe & manhole
- █ P.Health & W.Supply testing
- █ Electrical Conduit & Back boxes fixing
- █ Cable pulling & Connections
- █ Distribution Boards & Fitouts
- █ Installation of Electrical Utilities
- █ Electric system testing
- █ Excavation in foundation
- █ Antitermite & Pcc work
- █ Steel fixing & Form work
- █ RCC Work
- █ Backfill
- █ Steel fixing for columns
- █ Formwork for columns
- █ RCC work in Columns
- █ Formwork for Beams & Slab
- █ Steel fixing for Beams & Slab
- █ RCC work in Beams & Slab
- █ Sand filling under floors
- █ Block masonry in walls
- █ Cement sand plaster
- █ Rough flooring
- █ Paints work
- █ Wooden doors & Aluminium works
- █ Tiles work on floors & walls
- █ Main entrance Gate
- █ Khuprail tiles on roof

**Gantt Chart of Dasu-LBRV-11 (10 of 14)**

**Figure 20 [11/14]**

DASU LBRV-11- EOT-01		MPR LBRV-11																
#	Activity ID	Activity Name	Original Duration	Start	Finish	Free Float	Total Float	2019				2020				2021		
								Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
522	Public Health work		23	03-May-2020	25-May-2020	0	193											
523	UC. 1.HS.PH100	Installation of WSupply fixtures & fitouts	10	03-May-2020	12-May-2020	0	193											
524	UC. 1.HS.PH110	Installation of P.Health Utilities & drainage	8	13-May-2020	20-May-2020	0	193											
525	UC. 1.HS.PH120	RCC sewer pipe & manhole	5	16-May-2020	20-May-2020	0	193											
526	UC. 1.HS.PH130	P.Health & W.Supply testing	1	25-May-2020	25-May-2020	193	193											
527	Internal Electrification		54	03-May-2020	25-Jun-2020	0	137											
528	UC. 1.HS.EL100	Electrical Conduit & Back boxes fixing	9	03-May-2020	11-May-2020	0	137											
529	UC. 1.HS.EL110	Cable pulling & Connections	7	31-May-2020	06-Jun-2020	0	137											
530	UC. 1.HS.EL120	Distribution Boards & Fitouts	6	14-Jun-2020	19-Jun-2020	0	137											
531	UC. 1.HS.EL130	Installation of Electrical Utilities	5	20-Jun-2020	24-Jun-2020	0	137											
532	UC. 1.HS.EL140	Electric system testing	1	25-Jun-2020	25-Jun-2020	15	137											
533	Construction of Police Post		146	30-Jan-2020	23-Jun-2020	0	164											
534	UC. 1.PP.LD.100	Land development/creating slopes & lawns	15	30-Jan-2020	13-Feb-2020	0	139											
535	Structural work		86	30-Jan-2020	24-Apr-2020	0	139											
536	Foundation		17	30-Jan-2020	15-Feb-2020	0	139											
537	UC. 1.PP.STR100	Excavation in foundation	3	30-Jan-2020	01-Feb-2020	0	139											
538	UC. 1.PP.STR110	Anittemite & Pcc work	2	02-Feb-2020	03-Feb-2020	0	139											
539	UC. 1.PP.STR120	Steel fixing & Form work	6	04-Feb-2020	09-Feb-2020	0	139											
540	UC. 1.PP.STR130	RCC Work	1	10-Feb-2020	10-Feb-2020	0	139											
541	UC. 1.PP.STR140	Backfill	5	11-Feb-2020	15-Feb-2020	0	139											
542	GF Vertical Elements		13	16-Feb-2020	28-Feb-2020	0	139											
543	UC. 1.PP.STR150	Steel fixing for columns	6	16-Feb-2020	21-Feb-2020	0	139											
544	UC. 1.PP.STR160	Formwork for columns	5	22-Feb-2020	26-Feb-2020	0	139											
545	UC. 1.PP.STR170	RCC work in Columns	2	27-Feb-2020	28-Feb-2020	0	139											
546	GF Horizontal Elements		15	29-Feb-2020	14-Mar-2020	0	139											
547	UC. 1.PP.STR180	Formwork for Beams & Slab	8	29-Feb-2020	07-Mar-2020	0	139											
548	UC. 1.PP.STR190	Steel fixing for Beams & Slab	6	08-Mar-2020	13-Mar-2020	0	139											
549	UC. 1.PP.STR200	RCC work in Beams & Slab	1	14-Mar-2020	14-Mar-2020	0	139											
550	FF Vertical Elements		14	25-Mar-2020	07-Apr-2020	0	139											
551	UC. 1.PP.STR210	Steel fixing for columns	7	25-Mar-2020	31-Mar-2020	0	139											
552	UC. 1.PP.STR220	Formwork for columns	5	01-Apr-2020	05-Apr-2020	0	139											
553	UC. 1.PP.STR230	RCC work in Columns	2	06-Apr-2020	07-Apr-2020	0	139											
554	FF Horizontal Elements		17	08-Apr-2020	24-Apr-2020	0	139											
555	UC. 1.PP.STR240	Formwork for Beams & Slab	9	08-Apr-2020	16-Apr-2020	0	139											
556	UC. 1.PP.STR250	Steel fixing for Beams & Slab	7	17-Apr-2020	23-Apr-2020	0	139											
557	UC. 1.PP.STR260	RCC work in Beams & Slab	1	24-Apr-2020	24-Apr-2020	0	139											
558	Architectural/Finishes work		48	05-May-2020	21-Jun-2020	0	166											
559	UC. 1.PP.A/F100	Block masonry in walls	14	05-May-2020	18-May-2020	0	139											
560	UC. 1.PP.A/F110	Cement sand plaster	12	29-May-2020	09-Jun-2020	0	139											
561	UC. 1.PP.A/F120	Doors, windows & ventilators	8	10-Jun-2020	17-Jun-2020	170	170											
562	UC. 1.PP.A/F130	Paint work	10	10-Jun-2020	19-Jun-2020	0	166											
563	UC. 1.PP.A/F140	Tileswork on floors & walls	8	12-Jun-2020	19-Jun-2020	0	166											
564	UC. 1.PP.A/F150	Khuprail tiles on slant roof	7	10-Jun-2020	16-Jun-2020	171	171											
565	UC. 1.PP.A/F160	Miscellaneous Works	2	20-Jun-2020	21-Jun-2020	166	166											
566	Public Health work		18	19-May-2020	05-Jun-2020	0	182											
567	UC. 1.PP.PH100	Installation of WSupply fixtures & fitouts	11	19-May-2020	29-May-2020	0	182											
568	UC. 1.PP.PH110	Installation of P.Health Utilities & drainage	6	30-May-2020	04-Jun-2020	0	182											
569	UC. 1.PP.PH120	RCC sewer pipe & manhole	5	31-May-2020	04-Jun-2020	0	182											
570	UC. 1.PP.PH130	P.Health & W.Supply testing	1	05-Jun-2020	05-Jun-2020	182	182											
571	Internal Electrification		36	19-May-2020	23-Jun-2020	0	139											
572	UC. 1.PP.EL.100	Electrical Conduit & Back boxes fixing	10	19-May-2020	28-May-2020	0	139											
573	UC. 1.PP.EL.110	Cable pulling & Connections	7	10-Jun-2020	16-Jun-2020	0	139											
574	UC. 1.PP.EL.120	Distribution Boards & Fitouts	6	17-Jun-2020	22-Jun-2020	0	139											

**Gantt Chart of Dasu-LBRV-11 (11 of 14)**



Figure 20 [12/14]

DASU LBRV-11- EOT-01		MPR LBRV-11																
#	Activity ID	Activity Name	Original Duration	Start	Finish	Free Float	Total Float	2019				2020				2021		
								Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
575	UC.1.PP.EL.130	Installation of Electrical Utilities	5	18-Jun-2020	22-Jun-2020	0	139											
576	UC.1.PP.EL.140	Electric system testing	1	23-Jun-2020	23-Jun-2020	17	139											
577	<b>External Water Supply &amp; Sewerage</b>		72	30-Jan-2020	10-Apr-2020	0	238											
578	<b>Water Supply</b>		48	30-Jan-2020	17-Mar-2020	0	262											
579	UC.1.WS100	Excavation for Wsupply line	12	30-Jan-2020	10-Feb-2020	0	237											
580	UC.1.WS110	Laying & Jointing WSupply Pipeline	16	05-Feb-2020	20-Feb-2020	0	237											
581	UC.1.WS120	Backfill	17	09-Feb-2020	25-Feb-2020	283	283											
582	UC.1.WS130	Air vent chambers & Valves	3	05-Feb-2020	07-Feb-2020	33	270											
583	UC.1.WS140	Check Valves,Sluice Valves & Chambers	14	05-Feb-2020	18-Feb-2020	22	259											
584	UC.1.WS150	Construction of Sedimentation tank	12	05-Feb-2020	16-Feb-2020	0	237											
585	UC.1.WS160	Construction of Clear water tank	12	17-Feb-2020	28-Feb-2020	0	237											
586	UC.1.WS170	Pressure Break tank	12	29-Feb-2020	11-Mar-2020	0	237											
587	UC.1.WS180	Road & Nullah crossing	6	11-Feb-2020	16-Feb-2020	24	261											
588	UC.1.WS190	Ancillary work	5	12-Mar-2020	16-Mar-2020	0	237											
589	UC.1.WS200	Water supply testing	1	17-Mar-2020	17-Mar-2020	115	237											
590	<b>Sewerage System</b>		47	24-Feb-2020	10-Apr-2020	0	238											
591	UC.1.SS100	Excavation for sewerage pipe line	21	24-Feb-2020	15-Mar-2020	0	213											
592	UC.1.SS110	Lowering & Laying RCC pipe	12	07-Mar-2020	18-Mar-2020	0	213											
593	UC.1.SS120	Trenches filling with crushed stones & compacted earth	12	11-Mar-2020	22-Mar-2020	0	213											
594	UC.1.SS130	Construction of sewerage treatment area	17	16-Mar-2020	01-Apr-2020	247	247											
595	UC.1.SS140	Construction of septic tank	14	23-Mar-2020	05-Apr-2020	0	213											
596	UC.1.SS150	Construction of manholes	13	07-Mar-2020	19-Mar-2020	17	230											
597	UC.1.SS160	Miscellaneous work	5	06-Apr-2020	10-Apr-2020	91	213											
598	<b>UCHAR-02</b>		229	26-Dec-2019	10-Aug-2020	0	116											
599	<b>Permanent Access Road</b>		99	26-Dec-2019	02-Apr-2020	0	96											
600	<b>Earth and Allied Works</b>		99	26-Dec-2019	02-Apr-2020	0	96											
601	UC.2.PAR100	Site Clearing and Removal of trees	5	26-Dec-2019	30-Dec-2019	0	91											
602	UC.2.PAR110	Excavation	40	29-Dec-2019	06-Feb-2020	0	91											
603	UC.2.PAR120	Embankment	6	28-Mar-2020	02-Apr-2020	0	96											
604	<b>Stone masonry Retaining wall/Breast wall</b>		50	07-Feb-2020	27-Mar-2020	0	96											
605	UC.2.RV/BW100	Stone masonry with mortar	50	07-Feb-2020	27-Mar-2020	0	96											
606	<b>Land Development</b>		36	07-Feb-2020	13-Mar-2020	0	91											
607	UC.2.LD100	Site Clearing & Removal of trees	5	07-Feb-2020	11-Feb-2020	0	91											
608	UC.2.LD110	Excavation	30	10-Feb-2020	10-Mar-2020	0	91											
609	UC.2.LD120	Backfill	3	11-Mar-2020	13-Mar-2020	0	91											
610	<b>Construction of Mosque</b>		150	14-Mar-2020	10-Aug-2020	0	116											
611	<b>Structural work</b>		72	14-Mar-2020	24-May-2020	0	91											
612	<b>Foundation</b>		35	14-Mar-2020	17-Apr-2020	0	91											
613	UC.2.M.STR100	Excavation in foundation	10	14-Mar-2020	23-Mar-2020	0	91											
614	UC.2.M.STR110	Antitermite & Pcc work	5	24-Mar-2020	28-Mar-2020	0	91											
615	UC.2.M.STR120	Steel fixing & Form work	9	29-Mar-2020	06-Apr-2020	0	91											
616	UC.2.M.STR130	RCC Work in foundation	5	07-Apr-2020	11-Apr-2020	0	91											
617	UC.2.M.STR200	Backfill	6	12-Apr-2020	17-Apr-2020	0	91											
618	<b>GF Vertical Elements</b>		18	18-Apr-2020	05-May-2020	0	91											
619	UC.2.M.STR140	Steel fixing for columns	7	18-Apr-2020	24-Apr-2020	0	91											
620	UC.2.M.STR150	Formwork for columns	6	25-Apr-2020	30-Apr-2020	0	91											
621	UC.2.M.STR160	RCC work in Columns	5	01-May-2020	05-May-2020	0	91											
622	<b>GF Horizontal Elements</b>		19	06-May-2020	24-May-2020	0	91											
623	UC.2.M.STR170	Formwork for Beams & Slab	9	06-May-2020	14-May-2020	0	91											
624	UC.2.M.STR180	Steel fixing for Beams & Slab	7	15-May-2020	21-May-2020	0	91											
625	UC.2.M.STR190	RCC work in Beams & Columns	3	22-May-2020	24-May-2020	0	91											
626	<b>Architectural/Finishes work</b>		64	04-Jun-2020	06-Aug-2020	0	120											

- Installation of Electrical Utilities
- Electric system testing
- Excavation for Wsupply line
- Laying & Jointing WSupply Pipeline
- Backfill
- Air vent chambers & Valves
- Check Valves,Sluice Valves & Chambers
- Construction of Sedimentation tank
- Construction of Clear water tank
- Pressure Break tank
- Road & Nullah crossing
- Ancillary work
- Water supply testing
- Excavation for sewerage pipe line
- Lowering & Laying RCC pipe
- Trenches filling with crushed stones & compacted earth
- Construction of sewerage treatment area
- Construction of septic tank
- Construction of manholes
- Miscellaneous work
- Site Clearing and Removal of trees
- Excavation
- Embankment
- Stone masonry with mortar
- Site Clearing & Removal of trees
- Excavation
- Backfill
- Excavation in foundation
- Antitermite & Pcc work
- Steel fixing & Form work
- RCC Work in foundation
- Backfill
- Steel fixing for columns
- Formwork for columns
- RCC work in Columns
- Formwork for Beams & Slab
- Steel fixing for Beams & Slab
- RCC work in Beams & Columns

Gantt Chart of Dasu-LBRV-11 (12 of 14)

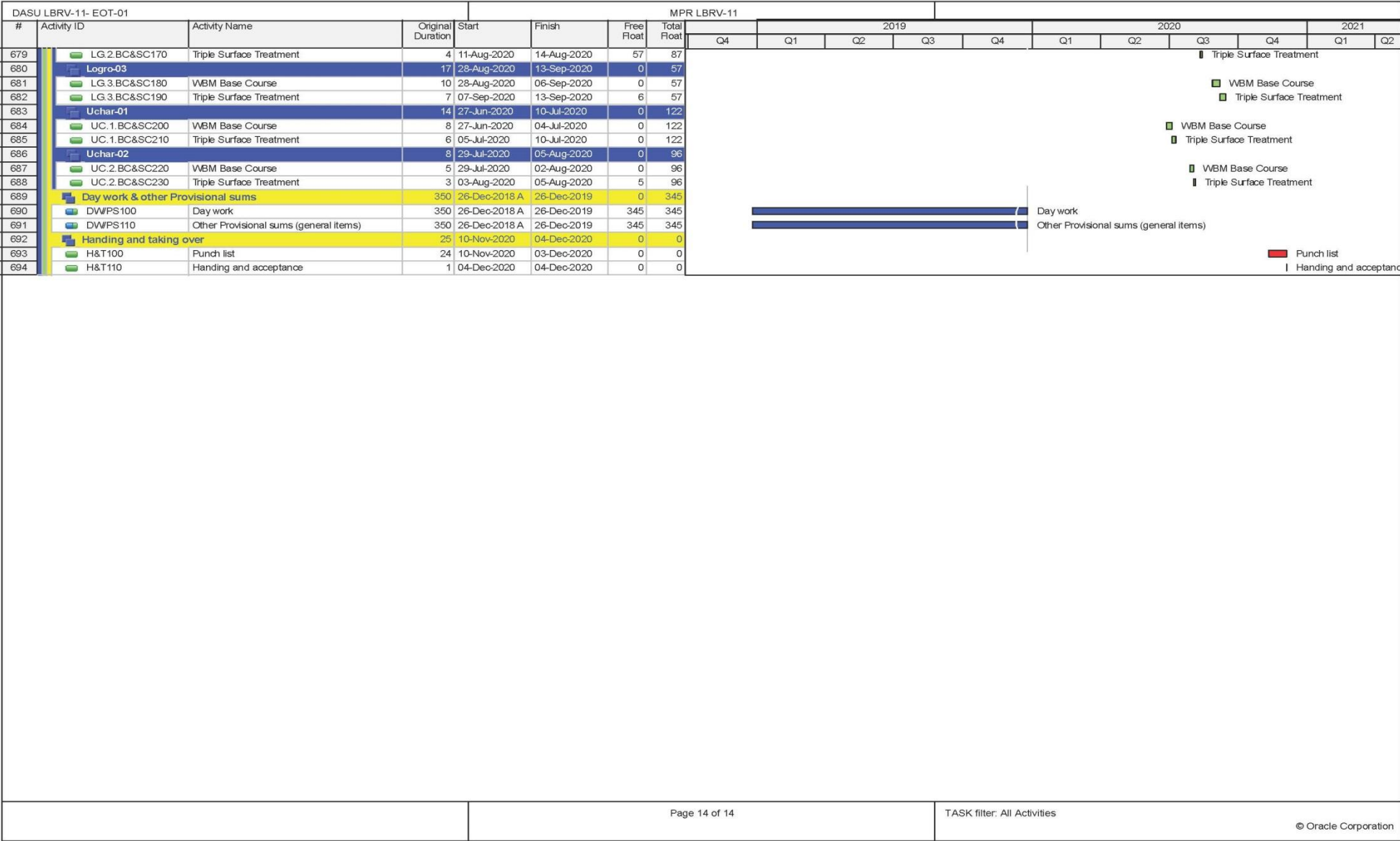
Figure 20 [13/14]

DASU LBRV-11- EOT-01							MPR LBRV-11												
#	Activity ID	Activity Name	Original Duration	Start	Finish	Free Float	Total Float	2019				2020				2021			
								Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
627	UC.2.M.A/F100	Sand filling under floors	3	04-Jun-2020	06-Jun-2020	0	91												
628	UC.2.M.A/F110	Solid Block masonry in walls	21	07-Jul-2020	27-Jun-2020	0	91												
629	UC.2.M.A/F120	Cement sand plaster	18	06-Jul-2020	23-Jul-2020	0	91												
630	UC.2.M.A/F130	Paints work	14	24-Jul-2020	06-Aug-2020	0	120												
631	UC.2.M.A/F140	Wooden doors & Aluminium works	11	27-Jul-2020	06-Aug-2020	0	120												
632	UC.2.M.A/F150	Tileswork on floors & walls	9	29-Jul-2020	06-Aug-2020	120	120												
633	UC.2.M.A/F160	Roof treatment & drainage	7	24-Jul-2020	30-Jul-2020	127	127												
634	UC.2.M.A/F170	Rough flooring	5	28-Jun-2020	02-Jul-2020	155	155												
635	UC.2.M.A/F180	Courtyard Gate	1	28-Jun-2020	28-Jun-2020	159	159												
636	UC.2.M.A/F190	Khuprail tiles on roof	7	24-Jul-2020	30-Jul-2020	127	127												
637	Public Health work		27	28-Jun-2020	24-Jul-2020	0	133												
638	UC.2.M.PH100	Installation of WSupply fixtures & fitouts	11	28-Jun-2020	09-Jul-2020	0	133												
639	UC.2.M.PH110	Installation of P Health Utilities & drainage	7	09-Jul-2020	15-Jul-2020	0	133												
640	UC.2.M.PH120	RCC sewer pipe & manhole	5	11-Jul-2020	15-Jul-2020	0	133												
641	UC.2.M.PH130	P Health & W Supply testing	1	24-Jul-2020	24-Jul-2020	133	133												
642	Internal Electrification		44	28-Jun-2020	10-Aug-2020	0	91												
643	UC.2.M.EL100	Electrical Conduit & Back boxes fixing	8	28-Jun-2020	05-Jul-2020	0	91												
644	UC.2.M.EL110	Cable pulling & Connections	6	24-Jul-2020	29-Jul-2020	0	91												
645	UC.2.M.EL120	Distribution Boards & Fitouts	6	30-Jul-2020	04-Aug-2020	0	91												
646	UC.2.M.EL130	Installation of Electrical Utilities	5	05-Aug-2020	09-Aug-2020	0	91												
647	UC.2.M.EL140	Electric system testing	1	10-Aug-2020	10-Aug-2020	0	91												
648	External Water Supply & Sewerage		72	03-Apr-2020	13-Jun-2020	0	149												
649	Water Supply		62	03-Apr-2020	03-Jun-2020	0	159												
650	UC.2.WS100	Excavation for Wsupply line	16	03-Apr-2020	18-Apr-2020	0	159												
651	UC.2.WS110	Laying & Jointing WSupply Pipeline	14	19-Apr-2020	02-May-2020	0	159												
652	UC.2.WS120	Backfill	14	21-Apr-2020	04-May-2020	0	159												
653	UC.2.WS130	Air vent chambers & Valves	3	19-Apr-2020	21-Apr-2020	37	196												
654	UC.2.WS140	Check Valves, Sluice Valves & Chambers	13	19-Apr-2020	01-May-2020	27	186												
655	UC.2.WS150	Construction of Sedimentation tank	12	05-May-2020	16-May-2020	0	159												
656	UC.2.WS160	Construction of Clear water tank	12	17-May-2020	28-May-2020	0	159												
657	UC.2.WS170	Ancillary work	5	29-May-2020	02-Jun-2020	0	159												
658	UC.2.WS180	Water supply testing	1	03-Jun-2020	03-Jun-2020	68	159												
659	Sewerage System		72	03-Apr-2020	13-Jun-2020	0	149												
660	UC.2.SS100	Excavation for sewerage pipe line	21	03-Apr-2020	23-Apr-2020	0	149												
661	UC.2.SS110	Lowering & Laying RCC pipe	10	24-Apr-2020	03-May-2020	0	149												
662	UC.2.SS120	Trenches filling with crushed stones & compacted earth	6	04-May-2020	09-May-2020	0	149												
663	UC.2.SS130	Construction of sewerage treatment area	16	10-May-2020	25-May-2020	0	149												
664	UC.2.SS140	Construction of septic tank	14	26-May-2020	08-Jun-2020	0	149												
665	UC.2.SS150	Construction of manholes	8	04-May-2020	11-May-2020	28	177												
666	UC.2.SS160	Miscellaneous work	5	09-Jun-2020	13-Jun-2020	58	149												
667	Base Course & Surface Course		96	14-Jun-2020	17-Sep-2020	0	53												
668	Khoshe-01		20	14-Jun-2020	03-Jul-2020	0	129												
669	KH.1.BC&SC100	WBM Base Course	12	14-Jun-2020	25-Jun-2020	0	129												
670	KH.1.BC&SC110	Triple Surface Treatment	8	26-Jun-2020	03-Jul-2020	72	129												
671	Khoshe-02		13	11-Jul-2020	23-Jul-2020	0	109												
672	KH.2.BC&SC120	WBM Base Course	8	11-Jul-2020	18-Jul-2020	0	109												
673	KH.2.BC&SC130	Triple Surface Treatment	5	19-Jul-2020	23-Jul-2020	0	109												
674	Logro-1		15	03-Sep-2020	17-Sep-2020	0	53												
675	LG.1.BC&SC140	WBM Base Course	9	03-Sep-2020	11-Sep-2020	0	53												
676	LG.1.BC&SC150	Triple Surface Treatment	6	12-Sep-2020	17-Sep-2020	53	53												
677	Logro-02		11	04-Aug-2020	14-Aug-2020	0	87												
678	LG.2.BC&SC160	WBM Base Course	7	04-Aug-2020	10-Aug-2020	0	87												

- █ Sand filling under floors
- █ Solid Block masonry in walls
- █ Cement sand plaster
- █ Paints work
- █ Wooden doors & Aluminium works
- █ Tileswork on floors & walls
- █ Roof treatment & drainage
- █ Rough flooring
- █ Courtyard Gate
- █ Khuprail tiles on roof
- █ Installation of WSupply fixtures & fitouts
- █ Installation of P Health Utilities & drainage
- █ RCC sewer pipe & manhole
- █ P Health & W Supply testing
- █ Electrical Conduit & Back boxes fixing
- █ Cable pulling & Connections
- █ Distribution Boards & Fitouts
- █ Installation of Electrical Utilities
- █ Electric system testing
- █ Excavation for Wsupply line
- █ Laying & Jointing WSupply Pipeline
- █ Backfill
- █ Air vent chambers & Valves
- █ Check Valves, Sluice Valves & Chambers
- █ Construction of Sedimentation tank
- █ Construction of Clear water tank
- █ Ancillary work
- █ Water supply testing
- █ Excavation for sewerage pipe line
- █ Lowering & Laying RCC pipe
- █ Trenches filling with crushed stones & compacted earth
- █ Construction of sewerage treatment area
- █ Construction of septic tank
- █ Construction of manholes
- █ Miscellaneous work
- █ WBM Base Course
- █ Triple Surface Treatment
- █ WBM Base Course
- █ Triple Surface Treatment
- █ WBM Base Course
- █ Triple Surface Treatment
- █ WBM Base Course

Gantt Chart of Dasu-LBRV-11 (13 of 14)

**Figure 20 [14/14]**



**Gantt Chart of Dasu-LBRV-11 (14 of 14)**

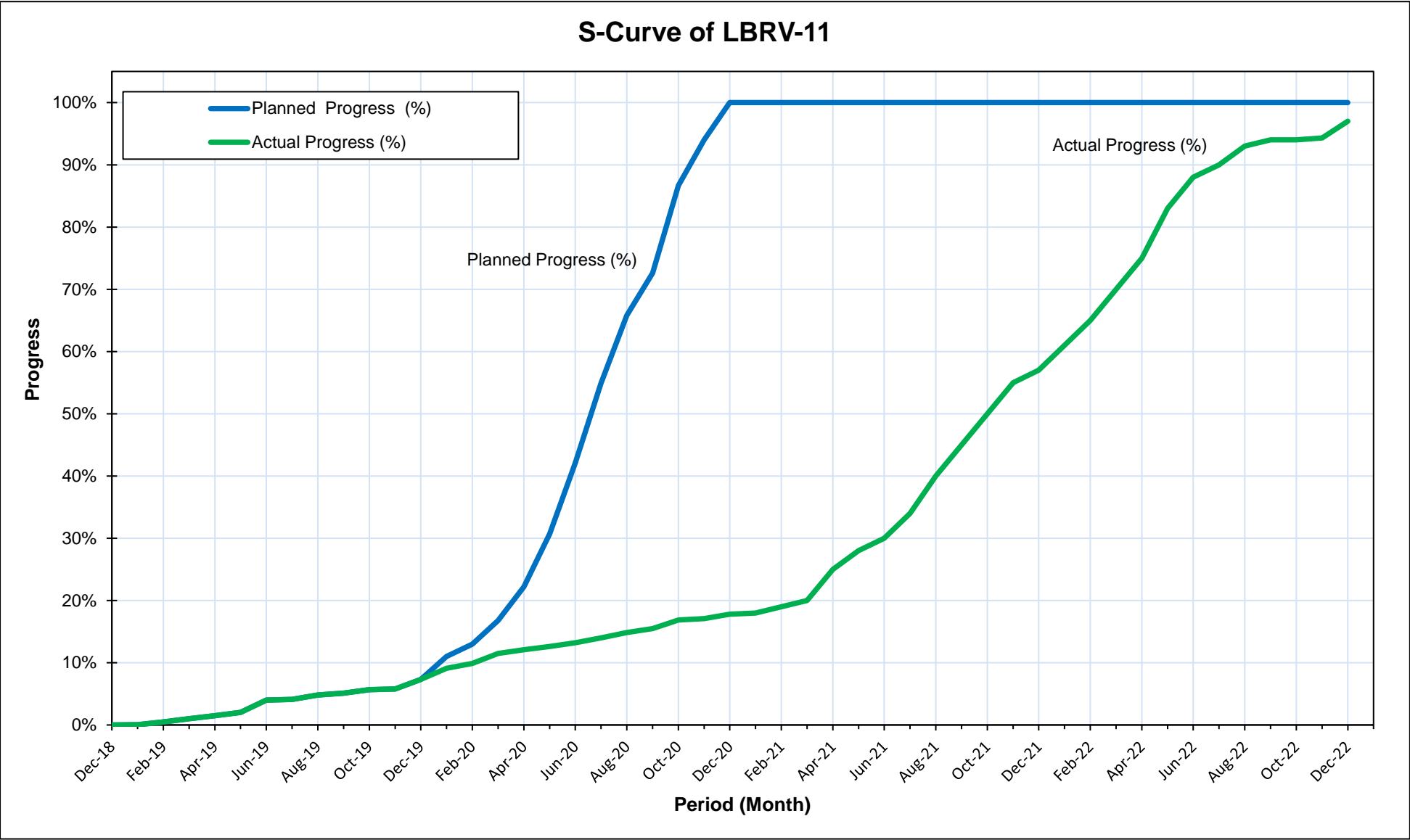
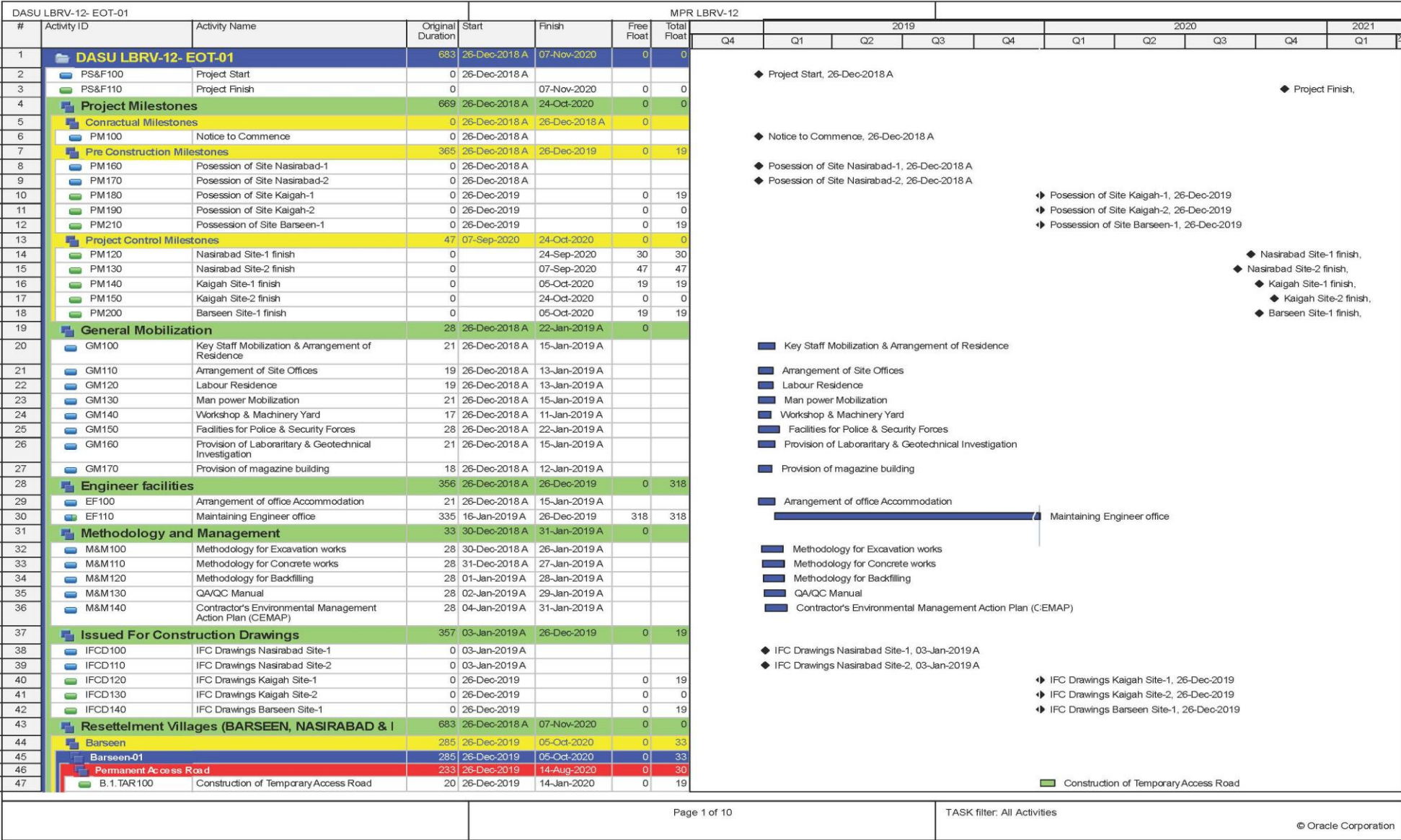


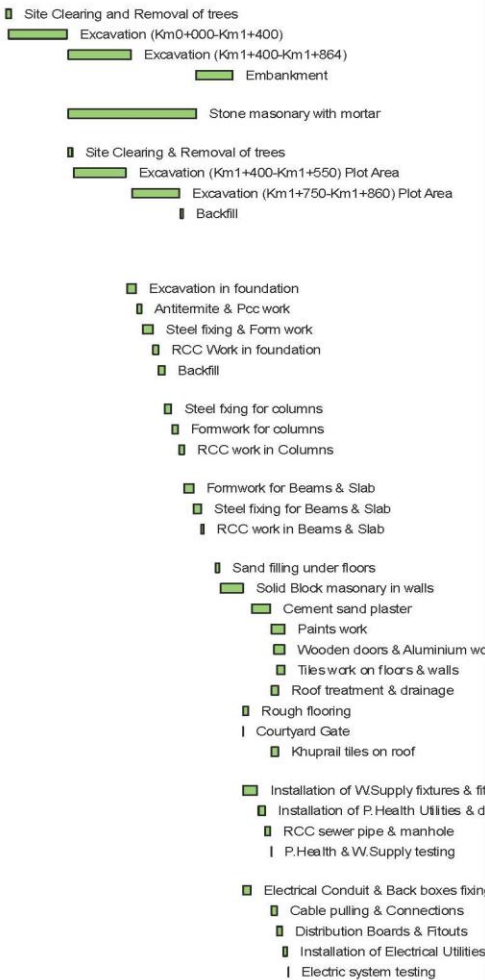
Figure 21: S-Curve for LBRV-11

**Figure 22 [1/10]**



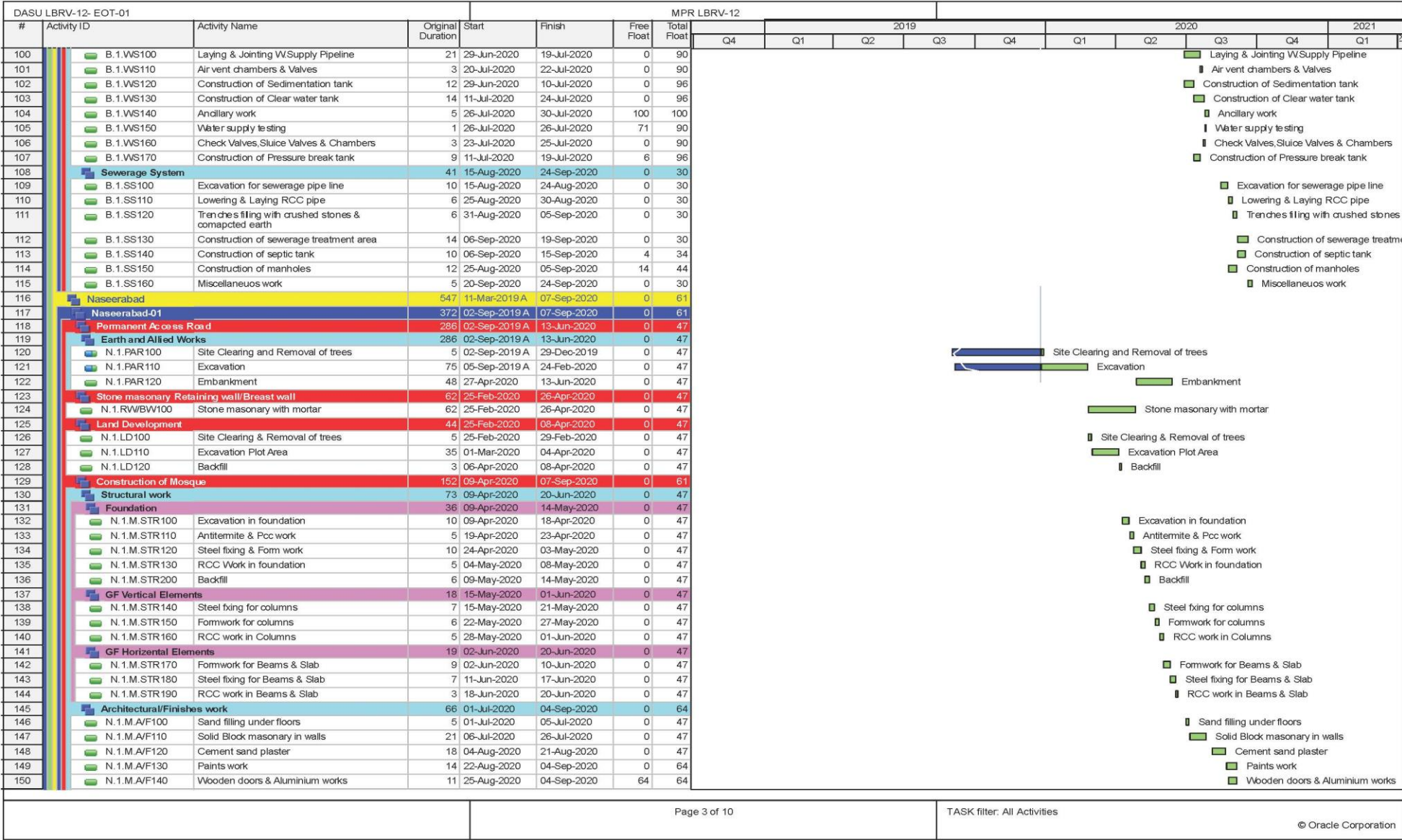
**Figure 22: Gantt Chart of Dasu-LBRV-12 (1 of 10)**

DASU LBRV-12- EOT-01		MPR LBRV-12															
#	Activity ID	Activity Name	Original Duration	Start	Finish	Free Float	Total Float	2019				2020				2021	
								Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
48		<b>Earth and Allied Works</b>	213	15-Jan-2020	14-Aug-2020	0	30										
49	B.1.PAR100	Site Clearing and Removal of trees	5	15-Jan-2020	19-Jan-2020	0	19										
50	B.1.PAR110	Excavation (Km0+000-Km1+400)	55	18-Jan-2020	12-Mar-2020	0	19										
51	B.1.PAR120	Excavation (Km1+400-Km1+864)	60	13-Mar-2020	11-May-2020	0	90										
52	B.1.PAR130	Embankment	35	11-Jul-2020	14-Aug-2020	0	30										
53		<b>Stone masonry Retaining wall/Breast wall</b>	120	13-Mar-2020	10-Jul-2020	0	30										
54	B.1.RW/BW100	Stone masonry with mortar	120	13-Mar-2020	10-Jul-2020	0	30										
55		<b>Land Development</b>	108	13-Mar-2020	28-Jun-2020	0	90										
56	B.1.LD100	Site Clearing & Removal of trees	5	13-Mar-2020	17-Mar-2020	0	19										
57	B.1.LD110	Excavation (Km1+400-Km1+550) Plot Area	50	18-Mar-2020	06-May-2020	0	19										
58	B.1.LD120	Excavation (Km1+750-Km1+860) Plot Area	45	12-May-2020	25-Jun-2020	0	90										
59	B.1.LD130	Backfill	3	26-Jun-2020	28-Jun-2020	0	90										
60		<b>Construction of Mosque</b>	152	07-May-2020	05-Oct-2020	0	33										
61		<b>Structural work</b>	73	07-May-2020	18-Jul-2020	0	19										
62		<b>Foundation</b>	36	07-May-2020	11-Jun-2020	0	19										
63	B.1.M.STR100	Excavation in foundation	10	07-May-2020	16-May-2020	0	19										
64	B.1.M.STR110	Antitermite & Pcc work	5	17-May-2020	21-May-2020	0	19										
65	B.1.M.STR120	Steel fixing & Form work	10	22-May-2020	31-May-2020	0	19										
66	B.1.M.STR130	RCC Work in foundation	5	01-Jun-2020	05-Jun-2020	0	19										
67	B.1.M.STR200	Backfill	6	06-Jun-2020	11-Jun-2020	0	19										
68		<b>GF Vertical Elements</b>	18	12-Jun-2020	29-Jun-2020	0	19										
69	B.1.M.STR140	Steel fixing for columns	7	12-Jun-2020	18-Jun-2020	0	19										
70	B.1.M.STR150	Formwork for columns	6	19-Jun-2020	24-Jun-2020	0	19										
71	B.1.M.STR160	RCC work in Columns	5	25-Jun-2020	29-Jun-2020	0	19										
72		<b>GF Horizontal Elements</b>	19	30-Jun-2020	18-Jul-2020	0	19										
73	B.1.M.STR170	Formwork for Beams & Slab	9	30-Jun-2020	08-Jul-2020	0	19										
74	B.1.M.STR180	Steel fixing for Beams & Slab	7	09-Jul-2020	15-Jul-2020	0	19										
75	B.1.M.STR190	RCC work in Beams & Slab	3	16-Jul-2020	18-Jul-2020	0	19										
76		<b>Architectural/Finishes work</b>	66	29-Jul-2020	02-Oct-2020	0	36										
77	B.1.M.A/F100	Sand filling under floors	5	29-Jul-2020	02-Aug-2020	0	19										
78	B.1.M.A/F110	Solid Block masonry in walls	21	03-Aug-2020	23-Aug-2020	0	19										
79	B.1.M.A/F120	Cement sand plaster	18	01-Sep-2020	18-Sep-2020	0	19										
80	B.1.M.A/F130	Paints work	14	19-Sep-2020	02-Oct-2020	0	36										
81	B.1.M.A/F140	Wooden doors & Aluminium works	11	22-Sep-2020	02-Oct-2020	36	36										
82	B.1.M.A/F150	Tiles work on floors & walls	9	24-Sep-2020	02-Oct-2020	36	36										
83	B.1.M.A/F160	Roof treatment & drainage	7	19-Sep-2020	25-Sep-2020	43	43										
84	B.1.M.A/F170	Rough flooring	5	24-Aug-2020	28-Aug-2020	71	71										
85	B.1.M.A/F180	Courtyard Gate	1	24-Aug-2020	24-Aug-2020	75	75										
86	B.1.M.A/F190	Khuprail tiles on roof	7	19-Sep-2020	25-Sep-2020	43	43										
87		<b>Public Health work</b>	27	24-Aug-2020	19-Sep-2020	0	35										
88	B.1.M.PH100	Installation of WSupply fixtures & fitouts	14	24-Aug-2020	06-Sep-2020	0	35										
89	B.1.M.PH110	Installation of P.Health Utilities & drainage	7	07-Sep-2020	13-Sep-2020	0	35										
90	B.1.M.PH120	RCC sewer pipe & manhole	5	14-Sep-2020	18-Sep-2020	0	35										
91	B.1.M.PH130	P.Health & W.Supply testing	1	19-Sep-2020	19-Sep-2020	16	35										
92		<b>Internal Electrification</b>	43	24-Aug-2020	05-Oct-2020	0	19										
93	B.1.M.ELE100	Electrical Conduit & Back boxes fixing	8	24-Aug-2020	31-Aug-2020	0	19										
94	B.1.M.ELE110	Cable pulling & Connections	6	19-Sep-2020	24-Sep-2020	0	19										
95	B.1.M.ELE120	Distribution Boards & Fitouts	5	25-Sep-2020	29-Sep-2020	0	19										
96	B.1.M.ELE130	Installation of Electrical Utilities	5	30-Sep-2020	04-Oct-2020	0	19										
97	B.1.M.ELE140	Electric system testing	1	05-Oct-2020	05-Oct-2020	0	19										
98		<b>External Water Supply &amp; Sewerage</b>	88	29-Jun-2020	24-Sep-2020	0	44										
99		<b>Water Supply</b>	32	29-Jun-2020	30-Jul-2020	0	100										



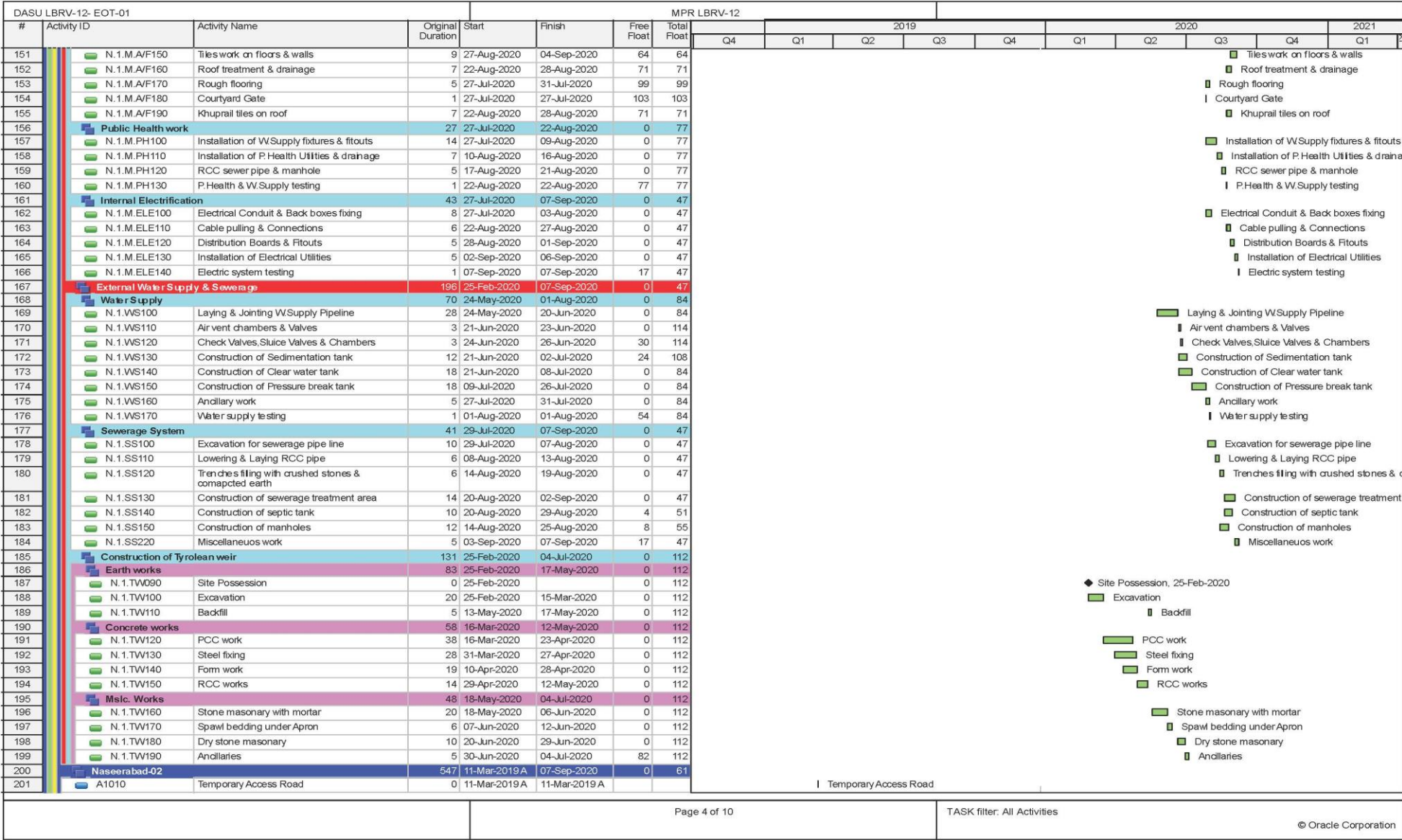
Gantt Chart of Dasu-LBRV-12 (2 of 10)

Figure 22 [3/10]



Gantt Chart of Dasu-LBRV-12 (3 of 10)

Figure 22 [4/10]



Gantt Chart of Dasu-LBRV-12 (4 of 10)

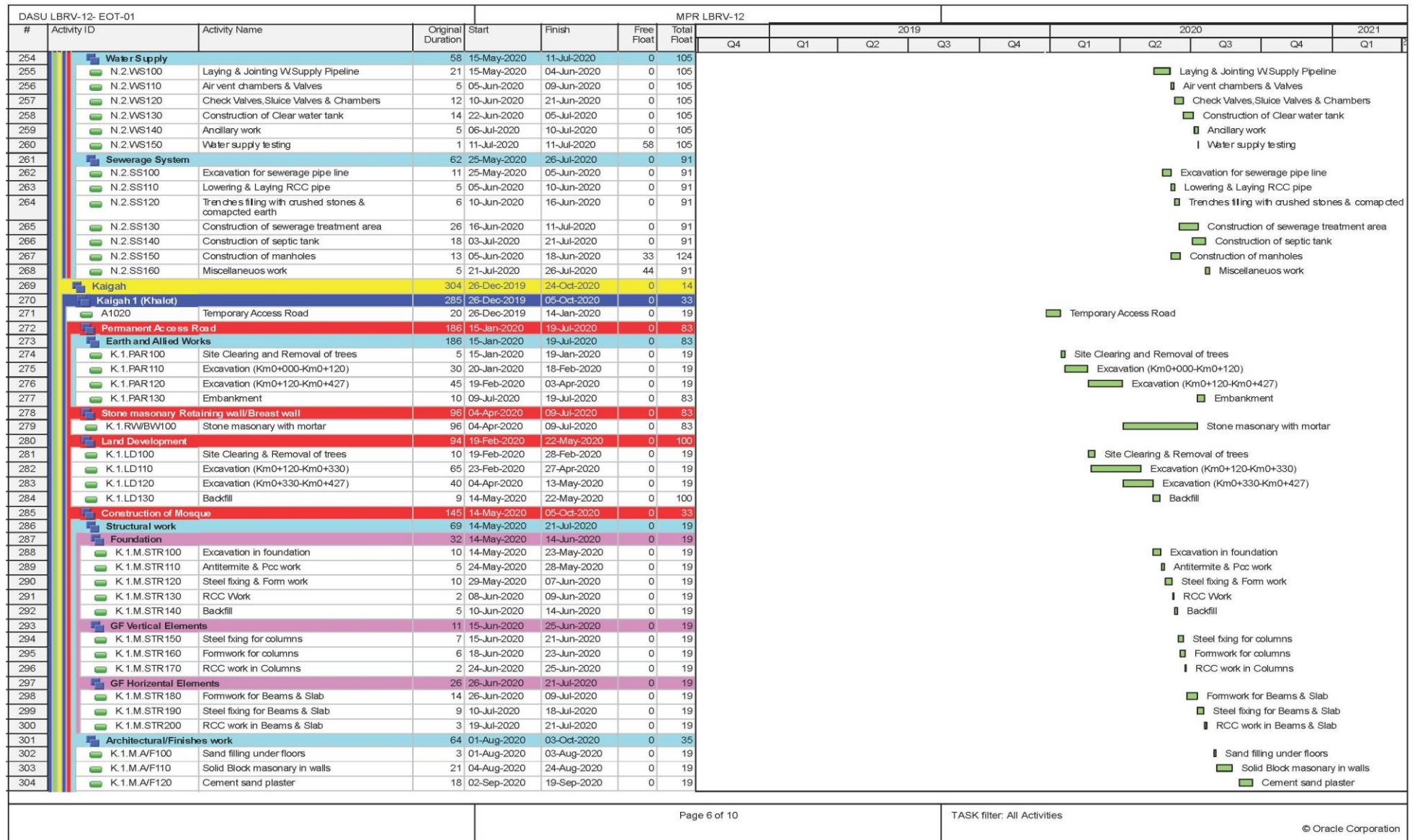


Figure 22 [5/10]

DASU LBRV-12- EOT-01		MPR LBRV-12														
#	Activity ID	Activity Name	Original Duration	Start	Finish	Free Float	Total Float	2019				2020				2021
								Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
202	<b>Permanent Access Road</b>		470	11-Mar-2019 A	22-Jun-2020	0	109									
203	<b>Earth and Allied Works</b>		470	11-Mar-2019 A	22-Jun-2020	0	109									
204	N.2.PAR100	Site Clearing and Removal of trees	5	11-Mar-2019 A	27-Dec-2019	0	47									
205	N.2.PAR110	Excavation (Km0+000-Km1+180)	95	16-Mar-2019 A	08-Feb-2020	0	47									
206	N.2.PAR120	Excavation (Km1+180-Km1+700)	35	09-Feb-2020	14-Mar-2020	0	91									
207	N.2.PAR130	Embankment	15	08-Jun-2020	22-Jun-2020	0	109									
208	<b>Stone masonry Retaining wall/Breast wall</b>		85	15-Mar-2020	07-Jun-2020	0	109									
209	N.2.RV/BW100	Stone masonry with mortar	85	15-Mar-2020	07-Jun-2020	0	109									
210	<b>Land Development</b>		96	09-Feb-2020	14-May-2020	0	91									
211	N.2.LD100	Site Clearing & Removal of trees	5	09-Feb-2020	13-Feb-2020	0	47									
212	N.2.LD110	Excavation (Km1+180-Km1+270)	56	14-Feb-2020	09-Apr-2020	0	47									
213	N.2.LD120	Excavation (Km1+570-Km1+710)	59	15-Mar-2020	12-May-2020	0	91									
214	N.2.LD130	Backfill	2	13-May-2020	14-May-2020	0	91									
215	<b>Construction of Mosque</b>		151	10-Apr-2020	07-Sep-2020	0	61									
216	<b>Structural work</b>		75	10-Apr-2020	23-Jun-2020	0	47									
217	<b>Foundation</b>		37	10-Apr-2020	16-May-2020	0	47									
218	N.2.M.STR100	Excavation in foundation	10	10-Apr-2020	19-Apr-2020	0	47									
219	N.2.M.STR110	Antitermite & Pcc work	5	20-Apr-2020	24-Apr-2020	0	47									
220	N.2.M.STR120	Steel fixing & Form work	10	25-Apr-2020	04-May-2020	0	47									
221	N.2.M.STR130	RCC Work in foundation	5	05-May-2020	09-May-2020	0	47									
222	N.2.M.STR200	Backfill	6	11-May-2020	16-May-2020	0	47									
223	<b>GF Vertical Elements</b>		18	17-May-2020	03-Jun-2020	0	47									
224	N.2.M.STR140	Steel fixing for columns	7	17-May-2020	23-May-2020	0	47									
225	N.2.M.STR150	Formwork for columns	6	24-May-2020	29-May-2020	0	47									
226	N.2.M.STR160	RCC work in Columns	5	30-May-2020	03-Jun-2020	0	47									
227	<b>GF Horizontal Elements</b>		19	05-Jun-2020	23-Jun-2020	0	47									
228	N.2.M.STR170	Formwork for Beams & Slab	9	05-Jun-2020	13-Jun-2020	0	47									
229	N.2.M.STR180	Steel fixing for Beams & Slab	7	14-Jun-2020	20-Jun-2020	0	47									
230	N.2.M.STR190	RCC work in Beams & Slab	3	21-Jun-2020	23-Jun-2020	0	47									
231	<b>Architectural/Finishes work</b>		64	04-Jul-2020	05-Sep-2020	0	63									
232	N.2.M.A/F100	Sand filling under floors	3	04-Jul-2020	06-Jul-2020	0	47									
233	N.2.M.A/F110	Solid Block masonry in walls	21	07-Jul-2020	27-Jul-2020	0	47									
234	N.2.M.A/F120	Cement sand plaster	18	05-Aug-2020	22-Aug-2020	0	47									
235	N.2.M.A/F130	Paints work	14	23-Aug-2020	05-Sep-2020	0	63									
236	N.2.M.A/F140	Wooden doors & Aluminium works	11	26-Aug-2020	05-Sep-2020	63	63									
237	N.2.M.A/F150	Tileswork on floors & walls	9	28-Aug-2020	05-Sep-2020	63	63									
238	N.2.M.A/F160	Roof treatment & drainage	7	23-Aug-2020	29-Aug-2020	70	70									
239	N.2.M.A/F170	Rough flooring	5	28-Jul-2020	01-Aug-2020	98	98									
240	N.2.M.A/F180	Courtyard Gate	1	28-Jul-2020	28-Jul-2020	102	102									
241	N.2.M.A/F190	Khuprail tiles on roof	7	23-Aug-2020	29-Aug-2020	70	70									
242	<b>Public Health work</b>		25	28-Jul-2020	21-Aug-2020	0	78									
243	N.2.M.PH100	Installation of W.Supply fixtures & fitouts	14	28-Jul-2020	10-Aug-2020	0	78									
244	N.2.M.PH110	Installation of P.Health Utilities & drainage	7	11-Aug-2020	17-Aug-2020	0	78									
245	N.2.M.PH120	RCC sewer pipe & manhole	3	18-Aug-2020	20-Aug-2020	0	78									
246	N.2.M.PH130	P.Health & W.Supply testing	1	21-Aug-2020	21-Aug-2020	78	78									
247	<b>Internal Electrification</b>		42	28-Jul-2020	07-Sep-2020	0	47									
248	N.2.M.ELE100	Electrical Conduit & Back boxes fixing	8	28-Jul-2020	04-Aug-2020	0	47									
249	N.2.M.ELE110	Cable pulling & Connections	6	23-Aug-2020	28-Aug-2020	0	47									
250	N.2.M.ELE120	Distribution Boards & Fitouts	5	29-Aug-2020	02-Sep-2020	0	47									
251	N.2.M.ELE130	Installation of Electrical Utilities	4	03-Sep-2020	06-Sep-2020	0	47									
252	N.2.M.ELE140	Electric system testing	1	07-Sep-2020	07-Sep-2020	0	47									
253	<b>External Water Supply &amp; Sewerage</b>		72	15-May-2020	26-Jul-2020	0	91									

Gantt Chart of Dasu-LBRV-12 (5 of 10)

Figure 22 [6/10]



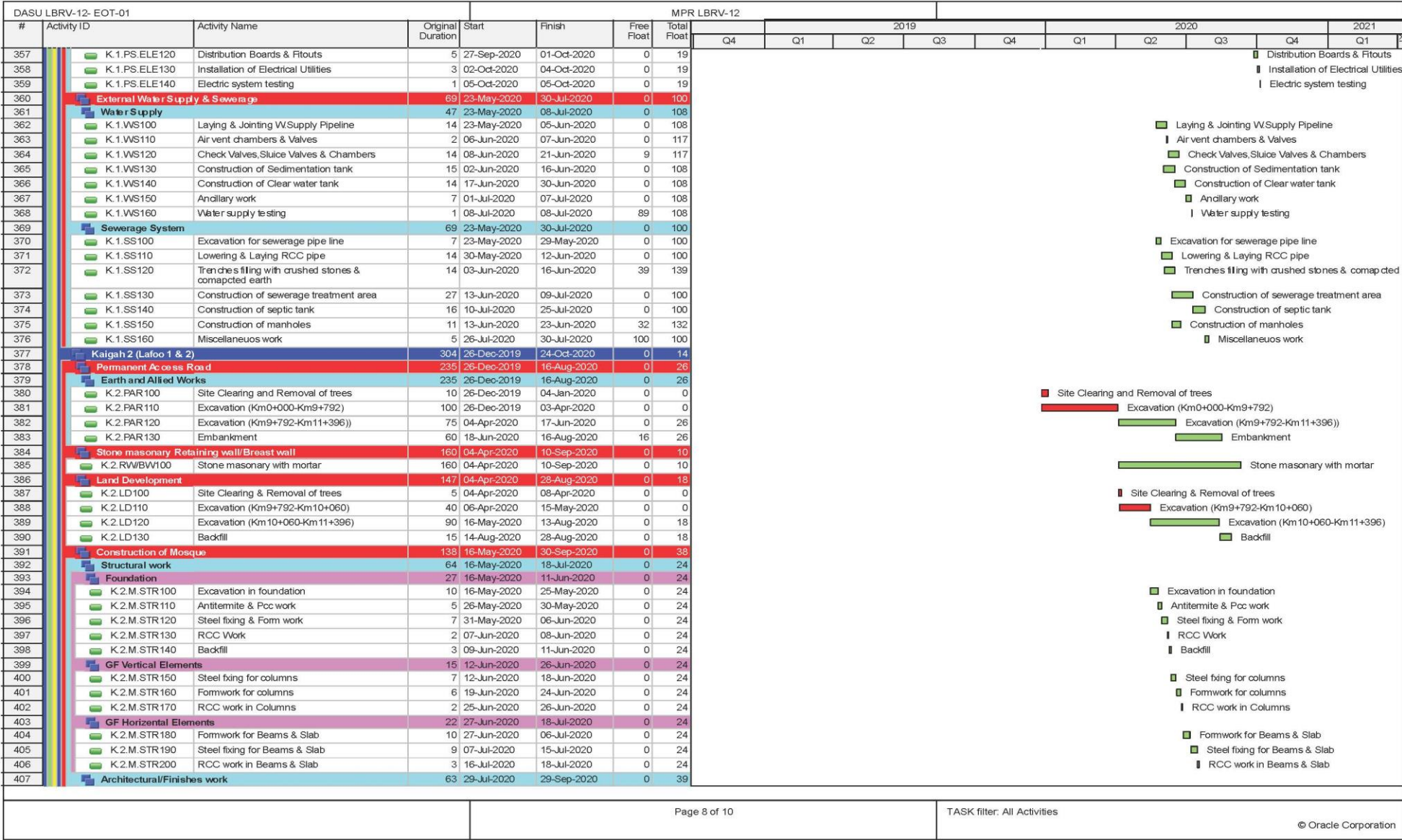
Gantt Chart of Dasu-LBRV-12 (6 of 10)

Figure 22 [7/10]

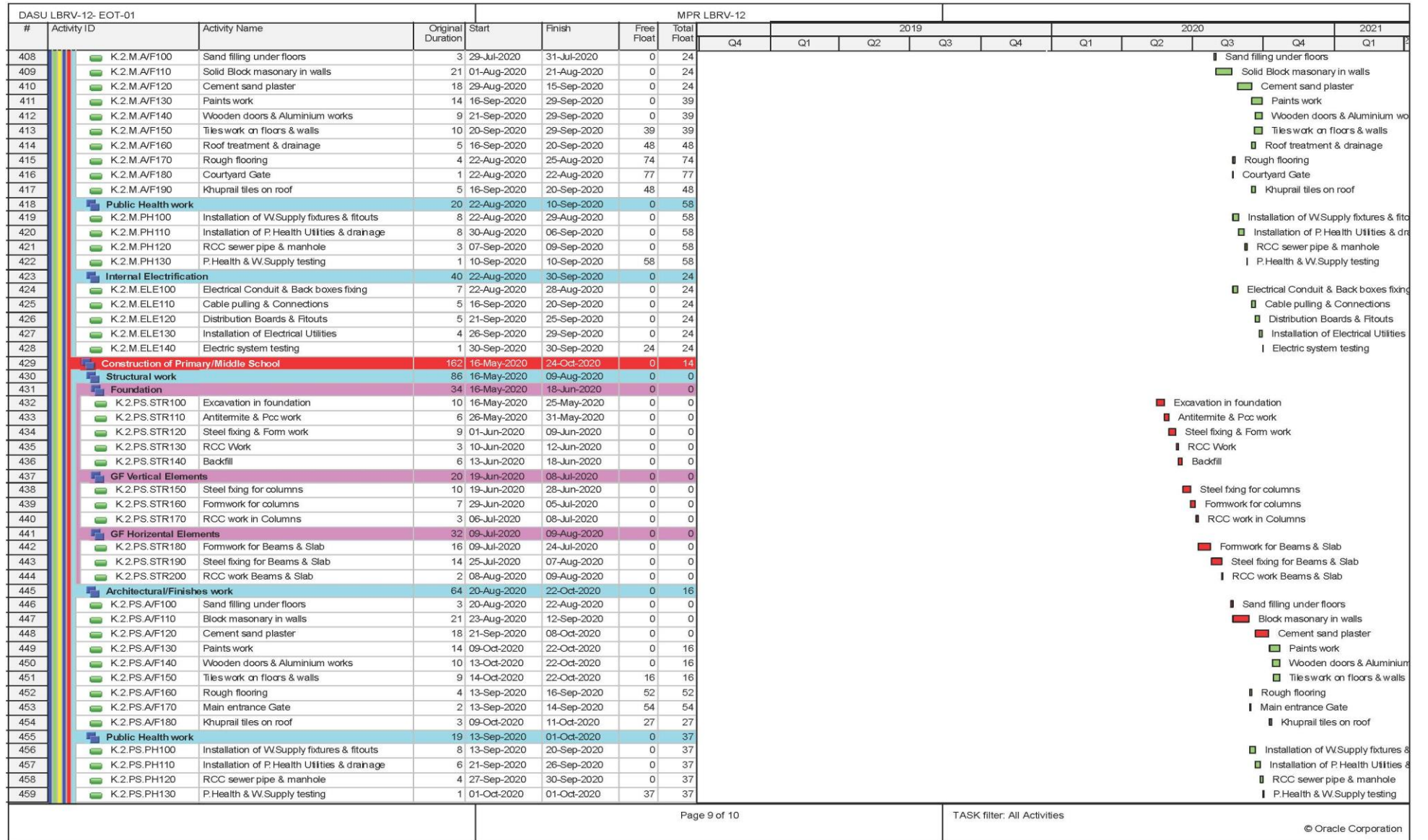
DASU LBRV-12- EOT-01				MPR LBRV-12														
#	Activity ID	Activity Name	Original Duration	Start	Finish	Free Float	Total Float	2019				2020				2021		
								Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	
305	K.1.M.A/F130	Paints work	14	20-Sep-2020	03-Oct-2020	0	35											Paints work
306	K.1.M.A/F140	Wooden doors & Aluminium works	9	25-Sep-2020	03-Oct-2020	0	35											Wooden doors & Aluminium works
307	K.1.M.A/F150	Tiles work on floors & walls	11	23-Sep-2020	03-Oct-2020	35	35											Tiles work on floors & walls
308	K.1.M.A/F160	Roof treatment & drainage	5	20-Sep-2020	24-Sep-2020	44	44											Roof treatment & drainage
309	K.1.M.A/F170	Rough flooring	5	25-Aug-2020	29-Aug-2020	70	70											Rough flooring
310	K.1.M.A/F180	Courtyard Gate	1	25-Aug-2020	25-Aug-2020	74	74											Courtyard Gate
311	K.1.M.A/F190	Khupral tiles on roof	5	20-Sep-2020	24-Sep-2020	44	44											Khupral tiles on roof
312	<b>Public Health work</b>		22	25-Aug-2020	15-Sep-2020	0	53											
313	K.1.M.PH100	Installation of W.Supply fixtures & fitouts	10	25-Aug-2020	03-Sep-2020	0	53											Installation of W.Supply fixtures & fitouts
314	K.1.M.PH110	Installation of P.Health Utilities & drainage	8	04-Sep-2020	11-Sep-2020	0	53											Installation of P.Health Utilities & drainage
315	K.1.M.PH120	RCC sewer pipe & manhole	3	12-Sep-2020	14-Sep-2020	0	53											RCC sewer pipe & manhole
316	K.1.M.PH130	P.Health & W.Supply testing	1	15-Sep-2020	15-Sep-2020	53	53											P.Health & W.Supply testing
317	<b>Internal Electrification</b>		42	25-Aug-2020	05-Oct-2020	0	19											
318	K.1.M.ELE100	Electrical Conduit & Back boxes fixing	8	25-Aug-2020	01-Sep-2020	0	19											Electrical Conduit & Back boxes fixing
319	K.1.M.ELE110	Cable pulling & Connections	5	20-Sep-2020	24-Sep-2020	0	19											Cable pulling & Connections
320	K.1.M.ELE120	Distribution Boards & Fitouts	6	25-Sep-2020	30-Sep-2020	0	19											Distribution Boards & Fitouts
321	K.1.M.ELE130	Installation of Electrical Utilities	4	01-Oct-2020	04-Oct-2020	0	19											Installation of Electrical Utilities
322	K.1.M.ELE140	Electric system testing	1	05-Oct-2020	05-Oct-2020	0	19											Electric system testing
323	<b>Construction of Primary/Middle School</b>		161	28-Apr-2020	05-Oct-2020	0	33											
324	<b>Structural work</b>		86	28-Apr-2020	22-Jul-2020	0	19											
325	<b>Foundation</b>		34	28-Apr-2020	31-May-2020	0	19											
326	K.1.PS.STR100	Excavation in foundation	10	28-Apr-2020	07-May-2020	0	19											Excavation in foundation
327	K.1.PS.STR110	Antitermite & Pcc work	6	08-May-2020	13-May-2020	0	19											Antitermite & Pcc work
328	K.1.PS.STR120	Steel fixing & Form work	9	14-May-2020	22-May-2020	0	19											Steel fixing & Form work
329	K.1.PS.STR130	RCC Work	3	23-May-2020	25-May-2020	0	19											RCC Work
330	K.1.PS.STR140	Backfill	6	26-May-2020	31-May-2020	0	19											Backfill
331	<b>GF Vertical Elements</b>		20	01-Jun-2020	20-Jun-2020	0	19											
332	K.1.PS.STR150	Steel fixing for columns	10	01-Jun-2020	10-Jun-2020	0	19											Steel fixing for columns
333	K.1.PS.STR160	Formwork for columns	7	11-Jun-2020	17-Jun-2020	0	19											Formwork for columns
334	K.1.PS.STR170	RCC work in Columns	3	18-Jun-2020	20-Jun-2020	0	19											RCC work in Columns
335	<b>GF Horizontal Elements</b>		32	21-Jun-2020	22-Jul-2020	0	19											
336	K.1.PS.STR180	Formwork for Beams & Slab	16	21-Jun-2020	06-Jul-2020	0	19											Formwork for Beams & Slab
337	K.1.PS.STR190	Steel fixing for Beams & Slab	14	07-Jul-2020	20-Jul-2020	0	19											Steel fixing for Beams & Slab
338	K.1.PS.STR200	RCC work Beams & Slab	2	21-Jul-2020	22-Jul-2020	0	19											RCC work Beams & Slab
339	<b>Architectural/Finishes work</b>		65	02-Aug-2020	05-Oct-2020	0	33											
340	K.1.PS.A/F100	Sand filling under floors	3	02-Aug-2020	04-Aug-2020	0	19											Sand filling under floors
341	K.1.PS.A/F110	Block masonry in walls	21	05-Aug-2020	25-Aug-2020	0	19											Block masonry in walls
342	K.1.PS.A/F120	Cement sand plaster	18	04-Sep-2020	21-Sep-2020	0	19											Cement sand plaster
343	K.1.PS.A/F130	Paints work	14	22-Sep-2020	05-Oct-2020	0	33											Paints work
344	K.1.PS.A/F140	Wooden doors & Aluminium works	9	27-Sep-2020	05-Oct-2020	0	33											Wooden doors & Aluminium works
345	K.1.PS.A/F150	Tiles work on floors & walls	6	30-Sep-2020	05-Oct-2020	33	33											Tiles work on floors & walls
346	K.1.PS.A/F160	Rough flooring	4	26-Aug-2020	29-Aug-2020	70	70											Rough flooring
347	K.1.PS.A/F170	Main entrance Gate	2	26-Aug-2020	27-Aug-2020	72	72											Main entrance Gate
348	K.1.PS.A/F180	Khupral tiles on roof	7	22-Sep-2020	28-Sep-2020	40	40											Khupral tiles on roof
349	<b>Public Health work</b>		17	26-Aug-2020	11-Sep-2020	0	57											
350	K.1.PS.PH100	Installation of W.Supply fixtures & fitouts	7	26-Aug-2020	01-Sep-2020	0	57											Installation of W.Supply fixtures & fitouts
351	K.1.PS.PH110	Installation of P.Health Utilities & drainage	5	02-Sep-2020	06-Sep-2020	0	57											Installation of P.Health Utilities & drainage
352	K.1.PS.PH120	RCC sewer pipe & manhole	4	07-Sep-2020	10-Sep-2020	0	57											RCC sewer pipe & manhole
353	K.1.PS.PH130	P.Health & W.Supply testing	1	11-Sep-2020	11-Sep-2020	57	57											P.Health & W.Supply testing
354	<b>Internal Electrification</b>		41	26-Aug-2020	05-Oct-2020	0	19											
355	K.1.PS.ELE100	Electrical Conduit & Back boxes fixing	9	26-Aug-2020	03-Sep-2020	0	19											Electrical Conduit & Back boxes fixing
356	K.1.PS.ELE110	Cable pulling & Connections	5	22-Sep-2020	26-Sep-2020	0	19											Cable pulling & Connections

Gantt Chart of Dasu-LBRV-12 (7 of 10)

Figure 22 [8/10]

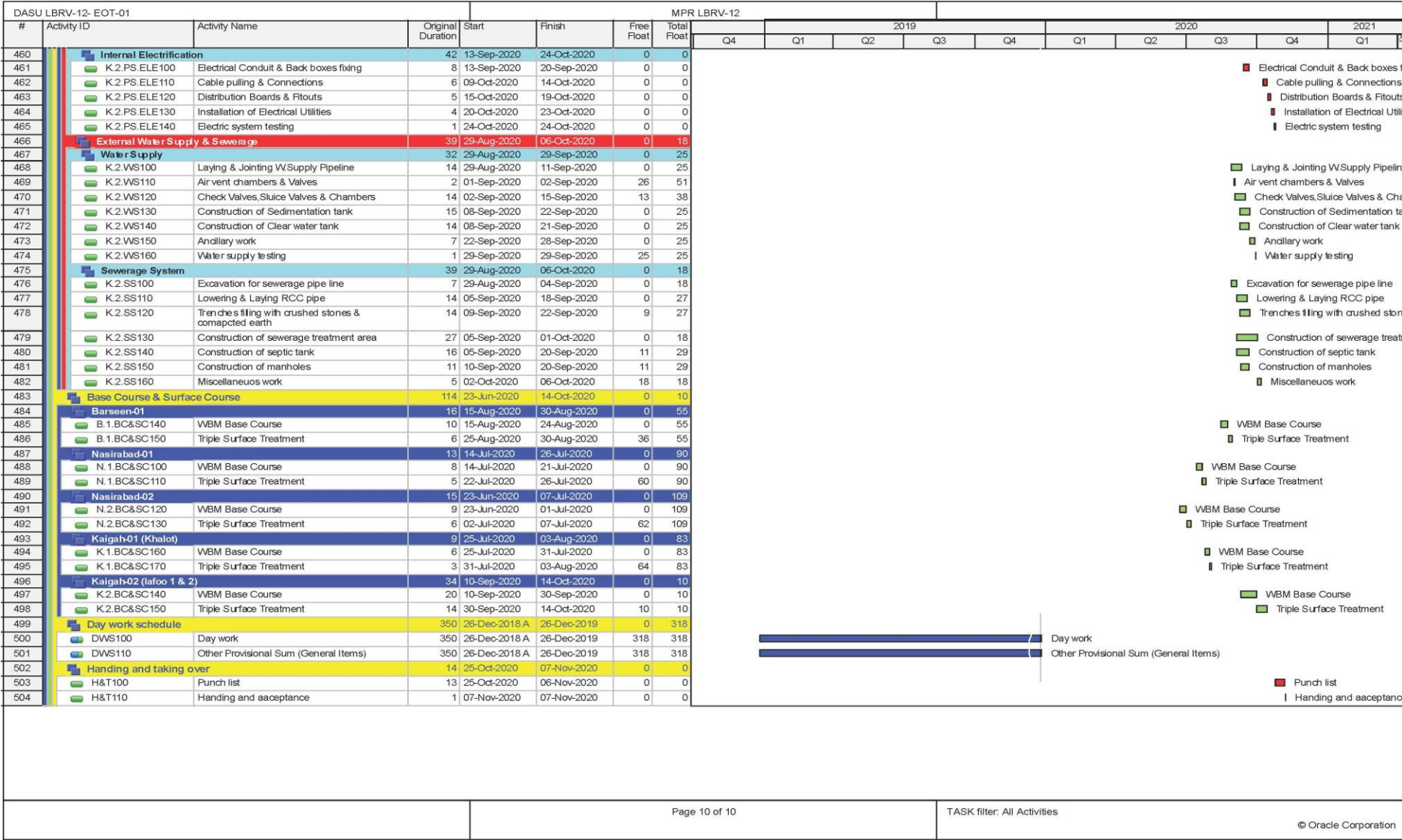


Gantt Chart of Dasu-LBRV-12 (8 of 10)



Gantt Chart of Dasu-LBRV-12 (9 of 10)

Figure 22 [10/10]



Gantt Chart of Dasu-LBRV-12 (10 of 10)

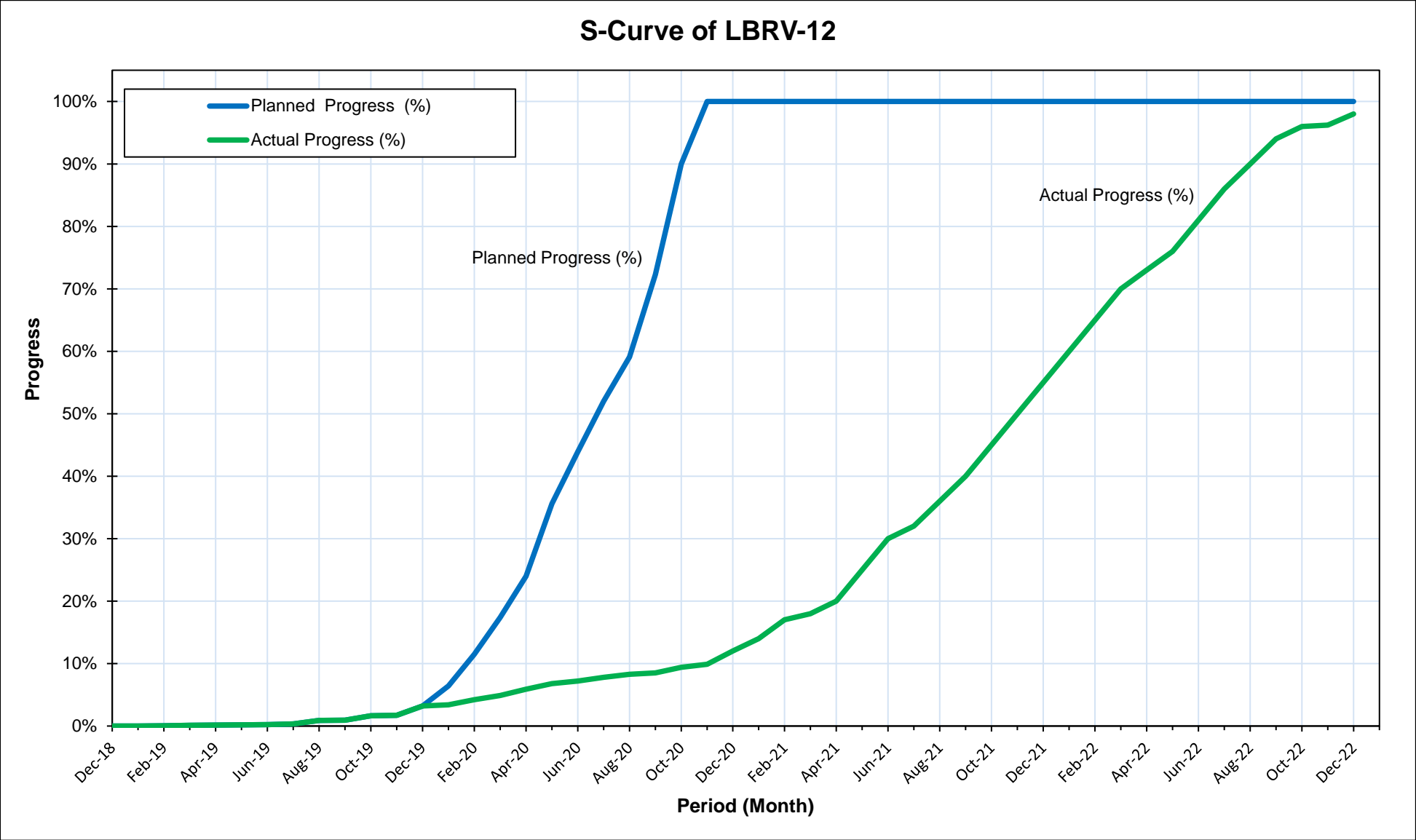


Figure 23: S-Curve for LBRV-12

Figure 24 [1/2]

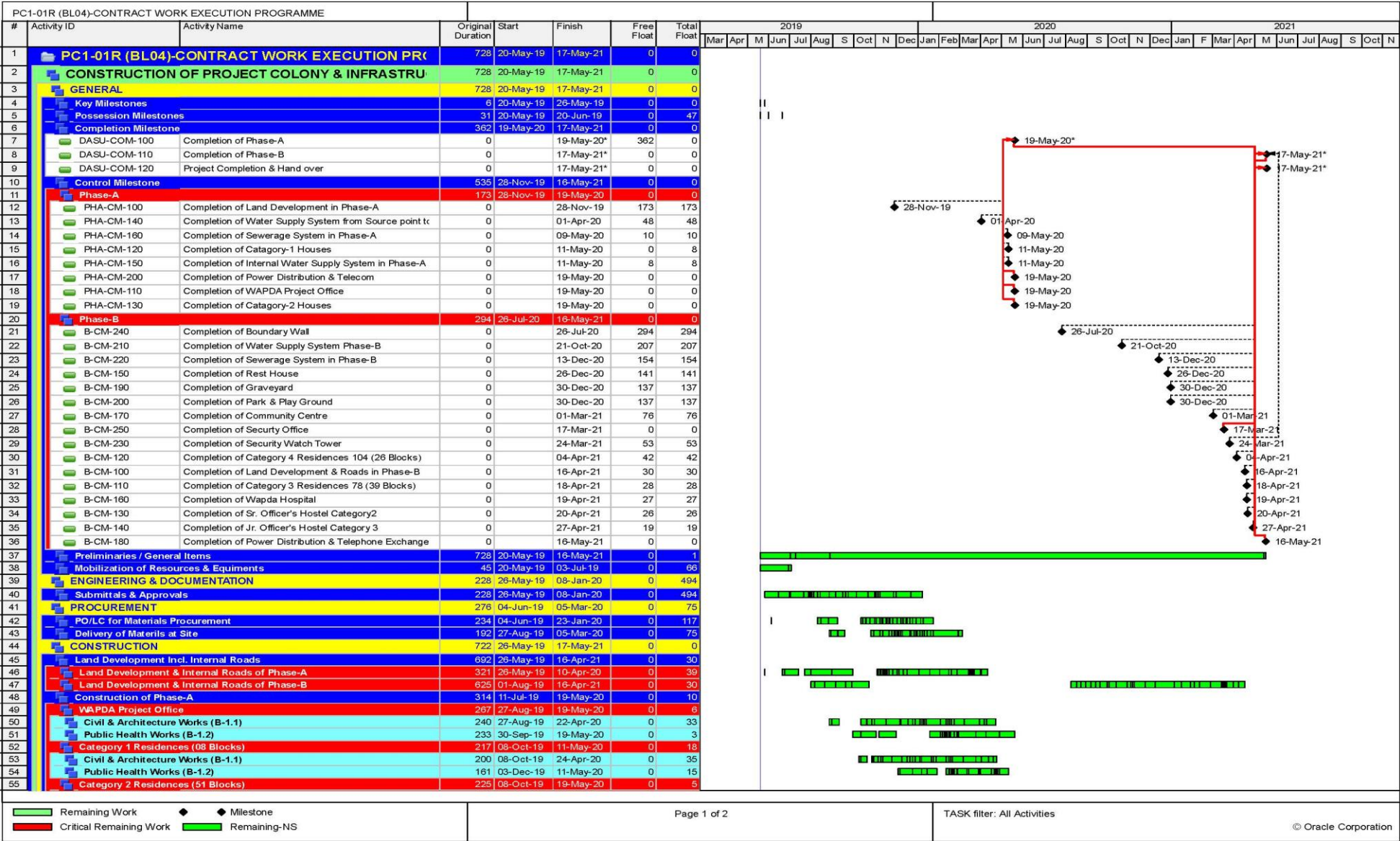
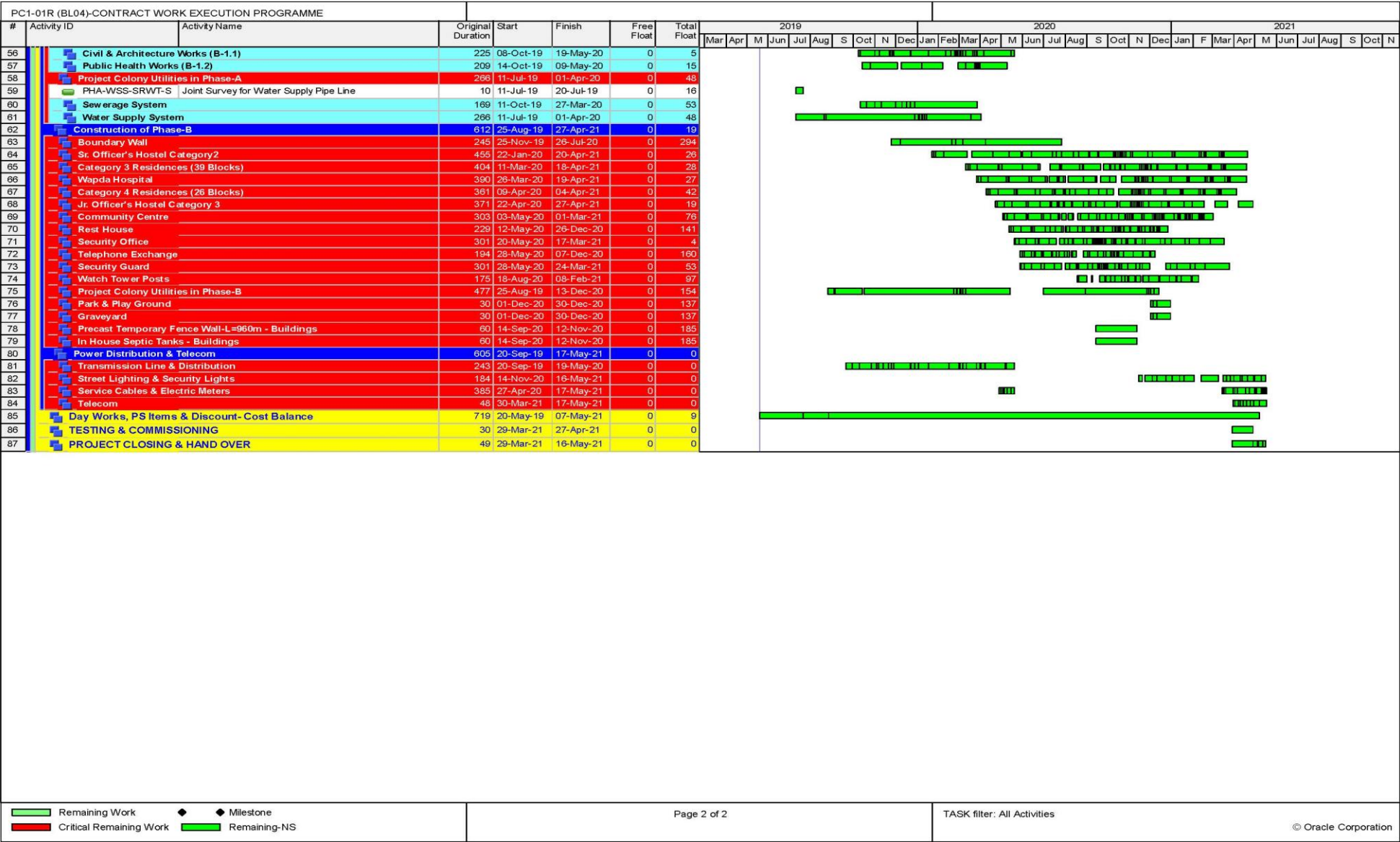


Figure 24: Gantt Chart of Dasu-PCI-01R (1 of 2)



Figure 24 [2/2]



Gantt Chart of Dasu-PCI-01R (2 of 2)

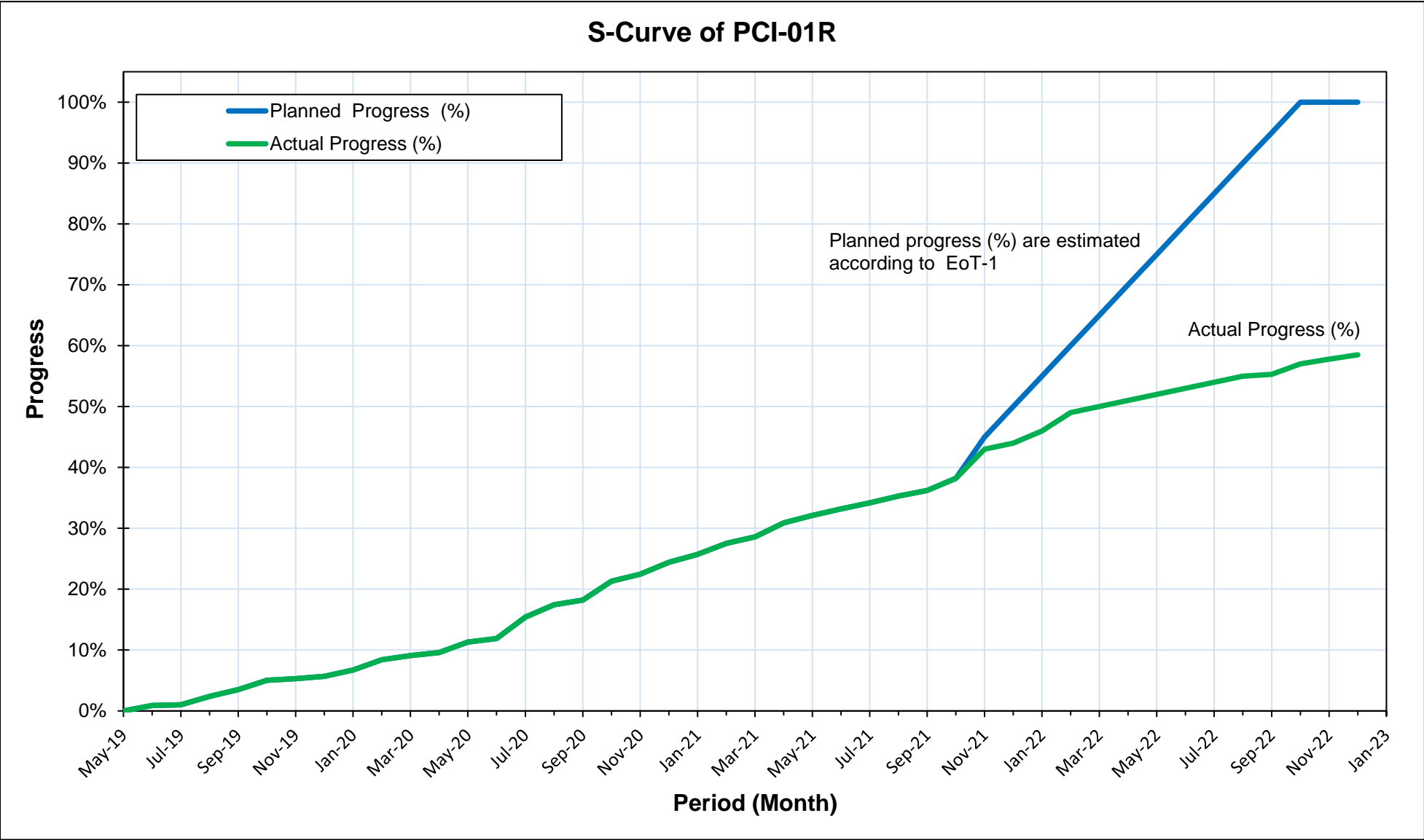


Figure 25: S-Curve for PCI-01R

Figure 26 [1/5]

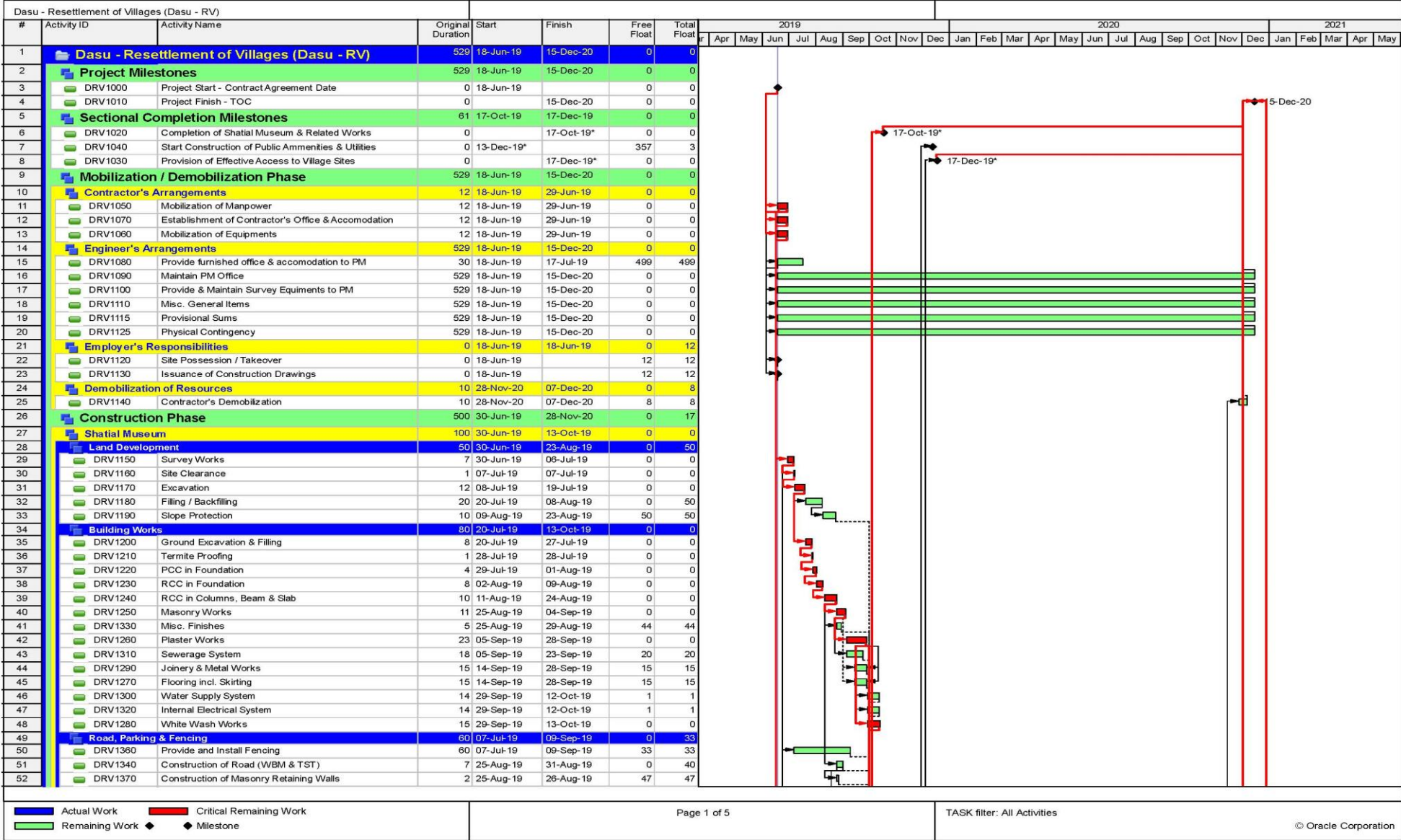


Figure 26: Gantt Chart of Dasu-RV (1 of 5)









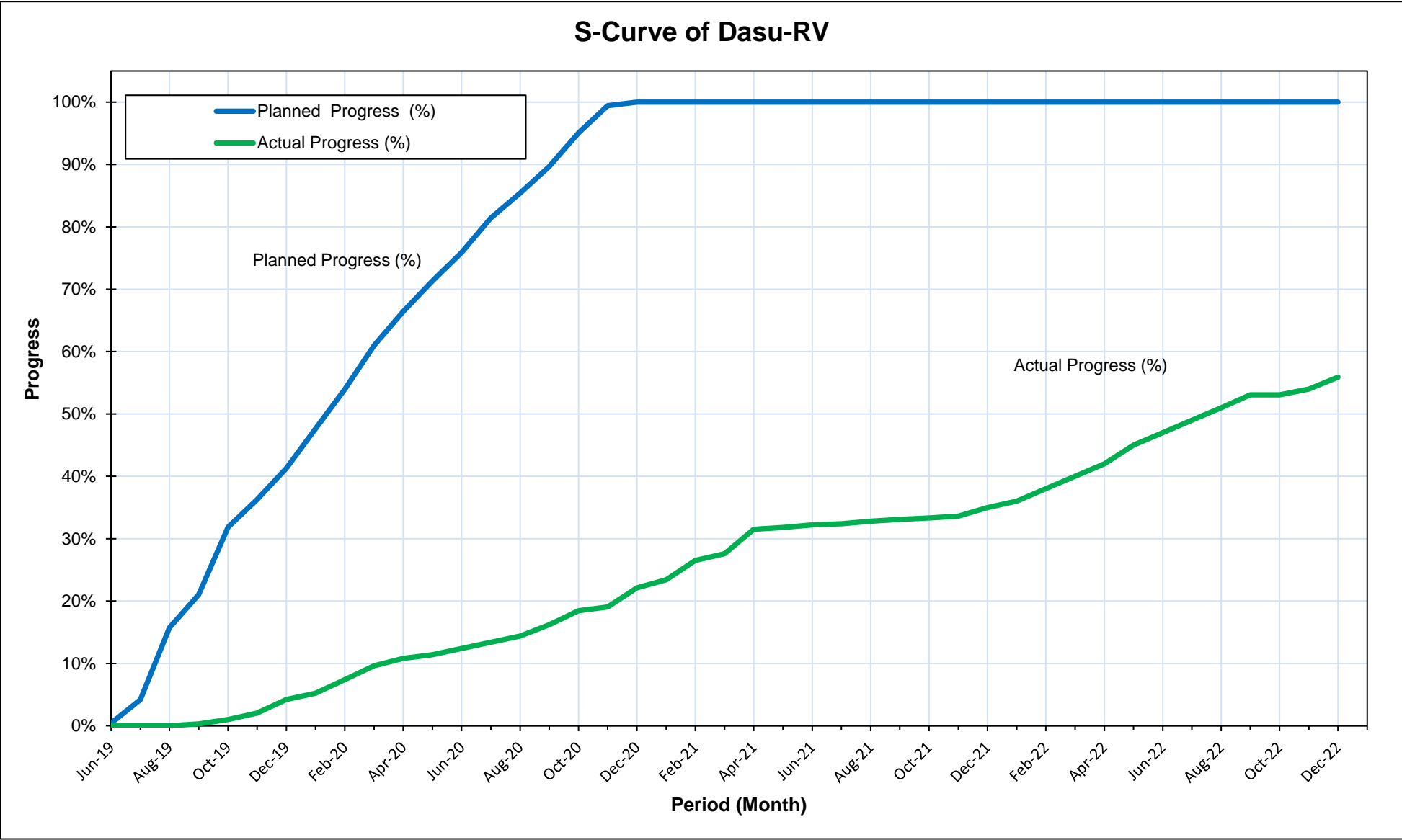


Figure 27: S-Curve for RV



Figure 28 [1/4]

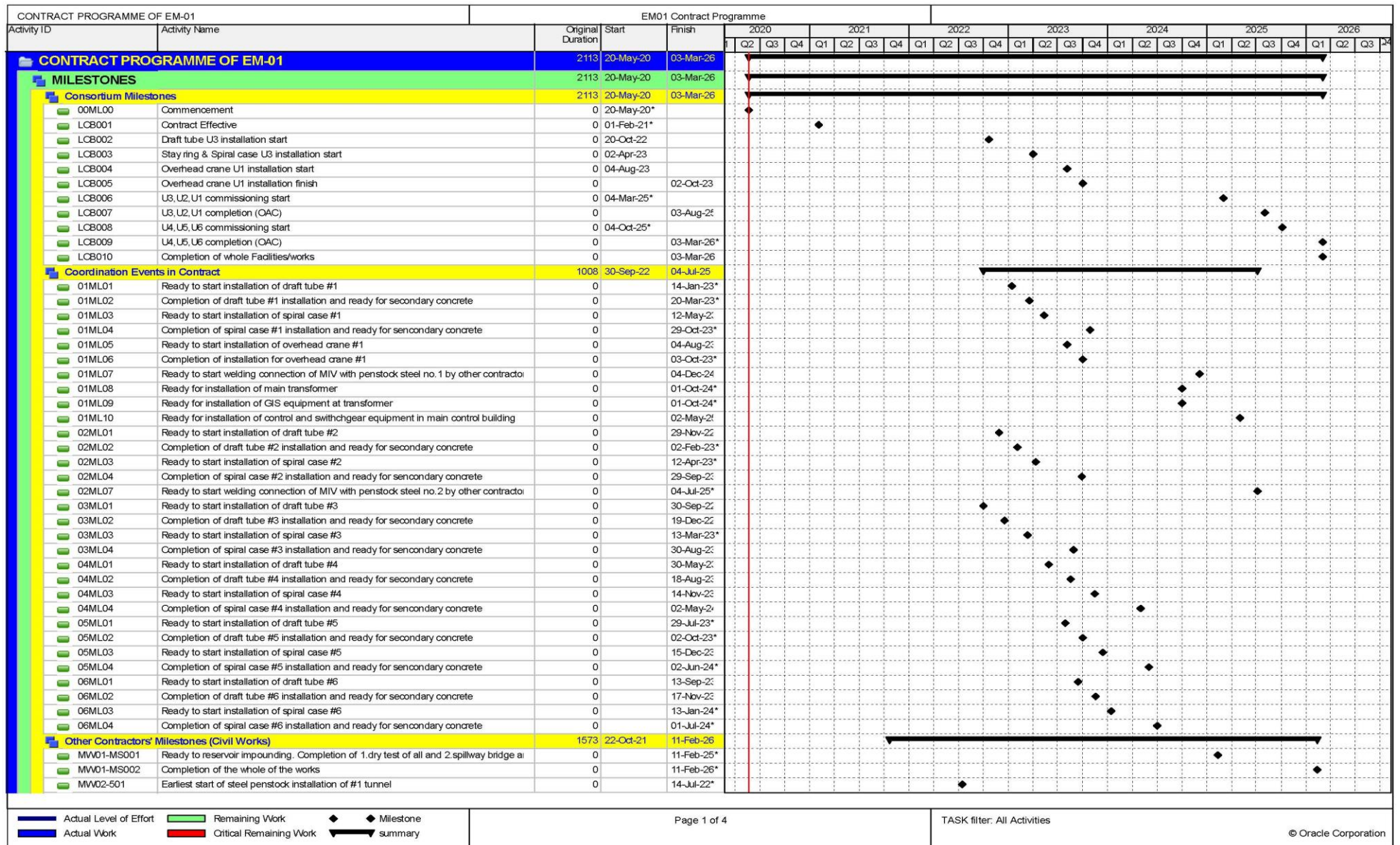
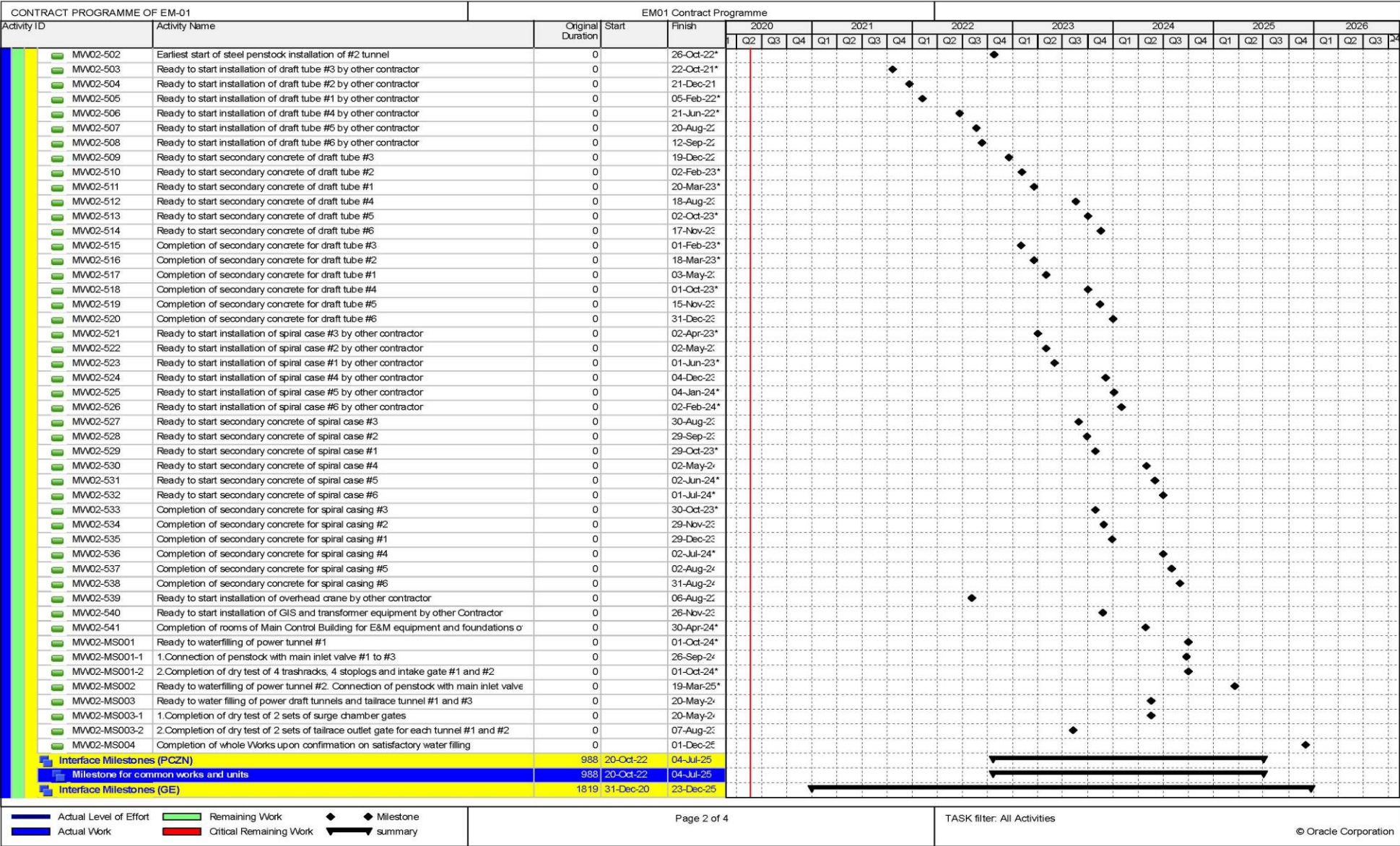


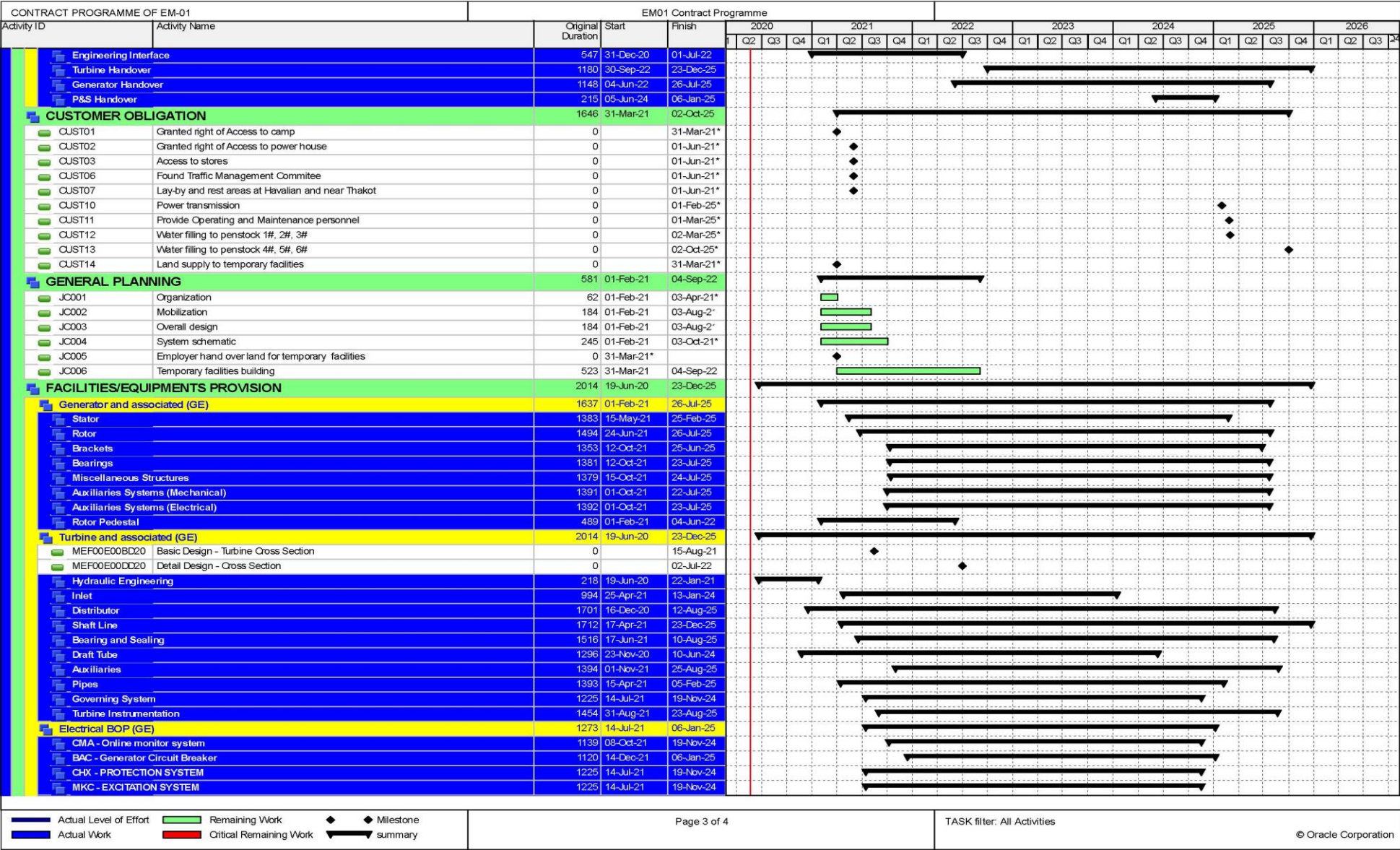
Figure 28: Gantt Chart of Dasu-EM-01 (1 of 4)

**Figure 28 [2/4]**



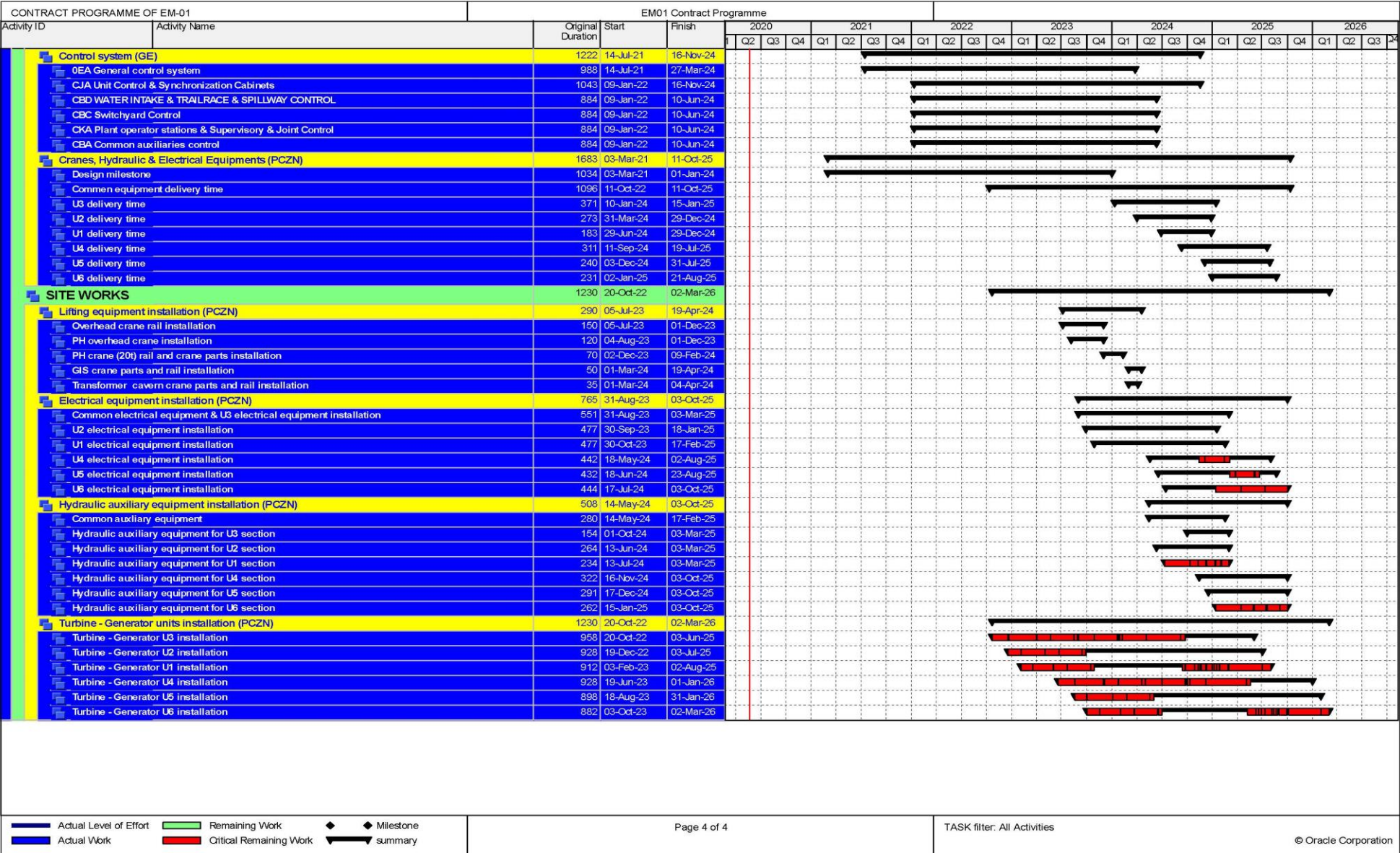
**Gantt Chart of Dasu-EM-01 (2 of 4)**

Figure 28 [3/4]



Gantt Chart of Dasu-EM-01 (3 of 4)

Figure 28 [4/4]



Gantt Chart of Dasu-EM-01 (4 of 4)

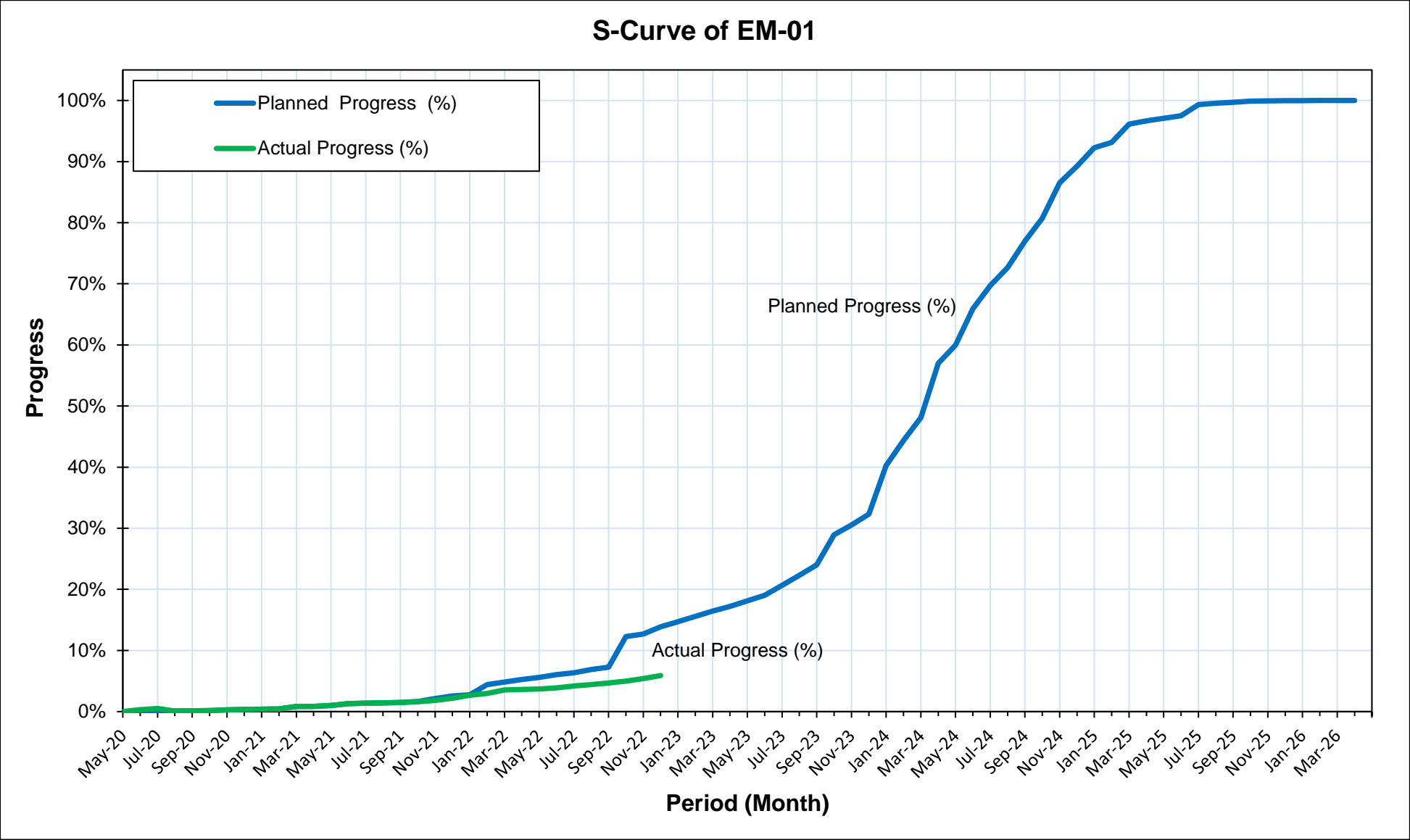


Figure 29: S-Curve for EM-01

# APPENDICES

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# **APPENDIX A**

## **Project Activities Pictorial**

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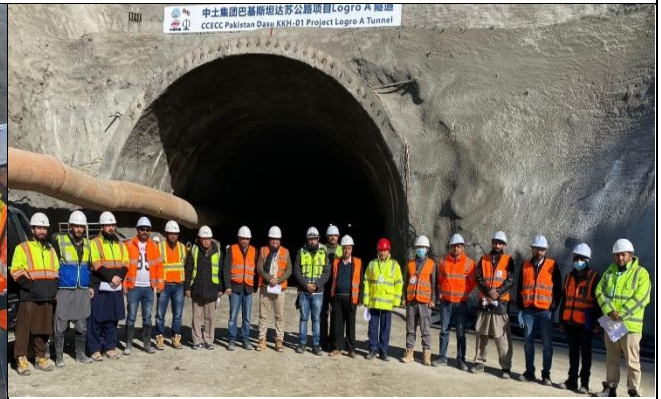


Appendix A: Project Activities Pictorial

Photographs of Environment Section



Presentation DHC Environment Team to the World Bank in Dasu on 21<sup>st</sup> of Dec 2022



WB Visit to DHP K-09 Tunnel and Cofferdam Site on 22<sup>nd</sup> of Dec 2022

Meeting Attendance Sheet  
DASU HYDROPOWER PROJECT  
Meeting Between World Bank with Environment Team of DHP

Dated: 21.12.2022

Sr. No.	Name	Designation/Organization	Signature
1.	Baqir Khalid	CDG (SS)	[Signature]
2.	Ahmed Khan	WB/SA Env Specialist	[Signature]
3.	Imran Tariq	Dy. Director (Env.)	[Signature]
4.	Faisal Ali	Dy. Director (DM/Env)	[Signature]
5.	Zafar Iqbal Chaudry	Chief/Environment/ DHC	[Signature]
6.	Sardar Alam	Sr. Environmentalist, DHC	[Signature]
7.	Aunis Hassan	" " "	[Signature]
8.	Shahid Anshlag	Adv. WAPDA (LADP)	[Signature]
9.	Imran Akhter	WB	[Signature]

WB ISM Presentation Attendance Sheet 21-12-2022



Inspection for Closure of NCR issued to RAR-02 Contractor for not having Septic tank for Toilets in the Kandia Labor Camp



Panoramic view of Kuza Banda service area



Under construction Fuel station



The Parking area



Building with unfurnished rooms for rent



Thakot tunnel outlet towards Thakot city

Photographs of OHS Section



DHC OHS Professionals verifying pre-start hazard assessments at MW01 and MW02



A view of joint inspection with CGGC of fuel station at Kaigah Camp KKH02



A view of joint inspection with CGGC at KKH02



A view of joint inspection with WAPDA and CCECC to KKH01 Camp



A view of World Bank visit to the CT02 Tunnel – MW02



A view of World Bank visit to the K09 Tunnel – KKH01



A view of post joint walkthrough meeting at site with CGGC and WAPDA at CGGC office at CR09



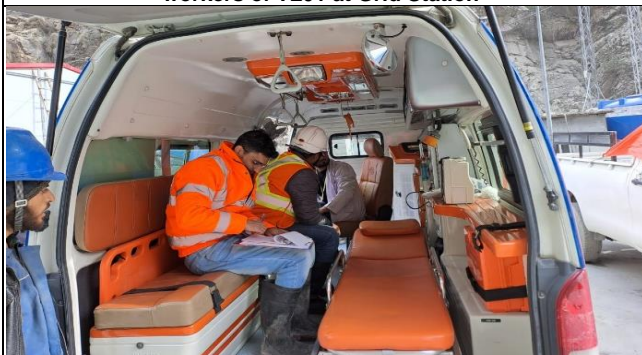
A view of DHC observing the CGGC Committee Meeting proceedings at Barseen Camp



DHC OHS conducting Work Observation Process with workers of TL01 at Grid Station



DHC OHS conducted TBT with night shift workers in MW01 and MW02



During AFI Inspection of ambulance at Uchar Camp MW01



During AFI Inspection of clinic at Uchar Camp MW01



A view of training for blasters of DHPP arranged at Barseen Camp by inspectorate of Mines, KPK



A view of Joint inspection of Kaigah Camp KKH02



A view of TBTs conducted at site by KKH02 Contractor

A view of TBTs conducted at site by RAR02 Contractor



A view of first aid training conducted by the Contractor at Barseen Camp



A view of training conducted by the Contractor at Barseen Camp

**Photographs of Social & Resettlement Section**



AD WAPDA is presenting allowances payment cheque to AHH



Budgeting and Accounts Officer WAPDA is presenting allowances payment cheque to AHH



S&R staff DHC working on Allowances Payment Files at WAPDA office



Data Analyst DHC presenting allowances payment cheques to the AHH



Data Analyst DHC presenting allowances payment cheques to the AHH



Budgeting and Accounts Officer WAPDA is presenting allowances payment cheque to AHH



Public Consultation and Participation team meeting with community members regarding ESMR Package



Public Consultation and Participation visited resettlement site regarding dumping material into a plot



Public Consultation and Participation meeting in progress regarding the issue of Khushi 1 resettlement site.



A joint visit with Director (S&R) WAPDA, Chairman IGRC and Infrastructure Team from DHC was conducted to Kuz Chuchang regarding the re-alignment of Access Road for Upper portion.



Preparation & Review of SMR Paid files for Project Allowance



Meeting with Soniwals community regarding identification of affected soniwals and project allowances



Meeting was held with the Resettling Community of RV Khushi-01 for the agreement by them with the owner of Water source on 14-12-22



Meeting with Soniwals (Gold Extractors) Community affecting from DHPP on 21-12-2022



Questionair filling from the affected soniwal community on 21-12-2022



S&R team visit to RV Nasirabad-01 on 29-12-2022



Contractor had not removed the encircled disposed excavated Loose Materials from the corner of middle terrace at RV Nasirabad-01



Resettling villagers also demanding the contractor to remove the encircled loose materials dumped at the entrance of first terrace at RV Nasirabad.



Resettling villagers of RV Nasirabad have grievances over the encircled loose materials dumped beneath the first terrace by the contractor and yet not removed.



Contractor had not removed the disposed excavated Loose materials from the outer edges of Access Road at RV nasirabad-01



Review & Scrutiny Committee (RSC) meeting on 17-12-2022



Payment of Project allowances in to the SMR paid HHs in WAPDA office.



Preparation of ESMR Files and Collection of missing documents by S&R Team



Demolishing of SMR Paid Houses by the Taskforce in the Project Area.

Photographs of KKH-01 & 02, RAR-01 & 02 & TL-01



Excavation and loading at Zero Point 3rd Bench RD=K1+450-1+480



Installation of Steel ribs for primary support in Logro-A RD=K9+245



Installation of Serial Arches at Logro-B Outlet



Drilling for rock bolts at Dugah Tunnel outlet Area for slope protection



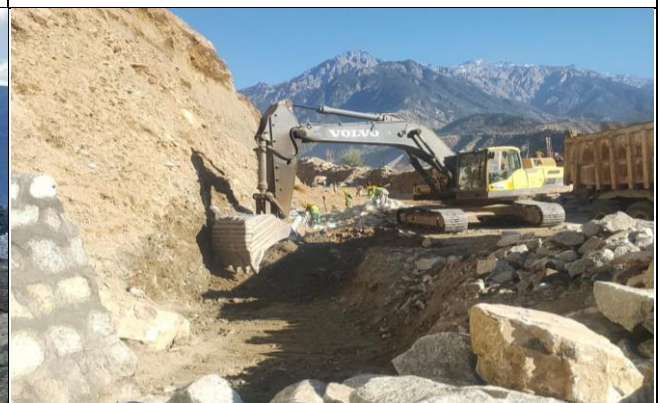
Recovery of machinery and batching Plant from flood material in Uchar



Excavation & Loading of Material K2+190 (KOMILA BYPASS)



Excavation work for road K1+750 (KOMILA BYPASS)



Excavation for B/Wall foundation k0+425 (Komila Bypass)





Nullah Protection Works K1+350 (Komila Bypass)



Excavation at K33+800 RAR02



Blasting at Seer Gayal Access Road



Construction of Breast wall at access road of Grid Station



Construction of Fence wall in Grid Station



Steel fixing for foundation concrete of Gantry

**Photographs of MW-01 & 02**



U/S Starter Dam - Right Bank works (MW-01)



Diversion Tunnel B - Inlet Structure (MW-01)



Uchar Thoki – Crushing Plant & Batching Plant (MW-01 & 02)



Traffic Diversion Tunnel – Outlet Portal (MW-01)



Logro A (K-9) Tunnel inlet (KKH-01)



Diversion Tunnel A – Inlet Structure (MW-01)



Diversion Tunnel B – Outlet Structure (MW-01)



Adit 3-2 Tunnel (MW-01)



UG Powerhouse Crown Support Work (MW-02)



Excavation and Slope Protection at Switchyard (MW-02)



Transformer Cavern Crown Support Work (MW-02)



Camp Area of EM-01

**Photographs of Infrastructure Section**



Pouring of concrete Breast wall at chochnage site 01



RCC wall in progress chochnage site 01



Retaining wall work in progress at kuz chochnage lower portion



Working of Mosque in progress chochnage site 1



Laying of service cable under ground at cat 2



Sluice valve Chamber working at Cat 2



PPR Testing at Cat 2



Repair of Main Water Supply at Cat 2



External UPVC Fitting at cat 2



Column concrete of Cat 3

**Photographs of Project Office Building and Residences**



**Tuff tile Working Finish in Front of Project Office**



**Project Office Building and Residence Category 1 completed**

# **APPENDIX B**

## **The Envisaged Man Months**

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# **APPENDIX C**

## **Submission of Deliverables**



**Appendix C: Submission of Deliverables**

<b>Date</b>	<b>Subject</b>
02.12.22	Interim Payment Certificate NO.36.PCI-01R
05.12.22	LADP-MSWM-Comments on Bidding Documents
08.12.22	Interim Payment Certificate No. 7
09.12.22	Comments of World Bank on Bid Evaluation Report
10.12.22	Draft Bidding Documents for Project Colony and Infrastructure (PCI-02)
12.12.22	LADP Monthly Progress Report No. 44 for the Month of November, 2022
13.12.22	Revision of Dates for Handing-Over of Electro-Mechanical Work Interfaces and Coordination Events
14.12.22	Vehicles Delivery, Insurance and Registration Status of 6 Nos. Pick-up from TOYOTA for the Employer's and the Project Manager's Staff
14.12.22	Assessment of the Contractor's Interim EOT Report No.2 (1st April 2021 to 14th July 2021 of MW-02)
15.12.22	MPR No.100 for the Month of November 2022 under Assignment-B
15.12.22	31st Environmental Progress Report for the Period from July to September 2022
15.12.22	Interim Payment Certificate No. 3 PKG-1
19.12.22	Engineers Assessment on the Contractors Prolongation Management Cost Claim on (EOT-01) - An Interim Claim LBRV-11
19.12.22	Engineers Assessment on the Contractors Prolongation Management Cost Claim on (EOT-01) - An Interim Claim LBRV-12
21.12.22	Interim Payment Certificate No.37 PCI-01
22.12.22	Bid Evaluation Report (School Labs LADP)
23.12.22	Bid Evaluation Report (Provision of Pick & Drop Facility to School)
23.12.22	The Contractor's Experience of Using CVC for Cutoff Wall in Other Project
27.12.22	Interim Payment Certificate No # 03.KKH-02
27.12.22	Submission of Bidding Documents.PCI-01R



<b>Date</b>	<b>Subject</b>
28.12.22	LADP-Bid Evaluation Report
29.12.22	LADP-PKG-01-Contractors All Risks (CAR) Contractors Plant and Machinery (CPM) and Workmen Compensation (WC) Insurance Policies
29.12.22	The Engineers Determination on Contractors Interim Cost Claim (Quantification) for On-Site Management Overhead Cost During Extended Time (EOT No.1 and 2).RAR-01
30.12.22	Request your Consent in Issuance of the Variation order for Adjusted River Diversion Scheme.MW-01

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# **APPENDIX D**

## **List of Meetings**

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### Appendix D: List of Meetings

<b>Date</b>	<b>Meeting With</b>	<b>Place</b>	<b>Subject</b>
06.12.22	DHC CGGC	DHC Meeting Room	Minutes of Weekly Meeting and 6th December 2022- MW-01
13.12.22	DHC CGGC	DHC Meeting Room	Minutes of Meeting MW-02
15.12.22	DHC CGICOP	DHC Meeting Room	Progress Review Minutes of Meeting held dated 15th December,2022 PCI-01R
17.12.22	WAPDA DHC CCECC	DHC Meeting Room	Minutes of Monthly OHS Progress Review Meeting KKH-01
17.12.22	WAPDA DHC CCECC	DHC Meeting Room	Minutes of Monthly OHS Progress Review Meeting RAR-01
17.12.22	WAPDA DHC PCCC	DHC Meeting Room	Minutes of Monthly OHS Progress Review Meeting TL-01
19.12.22	WAPDA DHC CGGC	DHC Meeting Room	Minutes of Monthly OHS Progress Review Meeting for KKH-02
19.12.22	WAPDA DHC CGGC	DHC Meeting Room	Minutes of Monthly OHS Progress Review Meeting for MW-01 and MW-02
19.12.22	WAPDA DHC CGICOP	DHC Meeting Room	Minutes of Monthly OHS Progress Review Meeting.PCI-01R
19.12.22	WAPDA DHC CGGC	DHC Meeting Room	Minutes of Monthly OHS Progress Review Meeting for RAR-02
22.12.22	DHC CGGC	DHC Meeting Room	Minutes of Weekly Progress Review Meeting Held on 22nd December 2022.MW-01
24.12.22	DHC CGICOP	DHC Meeting Room	Progress Review Minutes of Meeting Held Dated 24th December 2022.PCI-01R
29.12.22	WAPDA DHC CGGC	DHC Meeting Room	Minutes of Monthly Environmental Progress Review Meeting for RAR-02
29.12.22	WAPDA DHC CCECC	DHC Meeting Room	Minutes of Monthly Environmental Progress Review Meeting for RAR-01
29.12.22	WAPDA DHC CCECC	DHC Meeting Room	Minutes of Monthly Environmental Progress Review Meeting for KKH-01

29.12.22	WAPDA DHC PCCC	DHC Meeting Room	Minutes of Environmental Progress Review Meeting.TL-01
29.12.22	WAPDA DHC CGGC	DHC Meeting Room	Minutes of Monthly Environmental Progress Review Meeting for KKH-02
29.12.22	WAPDA DHC CGGC	DHC Meeting Room	Minutes of Monthly Environmental Progress Review Meeting for MW-01 & MW-02
29.12.22	WAPDA DHC CGICOP	DHC Meeting Room	Minutes of Monthly Environmental Progress Review Meeting for PCI-01R

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# **APPENDIX E**

# **Correspondence**

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**Appendix E: Correspondence of Incoming and Outgoing Letters**  
**Incoming Letters**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
<b>1. From WAPDA</b>				
<b>1.1. General</b>				
<b>Lahore Office</b>				
1.	06.12.22	GM/PD/Dasu HPP/Dir(C)/6B(CS)/ 7401-06	Approval of Escalation on Billing Rates for Local Technical Staff in Local Currency Component of Assignment-B	
2.	08.12.22	GM/PD Dasu Hpp/DD(T)/6C(CS)/ 7493-96	Request for Extension Multiple Entry Business Visa Mr. Fidencio Mendez	
3.	09.12.22	GM/PD/Dasu HPP/Accts/304-07	Release Payments Reimbursable Inv 96 for July 22 & Remuneration Inv 98 & 99 for Sep. to October 2022	
4.	14.12.22	GM/PD/Dasu HPP/Accts/7643-46	Advance to Director ISRIP WAPDA Regarding Reservoir Sediment Survey at Dasu HPP	
5.	22.12.22	GM/PD/Dasu HPP/Dir(C)/6B(CS)/ 7852-55	Request for Approval of Mr. Saqib Siddiq Sr Migration Management (L129) Replacement of Mr. Irfan Mahmood Janjua	
6.	22.12.22	GM/PD Dasu Hpp/DD(T)/6C(CS)/ 7885-88	Request for Extension of Multiple Entry Work Visa to Mr. Ali Murat Ozbek	
7.	26.12.22	Car/Planning & Coord/AP-IV/938	Verification of Record Audit of Payments to M/S Dasu HPP Consultants for the Period from Sep. 2011 to 2016 Carried out from 10.01.17 to 26.05.17	
8.	28.12.22	GM/PD/Dasu HPP/Dir(C)/6B(CS)/ 7980-84	Verification of Record Audit of Payments to M/S Dasu HPP Consultants for the Period from Sep. 2011 to 2016 Carried out from 10.01.17 to 26.05.17	
9.	29.12.22	GM/PD/Dasu HPP/Dir(C)/6B(CS)/ 8006-10	Consent of Mr. Muhammad Sohaib as Traffic Engineer (LO-8)	
10.	29.12.22	GM/PD/Dasu HPP/Dir(C)/6B(CS)/ 8011-16	Approval of Mr. Fazal Hussain against TBN Position of Sr Quantity Engineer-B (NP1)	
11.	30.12.22	GM/PD/Dasu HPP/Dir(C)/6B(CS)/ 8022-26	Request for Promotion of Mr. Habib Ullah & Mr. Imran Hussain against Upgraded Positions from Senior to Principal Engineer	
12.	30.12.22	GM/PD/Dasu HPP/Dir(C)/6B(CS)/ 8060-65	Approval of Rana Shahid Asghar from LADP Position Sr Site Engineer (Road, Building & Structure) (LA12) to Sr. Site Engineer (Road-A, KKH-02) (L65) as Replacement of Mr. Kashan Arshad	
13.	30.12.22	GM/PD/Dasu HPP/Dir(C)/6B(CS)/ 8066-71	Approval of Mr. Fawad Nisar from LADP Position Sr Contract Engineer-A (LA26) to Sr. Site Engineer Finance/ Financial Expert/ Sr. Contract Engineer (L127)	
<b>Dasu Office</b>				
14.	02.12.22	GM/PD/DHPP/Contracts/OHS/117/1499-0-94	Inception Report for the Contract Agreement of Consultancy Services for Independent Audits of Occupational Health & Safety ( OHS )	
15.	03.12.22	GM/PD/DHPP/Contracts/DHC/111/1504-7-55	Tentative itinerary to Dasu HPP by Chairman WAPDA	
16.	02.12.22	GM/PD/DHPP/E-1/6601-02	Redressal of Grievances of Mr.Saif Ur Rehman , Filed Inspector DHC	
17.	05.12.22	GM/PD/DHPP/Security/S-04/1505-09	Outstation Movement of Expatriates	
18.	02.12.22	GM/PD/DHPP/Env/G-28-1/404-405	Approval of Laboratory and 7th Quarterly Environmental Monitoring Plan of CCECC for KKH-01	
19.	06.12.22	GM/PD/DHPP/Contracts/01B/15185-90	Progress Review Meeting by Advisor project (23-25 November 2022 )	
20.	07.12.22	GM/PD/DHPP/Security/S-04/1510-14	Outstation Movement of Expatriates	
21.	07.12.22	GM/PD/DHPP/Env/E-8/406-09	Request for Provision of Monthly Production and Utilization of Coarse and Fine Aggregate Data-Quantities	
22.	08.12.22	GM/PD/DHPP/Security/S-28/1517-18	Visit to Gini Chinese Camp Site by Director Security	
23.	09.12.22	GM/PD/DHPP/Security/S-14/1526-28	Coordination Meeting on Security Aspects	
24.	09.12.22	GM/PD/DHPP/Security/S-04/1525	Schedule of Movement	
25.	09.12.22	GM/PD/DHPP/Security/S-04/1524	Outstation Movement of Expatriates	
26.	12.12.22	CRRRK.ACCTS/DHP/888-91	Assistance and Support on Custom Clearance	
27.	12.12.22	GM/PD/DHPP/Security/S-06/1534	Earmarking Preparation of Accommodation of Newly Recruited WSF	
28.	14.12.22	GM/PD/DHPP/Env/E-08/441-45	Request for Submission of Utilization Record of Coarse and Fine Aggregates	
29.	14.12.22	GM/PD/DHPP/Contracts/01/15501-03	Financial Visibility of Major Projects	
30.	14.12.22	GM/PD/DHPP/Contracts/111/15493-96	DHC Board of Management Meeting-Request of Meeting With GM-PD and Chairman WAPDA	
31.	15.12.22	GM/PD/DHPP/KKH/34/15545-51	Non-Closure of Existing KKH from December 16-18 ,2022 Due to Religious Gathering at Chillas	
32.	15.12.22	GM/PD/DHPP/KKH/34/15552-55	Timings for KKH Closure from December 16-18,2022	
33.	16.12.22	GM/PD/DHPP/Security/S-06/1547-48	Bullet Proof Vehicles for Foreigners	
34.	16.12.22	GM/PD/DHPP/Security/S-06/1558	Earmarking Preparation of Accommodation for Security Persons at Kass Chuchang Colony	
35.	19.12.22	GM/PD/DHPP/Env/410/452-55	Inadequate Food Quality at K-9 Site	
36.	20.12.22	GM/PD/DHPP/Env/G-10/463-65	Inadequate Housekeeping at K-4 Site	
37.	20.12.22	GM/PD/DHPP/Env/G-10/466-68	Planned Fuel Storage at K-9 Site by Ms CCECC	
38.	21.12.22	GM/PD/DHPP/Security/S-14/1570	Minutes of Meeting Held on 14 December with DHC Representatives of Contractors on Security Issues at DHPP	
39.	21.12.22	GM/PD/DHPP/Security/S-11/1571	Progress on Security Clearance of Labors Staff	
40.	23.12.22	GM/PD/DHPP/Security/S-14/1580	Security Coordination Meeting	
41.	26.12.22	GM/PD/DHPP/Security/S-04/1585-88	Outstation Movement of Expatriates	
42.	25.12.22	GM/PD/DHPP/Security/S-04/1581-84	Outstation Movement of Expatriates	
43.	22.12.22	GM/PD/Dasu HPP/CE(S&D)/2022/15727-28	Tentative Schedule of Chairman WAPDA Visit to Dasu Hydropower Project	
44.	27.12.22	GM/PD/Contracts/Floods/10/15783-87	Field Investigation in the Upper Catchment of Uchar Nullah Indus River	
45.	28.12.22	GM/PD/DHPP/S&D/OHS/A-90/477-80	Independent Audit Program Schedule	
46.	29.12.22	GM/PD/DHPP/Security/S-14/1598-1600	Minutes of Meeting Held on 27 December with DHC Representatives of Contractors on Security Issues at DHPP	
47.	29.12.22	GM/PD/DHPP/Security/S-21/1589-97	Security Instructions	



**Dasu Hydropower Project**  
**Monthly Progress Report No. 101 (December 2022)**

**Appendix E [2/22]**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
48.	29.12.22	GM/PD/Dasu HPP/Security/S-04/1618-20	Schedule of Outstation Movement of Expatriates for the Month of January, 2023	
49.	30.12.22	GM/PD/Dasu HPP/DD(T)/SV/Foreign/57/8027-47	Security Arrangements for Visit of World Bank Team to Dasu HPP Site from January 01 to 06,2023	
50.	28.12.22	GM/PD/DHPP/Dir@6C(CS)/7980-84	Verification of Record-Audit of Payment Made to DHC	
51.	29.11.22	GM/PD/DHPP/Security/S-07/1601-07	Violation of SOPs by Expatriate	
52.	30.12.22	GM/PD/DHPP/Security/S-06/1621-23	Bullet Proof Vehicles for Foreigners	
53.	30.12.22	GM/PD/Contracts/Floods/10/15889-96	Field Investigation in the Upper Catchment of Uchar Nullah (Indus River)	
54.	28.12.22	GM/PD/DHPP/ADMN/DHC/15903	Application	
<b>1.2. Dasu-RAR-01</b>				
<b>Dasu Office</b>				
55.	05.12.22	GM/PD/Dasu HPP/RAR-01/2022/15062-64	Site Observation at Komila Bypass	
56.	07.12.22	GM/PD/Dasu HPP/RAR-01/2022/15194-96	Sliding at Start Point of Komila Bypass.RAR-01	
57.	07.12.22	GM/PD/Dasu HPP/RAR-01/2022/15197-99	Protection of House Bordering of Road Row.RAR-01	
58.	07.12.22	GM/PD/Dasu HPP/RAR-01/2022/15216-18	Works Stoppage at Komila Bypass.RAR-01	
59.	08.12.22	GM/PD/Dasu HPP/RAR-01/2022/15308-11	Slow Work Progress of Work at K1+35.RAR-01	
60.	09.12.22	GM/PD/Dasu HPP/RAR-01/2022/15352-54	Komila Byapass Application.RAR-01	
61.	08.12.22	GM/PD/DHPP/Contracts/RAR-01/23F/15339-42	Contractors Cost Claim Pertaining to Extension of Guarantees and Insurance Policies.RAR-01	
62.	12.12.22	GM/PD/Dasu HPP/RAR-01/2022/15410-13	Application by Mr. Shah Khan .RAR-01	
<b>1.3. Dasu-RAR-02</b>				
<b>Dasu-Office</b>				
63.	06.12.22	GM/PD/DHPP/RAR-02/15147-50	Kandia K32+860 Work Hindrance	
64.	08.12.22	GM/PD/DHPP/RAR-02/2022/ 15305-07	Local People Stop Working at Dogah Bridge Right Bank.RAR-02	
65.	16.12.22	GM/PD/DHPP/RAR-02/2022/ 15575-77	Take the Necessary Precautions of Protect the undemolished Houses in the Reservoir Area ( Sluch Bridge to Nutball )	
66.	26.12.22	GM/PD/Dasu HPP/RAR-02/2022/15776-78	Cable Lift System to Cross Indus River at KM 25+590	
67.	26.12.22	GM/PD/DHPP/RAR-02/15773-75	Application from Kandia Community Through Abdul Waris	
<b>1.4. Dasu-KKH-01</b>				
<b>Dasu Office</b>				
68.	07.12.22	GM/PD/DHPP/Security/S-06/1515	Prolong Closure of KKH	
69.	07.12.22	GM/PD/DHPP/Contracts/GEN/01/15201-04	Backlisting of Supplier Manufacturers by the Employer	
70.	08.12.22	GM/PD/DHPP/DIR(C)/KKH-0154/7465-75	Feasibility Study and Detailed Design Realignment of KKH from Thakot To Raikot Due to Construction of Dams on Indus River.KKH-01	
71.	08.12.22	GM/PD/CE(S&D)/DHPP/KKH-01/15/15312-15	Site Observations.KKH-01	
72.	09.12.22	GM/PD/DHPP/Contracts/KKH-01/13/15355-58	Adjustment of Khyber Pakhtunkhwa Sales Tax (KPST) from the Contract Price.KKH-01	
73.	08.12.22	GM/PD/DHPP/Contracts/KKH-01/13F/15330-34	Contractors Cost Claim Pertaining to Extension of Guarantees and Insurance Policies.KKH-01	
74.	18.12.22	GM/PD/DHPP/Security/15596-99	Prolong Closure of KKH	
75.	19.12.22	GM/PD/DHPP/Env/410/449-51	Oil Spills at K-4 and K-9 Construction Sites	
76.	19.12.22	GM/PD/DHPP/Env/W-32/459-60	Disposal of Spoil Material Along River Slope	
77.	19.12.22	GM/PD/DHPP/Env/410/461-63	Sedimentation Tank Constructed at K-9 Tunnel	
78.	19.12.22	GM/PD/DHPP/Env/410/456-58	Inappropriate Washing Facility of Concrete Batching Plant at K-9 Site	
79.	20.12.22	GM/PD/DHPP/DIR(C)/KKH-0154/7791-7800	Coordination Meeting Regarding Discussion on Design Review of KKH-01 & KKH-02 Relocated Part due to Dasu Dam Lake	
80.	21.12.22	GM/PD/DHPP/DIR(C)/KKH-0154/7840-51	Reschedule of Coordination Meeting Regarding Discussion on Design Review of KKH-01 and KKH-02	
81.	21.12.22	GM/PD/DHPP/S&D/OHS/A-90/15694-96	Unsafe Practices of Contractors Staff for Measurement of Sand Dumper at K-9 Site	
82.	21.12.22	GM/PD/DHPP/S&D/OHS/A-90/15691-93	Storage of LPG Cylinders Inside the Kitchen at K-9 site by Ms CCECC	
<b>1.5. Dasu-KKH-02</b>				
<b>Dasu Office</b>				
83.	06.12.22	GM/PD/DHPP/S&D/KKh-02/68/15130-33	Revised Layout Plan for the Barracks at Kaigah -KKH-02	
84.	07.12.22	GM/PD/DHPP/Contracts/KKH-02/57/15205-11	Verification Authentication of Contractors All Risks (CAR) Insurance.KKH-02	
85.	07.12.22	GM/PD/DHPP/KKH-02/34/ 15219-23	Resettlement of Residents of KKH-02	
86.	07.12.22	GM/PD/DHPP/Security/S-06/1515	Prolong Closure of KKH	
87.	09.12.22	GM/PD/DHPP/Contracts/KKH-02/57/15380-88	Approval of WAPDA Cases.KKH-02	
88.	07.12.22	GM/PD/DHPP/Contracts/KKH-02/57/15639-43	Confirmation of Premium Paid for Contractors All Risks (CAR) Insurance	
89.	22.12.22	GM/PD/DHPP/KKH/34/15734-38	Prolong Closure of KKH	
90.	22.12.22	GM/PD/DHPP/S&D/KKh-02/ 29/15729-33	Updated Status of Land Handover for KKH-02	
91.	27.12.22	GM/PD/DHPP/G-10/473-476	Minutes of the Meeting for Clearance of Slopes and Disposal of Spoil Along Relocated KKH-02	
<b>1.6. Dasu-TL-01</b>				
<b>Dasu Office</b>				
92.	05.12.22	GM/PD/Dasu HPP/EM/15084-86	Shifting of Generators from Neelum Jhelum Hydropower Project Company	
93.	06.12.22	GM/PD/Dasu HPP/TL-05/ 151 45-46	Request for the Nomination of Person for Inspection of Control Cables of Gird Station	

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**Appendix E [3/22]**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
94.	13.12.22	GM/PD/DHPP/Contracts/TL-01/ 42-A/15470-75	Immediate Mobilization of Resources to Expedite Progress of Grid Station Construction .TL-01	
95.	14.12.22	GM/PD/DHPP/Contracts/TL-01/ 43/15497-15500	Contractors Claim for Re-Handling of Excavated Material Within the Grid Station.TL-01	
96.	15.12.22	GM/PD/Dasu HPP/Acct/ -7699-7703	132KV Single Circuit Transmission Line and Grid Station Interim Payment Certificate	
97.	19.12.22	GM/PD/Dasu HPP/EM/15619-21	Shifting of Generators from Neelum Jhelum Hydropower Project Company	
98.	21.12.22	GM/PD/DHPP/Contracts/TL-01/46/15667-70	Submission of Extended Insurance Policies	
99.	21.12.22	GM/PD/DHPP/Contracts/TL-01/46/15671-77	Erection All Risk (EAR) Insurance Policy Workmen Compensation Insurance Policy	
100.	27.12.22	GM/PD/DHPP/Contracts/AR22-23/PDP117/3A/15800-03	Undue Benefit to the Contractor through Issuance of Change Order RS 46.660 Million	
101.	27.12.22	GM/PD/DHPP/Contracts/TL-01/Claim/43/15804-07	Principle of Claim Project Managers Assessment - Contractors Claim for Rehandling of Excavated Material within the Grid Station	
<b>1.7. Dasu-MW-01</b>				
<b>Dasu-Office</b>				
102.	01.12.22	GM/PD/DHPP/Contracts/MW-01/87/14971-74	Replacing the Withheld Retention for the Completed Works by Guarantee	
103.	01.12.22	GM/PD/DHPP/Contracts/MW-01/81/14985-89	Meeting Between Dasu and Diamer Basha Design Consultants on RCC Mix Design Matters -MW-01	
104.	01.12.22	GM/PD/DHPP/Contracts/MW-01/81/14967-70	Natural Pozzolan Testing Information Required from Dasu Hpp	
105.	01.12.22	GM/PD/DHPP/S&D/MW-01/14952-53	Proposal of Conventional Concrete for Upstream Starter Dam Cutoff Wall -MW-01	
106.	02.12.22	GM/PD/DHPP/Contracts/MW-01/81/15009-12	Layout Plan of Ceremonial Platform of River Closure	
107.	03.12.22	GM/PD/DHPP/Contracts/MW-01/81/15039-42	Necessity of River Bed Excavation Near Diversion Tunnels Inlet and Access for the Excavation Works	
108.	03.12.22	GM/PD/DHPP/Contracts/MW-01/81/15043-46	Necessity and Cost of Additional Adit 3-2 for Future Maintenance and Possible Remedial Works of Diversion Tunnel	
109.	05.12.22	GM/PD/DHPP/S&D/MW-01/15059-61	Confirmation on RCC Special Test from CMTL	
110.	06.12.22	GM/PD/DHPP/Contracts/DHC/111/15191-93	Record Notes-MOM Meeting Between Chairman WAPDA and Vice President CGGC Dated 16 September 2022	
111.	08.12.22	GM/PD/DHPP/Contracts/87A/107A/15296-15301	Assistance and Support on Custom Clearance.	
112.	07.12.22	GM/PD/DHPP/Contracts/MW-01/81C/15224-27	Approval of Variation Order NO.VO-006-Provision of Power Supply to No.1 Crushing Plant and No.1 Batching Plant.MW-01	
113.	14.12.22	GM/PD/DHPP/S&D/MW-01/ 15481-85	Maintenance of 04 No. Physical Models of Dasu HPP at HRS, Nandipur for the Period of 01.07.2022 to 30.06.2023	
114.	16.12.22	GM/PD/DHPP/S&D/MW-01&MW-02/ 15558-61	MW-01 & MW-02 Uchar Bridge Rectification	
115.	19.12.22	GM/PD/DHPP/Security/S-06/1564	Preparation of Inter Connected Water Storage Tanks at CR-9 for Collection of Water	
116.	22.12.22	GM/PD/Dasu HPP/ISB/E-12/3745-46	Modified River Diversion Scheme	
117.	22.12.22	GM/PD/Dasu HPP/ISB/E-12/3738-44	Field Investigation in the Upper Catchment of Uchar Nullah (Indus River)	
118.	26.12.22	GM/PD/DHPP/Env/G-10/471-72	Comments on the Monthly Environmental Report of the Contractor CGGC for MW-01 & MW-02	
119.	30.12.22	GM/PD/DHPP/Contracts/83/15860-62	Acceleration Award Against Key Milestone of River Closure	
120.	31.12.22	GM/PD/DHPP/Contracts/MW-01/82/15907-11	Request for Employer's Consent Prior to Issuance of Variation Order for Adjusted River Diversion Scheme .MW-01	
<b>1.8. Dasu-MW-02</b>				
<b>Dasu-Office</b>				
121.	01.11.22	GM/PD/DHPP/Contracts/MW-02/97/14975-78	Replacing the Withheld Retention for the Completed Works by Guarantee	
122.	15.12.22	GM/PD/Dasu HPP/S&D/MW-02/15514-16	MW-02 Site Visit	
<b>1.9. Dasu-LBRV-11</b>				
<b>Dasu-Office</b>				
123.	08.12.22	GM/PD/DHPP/Contracts/RBRV-11/73/15302-04	Mobilization Advance.RBRV-01	
124.	13.12.22	GM/PD/DHPP/Contracts/RBRV-11/71/15440-44	Khyber Pakhtunkhwa Provincial Sales Tax on Services Adjustment for Changes in Legislation.LBRV-11	
<b>1.10. Dasu-LBRV-12</b>				
<b>Dasu-Office</b>				
125.	13.12.22	GM/PD/DHPP/Contracts/RBRV-12/72/15445-49	Khyber Pakhtunkhwa Provincial Sales Tax on Services Adjustment for Changes in Legislation.LBRV-12	
<b>1.11. Dasu-RBRV-11</b>				
<b>Dasu-Office</b>				
126.	04.12.22	GM/PD/DHPP/Contracts/RBRV-11/73/15056-58	Advance Payment for Mobilization and Cash Flow Support	
127.	02.12.22	GM/PD/DHPP/Contracts/RBRV-11/73/14995-97	Mobilization Advance	
128.	08.12.22	GM/PD/DHPP/Contracts/RBRV-11/73/15335-37	Initiation Management Claim for period of April 2017 to November 2022.RBRV-11	
<b>1.12. Dasu-PCI-01R</b>				
<b>Dasu office</b>				
129.	09.12.22	GM/PD/DHPP/Contracts/PCI-01R/33/15372-75	Khyber Pakhtunkhwa Provincial Sales Tax on Services Adjustment for Changes in Legislation.PCI-01R	
130.	12.12.22	GM/PD/DHPP/Colony/15432-34	Progress of Project Colony Work. PCI-01R	
131.	19.12.22	GM/PD/DHPP/Env/4-10/446-48	Washing of Concrete Transit Mixers Fresh Water Body	

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**Appendix E [4/22]**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
132.	22.12.22	GM/PD/DHPP/PCI-01R/ /15698 -15702	Colony Boundary Wall Alignment near Residence Category 3B Buildings	
133.	31.12.22	GM/PD/DHPP/Contracts/PCI-01R/32/15904-06	Submission of Bidding Documents.PCI-01R	
<b>1.13. Dasu-EM-01</b>				
<b>Dasu-Office</b>				
134.	06.12.22	GM/PD/Dasu HPP/EM-01/151 57-59	Proposal to Add Supplier of Unit Online Monitoring System	
135.	08.12.22	GM/PD/DHPP/Contracts/EM-01/ 101 /15344-47	Revision of Dates for Handing Over Electro Mechanical Work Interfaces and Coordination Event.EM-01	
136.	13.12.22	GM/PD/DHPP/Contracts/EM-01/ 101 /1556-60	Submission of Contractors Dispute Board (DB) Member for Approval.EM-01	
137.	27.12.22	GM/PD/DHPP/Contracts/DB/116G/1581 5-19	Employers Nominee for Dispute Board	
<b>1.14. Dasu-RV</b>				
<b>Dasu-Office</b>				
138.	03.12.22	GM/PD/DHPP/Contracts/RV/74/15031-34	Appointment of Adjudicator	
139.	20.12.22	GM/PD/DHPP/E-29/6632-35	Dispute Between Local Tribes on Provision of Water to the Resettlement Villages from the Water Sources	
140.	30.12.22	GM/PD/DHPP/Contracts/Dasu-RV/74/15863-70	Verification Authentication of Extension Amendment in Performance security	
<b>1.15. Dasu-S&amp;R</b>				
<b>Dasu-Office</b>				
141.	01.12.22	GM/PD/DHPP/SS/S&R/E-28/6586-88	Meeting With All Contractors Working in DHPP	
142.	01.12.22	PD-DHPP/S&R/E-66/65-83-84	Application Eighty ( 80 ) Members Committee of the Locals of Reservoir Area DHPP Kohistan	
143.	01.12.22	GM/PD/DHPP/S&R/E-66/6591	Application Regarding Self - Managed Relocation (SMR )	
144.	01.11.22	GM/PD/DHPP/S&R/E-66/6585	Application Regarding Self -Managed Relocation (SMR )	
145.	02.12.22	GM/PD-DHPP/LA-S&R/W-35/1042-44	Land Acquisition of Batch -5	
146.	02.12.22	GM/PD/DHPP/LA-S&R/W-162/1045-48	Rectified Revenue Record in Respect of " LOR SHATILA Limits to SHATIAL Nullah ( Area -4 )	
147.	02.12.22	GM/PD/DHPP/E-1/6599-6600	Development of 14 Additional Plots for Affectees Settling at Khushi Rv-01	
148.	02.12.22	GM/PD/DHPP/S&R/2022/E-66/6605	Application Regarding Self-Managed Relocation (SMR)	
149.	05.12.22	GM/PD/DHPP/LA-S&R/W-35/1063-65	Application Land Owners	
150.	05.12.22	GM/PD-DHPP/LA-S&R/W-100/1057-59	Handing -Taking Over Certificate in Respect of "KKH-01 Additional Area	
151.	05.12.22	GM/PD-DHPP/LA-S&R/W-35/1060-62	Non Availability of DHC Surveyor	
152.	09.12.22	GM/PD/DHPP/DG(SS)/S&R/E-1/6624	Development of Chuchang Resettlement Village-01	
153.	12.12.22	GM/PD-DHPP/LA-S&R/W-162/1115-18	Rectified Revenue Record in Respect of LOR (Shatial Limits to Shatial Nala ) Area-2	
154.	12.12.22	GM/PD-DHPP/LA-S&R/W-162/1119-22	Assessment Report of Built Up Property in Respect of GUL-E-BAGH Reservoir Area-1	
155.	12.12.22	GM/PD-DHPP/LA-S&R/W-35/1107-09	Applications (Inayat Ullah,Shah Wali Ullah and Janat Nisa)	
156.	12.12.22	GM/PD-DHPP/LA-S&R/W-162/1147-50	Rectified Revenue Record in Respect of LOR Shatial Limits to Shatial Nullah Area-4	
157.	12.12.22	GM/PD-DHPP(SS)S&R/E-1/6623	Compensation Against Hospital Treatment and Permanent Employment in DHC	
158.	13.12.22	GM/PD-DHPP/LA-S&R/W-161/1151-54	Rectified Revenue Record in Respect of LoR Shatial Nullah to End Point of Reservoir Area-4	
159.	13.12.22	GM/PD-DHPP/LA-S&R/W-161/1155-58	Rectified Revenue Record in Respect of LoR Shatial Nalah to End Point of Reservoir Area-1	
160.	13.12.22	GM/PD-DHPP/LA-S&R/W-161/1159-62	Rectified Revenue Record in Respect of LoR Shatial Nalah to End Point of Reservoir Area-6	
161.	14.12.22	GM/PD-DHPP/LA-S&R/W-161/1179-82	Rectified Revenue Record in Respect of "LOR ( Shatial Nullah to Reservoir end Point ) Area -2	
162.	14.12.22	GM/PD-DHPP/LA-S&R/W-161/1187-90	Rectified Revenue Record in Respect of " LOR ( Shatial Nullah to Reservoir end Point ) Area - 5	
163.	14.12.22	GM/PD-DHPP/LA-S&R/W-162/1183-86	Rectified Revenue Record in Respect of "LOR ( Shatial Nullah to Reservoir end Point ) Area -2	
164.	19.12.22	GM/PD-DHPP/LA-S&R/W-35/1203-06	Applications (Umar Khan,Muhammad Ashfaf , Mir Hazar)	
165.	19.12.22	GM/PD-DHPP/LA-S&R/W-128/1195-98	Rectified Revenue Record in Respect of Bailey Bridge Gumoon Looter Reservoir Area Right Side Area-2	
166.	19.12.22	GM/PD-DHPP/LA-S&R/W-161/ 1199-1202	Rectified Revenue Record in Respect of LoR Shatial Nullah to Reservoir End Point Area-3	
167.	20.12.22	GM/PD/DHPP/LA-S&R/W-35/ 1219-22	Applications submitted by the following (Nameer Khan, shah wali ullah and imam masjid)	
168.	19.12.22	GM/PD/DHPP/S&R/E-66/6636	Application Regarding Self-Managed Relocation (Miss.Rohma bibi, Muhammad Rahim, Hafeez ur Rehman, Laal Basdshah and Aslam)	
169.	20.12.22	GM/PD/DHPP/S&R/E-66/6637	Application Regarding Self-Managed Relocation (Mr.Aurang zeb,Mr Habib and Ejaz ur Rehman)	
170.	20.12.22	GM/PD/DHPP/S&R/E-66/6638	Application Regarding Self-Managed Relocation (Pir Dad, Mazoob Khan, Hazar Umar and Khoma)	
171.	21.12.22	GM/PD-DHPP/LA-S&R/W-161/ 1223-26	Rectified Revenue Record in Respect of LoR Shatial Nullah to Reservoir End Point Area-5	
172.	22.12.22	GM/PD/DHPP/LA-S&R/W-100/ 1235-37	Handing Taking Over Certificates	
173.	22.12.22	GM/PD/DHPP/LA-S&R/W-35/ 1242-45	Request for Review of GIS Report	
174.	22.12.22	GM/PD/DHPP/S&R/2022/E-66/6665	Application Regarding Self-Managed Relocation (Pir Zada,sheer zada,M.Nisar,M.Alam)	
175.	22.12.22	GM/PD/DHPP/S&R/2022/E-66/6664	Application Regarding Request for SMR Package Instead of Resettlement Package	
176.	27.12.22	GM/PD/DHPP/LA-S&R/W-35/1260-63	Application Submitted by Mr.Qadam Khan, Walayat, Rahmat. Suleman Abdul Aziz and Akhter Munir	

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**Appendix E [5/22]**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
177.	27.12.22	GM/PD/DHPP/S&R/E-29/6685	Cancellation of 02 (Two) Nos. Cheques	
178.	29.12.22	PD/DHPP/E-29/6692-93	84 Additional AHHS Affecting due to Rationalization of KKH-01, KKH-02 and New Additional Area	
179.	29.12.22	GM/PD/DHPP/SS/S&R/E-28/6695-96	Registration of MS CGICOP Workers with EOBI	
180.	30.12.22	PD/DHPP/E-70/6700	84 Additional AHHS Affecting Due to Rationalization of KKH-1, KKH-2 and New Additional Area	
<b>1.16. Dasu-LADP</b>				
<b>Dasu Office</b>				
181.	02.12.22	PD-DHPP/Env/E-21/402-403	LADP-PKG-01-Reminder for Ambient Air and Noise Monitoring	
182.	03.12.22	GM/PD/DHPP/Contracts/SSKD/129F/15035-38	Appointment of Adjudicator	
183.	05.12.22	PD-DHPP/DG-SS/S&R/E-18/6606-07	Procurement of Machinery for Solid Waste Management and Capacity Building of Tehsil Municipal Administration ( TMA ), Dasu and Kandia	
184.	07.12.22	GM/PD/DHPP/Dir(Cont.)CS/LADP/7448-53	Supervision Implementation of LADP Public Health Livelihood Development and Downstream Fisheries Plans	
185.	07.12.22	GM/PD/DHPP/S&R/E-34/ 6619 -21	LADP Additional Varied Works of DC Colony Road Package-1 Road Scheme	
186.	06.12.22	GM/PD/DHPP/S&R/E-34/ 6613 -18	Minutes of the Meeting on Issues of Local Area Development (LADP) Schemes	
187.	13.12.22	GM/PD/DHPP/Dir(cont)/CS(LADP)/7587-92	Request for Provision of Official Address Telephone & Fax Numbers and E-Mail Address	
188.	16.12.22	GM/PD/DHPP/S&R/E-34/ 2022/6629-31	Design , Supply , Installation , Testing and Commissioning of Solar System for School Labs of Upper Kohistan	
189.	21.12.22	GM/PD/DHPP/S&R/E-34/ 2022/6655-57	Feedback Compliance Status of MOM	
190.	21.12.22	GM/PD/DHPP/S&R/E-34/ 2022/6653-54	Feedback on Precast Concrete Slab Cover	
191.	21.12.22	GM/PD/DHPP/S&R/E-34/ 2022/6659	Bid Evaluation for Provision of Pick & Drop Facility to School Going Children	
192.	26.12.22	GM/PD/DHPP/Env/E-21/469-70	Absence of ESHS Officer from the Site	
193.	26.12.22	GM/PD/DHPP/Contracts/LADP/NESPAK /118/15761-72	Replacement of the Project Manager for Contracts	
194.	27.12.22	GM/PD/DHPP/Contracts/LADP/129H/15808-14	Contractors All Risk Insurance Policy Contractors Plant & Machinery Insurance Policy Workmen Compensation Insurance Policy	
195.	27.12.22	GM/PD/DHPP/Contracts/LADP/129H/15788-91	Contractors All Risk Insurance Policy Contractors Plant & Machinery Insurance Policy Workmen Compensation Insurance Policy	
196.	28.12.22	PD/DHPP/DG/S&R/E-34/6688-89	Observations on IPC No.07	
197.	27.12.22	GM/PD/DHPP/Contracts/AR22-23/PDP/131/3A/15792-95	Undue Favor to the Contractor by Non-Imposition of Liquidated Damages Rs 6.664 Million	
198.	27.12.22	GM/PD/DHPP/Contracts/AR22-23/PDP/131/3A/15796-99	Extra Payment to the Contractor on Account of Change in Span of the Bridge RS. 1.752 Million	
199.	27.12.22	PD/DHPP/S&R/E-70/6684	Minutes of the Meeting Progress Review Meeting NESPAK (LADP-ICs)	
<b>2. From Contractors</b>				
<b>2.1. Dasu-RAR-01</b>				
<b>Dasu Office</b>				
200.	04.12.22	CCECC/PAK/DASUFIELD/Rar-01/22-WR-038	Submission of Weekly Progress Reports	
201.	09.12.22	CCECC/PAK/DASUFIELD/Rar-01/22-WR-039	Submission of Weekly Progress Report RAR-01	
202.	15.12.22	CCECC/PAK/DASUFIELD/Rar-01/22-HSE-059	Request for Closure of NCR -07	
203.	17.12.22	CCECC/PAK/DASUFIELD/Rar-01/22-WR-040	Submission of Weekly Progress Report (9th-15 Dec 2022) RAR-01	
204.	25.12.22	CCECC/PAK/DASUFIELD/Rar-01/22-HSE-060	Submission of Police Clearance Certificates for Local Non Local Employees RAR-01 (060)	
205.	29.12.22	CCECC/PAK/DASUFIELD/RAR-01/22-86	Submission of New Performance Guarantee for Contract of RAR-01	
206.	29.12.22	CCECC/PAK/DASUFIELD/RAR-01/22-87	Submission of New Advance Payment Guarantee for Contract of RAR-01	
<b>2.2. Dasu-RAR-02</b>				
<b>Dasu-Office</b>				
207.	01.12.22	CGGC/RAR-02/ED/DHC-455	Weekly Progress Report of RAR-02	
208.	04.12.22	CGGC/RAR-02/ED/DHC-456	Blasting Plan in Next Week of RAR-02	
209.	04.12.22	CGGC/RAR-02/ED/DHC-457	Local People Stop Working at Dogah Bridge Right Bank	
210.	04.12.22	CGGC/RAR-02/ED/DHC-458	Confirmation Letter on RAR-02 Bridge Geological Survey Information	
211.	04.12.22	CGGC/RAR-02/PD/DHC-459	Confirmation Letter on RAR-02 Bridge Geological Survey Information	
212.	06.12.22	CGGC/RAR-02/CD/DHC-460	Design Optimization Road Layout of RAR-02	
213.	07.12.22	CGGC/RAR-02/HRD/DHC-461	Submission of Staff Information List.RAR-02	
214.	08.12.22	CGGC/RAR-02/ED/DHC-462	Kandia K32+860 Work Hindrance Again.RAR-02	
215.	08.12.22	CGGC/RAR-02/ED/DHC-463	Weekly Progress Report of RAR-02	
216.	11.12.22	CGGC/RAR-02/TD/DHC-464	Submit the Suggestions About the Rock Geological Classification of RAR-02	
217.	11.12.22	CGGC/RAR-02/ED/DHC-465	Blasting Plan in Next Week of RAR-02	
218.	15.12.22	CGGC/RAR-02/CD/DHC-466	Cable River - Crossing System ( K250+590 ) Variation	
219.	15.12.22	CGGC/RAR-02/ED/DHC-467	Request to Relocate the Seer Gayal School	
220.	15.12.22	CGGC/RAR-02/ED/DHC-468	Weekly Progress Report of RAR-02 (22022.12.15 - 2022.12.11)(	
221.	16.12.22	CGGC/RAR-02/HSED/DHC-469	Incident Investigation Report for Doga Site	
222.	16.12.22	CGGC/RAR-02/ED/DHC-470	Kandia K34+580 and K34+660 Work Hindrance	
223.	18.12.22	CGGC/RAR-02/HSED/DHC-471	Monthly OHS Report for November 2022-RAR-02	
224.	17.12.22	CGGC/RAR-02/FD/DHC-472	Reminder of the Upcoming Expiration of Advance Payment Guarantee RAR-02	
225.	19.12.22	CGGC/RAR-02/ED/DHC-473	Blasting Plan in Next Week of RAR-02 (2022.12.19-2022.12.25)	
226.	22.12.22	CGGC/RAR-02/HSED/DHC-474	Training in Animal & Plant Conservation RAR-02	
227.	21.12.22	CGGC/RAR-02/ED/DHC-476	Weekly Progress Report of RAR-02 (2022.12.12-2022.12.18)	

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**Appendix E [6/22]**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
228.	22.12.22	CGGC/RAR-02/ED/DHC-475	Monthly Progress Report (RAR-02)	
229.	23.12.22	CGGC/RAR-02/HSED/DHC-477	Submission of the Monthly Environment Report in June 2022 for RAR-02	
230.	26.12.22	CGGC/RAR-02/ED/DHC-478	Blasting Plan in Next Week of RAR-02	
231.	28.12.22	CGGC/RAR-02/HSED/DHC-479	Reply to the NCR Regarding Septic Tank of Labor Camp Near the Kandia Bridge RAR-02	
232.	29.12.22	CGGC/RAR-02/PD/DHC-480	Submit Advanced Gabion Third Party Test Report for RAR-02	
233.	29.12.22	CGGC/RAR-02/ED/DHC-481	Weekly Progress Report of RAR-02 (2022.12.19-2022.12.25)	
234.	30.12.22	CGGC/RAR-02/TD/DHC-482	Request for K13+630-K13+750 Slope Protection RAR-02	
<b>2.3. Dasu-KKH-01</b>				
<b>Dasu Office</b>				
235.	01.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/HSE-22-134	OSH KPI November 2022	
236.	03.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/HSE-22-135	Fortnightly Explosive Record ,16-30 November 2022	
237.	07.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/HSE-22-136	Request for Closure of NCR # 5.KKH-01	
238.	07.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/HSE-22-137	Monthly OHS Monitoring Report # 83 November 2022.KKH-01	
239.	09.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/HSE-22-138	Locals Interference and Frequent Movement Inside the Construction Zone (Zero Section K4 Tunnel K9 Tunnel and Logro B Sites May Cause of Fatal Incident.KKH-01	
240.	09.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/HSE-22-139	Request for Security Personnel for Chinese Office Alamgeer Plaza Dasu	
241.	09.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/HSE-22-140	Resubmission of ES-PAK Documents for Environmental Monitoring.KKH-01	
242.	10.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/HSE-22-141	Initial and RCA Report of Fire Incident at Shaal Camp K3.KKH-01	
243.	12.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/HSE-22-142	Request for Closure of NCR # 6 KKH-01	
244.	12.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/HSE-22-143	Submission of Revised RCA of Fire Incident at Kaigah Workshop No 48 KKH-01	
245.	12.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/HSE-22-144	Monthly EHS Monitoring Report No 83 November 2022 KKH-01	
246.	13.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/-22-149	Submission of Construction Program and Equipment List KKH-01	
247.	12.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/HSE-22-145	Initial Incident Report # 50, First Aid Case	
248.	14.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/-22-150	Resubmission of Drawing and Quantity & Costing for Uchar Camp	
249.	14.12.22	CCECC/PAK/Dasu-HPP/ KKH-01&RAR-01/-22-016	Purchase of Laboratory Equipment	
250.	15.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/-22-151	Removal of Electrical Pole at K0+669 at Khushi Bypass	
251.	15.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/HSE-22-146	Request for Joint Inspection to Make Security Arrangement at CCECC Camp WAPDA Colony	
252.	16.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/HSE-22-147	Initial Incident Report # 51 ( Medical Treatment Case )	
253.	16.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/HSE-22-148	Request for Security Personnel for Chinese Office Alamgir Plaza Dasu	
254.	16.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/HSE-22-149	Fortnightly Explosive Record , 1-15 December 2022	
255.	17.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/22-WR-276	Submission of Weekly Progress Report ( 2nd July to 15th July , 2022 )	
256.	17.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/22-WR-277	Submission of Weekly Progress Report ( 16th July to 30th July , 2022 )	
257.	17.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/22-WR-278	Submission of Weekly Progress Report ( 1st August to 15th August , 2022 )	
258.	17.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/22-WR-279	Submission of Weekly Progress Report ( 16th August to 30th August , 2022 )	
259.	17.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/22-WR-280	Submission of Weekly Progress Report ( 1st Sep to 15th Sep, 2022 )	
260.	17.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/22-WR-281	Submission of Weekly Progress Report ( 16th Sep to 30th Sep, 2022 )	
261.	17.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/22-WR-282	Submission of Weekly Progress Report ( 1st October 16th October , 2022 )	
262.	17.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/22-WR-283	Submission of Weekly Progress Report ( 16th October to 30th October ,	
263.	17.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/22-152	Approval of RCCP Mix Design and Placement Thereof for Trial Section at Khooshe Access Road , Dasu	
264.	18.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/22-153	Final Approval of Wet - Shotcrete Mix Design - Dasu	
265.	19.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/22-154	Resubmission of Drawings Quantities and Cost for Uchar Camp Backfilling KKH-01	
266.	21.12.22	CCECC/PAK/Dasu-HPP/ KKH-01&RAR-01/22-017	Approval of Granular Backfill Material at Kaigah for Komila bypass KKH-01	
267.	21.12.22	CCECC/PAK/Dasu-HPP/ KKH-01&RAR-01/22-018	Testing of Cement KKH-01	
268.	21.12.22	CCECC/PAK/Dasu-HPP/ KKH-01&RAR-01/22-019	Petrographic Analysis of Coarse Aggregate KKH-01	
269.	21.12.22	CCECC/PAK/Dasu-HPP/ KKH-01&RAR-01/22-020	Testing of HDPE Pipe KKH-01	
270.	21.12.22	CCECC/PAK/Dasu-HPP/ KKH-01&RAR-01/22-021	Testing of Wire Mesh Rock Bolt and Deformed Steel Bars KKH-01	

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Sr. No	Receiving Date	Letter No.	Subject	Remarks
271.	21.12.22	CCECC/PAK/Dasu-HPP/ KKH-01&RAR-01/22-022	Testing of Wire Mesh Rock Bolt and Deformed Steel Bars KKH-01	
272.	20.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/HSE-22-150	Submission of Tree Cutting Record KKH-01	
273.	21.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/22-157	Approval of Sub Base Material at K4 KKH-01	
274.	20.12.22	CCECC/PAK/Dasu-HPP/ KKH-01/22-158	Third Party Testing of Jointly Sampled Material KKH-01	
275.	21.12.22	CCECC/PAK/Dasu-HPP/ KKH-01&RAR-01/22-023	Request for the Approval of an Accredited KKH-01	
276.	25.12.22	CCECC/PAK/DASUFIELD/KKH-01/22-159	Approval for 6mm Wire-mesh in Logro-A Tunnel (K9)	
277.	27.12.22	CCECC/PAK/DASUFIELD/KKH-01/22-160	Inclusion of CGGC Grid Station About 2m at Khushee Bypass Right of Way (RD0+460 to 0+515) KKH-01	
278.	29.12.22	CCECC/PAK/DASUFIELD/KKH-01/22-162	Submission of Interim Payment Application No.29 KKH-01	
279.	29.12.22	CCECC/PAK/DASUFIELD/KKH-01/22-161	Submission of New Initial Performance Guarantee for Original Contract Value of KKH-01	
280.	31.12.22	CCECC/PAK/DASUFIELD/KKH-01/22-163	Request for Withdrawal of Management Cost Claim of KKH-01 EOT1 Submitted on 4th Nov 2022 KKH-01	
281.	31.12.22	CCECC/PAK/DASUFIELD/KKH-01/22-164	Request for Approval of 6mm Wire mesh Instead of 8mm wire mesh in Grade IV and Grade V Surrounding Rock KKH-01	
<b>2.4. Dasu-KKH-02</b>				
<b>Dasu Office</b>				
282.	02.12.22	CGGC/KKH-02/TD/DHC-317	Clarification on Super - Elevation and Widening Index Used for KKH -02 Shop Drawing	
283.	04.12.22	CGGC/KKH-02/TD/DHC-318	The Reply to Request for Design Review for Preliminary Layout of Tunnels and Bridges	
284.	05.12.22	CGGC/KKH-02/CD/DHC-319	Submission of the Statement Application for IPC 03 of KKH-02	
285.	06.12.22	CGGC/KKH-02/ED/DHC-320	Weekly Progress Report	
286.	06.12.22	CGGC/KKH-02/ED/DHC-321	Blasting Plan in Next Week of KKH-02	
287.	06.12.22	CGGC/KKH-02/ED/DHC-322	Submission of Evidence of the Premium Paid ( Contractor's All Risk ) for Dasu KKH-02	
288.	05.12.22	CGGC/KKH-02/ED/DHC-319	Submission of the Statement Application for IPC 03 of KKH-02	
289.	07.12.22	CGGC/KKH-02/HRD/DHC-323	Submission of Staff Information List.KKH-02	
290.	08.12.22	CGGC/KKH-02/HSED/DHC-324	Initial Incident Report at K-47 of KKH-02	
291.	14.12.22	CGGC/KKH-02/TD/DHC-325	Submission of Variation Proposal for Varied Works of KKH-02	
292.	13.12.22	CGGC/KKH-02/TD/DHC-326	Request to Carry Out the Joint Site Inspection for Varied Works ( 6 Bridges and 8 Tunnels).KKH-02	
293.	14.12.22	CGGC/KKH-02/ED/DHC-327	Weekly Progress Report KKH-02	
294.	14.12.22	CGGC/KKH-02/ED/DHC-328	Monthly Progress Report KKH-02	
295.	14.12.22	CGGC/KKH-02/ED/DHC-329	Blasting Plan In Next Week of KKH-02	
296.	14.12.22	CGGC/KKH-02/HSED/DHC-330	Submission of Tree Cutting Record	
297.	14.12.22	CGGC/KKH-02/ED/DHC-331	Request for the Payment of Interim Payment Certificate No 2 #	
298.	17.12.22	CGGC/KKH-02/ED/DHC-332	Technical Trip to People's Republic of China	
299.	17.12.22	CGGC/KKH-02/HSED/DHC-333	Submission of RCA -K -47 Accident Dated 05.12.22	
300.	20.12.22	CGGC/KKH-02/HSED/DHC-334	Initial Incident Report at K-47 of KKH-02	
301.	20.12.22	CGGC/KKH-02/ED/DHC-335	Blasting Plan in Next Week of KKH-02 (2022.12.19-2022.12.25)	
302.	20.12.22	CGGC/KKH-02/ED/DHC-336	Report on the Delay in Land Handover KKH-02	
303.	20.12.22	CGGC/KKH-02/ED/DHC-337	Weekly Progress Report of KKH-02 (2022.12.12-2022.12.18)	
304.	20.12.22	CGGC/KKH-02/ED/DHC-338	Confirmation for Minutes of Meeting KKH-02	
305.	20.12.22	CGGC/KKH-02/TD/DHC-339	Reply to Reminder of Submission of Contract Program of KKH-02	
306.	21.12.22	CGGC/KKH-02/HSED/DHC-340	Submission of Oil Spill and Dust Incident Report K-34 KKH-02	
307.	23.12.22	CGGC/KKH-02/HSED/DHC-341	Letter on New Working Site KKH-02	
308.	24.12.22	CGGC/KKH-02/CD/DHC-342	Claims for Additional Costs and EOT Resulting From Delay in Lands Handover KKH-02	
309.	24.12.22	CGGC/KKH-02/HSED/DHC-343	Occupational Health and Safety Report for November 2022 KKH-02	
310.	27.12.22	CGGC/KKH-02/HSED/DHC-344	Initial Incident Report at K-34 of KKH-02	
311.	27.12.22	CGGC/KKH-02/ED/DHC-345	Weekly Progress Report (2022.12.19-2022.12.25)	
312.	27.12.22	CGGC/KKH-02/TD/DHC-346	Reply to Updated Status of Land Handover for KKH-02 (346)	
313.	28.12.22	CGGC/KKH-02/ED/DHC-347	Construction Activities at K31 KKH-02	
314.	29.12.22	CGGC/KKH-02/TD/DHC-348	Submission of Method statement for the Earthwork (Revision-01) of KKH-02	
315.	30.12.22	CGGC/KKH-02/ED/DHC-349	Request for the Payment of 3# Interim Payment Certificate of KKH-02	
316.	31.12.22	CGGC/KKH-02/HSED/DHC-350	Submission of Document Required to Facilitate the Incident Investigation KKH-02	
317.	31.12.22	CGGC/KKH-02/CD/DHC-351	Submission of The Statement Application for IPC04 of KKH-02	
<b>2.5. Dasu-TL-01</b>				
<b>Dasu Office</b>				
318.	01.12.22	PC/Dasusite/TL-01/2022-221	Request for Inspection of Control Cables of Grid Station	
319.	01.12.22	PC/Dasusite/TL-01/2022-222	Submission of List of Vehicles for the Month of November , 2022	
320.	01.12.22	PC/Dasusite/TL-01/2022-223	Data List of In-Migrants- Pak Workforce & Daily Wagers Data for the Month of November, 2022 TL-01	
321.	02.12.22	PC/Dasusite/TL-01/2022-224	Submission of Monthly Progress Report for November 2022	
322.	02.12.22	PC/Dasusite/TL-01/2022-225	Extension of Performance Guarantee	
323.	05.12.22	PC/Dasusite/TL-01/2022-226	Submission of Weekly Progress Report	
324.	06.12.22	PC/Dasusite/TL-01/2022-227	Stoppage of Work by Hand Owner at Access Road	
325.	09.12.22	PC/Dasusite/TL-01/2022-228	Submission of Revised Drawing of Foundation Layout Plan.TL-01	
326.	09.12.22	PC/Dasusite/TL-01/2022-229	Submission of Revised Drawing of Access Road for Grid Station.TL-01	
327.	10.12.22	PC/Dasusite/TL-01/2022-230	Submission of 73th Health Safety & Environment (HSE) Report for the Month of November 2022.TL-01	
328.	11.12.22	PC/Dasusite/TL-01/2022-231	Submission of Extended Insurance Policies.TL-01	
329.	12.12.22	PC/Dasusite/TL-01/2022-232	Submission of Weekly Progress Report.TL-01	
330.	12.12.22	PC/Dasusite/TL-01/2022-233	Submission of Evidence of Warning Letter to Management About Not Provision of Safe Construction Activites.TL-01	

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**Appendix E [8/22]**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
331.	15.12.22	PC/Dasusite/TL-01/2022-234	Submission of Contractor's Claim -Compensation Due to Usage of Land Owner's Labour	
332.	16.12.22	PC/Dasusite/TL-01/2022-235	Request for Approval of Zinc Coated Spray ( WL 739 )	
333.	16.12.22	PC/Dasusite/TL-01/2022-236	Row Issue at Upper -Lower Kohistan and Palas Area	
334.	17.12.22	PC/Dasusite/TL-01/2022-009	Submission of Invoices and Requisite Documentations for Claiming Reimbursement Payment of Installation of Line Material	
335.	20.12.22	PC/Dasusite/TL-01/2022-237	Responsibility and Authority in the Absence of Project Manager TL-01	
336.	24.12.22	PC/Dasusite/TL-01/2022-238	Submission of Approved Revised Drawing of Foundation Layout Plan of Grid Station TL-01	
337.	26.12.22	PC/Dasusite/TL-01/2022-239	Submission of Weekly Progress Report TL-01	
338.	26.12.22	PC/Dasusite/TL-01/2022-240	Submission of Weekly Progress Report TL-01	
<b>2.6. Dasu-MW-01</b>				
<b>Dasu-Office</b>				
339.	01.12.22	CGGC/MW-01/TD/DHC-2662	Submission of Method Statement of the Cavity Grounding of Diversion Tunnel Arch ( D2 )	
340.	01.12.22	CGGC/MW-01/TD/DHC-2663	Reply the Comments to HSS Processing Plant General Layout R3 ( HSS )	
341.	02.12.22	CGGC/MW-01/ED/DHC-2664	Report on the Delay in land Handover	
342.	01.12.22	CGGC/MW-01/ED/DHC-2665	Weekly Progress Report of MW-01	
343.	02.12.22	CGGC/MW-01/TD/DHC-2666	Reply to the Engineer Instruction -Fence Construction around the Disputed Areas of KASS Camp	
344.	02.12.22	CGGC/MW-01/TD/DHC-2667	Reply to Embedded Gate Parts of Diversion Tunnel A ( HSS )	
345.	02.12.22	CGGC/MW-01/TD/DHC-2668	Submission of the Design Documents of the Transmission Line D4 ( MW-01 & MW-02 )	
346.	02.12.22	CGGC/MW-01/TD/DHC-2669	Submission of the for Material Testing in Third -Party in November	
347.	02.12.22	CGGC/MW-01/TD/DHC-2670	Submission of the General Layout of Live Camp for Main Work Construction Dasu HPP ( D2 )	
348.	03.12.22	CGGC/MW-01/ED/DHC-2671	Reply of Utilization of Kass Spoil Area by the Other Contractor ( MW-01)	
349.	03.12.22	CGGC/MW-01/HSED/DHC-2672	Initial Incident Report	
350.	04.12.22	CGGC/MW-01/HSED/DHC-2674	Letter for Requesting the Special Traveling from Hattian to Dasu	
351.	04.12.22	CGGC/MW-01/ED/DHC-2673	Blasting Plan In Next Week of MW-01	
352.	05.12.22	CGGC/MW-01/TD/DHC-2675	Submission of the Convergence Measurements Data of MW-01 in November 2022	
353.	05.12.22	CGGC/MW-01/TD/DHC-2676	Submission of Topographic Survey Data and Drawings of Diversion Tunnel Outlet	
354.	05.12.22	CGGC/MW-01/TD/DHC-2677	Submission of Method Statement of the Second Stage Concrete Pouring of the Diversion Tunnel Gate Shaft	
355.	05.12.22	CGGC/MW-01/TD/DHC-2678	Invitation Letter on Joint Visit to the Wire Manufacturer ( KB Steel )	
356.	06.12.22	CGGC/MW-01/CD/DHC-2679	Submission of the Statement Application for IPC 34 of MW-01	
357.	07.12.22	CGGC/MW-01/HSED/DHC-2680	Initial Incident Report for DTB Inlet.MW-01	
358.	06.12.22	CGGC/MW-01/TD/DHC-2681	Submission of Method Statement of the Cavity Grouting of Diversion Tunnel Arch (D3).MW-01	
359.	07.12.22	CGGC/MW-01/HRD/DHC-2682	Submission of Staff Information List.MW-01	
360.	08.12.22	CGGC/MW-01/CD/DHC-2683	Payment of Watch Tower Sentry Posts Crushing Plant at Uchar Site.MW-01	
361.	08.12.22	CGGC/MW-01/ED/DHC-2684	Weekly Progress Report of MW-01	
362.	08.12.22	CGGC/MW-01/ED/DHC-2685	Report on the Delay in Land Handover.MW-01	
363.	10.12.22	CGGC/MW-01/TD/DHC-2686	Self-Compacting Concrete Mix Design (7 Days Strength).MW-01	
364.	10.12.22	CGGC/MW-01/TD/DHC-2687	Submission of Third labs Test Report of FCCL Samples.MW-01	
365.	10.12.22	CGGC/MW-01/TD/DHC-2688	Reply of Optional Requirements of ASTM C618 for Natural Pozzolan Source 1.MW-01	
366.	10.12.22	CGGC/MW-01/TD/DHC-2689	Submit the Test Report of Rocks for Petrographic Analysis and Alkali Aggregate Reaction Test in Third Party.MW-01	
367.	11.12.22	CGGC/MW-01/TD/DHC-2690	Method Statement of River Channel Dredging of the Diversion Tunnel Outlet.MW-01	
368.	12.12.22	CGGC/MW-01/ED/DHC-2691	Report on the Hindrance of the Right Bank Cable Platform.MW-01	
369.	11.12.22	CGGC/MW-01/ED/DHC-2692	Blasting Plan in Next Week of MW-01	
370.	13.12.22	CGGC/MW-01/TD/DHC-2693	Submission of Method Statement of the Second Stage Concrete Pouring of the Diversion Tunnel Gate Shaft (D2).MW-01	
371.	15.12.22	CGGC/MW-01/CD/DHC-2694	Acceleration Award Against Key Milestone of River Closure	
372.	16.12.22	CGGC/MW-01/TD/DHC-2695	M10 Masonry Mortar Mix Design	
373.	15.12.22	CGGC/MW-01/ED/DHC-2696	Weekly Progress Report of MW-01	
374.	16.12.22	CGGC/MW-01/HSED/DHC-2697	Reply to Shifting of 150 Chinese by the Contractor M-S CGGC to Kass Camp	
375.	16.12.22	CGGC/MW-01/HSED/DHC-2698	Monthly OHS Report for November 2022	
376.	16.12.22	CGGC/MW-01/HSED/DHC-2699	Reply for the NCR Regarding Uchar New Crush Plant	
377.	16.12.22	CGGC/MW-01/HSED/DHC-2700	Incident Investigation Report for DTB Inlet	
378.	16.12.22	CGGC/MW-01/HSED/DHC-2701	Incident Investigation Report for New Crushing Plant	
379.	17.12.22	CGGC/MW-01/TD/DHC-2702	Submission of the Structural Calculation and Concrete Outline ( D2 ) of Diversion Tunnel Inlet Hoist Frame	
380.	17.12.22	CGGC/MW-01/TD/DHC-2703	Submission of Damage Report (4th Part ) for Guide Frames of Diversion Tunnel A ( HSS )	
381.	17.12.22	CGGC/MW-01/TD/DHC-2704	Submission of Method Statement of Diversion Tunnel Cofferdam Removal	
382.	17.12.22	CGGC/MW-01/CD/DHC-2705	The Interest on Payment Delayed	
383.	18.12.22	CGGC/MW-01/HSED/DHC-2706	Submission of the Monthly Environment Report in September 2022 for MW-01	
384.	19.12.22	CGGC/MW-01/TD/DHC-2707	Fauji LAC Low slump 30-50mm A25,A20,A15 Concrete mix design (28days) MW-01	
385.	19.12.22	CGGC/MW-01/CD/DHC-2708	Additional Cost due to Change in legislation MW-01	
386.	19.12.22	CGGC/MW-01/ED/DHC-2709	A Report on the Work Hindrance of the Right Bank MW-01	
387.	19.12.22	CGGC/MW-01/ED/DHC-2710	Blasting Plan in Next Week of MW-01 (2022.12.19-2022.12.25)	

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**Appendix E [9/22]**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
388.	20.12.22	CGGC/MW-01/CD/DHC-2711	Request The Engineer to Approve the EOT Cost Claim to Release the Contractors Cash Flow Pressure MW-01	
389.	21.12.22	CGGC/MW-01/TD/DHC-2712	Construction Proposal for Adding Clay Wall at the Diversion Tunnel Outlet MW-01	
390.	21.12.22	CGGC/MW-01/TD/DHC-2713	Submission of Construction Drawings of Watch Towers and Main Gate of 1# Crushing Plant MW-01	
391.	22.12.22	CGGC/MW-01/EMD/DHC-2714	Inspection Report of CR2 Generator MW-01	
392.	22.12.22	CGGC/MW-01/TD/DHC-2715	Method Statement of River Channel Dredging of the Diversion Tunnel Outlet (D2) MW-01	
393.	21.12.22	CGGC/MW-01/ED/DHC-2716	Reply to Construction Works for 2# RCC Batching Plant in Siglo Area MW-01	
394.	21.12.22	CGGC/MW-01/ED/DHC-2718	Weekly Progress Report of MW-01 (2022.12.12-2022.12.18)	
395.	22.12.22	CGGC/MW-01/ED/DHC-2717	Monthly Progress Report (MW-01)	
396.	23.12.22	CGGC/MW-01/ED/DHC-2719	Letter Regarding the Local Labor Beating Threatening Non-local Labor Crushing Work Stoppage MW-01	
397.	23.12.22	CGGC/MW-01/HSED/DHC-2720	Reply to the NCR Regarding Failure to Submit RCA of Incident with Stipulated timeframe to OHSMP MW-01	
398.	23.12.22	CGGC/MW-01/HSED/DHC-2721	Submission of the Actions Closeout of the Uchar Crush Plant Incident Dated 3rd December 2022 MW-01	
399.	23.12.22	CGGC/MW-01/HSED/DHC-2722	Submission of the Actions Closeout of the DTB Inlet Incident Dated 6th December 2022 MW-01	
400.	24.12.22	CGGC/MW-01/ED/DHC-2723	Report on the Work Hindrance of the Downstream Explosive Magazine MW-01	
401.	24.12.22	CGGC/MW-01/HRD/DHC-2724	Delegation of Power as MW-01 Manager	
402.	26.12.22	CGGC/MW-01/ED/DHC-2725	Blasting Plan in Next Week of MW-01	
403.	28.12.22	CGGC/MW-01/EMD/DHC-2726	Acceptance Process for the Guide Frames of DT-A Repaired in SK MW-01	
404.	26.12.22	CGGC/MW-01/TD/DHC-2728	Submission of Improve Method for Interference Between Side steel State and Side Reinforcement on Diversion tunnel B MW-01	
405.	27.12.22	CGGC/MW-01/TD/DHC-2729	Reply of Drawing Issue for Construction Diversion Tunnel B - Outlet Surface Protection MW-01	
406.	27.12.22	CGGC/MW-01/TD/DHC-2730	-Submission of Replacing the Model of The Nuclear Density-Humidity Gauge MW-01	
407.	27.12.22	CGGC/MW-01/TD/DHC-2731	Submission the Third-Party Test Results of Material in October MW-01	
408.	28.12.22	CGGC/MW-01/HSED/DHC-2727	Submission of Required Documents for Third-Party Environmental Monitoring Laboratory MW-01	
409.	28.12.22	CGGC/MW-01/CD/DHC-2732	Extension for the Insurance due to the Extension of Time MW-01	
410.	28.12.22	CGGC/MW-01/HSED/DHC-2733	Submission of Resume of Qualified OHS Supervisors for the Night Shift MW-01 (2733)	
411.	28.12.22	CGGC/MW-01/TD/DHC-2734	Submission of Fauji LAC Self-compacting Concrete Mix Design MW-01	
412.	29.12.22	CGGC/MW-01/ED/DHC-2735	Letter on the Construction of the 2# Crushing Plant MW-01	
413.	29.12.22	CGGC/MW-01/ED/DHC-2736	Report on the Road Hindrance to Right Bank Cofferdam MW-01	
414.	29.12.22	CGGC/MW-01/ED/DHC-2737	Weekly Progress Report of MW-01 (2022.12.19-2022.12.25)	
415.	29.12.22	CGGC/MW-01/CD/DHC-2738	Additional Cost due to Change in Legislation MW-01	
416.	30.12.22	CGGC/MW-01/ED/DHC-2739	Submission of NOC for the Uchar Crush Plant MW-01	
<b>2.7. Dasu-MW-02</b>				
<b>Dasu-Office</b>				
417.	02.12.22	CGGC/MW-02/ED/DHC-1957	Report on the Delay in Land Handover	
418.	01.12.22	CGGC/MW-02/ED/DHC-1958	Weekly Progress Report of MW-02	
419.	02.12.22	CGGC/MW-02/TD/DHC-1959	Submission of the Plan for Material Testing in Third-Party in November	
420.	04.12.22	CGGC/MW-02/ED/DHC-1960	Blasting Plan of MW-02	
421.	05.12.22	CGGC/MW-02/TD/DHC-1961	Submission of the Convergence Measurements Data of MW-02 in November 2022	
422.	05.12.22	CGGC/MW-02/TD/DHC-1962	Submission of Summary Report of PS Tendon Trials in Transformer Cavern	
423.	06.12.22	CGGC/MW-02/CD/DHC-1963	Submission of the Statement Application for IPC 34 of MW-02	
424.	07.12.22	CGGC/MW-02/HRD/DHC-1964	Submission of Staff Information List.MW-02	
425.	08.12.22	CGGC/MW-02/ED/DHC-1965	Weekly Progress Report of MW-02	
426.	08.12.22	CGGC/MW-02/ED/DHC-1966	Report on the Delay in Land Handover.MW-02	
427.	08.12.22	CGGC/MW-02/TD/DHC-1967	Reply of Issue of Construction Drawings for MW-02 GIL Tunnel.MW-02	
428.	10.12.22	CGGC/MW-02/TD/DHC-1968	Submission of Third Labs Test Report of FCCL Samples.MW-02	
429.	10.12.22	CGGC/MW-02/TD/DHC-1969	Submit the Test Report of Rocks for Petrographic Analysis and Alkali Aggregate Reaction Test in Third Party.MW-02	
430.	11.12.22	CGGC/MW-02/TD/DHC-1970	Reply the Engineers Comments on Proposal of Diversion Public Traffic Road KKH at Tailrace Tunnel Outlet.MW-02	
431.	10.12.22	CGGC/MW-02/TD/DHC-1971	Self-Compacting Concrete Mix Design (7 Days Strength).MW-02	
432.	11.12.22	CGGC/MW-02/ED/DHC-1972	Blasting Plan of MW-02	
433.	13.12.22	CGGC/MW-02/TD/DHC-1973	Submission of the Construction Method Statement of Post-Tensioned Tendon (D2).MW-02	
434.	13.12.22	CGGC/MW-02/CD/DHC-1974	The Payment of the Rebar Mesh in Powerhouse and Transformer.MW-02	
435.	15.12.22	CGGC/MW-02/TD/DHC-1975	Weekly Progress Report of MW-02	
436.	16.12.22	CGGC/MW-02/TD/DHC-1976	16.12.22-5816-M10 Masonry Mortar Mix Design ( 1976 )	
437.	16.12.22	CGGC/MW-02/TD/DHC-1977	Submission of the of Transforming Dump Truck into Mobile Construction Platform	
438.	17.12.22	CGGC/MW-02/CD/DHC-1978	The Interest on Payment Delayed	
439.	18.12.22	CGGC/MW-02/TD/DHC-1979	Submission of the Concrete Construction Method Statement of 1# Drainage Tunnel and Exhaust Tunnel Invert Slab (D1) MW-0	
440.	18.12.22	CGGC/MW-02/TD/DHC-1980	Submission of the Concrete Construction Method Statement of 2# Penstock Adit Plugging Section Invert Slab (D1) MW-02	



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**Appendix E [10/22]**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
441.	18.12.22	CGGC/MW-02/TD/DHC-1981	Submission of the Excavation and Support Method Statement of Power House Exhaust Shaft (D3)	
442.	18.12.22	CGGC/MW-02/HSED/DHC-1982	Submission of the Monthly Environment Report in September 2022 for MW-02	
443.	18.12.22	CGGC/MW-02/HSED/DHC-1983	Monthly OHS Report for November 2022 MW-02	
444.	18.12.22	CGGC/MW-02/HSED/DHC-1984	Fauji LAC Low slump 30~50mm A25,A20,A15 Concrete mix design (28days) MW-02	
445.	19.12.22	CGGC/MW-02/CD/DHC-1985	Additional Cost due to Change in legislation MW-02	
446.	19.12.22	CGGC/MW-02/ED/DHC-1986	Blasting Plan in Next Week of MW-02	
447.	20.12.22	CGGC/MW-02/CD/DHC-1987	LNG Tanker Overturn - Engineers Determination MW-02	
448.	20.12.22	CGGC/MW-02/CD/DHC-1988	Request The Engineer to Approve the EOT Cost Claim to Release the Contractors Cash Flow Pressure MW-02	
449.	21.12.22	CGGC/MW-02/ED/DHC-1990	Weekly Progress Report of MW-02 (2022.12.12-2022.12.18)	
450.	22.12.22	CGGC/MW-02/ED/DHC-1989	Monthly Progress Report (MW-02)	
451.	23.12.22	CGGC/MW-02/TD/DHC-1991	Request for Issuance of Pending Drawings for Transformer Cavern below El.772.5 MW-02	
452.	23.12.22	CGGC/MW-02/TD/DHC-1992	Submission of the lift Schedule for the Secondary Concrete and Construction Layout Plan in Powerhouse	
453.	23.12.22	CGGC/MW-02/ED/DHC-1993	Letter Regarding the Local Labor Beating Threatening Non-local Labor Crushing Work Stoppage MW-02	
454.	23.12.22	CGGC/MW-02/ED/DHC-1994	Submission of the Construction Plan of Post-tensioned Tendon MW-02	
455.	26.12.22	CGGC/MW-02/ED/DHC-1995	Blasting Plan of MW-02	
456.	27.12.22	CGGC/MW-02/TD/DHC-1996	Submission the Third-Party Test Results of Material in October MW-02	
457.	27.12.22	CGGC/MW-02/TD/DHC-1997	Visa Invitation Letter MW-02	
458.	28.12.22	CGGC/MW-02/CD/DHC-1998	Extension for the Insurance due to the Extension of Time MW-02	
459.	28.12.22	CGGC/MW-02/CD/DHC-1999	Submission of Fuji LAC Self-compacting Concrete Mix Design MW-02	
460.	29.12.22	CGGC/MW-02/CD/DHC-2000	Submit KB Steel Wire Third Party Test Report MW-02	
461.	29.12.22	CGGC/MW-02/ED/DHC-2001	Weekly Progress Report of MW-02 (2022.12.19-2022.12.25)	
462.	29.12.22	CGGC/MW-02/CD/DHC-2002	Additional Cost due to Change in Legislation MW-02	
463.	31.12.22	CGGC/MW-02/TD/DHC-2003	Reply to the Engineers Comments Method Statement Proposal of Diversion Public Traffic Road KKH at Tailrace Tunnel Outlet MW-02	
<b>2.8. Dasu-LBRV-11</b>				
<b>Dasu-Office</b>				
464.	06.12.22	ZEG/DHC/LBRV-11/22-110	Submission of Prolongation Cost Claim for First Interim Extension of Time	
<b>2.9. Dasu-LBRV-12</b>				
<b>Dasu-Office</b>				
465.	06.12.22	ZEG/DHC/LBRV-12/22-34	Submission of Prolongation Cost Claim for First Interim Extension of Time.LBRV-12	
<b>2.10. PCI-01R</b>				
<b>Dasu- Office</b>				
466.	05.12.22	CGICOP-DASU-PCI-01R-PO-1602	Request for Payment IPC No.36	
467.	06.12.22	CGICOP-DASU-PCI-01R-PO-1603	Submission of Interim Payment Application #37	
468.	06.12.22	CGICOP-DASU-PCI-01R-PO-1604	Submission of Monthly Environmental Report Nov 2022.PCI-01R	
469.	06.12.22	CGICOP-DASU-PCI-01R-PO-1605	Submission of Environment Health and Safety Monthly Report Nov.2022.PCI-01R (	
470.	07.12.22	CGICOP-DASU-PCI-01R-PO-1606	Monthly Report for October 2022 of Basic Health Clinic.PCI-01R	
471.	08.12.22	CGICOP-DASU-PCI-01R-PO-1607	Monthly Report for the Month of November 2022.PCI-01R	
472.	07.12.22	CGICOP-DASU-PCI-01R-PO-1608	Monthly Report for November 2022 of Basic Health Clinic.PCI-01R	
473.	07.12.22	CGICOP-DASU-PCI-01R-PO-1609	Approval of Variation Order # 35 for Varied Works of Modification of Wardrobes Drawers for Sliding Arrangement.PCI-01R	
474.	09.12.22	CGICOP-DASU-PCI-01R-PO-1610	Response to Comments for 2nd Extension of Time (EOT-2) of PCI-01R	
475.	16.12.22	CGICOP-DASU-PCI-01R-PO-1613	Response to Engineer's Instruction	
476.	17.12.22	CGICOP-DASU-PCI-01R-PO-1614	Submission of Interim Payment Application # 38	
477.	18.12.22	CGICOP-DASU-PCI-01R-PO-1615	Response for Non-Compliance of Curing of P1 Road Concrete PCI-01R	
478.	18.12.22	CGICOP-DASU-PCI-01R-PO-1616	Notice for Delay in Issuance of Boundary Wall Design (160m)	
479.	18.12.22	CGICOP-DASU-PCI-01R-PO-1617	Notice for Work Stoppage at intake Area of the Water Supply Pump Station PCI-01R	
480.	19.12.22	CGICOP-DASU-PCI-01R-PO-1618	Submission of Variation Order # 37 for Varied Works of Construction of Supportive Boundary Wall for Project Office Building along the P1 Road Side PCI-01	
481.	19.12.22	CGICOP-DASU-PCI-01R-PO-1619	Submission of Program for Varied Works of Slope Protection at Choochange-1 Resettlement Village Site PCI-01R	
482.	20.12.22	CGICOP-DASU-PCI-01R-PO-1621	Notice for Work Stoppage at Septic Tank Type A near New KKH (PCI-01R)	
483.	20.12.22	CGICOP-DASU-PCI-01R-PO-1623	Request for Manufacturer MIS Transfopower Drawing s & Data Sheet Approval for Power Distribution Transformer 200KVA & 400KVA	
484.	21.12.22	CGICOP-DASU-PCI-01R-PO-1624	Unjustified Payment Deduction of Manhole Covers in IPCs 33,34,35,36 PCI-01R	
485.	22.12.22	CGICOP-DASU-PCI-01R-PO-1625	Request for Payment IPC No.37 PCI-01R	
486.	22.12.22	CGICOP-DASU-PCI-01R-PO-1626	Delay in Issuance of Construction Drawings Location of Watch Tower Buildings PCI-01R	
487.	22.12.22	CGICOP-DASU-PCI-01R-PO-1627	Request for Approval Ms Fast Cables Technical Data sheets of Overhead HT & LT Conductor ACSR DOG & AAC WASP PCI-01R	
488.	22.12.22	CGICOP-DASU-PCI-01R-PO-1628	Request for Switches Supplier Approval Ms TJ Switches Updated Documents for Category-2 PCI-01R	
489.	24.12.22	CGICOP-DASU-PCI-01R-PO-1629	Notice for Delay due to Change in design for the Additional windows (22 nos) of the Wapda Project Office Building.PCI-01R	
490.	24.12.22	CGICOP-DASU-PCI-01R-PO-1630	Request to Change the Asphalt Roads to Concrete Roads for Category-1 & Category-2 Buildings PCI-01R	

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**Appendix E [11/22]**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
491.	25.12.22	CGICOP-DASU-PCI-01R-PO-1631	Request for approval of Brighto paints (pvt) for paint works of the Phase-B Colony Buildings PCI-01R	
492.	27.12.22	CGICOP-DASU-PCI-01R-PO-1633	Submission of Variation Order # 38 for Varied Works of Installation of Street Park & Security Lights Poles PCI-01R	
493.	27.12.22	CGICOP-DASU-PCI-01R-PO-1634	Submission of Variation Order # 39 for Varied Works of Plantation in Project office, Residence Category-1 & Residence Category-2 PCI-01R	
494.	27.12.22	CGICOP-DASU-PCI-01R-PO-1635	Submission of initial incident report of PCI-01R	
495.	28.12.22	CGICOP-DASU-PCI-01R-PO-1636	Notice for Taking Over of Project Office Building & Residence Category-1 PCI-01R	
496.	29.12.22	CGICOP-DASU-PCI-01R-PO-1637	Submission of Variation Order #36 for Varied Works of Water proofing Improvement by Applying Geo Composite PCI-01R	
497.	29.12.22	CGICOP-DASU-PCI-01R-PO-1638	Unjustified Payment Deduction of CCTV Cameras in IPC # 35 PCI-01R	
<b>2.11 Dasu RV</b>				
<b>Dasu Office</b>				
498.	02.12.22	KGL/Dasu-RV/22-186	Main Water Supply Line Drawings	
499.	09.12.22	KGL/Dasu-RV/22-188	Monthly Progress Report for the Month of November 2022 RV	
500.	10.12.22	KGL/Dasu-RV/22-189	Rain at Site.RV	
501.	20.12.22	KGL/Dasu-RV/22-191	Extension of the Contractors Insurance Policies RV	
502.	20.12.22	KGL/Dasu-RV/22-192	Request for Proceeding of Monthly Price Adjustment RV	
503.	20.12.22	KGL/Dasu-RV/22-192	Change in Contract Price Clause 37 RV	
504.	29.12.22	KGL/Dasu-RV/22-194	Interim Payment Certificate No.13 RV	
<b>2.12 Dasu EM-01</b>				
<b>Dasu Office</b>				
505.	02.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0435	Contractor's Environmental Action Plan ( CEAP ) V3 and OHSMP V3	
506.	01.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0451	-Response to Project Manager Letter No.399-16.11.22	
507.	01.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0454	About the DCS Spare Part List	
508.	02.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0456	About the CSCS Cubicle Specification and Station Aux LCU	
509.	02.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0458	Reminder on Delayed Approval for Contractor's Commercial Letters	
510.	02.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0459	Delayed Approval for List of Contractor's Technical Drawings	
511.	06.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0449	Clarification on Changes Related to Temporary Storage at Ghazi Barotha Power Station	
512.	06.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0457	Notice of Claim Due to Delayed Generation of Financial Instrument ( FI ) Number by Employer's Bank for Goods Declaration ( GD )	
513.	06.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0461	Submission of Contractor's DB Member for Approval - Contractor No.8 Separate Reminder	
514.	08.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0290	Response to DHCs Letter No.418-Submission of OHSMP and CVs of Personnel.EM-01	
515.	08.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0460	Reply Letter sn22-0365 and Re-submission Governor System Drawings.EM-01	
516.	09.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0462	Confirmation Request for Care and Custody Responsibility for Temporary Storage at Ghazi Barotha Power Station.EM-01	
517.	09.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0463	Submission of the Updated Dasu EM-01 Hydropower Plant Programme of Performance V1.10 and Associated Clarification Needed.EM-01	
518.	13.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0466	Vehicles Delivery Insurance and Registration Status of 6 Pick-Up from Toyota for the Employers and the Project Managers Staff.EM-01	
519.	14.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0225	Request for Providing Detail Concrete Pouring Program.EM-01	
520.	14.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0464	Generation of Financial Instrument (FI) Number by Employers Bank.EM-01	
521.	15.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0467	Response to Project Manager Letter No.419-03.12.22	
522.	16.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0468	Dasu Generator Stator Winding Assembly Rotor Lead Assembly and Grounding System	
523.	16.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0469	Reminder on Delayed Approval for Contractor's Commercial Letters	
524.	16.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0470	Delayed Approval for List of Contractor's Technical Drawings	
525.	20.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0465	Response to Project Manager Letter No.420-06.12.22	
526.	20.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0472	Follow up Generation of Financial Instrument Number (as of 20th Dec.2022)	
527.	21.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0471	Request for Dispute Board (DB) Member Nominated by Employer EM-01	
528.	21.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0474	Notification on the Absence of the Construction Supervisor and the Construction Chief Engineer from the Site EM-01	
529.	22.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0473	Follow Up Response to Deduction of Taxes from Contractors Invoices EM-01	
530.	23.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0475	Runner Crown & Band Casting Non-Conformity Report (NCR) Repair Record Submission EM-01	
531.	23.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0476	Dasu U2 Stay Ring FAT Notification for Inspection and Test Program EM-01	
532.	28.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0477	Monthly Progress Report EM-01 November 2022	
533.	28.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0478	Dasu Generator Air Water Cooling System, NDE Bearing Piping Assembly, DE bearing Piping Assembly, HP Oil System for Approval EM-01	
534.	29.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0480	Follow Up Response to Contractors Commercial Letters (as of 29th December 2022) EM-01	

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**Appendix E [12/22]**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
535.	29.12.22	Dasu-EM-01-LET-JV-WAPDA-DHC-2022-0479	Follow Up Approval on Addition of Suppliers to the Agreed Schedule T-4 EM-01	
<b>2.13 Dasu SA-01</b>				
<b>Dasu Office</b>				
536.	02.12.22	KGL/Dasu-SSKD/S/22-89	Relocation of Culvert C -3	
537.	06.12.22	KGL/Dasu-SSKD/S/22-90	Temporary Stock Pile	
538.	06.12.22	KGL/Dasu-SSKD/S/22-91	Possession of Site	
539.	08.12.22	KGL/Dasu-SSKD/S/22-92	Project Manager Rate Analysis RCC (1.2.4)	
540.	09.12.22	KGL/Dasu-SSKD/S/22-93	Monthly Progress Report for the Month of November 2022	
541.	10.12.22	KGL/Dasu-SSKD/S/22-94	Rain at Site	
542.	11.12.22	KGL/Dasu-SSKD/S/22-95	Project Manager Rate Analysis RCC (1:2:4)	
543.	21.12.22	KGL/Dasu-SSKD/S/22-96	Reminder for Temporary Stock Pile SA-01	
544.	21.12.22	KGL/Dasu-SSKD/S/22-97	Limitation for Construction SA-01	
<b>2.14 Dasu RB-014</b>				
<b>Dasu Office</b>				
545.	13.12.22	IKAN/WAPDA/Jalkot/189	Appointment of Adjudicator	
<b>2.15 Dasu LADP-MI-1</b>				
<b>Dasu Office</b>				
546.	02.12.22	KGL/Dasu-RHC/22-234	Possession of Site	
547.	08.12.22	KGL/Dasu-RHC/22-235	Submission of Monthly Progress Report for the Month of November 2022	
548.	10.12.22	KGL/Dasu-RHC/22-236	Rain at Site	
549.	21.12.22	KGL/Dasu-RHC/22-238	Extension of Time MI-1	
<b>2.16 Dasu LADP-MI-2</b>				
<b>Dasu Office</b>				
550.	08.12.22	KGL/Dasu-JMK/22-140	Submission of November 2022 Progress Report	
551.	08.12.22	KGL/Dasu-JMK/22-141	Rain at Site	
552.	22.12.22	KGL/Dasu-JMK/22-142	Continuation of General BOQ Items ESHS Officer, PPEs and First AID Box MI-2	
553.	23.12.22	KGL/Dasu-JMK/22-143	ESHS Officer Replacement MI-2	
<b>2.17 Dasu LADP-PKG-01</b>				
<b>Dasu Office</b>				
554.	01.12.22	IKAN/Dasu/LADP/PKG-1/094	Revised Policy- Contractor's All Risk ( Car ) , Contractor's plant & Machinery ( CPM ) & Workmen's Compensation ( WC ) Insurance Policies	
555.	10.12.22	IKAN/Dasu/LADP/PKG-1/095	Seo Razika Road Stoppage of Work at Shortened ROW at RD.0+460 to RD.0+500	
556.	12.12.22	IKAN/Dasu/LADP/PKG-1/096	Review of Environmental Monitoring Report for Ambient Air and Noise Sampling & Testing	
557.	16.12.22	IKAN/Dasu/LADP/PKG-1/097	Delay in Processing and Verification of IPC -03	
558.	20.12.22	IKAN/Dasu/LADP/PKG-1/098	Submission of Interim Payment Certificate No.04 PKG-01	

### Outgoing Letters from DHC

Sr. No	Date	Letter No.	Subject	Remarks
<b>1. To WAPDA</b>				
<b>1.1. General</b>				
<b>Lahore office</b>				
1.	02.12.22	DHC/LHR/WAPDA/aiq/ 22-162	Supplementary Invoices Remuneration Foreign Currency Portion Jan to Jul 2022-EURO	
2.	02.12.22	DHC/LHR/WAPDA/aiq/ 22-162	Supplementary Invoices Remuneration Foreign Currency Portion Jan to Jul 2022-JPY	
3.	02.12.22	DHC/LHR/WAPDA/aiq/ 22-163	Supplementary Statement Reimbursable Expenses Foreign Currency Portion Jan to Jul 2022-EURO	
4.	02.12.22	DHC/LHR/WAPDA/aiq/ 22-163	Supplementary Statement Reimbursable Expenses Foreign Currency Portion Jan to Jul 2022-JPY	
5.	05.12.22	DHC/LHR/WAPDA/aiq/ 22- 164	Statement Reimbursable Expenses Local Currency Portion for the Month of September 2022	
6.	07.12.22	DHC/LHR/WAPDA/mkk/ 22- 165	Request for Expedite Extension Case Multiple Entry Business Visa for Mr. Fidencio Mendez	
7.	13.12.22	DHC/LHR/WAPDA/mkk/ 22- 166	Request for Extension Multiple Entry Work Visa to Mr. Ali Murat Ozbek	
8.	12.12.22	DHC/LHR/WAPDA/zuh/ 22- 167	Request for Approval of Mr. Fazal Hussain against TBN Position of Sr Quantity Engineer-B (NP1)	
9.	12.12.22	DHC/LHR/WAPDA/zuh/ 22- 168	Request for Approval of Shifting of Mr. Fawad Nisar from LADP Position Sr Contract Engineer-A (LA26) to Sr Site Engineer Finance / Financial Expert/ Sr Contract Engineer (L127)	
10.	12.12.22	DHC/LHR/WAPDA/zuh/ 22- 169	Request for Approval of Shifting Rana Shahid Asghar LADP Position (LA12) to Sr Site Engineer (L65) Rep Kashan	
11.	12.12.22	DHC/LHR/WAPDA/zuh/ 22- 170	Request for Approval of Mr. Saqib Siddiq Sr Migration Management (L129) Replacement for Mr. Irfan Mahmood Janjua	
12.	13.12.22	DHC/LHR/WAPDA/zuh/ 22- 171	Request for Promotion of Mr. Muhammad Riaz RE(Transmission)K14 to Chief Contract Engineer-B/ Chief Geotechnical Engineer/ Chief Electrical K51	
13.	13.12.22	DHC/LHR/WAPDA/zuh/ 22- 172	Request Promotion of Mr. Naveed Anwar Khan RE (Road)(Assistant)K7 to Livelihood Specialist/ Chief Engineer (Road)(L111)	
14.	15.12.22	DHC/LHR/WAPDA/aiq/ 22- 173	Invoice for Arrears of Escalation of Local Currency Portion for the Month of October 2022	
15.	15.12.22	DHC/LHR/WAPDA/zuh/ 22- 174	Request for Promotion of Shah Jahan Sr Design Engineer-4 (Tunnels)/ Sr Engineer construction Planning & Costing L42 to Financial Expert/ Principal Engineer/ Construction Planning & Costing K63	
16.	15.12.22	DHC/LHR/WAPDA/zuh/ 22- 175	Request for Promotion Muhammad Akif Sr L44 to Principal Design Engineer Powerhouse L99	
17.	15.12.22	DHC/LHR/WAPDA/zuh/ 22- 176	Request Promotion Muhammad Rashid Sr L56 to Principal Design Engineer Infrastructure L125	
18.	15.12.22	DHC/LHR/WAPDA/aiq/ 22- 177	Payment to ISRIP Against Additional Cross Section Survey for Reservoir Sedimentation Study	
19.	19.12.22	DHC/LHR/WAPDA/zuh/ 22- 178	Request for Promotion of Mr. Habib Ullah against Upgraded Position from Sr Site Engineer (Powerhouse-1)to Principal Engineer (Powerhouse) L10	
20.	19.12.22	DHC/LHR/WAPDA/zuh/ 22- 179	Request for Promotion of Mr. Imran Hassan against Upgraded Position Sr to Principal Design Engineer (Diversion Dam) L36	
21.	19.12.22	DHC/LHR/WAPDA/aiq/ 22- 180	Payment against Maintenance of 4 No Physical Models Dasu HPP at HRS Nandipur Jul-22 to Jun-23	
22.	20.12.22	DHC/LHR/WAPDA/aiq/ 22- 181	Invoice Remuneration of Local Currency Portion for the Month of November 2022	
23.	28.12.22	DHC/LHR/WAPDA/zuh/ 22- 182	Request for Promotion Ali Akbar from Position Jr Hydrologist/ Jr. GIS Specialist L87 to Sr Document Controller/ Sr. Livelihood Specialist/ Sr GIS Specialist L60	
24.	23.12.22	DHC/LHR/WAPDA/zuh/ 22- 183	Consent of Mr. Muhammad Sohaib as Traffic Engineer LO-8	
25.	29.12.22	DHC/LHR/WAPDA/aiq/ 22- 184	Invoice (Remuneration) of Foreign Currency Portion for the Month of November 2022-EURO	
26.	29.12.22	DHC/LHR/WAPDA/aiq/ 22- 184	Invoice (Remuneration) of Foreign Currency Portion for the Month of November 2022-JPY	
27.	29.12.22	DHC/LHR/WAPDA/aiq/ 22- 185	Statement of Reimbursable Expenses Foreign Currency Portion for the Month of November 2022-EURO	
28.	29.12.22	DHC/LHR/WAPDA/aiq/ 22- 185	Statement of Reimbursable Expenses Foreign Currency Portion for the Month of November 2022-JPY	
29.	28.12.22	DHC/LHR/WAPDA/tm/ 22- 186	Submission of Draft Revised PC-I for Stage-I and Stage-II	
<b>Dasu office</b>				
30.	01.12.22	DHC/Dasu/WAPDA/GEN/sad/22-771	Application	
31.	01.12.22	DHC/Dasu/WAPDA/GEN/myb/22-772	Security Arrangements for Travelling of DHC Expatriates as a Special Case (Mr.Hojjat Hossainzadeh & Mr.Brol Murat Erdolu)	
32.	01.12.22	DHC/Dasu/WAPDA/GEN/sad/22-773	Security Arrangements for Travelling of DHC Expatriates (Mr.Tateki Kan)	
33.	01.12.22	DHC/Dasu/WAPDA/GEN/sad/22-774	Security Arrangements for Travelling of DHC Expatriates (Seluck Genc)	
34.	01.12.22	DHC/Dasu/WAPDA/GEN/sad/22-775	Security Arrangements for Travelling of DHC Expatriates (Mr.S Masihullah Ahmade)	
35.	01.12.22	DHC/Dasu/WAPDA/GEN/sad/22-776	Security Arrangements for Travelling of DHC Expatriates (Mr Kato Sadahiro & Mr.Ishikawa Shinji)	
36.	01.12.22	DHC/Dasu/WAPDA/GEN/sad/22-777	Security Arrangements for Travelling of DHC Expatriates (Mr.Birol Murat)	
37.	01.12.22	DHC/Dasu/WAPDA/GEN/sad/22-778	-Security Arrangement for Travelling of DHC Expatriates (Mr.Ali Murat Ozbek)	
38.	01.12.22	DHC/Dasu/WAPDA/GEN/sad/22-779	Security Arrangements for Travelling of DHC Expatriates (Mr.Ali Murat Ozbek)	
39.	03.12.22	DHC/Dasu/WAPDA/GEN/you/22-780	Application	
40.	04.12.22	DHC/Dasu/WAPDA/GEN/you/22-781	Security Arrangements for Travelling of CGGC Expatriates	
41.	04.12.22	DHC/Dasu/WAPDA/GEN/you/22-782	Security Arrangements for Travelling of CCECC Expatriates	
42.	04.12.22	DHC/Dasu/WAPDA/GEN/you/22-783	Security Arrangements for Travelling of CCECC Expatriates	
43.	04.12.22	DHC/Dasu/WAPDA/GEN/you/22-784	Security Arrangements for Travelling of CGGC Expatriates	

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**Appendix E [14/22]**

Sr. No	Date	Letter No.	Subject	Remarks
44.	02.12.22	DHC/Dasu/WAPDA/GEN/amr/22-785	Application Regarding Self-Managed Relocation (SMR)	
45.	03.12.22	DHC/Dasu/WAPDA/GEN/amr/22-786	Request for Approval of 136 Additional Households Considered Under More Than one Shareholder Category for ESMR Package	
46.	03.12.22	DHC/Dasu/WAPDA/GEN/sad/22-787	GIS Verification of Land Parcels of Component Crush Plant Area Seo	
47.	03.12.22	DHC/Dasu/WAPDA/GEN/you/22-788	Management of Vehicles Attached with Different Sections of DHC Site Office	
48.	06.12.22	DHC/Dasu/WAPDA/GEN/sad/22-789	GIS Verification of Land Parcels of Component Shatiyal Limits to Shatiyal Nullah Area-3 Part A	
49.	06.12.22	DHC/Dasu/WAPDA/GEN/sad/22-790	Missing Area in Musavi of the Component LOR Shatiyal Limits to Shatiyal Nullah Area-2	
50.	06.12.22	DHC/Dasu/WAPDA/GEN/sad/22-791	Missing Area in Musavi of the Component LOR Shatiyal Limits to Shatiyal Nullah Area-1	
51.	06.12.22	DHC/Dasu/WAPDA/GEN/sad/22-792	GIS Verification of Land Parcels of Component Shatiyal Limits to Shatiyal Nullah Area-3 Part-B	
52.	06.12.22	DHC/Dasu/WAPDA/GEN/rob/22-793	Literacy Course for Women and Girls in Bari Rango Village	
53.	05.12.22	DHC/Dasu/WAPDA/GEN/tyo/22-794	DHC Board of Management Meeting Request of Meeting with GM-PD and Chairman WAPDA	
54.	06.12.22	DHC/Dasu/WAPDA/GEN/you/22-795	Installation of 2 X Barriers on KKH	
55.	07.12.22	DHC/Dasu/WAPDA/GEN/you/22-796	Security Arrangements for Travelling of CCECC Expatriates	
56.	07.12.22	DHC/Dasu/WAPDA/GEN/you/22-797	Security Arrangements for Travelling of CGGC Expatriates	
57.	08.12.22	DHC/Dasu/WAPDA/GEN/you/22-798	Security Arrangement for Travelling of CGGC Expatriates	
58.	08.12.22	DHC/Dasu/WAPDA/GEN/sad/22-799	Tentative Cost Estimate of Land in Respect of "Crush plant, Area Seo"	
59.	08.12.22	DHC/Dasu/WAPDA/GEN/sad/22-800	Tentative Cost Estimate of Land in Respect of "Dogah end Point to Gayal Nullah (Area-1)"	
60.	08.12.22	DHC/Dasu/WAPDA/GEN/sad/22-801	GIS Verification of Land Parcels of Component LOR Shatial Limits to Shatiyal Nullah, Area-4	
61.	09.12.22	DHC/Dasu/WAPDA/GEN/you22-802	Security Arrangement for Travelling of CGGC Expatriates	
62.	09.12.22	DHC/Dasu/WAPDA/GEN/you22-803	Security Arrangement for Travelling of CCECC Expatriates	
63.	09.12.22	DHC/Dasu/WAPDA/GEN/you22-804	Security Arrangement for Travelling of PCCC Expatriates	
64.	08.12.22	DHC/Dasu/WAPDA/GEN/you22-805	Redressal of Grievance of Mr. Saif UR Rehman Field Inspector DHC	
65.	09.12.22	DHC/Dasu/WAPDA/GEN/sad/22-806	GIS Verification of Land Parcels of Component LOR Shatiyal Nullah to Reservoir End Point, Area-1	
66.	09.12.22	DHC/Dasu/WAPDA/GEN/sad/22-807	Missing Area in Musavi of the Component "LOR Shatiyal Nullah to Reservoir End Point (Area-4).	
67.	09.12.22	DHC/Dasu/WAPDA/GEN/cad/22-808	Request for reply to Audit Observations of WAPDA Internal Audit for the FY: 2021-22 - Set 4	
68.	10.12.22	DHC/Dasu/WAPDA/GEN/you22-809	Security Arrangement for Travelling of CCECC Expatriates	
69.	10.12.22	DHC/Dasu/WAPDA/GEN/you22-810	Security Arrangement for Travelling of CGGC Expatriates	
70.	10.12.22	DHC/Dasu/WAPDA/GEN/you22-811	Security Arrangement for Travelling of CCECC Expatriates	
71.	10.12.22	DHC/Dasu/WAPDA/GEN/you22-812	Security Arrangements for travelling of DHC Expatriates (Mr. Neil Napoleon & Shuji Nakata)	
72.	10.12.22	DHC/Dasu/WAPDA/GEN/sad/22-813	Missing Area in Musavi of the Component "LOR Shatiyal Nullah to Reservoir End Point (Area-5).	
73.	10.12.22	DHC/Dasu/WAPDA/GEN/sad/22-814	Missing area in Musavi of the Component Shatiyal nullah to Reservoir End Point (Area-6)	
74.	10.12.22	DHC/Dasu/WAPDA/GEN/you22-815	Security Arrangement for Travelling of PCCC Expatriates	
75.	10.12.22	DHC/Dasu/WAPDA/GEN/zic/22-816	Engineer's reply on Consistent Environmental non Compliances at the Project Sites	
76.	12.12.22	DHC/Dasu/WAPDA/GEN/sad/22-817	GIS Verification of Land Parcels of Component LoR Shatial Nullah to Reservoir End Point Area-02	
77.	12.12.22	DHC/Dasu/WAPDA/GEN/sad/22-818	GIS Verification of Land Parcels of Component LOR Shatiyal Limits to Shatiyal Nullah, Area-5	
78.	12.12.22	DHC/Dasu/WAPDA/GEN/sad/22-819	Non-Availability of DHC Surveyor.	
79.	12.12.22	DHC/Dasu/WAPDA/GEN/myb/22-820	Security Arrangements for travelling of DHC Expatriates (Mr. jaun Carlos)	
80.	12.12.22	DHC/Dasu/WAPDA/GEN/myb/22-821	Security Arrangements for travelling of DHC Expatriates as a Special Case (Mr. Kato Sadahiro & Ishikawa Shinji)	
81.	12.12.22	DHC/Dasu/WAPDA/GEN/sad/22-822	Development of 14 Additional Plots In Resettlement Site Khushi-01	
82.	13.12.22	DHC/Dasu/WAPDA/GEN/you22-823	Security Arrangement for Travelling of CGGC Expatriates	
83.	13.12.22	DHC/Dasu/WAPDA/GEN/sad/22-824	GIS Verification of Land Parcels of Component LoR Shatial Nullah to Reservoir End Point Area-3	
84.	14.12.22	DHC/Dasu/WAPDA/GEN/myb/22-825	Security Arrangements for Travelling of DHC Expatriates (Mr. Miyazato Kato and Shinji)	
85.	14.12.22	DHC/Dasu/WAPDA/GEN/myb/22-826	Security Arrangements for travelling of DHC Expatriates (Mr. Canny and Neil White)	
86.	14.12.22	DHC/Dasu/WAPDA/GEN/myb/22-827	Security Arrangements for travelling of DHC Expatriates (Mr. S Masihullah & Huluk)	
87.	14.12.22	DHC/Dasu/WAPDA/GEN/you22-828	Security Arrangement for Travelling of CGGC Expatriates	
88.	14.12.22	DHC/Dasu/WAPDA/GEN/sad/22-829	GIS Verification of Land Parcels of Component Bailey Bridge Gumoon/Looter Right Side Area-2	
89.	14.12.22	DHC/Dasu/WAPDA/GEN/you22-830	Enquiry of Mr. Shafiq Ahmed SO Fazal Raheem for illegal Posting Bribery Based	
90.	15.12.22	DHC/Dasu/WAPDA/GEN/you22-831	Security Arrangement for Travelling of CGGC Expatriates	
91.	15.12.22	DHC/Dasu/WAPDA/GEN/you22-832	Security Arrangement for Travelling of CGICOP Expatriates	
92.	15.12.22	DHC/Dasu/WAPDA/GEN/tm/22-833	MPR No.100 for the Month of November 2022 under Assignment-B	
93.	15.12.22	DHC/Dasu/WAPDA/GEN/zic/22-834	31 <sup>st</sup> Environmental Progress Report For The Period from July to September 2022	
94.	16.12.22	DHC/Dasu/WAPDA/GEN/sad/22-836	Fortnightly Report on Due Payments of the Contractors to WAPDA	
95.	16.12.22	DHC/Dasu/WAPDA/GEN/sad/22-836	Revised Security Arrangements for travelling of DHC Expatriates	
96.	16.12.22	DHC/Dasu/WAPDA/GEN/sad/22-837	Joint Site Visit of Dogah End Point to Gayal Nullah in Response of Applications	
97.	16.12.22	DHC/Dasu/WAPDA/GEN/myb/22-838	Security Arrangements for travelling of DHC Expatriate as a Special Case	
98.	16.12.22	DHC/Dasu/WAPDA/GEN/you22-839	Security Arrangement for Travelling of CGICOP Expatriates	
99.	16.12.22	DHC/Dasu/WAPDA/GEN/nhs/22-840	Submission of 125 TRP Files of AHs who Opted Resettlement Sites	

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**Appendix E [15/22]**

Sr. No	Date	Letter No.	Subject	Remarks
100.	16.12.22	DHC/Dasu/WAPDA/GEN/amr/22-841	Water Supply Issue of Seven Under Construction Resettlement Sites	
101.	16.12.22	DHC/Dasu/WAPDA/GEN/amr/22-842	Exponential increase in number of AHHS in land Acquisition Components of Shatial, Harban Nullah. Gummo and Seer Gayal	
102.	16.12.22	DHC/Dasu/WAPDA/GEN/you/22-843	Security Arrangement for Travelling of ZEGL Expatriates	
103.	16.12.22	DHC/Dasu/WAPDA/GEN/you/22-844	Security Arrangement for Travelling of PCCC Expatriates	
104.	17.12.22	DHC/Dasu/WAPDA/GEN/you/22-845	Security Arrangement for Travelling of CGGC Expatriates	
105.	18.12.22	DHC/Dasu/WAPDA/GEN/you/22-846	Security Arrangement for Travelling of CGGC Expatriates	
106.	18.12.22	DHC/Dasu/WAPDA/GEN/you/22-847	Security Arrangement for Travelling of CCECC Expatriates	
107.	18.12.22	DHC/Dasu/WAPDA/GEN/you/22-848	Security Arrangement for Travelling of DHC Expatriates Special Case (Mr. Mendes & Fukawatari)	
108.	17.12.22	DHC/Dasu/WAPDA/GEN/amr/22-849	Relocation of Public Schools Affected from Dasu Hydropower Project	
109.	19.12.22	DHC/Dasu/WAPDA/GEN/you/22-850	Revised Security Arrangement for Travelling of DHC Expatriates	
110.	19.12.22	DHC/Dasu/WAPDA/GEN/you/22-851	Security Arrangement for Travelling of CGGC Expatriates	
111.	19.12.22	DHC/Dasu/WAPDA/GEN/sad22-852	GIS Verification of Land Parcels of Component Shatial Limits to Shatial Nullah Area-05	
112.	19.12.22	DHC/Dasu/WAPDA/GEN/sad22-853	GIS Verification of Land Parcels of Component LoR Shatial Nullah to End Point Area-01	
113.	19.12.22	DHC/Dasu/WAPDA/GEN/sad22-854	GIS Verification of Land Parcels of Component Shatial Limits to Shatial Nullah Area-04	
114.	19.12.22	DHC/Dasu/WAPDA/GEN/you/22-855	Security Arrangement for Travelling of DHC Expatriates	
115.	19.12.22	DHC/Dasu/WAPDA/GEN/you/22-856	Security Arrangement for Travelling of CCECC Expatriates	
116.	20.12.22	DHC/Dasu/WAPDA/GEN/you/22-857	Security Arrangement for Travelling of CCECC Expatriates	
117.	21.12.22	DHC/Dasu/WAPDA/GEN/you/22-858	Security Arrangement for Travelling of DHC Expatriates (Mr. Batuhan)	
118.	21.12.22	DHC/Dasu/WAPDA/GEN/sad/22-859	GIS Verification of Land Parcels of Component LOR Shatial Nullah to Reservoir End Point Area-2	
119.	21.12.22	DHC/Dasu/WAPDA/GEN/sad/22-859	GIS Verification of Land Parcels of Component LOR Shatial Limits to Shatial Nullah Area-3 Part-A	
120.	21.12.22	DHC/Dasu/WAPDA/GEN/sad/22-860	GIS Verification of Land Parcels of Component LOR Shatial Limits to Shatial Nullah Area-3 Part-A	
121.	21.12.22	DHC/Dasu/WAPDA/GEN/you/22-861	Security Arrangement for Travelling of PCCC Expatriates	
122.	21.12.22	DHC/Dasu/WAPDA/GEN/you/22-862	Security Arrangement for Travelling of CGGC Expatriates	
123.	22.12.22	DHC/Dasu/WAPDA/GEN/you/22-863	Security Arrangement for Travelling of CGGC Expatriates	
124.	22.12.22	DHC/Dasu/WAPDA/GEN/sad/22-864	GIS Verification of Land Parcels of Component Bailey Bridge Gumoon Looter (Right Side) Area-2	
125.	22.12.22	DHC/Dasu/WAPDA/GEN/you/22-865	Security Arrangement for Travelling of CCECC Expatriates	
126.	23.12.22	DHC/Dasu/WAPDA/GEN/sad/22-866	Request for revenue survey for new additional Land of solid waste area at kaigah at rd- 24k+24k+700.	
127.	24.12.22	DHC/Dasu/WAPDA/GEN/you/22-867	Security Arrangement for Travelling of CCECC Expatriates	
128.	24.12.22	DHC/Dasu/WAPDA/GEN/you/22-868	Security Arrangement for Travelling of CCECC Expatriates	
129.	25.12.22	DHC/Dasu/WAPDA/GEN/you/22-869	Security Arrangement for Travelling of CGGC Expatriates	
130.	25.12.22	DHC/Dasu/WAPDA/GEN/you/22-870	Security Arrangement for Travelling of CGGC Expatriates	
131.	25.12.22	DHC/Dasu/WAPDA/GEN/you/22-871	Revised Security Arrangement for Travelling of CCECC Expatriates	
132.	25.12.22	DHC/Dasu/WAPDA/GEN/you/22-872	Revised Security Arrangement for Travelling of CCECC Expatriates	
133.	24.12.22	DHC/Dasu/WAPDA/GEN/amr/22-873	Application Regarding Self-Managed Relocation (SMR)	
134.	25.12.22	DHC/Dasu/WAPDA/GEN/sad/22-874	Application Regarding GIS Report of LOR Shatiya Nullah Reservoir End Point Area-2	
135.	25.12.22	DHC/Dasu/WAPDA/GEN/zic/22-875	Engineers Reply on Request for Submission of Utilization Record of Coarse and Fine Aggregates	
136.	26.12.22	DHC/Dasu/WAPDA/GEN/you/22-876	Security Arrangements for Travelling of PCCC Expatriates	
137.	26.12.22	DHC/Dasu/WAPDA/GEN/you/22-877	Security Arrangements for Travelling of DHC Expatriates (Mr.Neil Napoleon Rafol & Hujjat Hussanzadeh)	
138.	26.12.22	DHC/Dasu/WAPDA/GEN/zic/22-878	Seeking of Advance on Contractual Provisions for Change in Experience Criteria for Environment Officer for the Contracts of CGGC	
139.	27.12.22	DHC/Dasu/WAPDA/GEN/zic/22-879	Development of Traffic Management Station at Kuza Banda and Related Matters Urgent Actions Analysis & Recommendations	
140.	27.12.22	DHC/Dasu/WAPDA/GEN/amr/22-880	Applications Regarding SMR Package	
141.	27.12.22	DHC/Dasu/WAPDA/GEN/you/22-881	Bullet Proof Vehicles for Foreigners	
142.	28.12.22	DHC/Dasu/WAPDA/GEN/sad/22-882	GIS Verification Observation I-R-O the Component Viz LOR Shatiyal Nullah to End Point of Reservoir Area-4	
143.	28.12.22	DHC/Dasu/WAPDA/GEN/sad/22-883	Application	
144.	28.12.22	DHC/Dasu/WAPDA/GEN/you/22-884	Security Arrangement for Travelling of CGGC Expatriates	
145.	28.12.22	DHC/Dasu/WAPDA/GEN/sad/22-885	Assessment Report of Built Up Property in Respect of GUI-E-Bagh Reservoir Area-1	
146.	28.12.22	DHC/Dasu/WAPDA/GEN/sad/22-886	Incorrect Orientation in Musavi of the Component LOR Shatiyal Nullah to Reservoir End Point (Area-6)	
147.	28.12.22	DHC/Dasu/WAPDA/GEN/you/22-887	Security Arrangement for Travelling of CGICOP Expatriates	
148.	28.12.22	DHC/Dasu/WAPDA/GEN/you/22-888	Security Arrangements for Travelling of CCECC Expatriates	
149.	29.12.22	DHC/Dasu/WAPDA/GEN/you/22-889	Revised Security Arrangements for Travelling of DHC Expatriates ( Mr.Neil Napoleon & Mr.Hojjat Hussainzadeh & Mr.Selcuk Genc)	
150.	30.12.22	DHC/Dasu/WAPDA/GEN/you/22-890	Revised Security Arrangements for Travelling of CCECC Expatriates	
151.	30.12.22	DHC/Dasu/WAPDA/GEN/you/22-891	Security Arrangements for Travelling of PCCC Expatriates	
152.	30.12.22	DHC/Dasu/WAPDA/GEN/you/22-892	Sharing of Present Employee List Along with Police Clearance Certificate of All Pakistani Staff Working under DHPP	
153.	31.12.22	DHC/Dasu/WAPDA/GEN/myb/22-893	Security Arrangements for Travelling of DHC Expatriate (Mr.Serkan Harmandar)	
154.	31.12.22	DHC/Dasu/WAPDA/GEN/myb/22-894	Security Arrangements for Travelling of DHC Expatriates (Mr.John Allen Gordon)	
155.	31.12.22	DHC/Dasu/WAPDA/GEN/myb/22-895	Security Arrangements for Travelling of DHC Expatriates (Mr.Tatsuya Miyazato & Mr.Masud Karim)	
156.	31.12.22	DHC/Dasu/WAPDA/GEN/myb/22-896	Security Arrangements for Travelling of DHC Expatriate as a Special Case (Mr.Takuji Kataoka)	
157.	31.12.22	DHC/Dasu/WAPDA/GEN/myb/22-897	Security Arrangements for Travelling of DHC Expatriates as a Special Case (Mr.Cem Aker & Mr.Burhan Arioiz)	

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**Appendix E [16/22]**

Sr. No	Date	Letter No.	Subject	Remarks
<b>1.2. Dasu-RAR-01</b>				
<b>Dasu office</b>				
158.	03.12.22	DHC/Dasu/WAPDA/RAR-01/cad/22-111	Contractors Request for The Payment of Cost Claim Against Extension of Insurance & Guarantees Determined by the Engineer.RAR-01	
159.	21.12.22	DHC/Dasu/WAPDA/RAR-01/bak/22-119	RAR-01 -Application	
160.	29.12.22	DHC/Dasu/WAPDA/RAR-01/PM/22-121	The Engineers Determination on Contractors Interim Cost Claim (Quantification) for On-Site Management Overhead Cost During Extended Time (EOT No.1 and 2).RAR-01	
<b>1.3. Dasu-KKH-01</b>				
<b>Dasu office</b>				
161.	03.12.22	DHC/Dasu/WAPDA/KKH-01/cad/22-241	Contractors Request for the Payment of Cost Claims Against Extension of Insurances & Guarantees Determined by the Engineer.KKH-01	
162.	10.12.22	DHC/Dasu/WAPDA/KKH-01/zic/22-248	Approval of Laboratory and 7th Quarterly Monitoring Plan of CCECC for KKH-01	
163.	17.12.22	DHC/Dasu/WAPDA/KKH-01/you/22-253	Request for Security Personnel for Chinese Office Alamgir Plaza Dasu KKH-01	
164.	17.12.22	DHC/Dasu/WAPDA/KKH-01/you/22-254	Request for Joint Inspection to Make Security Arrangements at CCECC Camp WAPDA Colony KKH-01	
165.	22.12.22	DHC/Dasu/WAPDA/KKH-01/nk/22-258	Schedule for Sample Delivery and Third Party Laboratory Testing, (KKH-01)	
<b>1.4. Dasu-KKH-02</b>				
<b>Dasu office</b>				
166.	23.12.22	DHC/Dasu/WAPDA/KKH-02/Okk/22-177	Revised Design Proposal for KKH-02 - 8 Tunnels and 6 Bridges KKH-02	
167.	26.12.22	DHC/Dasu/WAPDA/KKH-02/ohs/22-178	KKH-02 Initial Incident Flash Report-Level-4	
168.	27.12.22	DHC/Dasu/WAPDA/KKH-02/cad/22-181	Interim Payment Certificate No # 03.KKH-02	
169.				
170.				
<b>1.5. Dasu-TL-01</b>				
<b>Dasu office</b>				
171.	01.12.22	DHC/Dasu/WAPDA/TL-01/mrz/22-187	Shifting of Generators from Neelum Jhelum Hydropower Project Company	
172.	03.12.22	DHC/Dasu/WAPDA/TL-01/mrz/22-189	Interim Management Cost Claim for the Local Social Insurances of Chinese Staff- Project Managers Assessment.TL-01	
173.	02.12.22	DHC/Dasu/WAPDA/TL-01/mrz/22-190	Request for the Nomination of Person for Inspection of Control Cables of Grid Station.TL-01	
174.	03.12.22	DHC/Dasu/WAPDA/TL-01/mrz/22-191	Principle of Claim -Project Managers Assessment- Contractors Claim for Re-Handling of Excavated Material within the Grid Station.TL-01	
175.	07.12.22	DHC/Dasu/WAPDA/TL-01/mrz/22-194	Stoppage of Work by land owner at Access Road	
176.	17.12.22	DHC/Dasu/WAPDA/TL-01/mrz/22-201	ROW issue at Upper & Lower Kohistan and Palas Area	
177.	21.12.22	DHC/Dasu/WAPDA/TL-01/cad/22-203	Interim Payment Certificate IPC No.64 (Clarification)	
178.	26.12.22	DHC/Dasu/WAPDA/TL-01/cad/22-206	Submission of Extended Insurance Policies.TL-01	
179.	28.12.22	DHC/Dasu/WAPDA/TL-01/cad/22-207	Principle of Claim Project Managers Assessment Contractors Claim for Re-Handling of Excavated Material Within the Grid Station.TL-01	
<b>1.6. Dasu-MW-01</b>				
<b>Dasu Office</b>				
180.	03.12.22	DHC/Dasu/WAPDA/MW-01/jf/22-633	Necessity of Riverbed Excavation Near Diversion Tunnels Inlet and Access for the Excavation Works.MW-01	
181.	03.12.22	DHC/Dasu/WAPDA/MW-01/jf/22-634	Necessity and Cost of Additional Adit 3-2 for Future Maintenance and Possible Remedial Works of Diversion Tunnel.MW-01	
182.	02.12.22	DHC/Dasu/WAPDA/MW-01/nk/22-635	The Contractors Request for Confirmation on Whether the RCC Special Tests Can be Performed at the CMTL Laboratory.MW-01	
183.	03.12.22	DHC/Dasu/WAPDA/MW-01/PM/22-638	Replacing the Withheld Retention for the Completed Works by Guarantee.MW-01	
184.	06.12.22	DHC/Dasu/WAPDA/MW-01/you/22-642	Kass Camp Security Configuraion.MW-01	
185.	06.12.22	DHC/Dasu/WAPDA/MW-01/you/22-645	Schedule for Factory Visiting Inspection Sampling Sample Delivery and Third Party Laboratory Testing.MW-01	
186.	08.12.22	DHC/Dasu/WAPDA/MW-01/JF/22-648	Application of Conventional Concrete for Cutoff Wall of Upstream Starter Dam	
187.	12.12.22	DHC/Dasu/WAPDA/MW-01/cad/22-653	Engineer's Response to the Employer's Letter-Visit to Gini Chinese Camp Site by Director Security	
188.	13.12.22	DHC/Dasu/WAPDA/MW-01/cad/22-654	Confirmation of Status of Uchar Bridge Rectification	
189.	17.12.22	DHC/Dasu/WAPDA/MW-01/AO/22-671	Required Information for Security Facilities of the KASS Camp, MW-02	
190.	17.12.22	DHC/Dasu/WAPDA/MW-01/cad/22-672	Acceleration Award Against Key Milestone of River Closure	
191.	22.12.22	DHC/Dasu/WAPDA/MW-01/cad/22-683	Crushing and Batching Plant Claim	
192.	22.12.22	DHC/Dasu/WAPDA/MW-01/JF/22-684	Modified River Diversion Scheme	
193.	22.12.22	DHC/Dasu/WAPDA/MW-01/JF/22-686	The Contractor's Experience of Using CVC for Cutoff Wall in Other Project	
194.	23.12.22	DHC/Dasu/WAPDA/MW-01/nk/22-689	The Employer's Request to Provide Natural Pozzolan Testing Data for Diamer Basha Dam Project (DBDP)	
195.	28.12.22	DHC/Dasu/WAPDA/MW-01/ys/22-703	Information Regarding Interest on Payment Delayed in IPCs.MW-01	
196.	29.12.22	DHC/Dasu/WAPDA/MW-01/JF/22-704	Field Investigation in the Upper Catchment of Uchar Nullah (Indus River).MW-01	
197.	30.12.22	DHC/Dasu/WAPDA/MW-01/JF/22-705	Request your Consent in Issuance of the Variation order for Adjusted River Diversion Scheme.MW-01	
198.	30.12.22	DHC/Dasu/WAPDA/MW-01/PM/22-706	Shifting of Generators from Neelum Jhelum Hydropower Project Company	
<b>1.7 Dasu-MW-02</b>				
<b>Dasu Office</b>				
199.	02.12.22	DHC/Dasu/MW-02/CAD/22-488	The Engineers Determination on Contractors Cost Claim (Quantification) Overtaking of LNG Tanker Near the Contractors Barseen Camp	
200.	02.12.22	DHC/Dasu/WAPDA/MW-02/CAD/22-489	Replacing the Withheld Retention for the Completed Works by Guarantee.MW-02	
201.	06.12.22	DHC/Dasu/WAPDA/MW-02/ohs/22-496	496-06.12.22-Detailed Incident Investigation Report.MW-02	
202.	14.12.22	DHC/Dasu/WAPDA/MW-02/PLS/22-506	Assessment of the Contractor's Interim EOT Report No.2 (1st April 2021 to 14th July 2021 of MW-02)	

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Sr. No	Date	Letter No.	Subject	Remarks
203.	28.12.22	DHC/Dasu/WAPDA/MW-02/ys/22-525	Information Regarding Interest on Payment Delayed in IPCs.MW-02	
204.	30.12.22	DHC/Dasu/WAPDA/MW-02/you/22-527	Visa Invitation Letter.MW-02	
<b>1.8 Dasu LBRV-11</b>				
<b>Dasu Office</b>				
205.	19.12.22	DHC/Dasu/WAPDA/LBRV-11/CAD/22-111	Engineers Assessment on the Contractors Prolongation Management Cost Claim on Account of Extension of Time (EOT-01) - An Interim Claim Under Non-Possession of Sites	
<b>1.9 Dasu-LBRV-12</b>				
<b>Dasu office</b>				
206.	19.12.22	DHC/Dasu/WAPDA/LBRV-12/CAD/22-065	Engineers Assessment on the Contractors Prolongation Management Cost Claim on Account of Extension of Time (EOT-01) - An Interim Claim Under Non-Possession of Sites	
<b>1.10 Dasu-RBRV-11</b>				
<b>Dasu Office</b>				
207.	28.12.22	DHC/Dasu/WAPDA/RBRV-11/CAD/22-006	Initiation Management Claim for Period of April 2017 to November 2022.RBRV-11	
<b>1.11 Dasu-PCI-01R</b>				
<b>Dasu office</b>				
208.	12.12.22	DHC/Dasu/WAPDA/PCI-01R/ CAD/22-313	Expiry of Extended Period for Completion of Works PCI-01R	
209.	17.12.22	DHC/Dasu/WAPDA/PCI-01R/ CAD/22-323	Colony Boundary Wall Alignment near Residence Category 3B Building PCI-01R	
210.	20.12.22	DHC/Dasu/WAPDA/PCI-01R/ Infra/22-331	Proposal for Omission of Colony Boundary Wall near Residence Category 4 & 5 Buildings	
211.	21.12.22	DHC/Dasu/WAPDA/PCI-01R/ CAD/22-332	Interim Payment Certificate No.37 PCI-01	
212.	26.12.22	DHC/Dasu/WAPDA/PCI-01R/ Infra/22-337	Continuous Extraction of Sand by Locals Along KKH-01 at Khohse K8 Area.PCI-01R	
213.	27.12.22	DHC/Dasu/WAPDA/PCI-01R/ mfn/22-339	Submission of Bidding Documents.PCI-01R	
<b>1.12 Dasu PCI-02</b>				
<b>Dasu office</b>				
214.	10.12.22	DHC/Dasu/WAPDA/PCI-02/ CAD/22-005	Draft Bidding Documents for Project Colony and Infrastructure (PCI-02)	
<b>1.13 Dasu EM-01</b>				
<b>Dasu Office</b>				
215.	02.12.22	DHC/Dasu/WAPDA/EM-01/sn/22-414	Addition of Suppliers to Agree Schedule T-4	
216.	02.12.22	DHC/Dasu/WAPDA/EM-01/cad/22-415	Deduction of Taxes from Contractors Invoices.EM-01	
217.	08.12.22	DHC/Dasu/WAPDA/EM-01/cad/22-425	Submission of Contractor's Dispute Board (DB) Member for Approval	
218.	08.12.22	DHC/Dasu/WAPDA/EM-01/cad/22-426	Handover Electro-Mechanical Work Interface for Installation of Draft Tube Unit# 3	
219.	13.12.22	DHC/Dasu/WAPDA/EM-01/cad/22-431	Revision Of Dates For Handing-Over Of Electro-Mechanical Work Interfaces And Coordination Events	
220.	14.12.22	DHC/Dasu/WAPDA/EM-01/cad/22-433	Vehicles Delivery, Insurance and Registration Status of 6 Nos. Pick-up from TOYOTA for the Employer's and the Project Manager's Staff	
221.	15.12.22	DHC/Dasu/WAPDA/EM-01/cad/22-435	Request for Generation of Financial Instrument (FI) Number by the Employer's Bank	
222.	22.12.22	DHC/Dasu/WAPDA/EM-01/cad/22-441	Submission of Contractor's Dispute Board (08) Member for Approval EM	
<b>1.14 Dasu-LADP</b>				
<b>Dasu Office</b>				
223.	05.12.22	DHC/Dasu/WAPDA/LADP/mfn/22-057	LADP-MSWM-Comments on Bidding Documents	
224.	09.12.22	DHC/Dasu/WAPDA/LADP/mfn/22-058	Comments of World Bank on Bid Evaluation Report	
225.	12.12.22	DHC/Dasu/WAPDA/LADP/mfn/22-059	LADP Monthly Progress Report No. 44 for the Month of November, 2022	
226.	22.12.22	DHC/Dasu/WAPDA/LADP/mfn/22-060	Bid Evaluation Report (School Labs LADP)	
227.	23.12.22	DHC/Dasu/WAPDA/LADP/mmfn/22-061	Bid Evaluation Report (Provision of Pick & Drop Facility to School)	
228.	28.12.22	DHC/Dasu/WAPDA/LADP/mmfn/22-062	LADP-Bid Evaluation Report	
<b>2.15 Dasu LADP-MI-1</b>				
<b>Dasu Office</b>				
229.	05.12.22	DHC/Dasu/WAPDA/MI-1/mfn/22-081	LADP-RHC-Possession of Site	
230.	08.12.22	DHC/Dasu/WAPDA/MI-1/mfn/22-083	Interim Payment Certificate No. 7	
<b>2.16 Dasu LADP-PKG-01</b>				
<b>Dasu Office</b>				
231.	11.12.22	DHC/Dasu/WAPDA/PKGI-01/mfn/22-059	Right of Way (ROW) at RD 0+460 to 0+500	
232.	16.12.22	DHC/Dasu/WAPDA/PKGI-01/mfn/22-061	Interim Payment Certificate No. 3 PKG-1	
233.	16.12.22	DHC/Dasu/WAPDA/PKGI-01/mfn/22-065	LADP-PKG-01-Contractors All Risks (CAR) Contractors Plant and Machinery (CPM) and Workmen Compensation (WC) Insurance Policies	
<b>2. To Contractors</b>				
<b>2.1 RAR-01</b>				
<b>Dasu Office</b>				
1.	03.12.22	DHC/Dasu/CCECC/RAR-01/hhc/22-112	Komila Bypass Site Visit Observations.RAR-01	
2.	09.12.22	DHC/Dasu/CCECC/RAR-01/zic/22-113	Submission of Tree Cutting Record Required	
3.	10.12.22	DHC/Dasu/CCECC/RAR-01/bth/22-114	Utilization of Kass Spoil Area for Komila Bypass Road Excavation	
4.	13.12.22	DHC/Dasu/CCECC/RAR-01/bak/22-115	Work Progress, Equipment's & Site Observation on Stone Masonry	
5.	13.12.22	DHC/Dasu/CCECC/RAR-01/nk/22-116	Approval for Utilizing Reinforcement Steel Bars Manufactured by PAK Steel Re-Rolling Mills, (RAR-01)	
6.	15.12.22	DHC/Dasu/CCECC/RAR-01/zic/22-117	Arrangement of Awareness Session Regarding Protection of Flora and Fauna	
7.	20.12.22	DHC/Dasu/CCECC/RAR-01/bak/22-118	RAR-01 -Application	
8.	22.12.22	DHC/Dasu/CCECC/RAR-01/you/22-120	Minutes of Meeting Held on 14th December on Security Issues at DHPP	
<b>2.2 RAR-02</b>				
<b>Dasu office</b>				
9.	02.12.22	DHC/Dasu/CGGC/RAR-02/okk/22-125	Design Optimization Road Layout of RAR-02	
10.	09.12.22	DHC/Dasu/CGGC/RAR-02/zic/22-126	Submission of Tree Cutting Record Required	
11.	10.12.22	DHC/Dasu/CGGC/RAR-02/OKK/22-127	Design Optimization Road Layout of RAR-02	
12.	10.12.22	DHC/Dasu/CGGC/RAR-02/OKK/22-128	Local People Prevent the Contractor from Using the Dogah Bridge	
13.	10.12.22	DHC/Dasu/CGGC/RAR-02/OKK/22-129	Work Hindrance at Km 32+860	



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Sr. No	Date	Letter No.	Subject	Remarks
14.	12.12.22	DHC/Dasu/CGGC/RAR-02/PLS/22-130	Reminder for Submission of Contract Programme of RAR-02 Contract	
15.	15.12.22	DHC/Dasu/CGGC/RAR-02/zic/22-131	Arrangement of Awareness Session Regarding Protection of Flora and Fauna RAR-1	
16.	15.12.22	DHC/Dasu/CGGC/RAR-02/Ohs/22-132	Submission of Updated Incident Register and ICAP Status	
17.	16.12.22	DHC/Dasu/CGGC/RAR-02/OKK/22-133	Producing the Cross-Section Shop Drawings of RAR-02	
18.	19.12.22	DHC/Dasu/CGGC/RAR-02/OKK/22-134	Cable Lift System to Cross Indus River at Km 25+590 RAR-02	
19.	19.12.22	DHC/Dasu/CGGC/RAR-02/OKK/22-135	Relocating the Seer Gayal School RAR-02	
20.	22.12.22	DHC/Dasu/CGGC/RAR-02/cad/22-136	Notice to Correct Under Sub-Clause 15.1	
21.	22.12.22	DHC/Dasu/CGGC/RAR-02/OKK/22-137	Precautions to be Taken to Protect the Houses in the Reservoir Area Between Sluch Bridge and Nutbail	
22.	22.12.22	DHC/Dasu/CGGC/RAR-02/you/22-138	Minutes of Meeting Held on 14th December on Security Issues at DHPP RAR-02	
23.	25.12.22	DHC/Dasu/CGGC/RAR-02/hog/22-139	The Response to the Suggestion About Geological Classification on RAR-02	
24.	29.12.22	DHC/Dasu/CGGC/RAR-02/hog/22-140	The Response to the Confirmation About Geological Survey on RAR-02	
<b>2.3 KKH-01</b>				
<b>Dasu Office</b>				
25.	01.12.22	DHC/Dasu/CCECC/KKH-01/nak/22-239	-VO008-Improvement of Khoshe Access Road (Reminder-2).KKH-01	
26.	02.12.22	DHC/Dasu/CCECC/KKH-01/zic/22-240	Approval of Laboratory & 7th Quarterly Environmental Monitoring Plan.KKH-01	
27.	05.12.22	DHC/Dasu/CCECC/KKH-01/hhc/22-242	Construction Equipment Breakdown Reached to an Unacceptable Level.KKH-01	
28.	05.12.22	DHC/Dasu/CCECC/KKH-01/hhc/22-243	K4-K-9 Tunnels Full Section Excavation KKH-01	
29.	08.12.22	DHC/Dasu/CCECC/KKH-01/zic/22-245	Approval of Laboratory and 7th Quarterly Monitoring Plan of CCECC for KKH-01	
30.	09.12.22	DHC/Dasu/CCECC/KKH-01/zic/22-246	Submission of Tree Cutting Record Required	
31.	11.12.22	DHC/Dasu/CCECC/KKH-01/you/22-247	Request for Security Personnel for Chinese Office Alamgeer Plaza	
32.	12.12.22	DHC/Dasu/CCECC/KKH-01/hhc/22-249	Completion of Retaining Walls Structures of Kaigah Bypass	
33.	13.12.22	DHC/Dasu/CCECC/KKH-01/nk/22-250	Approval for Utilizing Reinforcement Steel Bars Manufactured by PAK Steel Re-Rolling Mills, (KKH-01 )	
34.	15.12.22	DHC/Dasu/CCECC/KKH-01/zic/22-251	Arrangement of Awareness Session Regarding Protection of Flora and Fauna KKH-01	
35.	15.12.22	DHC/Dasu/CCECC/KKH-01/you/22-252	Travelling of People from Upper lower Kohistan to Participate in Religious Gather w.e.f.16th December to 18th December 2022	
36.	19.12.22	DHC/Dasu/CCECC/KKH-01/DPM/22-255	Engineer's comment to the above Design Report and Detail Design of Uchar Bridge, Barseen bridge, Dogah bridge on KKH-01	
37.	19.12.22	DHC/Dasu/CCECC/KKH-01/hhc/22-256	Land Possession Handing I Taking Over for KKH-01	
38.	22.12.22	DHC/Dasu/CCECC/KKH-01/you/22-257	Minutes of Meeting Held on 14th December on Security Issues at DHPP	
39.	22.12.22	DHC/Dasu/CCECC/KKH-01/nk/22-259	Approval of Subbase Material at K4,	
40.	24.12.22	DHC/Dasu/CCECC/KKH-01/nk/22-260	Approval of Laboratory Equipment Manufacturer & Supplier Kadeer Brothers KKH-01	
41.	24.12.22	DHC/Dasu/CCECC/KKH-01/nk/22-261	Approval of RCC Pavement Mix Design and Trial Placement at Khoshee Access Road.KKH-01	
42.	24.12.22	DHC/Dasu/CCECC/KKH-01/nk/22-262	Approval of Wet Shotcrete Mix Design.KKH-01	
43.	25.12.22	DHC/Dasu/CCECC/KKH-01/zic/22-263	Oil Spoils at K-4 and K-9 Construction Sites.KKH-01	
44.	25.12.22	DHC/Dasu/CCECC/KKH-01/zic/22-264	Planned Fuel Storage at K-9 Site by M-S CCECC.KKH-01	
45.	25.12.22	DHC/Dasu/CCECC/KKH-01/zic/22-265	Inadequate Housekeeping at K-4 Site.KKH-01	
46.	26.12.22	DHC/Dasu/CCECC/KKH-01/nk/22-266	Approval of Granular Backfill Material from Kaigah for using at the Komila Bypass KKH-01 &RAR-01	
47.	27.12.22	DHC/Dasu/CCECC/KKH-01/nak/22-267	High Risk Excavated Material Laying at Zero Section Above Existing KKH	
48.	28.12.22	DHC/Dasu/CCECC/KKH-01/zic/22-268	-Non-Compliance Report in Appropriate Washing Facility of Concrete Batching Plant at K-9 Site.KKH-01	
49.	28.12.22	DHC/Dasu/CCECC/KKH-01/zic/22-269	Sedimentation Tank Constructed Outside K-9 Tunnel Under KKH-01	
50.	30.12.22	DHC/Dasu/CCECC/KKH-01/zic/22-270	ES-PK Documents for Environment Monitoring of KKH-01	
<b>2.4 Dasu-KKH-02</b>				
<b>Dasu Office</b>				
51.	06.12.22	DHC/Dasu/CGGC/KKH-02/cad/22-163	Provision of Breakdown of Rates and Prices of the BOQ.KKH-02	
52.	07.12.22	DHC/Dasu/CGGC/KKH-02/DPM/22-164	Request for Proposal for Construction of Tunnels and Bridges (KKH-02)	
53.	07.12.22	DHC/Dasu/CGGC/KKH-02/zic/22-165	Repeated Non Compliances Regarding Environment on KKH-02 Sites	
54.	09.12.22	DHC/Dasu/CGGC/KKH-02/zic/22-166	Submission of Tree Cutting Record Required	
55.	09.12.22	DHC/Dasu/CGGC/KKH-02/okk/22-167	Prolong Closure of KKH-02	
56.	12.12.22	DHC/Dasu/CGGC/KKH-02/pls/22-168	Reminder Submission of Contract Programme of KKH-02 Contract	
57.	14.12.22	DHC/Dasu/CGGC/KKH-02/DPM/22-169	Contractor's Proposal for Geotechnical Investigations	
58.	15.12.22	DHC/Dasu/CGGC/KKH-02/zic/22-170	Arrangement of Awareness Session Regarding Protection of Flora and Fauna KKH-02	
59.	15.12.22	DHC/Dasu/CGGC/KKH-02/you/22-171	Travelling of People from Upper lower Kohistan to Participate in Religious Gather w.e.f.16th December to 18th December 2022	
60.	15.12.22	DHC/Dasu/CGGC/KKH-02/CAD/22-172	Accommodation for Security Personnel at Kaigah	
61.	19.12.22	DHC/Dasu/CGGC/KKH-02/OKK/22-173	Submission of Variation Proposal for Varied Works of KKH-02	
62.	21.12.22	DHC/Dasu/CGGC/KKH-02/OKK/22-174	Damage given to the Existing KKH by the Contractor	
63.	22.12.22	DHC/Dasu/CGGC/KKH-02/you/22-175	Minutes of Meeting Held on 14th December on Security Issues at DHPP	
64.	23.12.22	DHC/Dasu/CGGC/KKH-02/OKK/22-176	Updated Status of Land Handover for KKH-02 and Resource Loaded Schedule KKH-02	
65.	23.12.22	DHC/Dasu/CGGC/KKH-02/zic/22-179	Prolong Closure of KKH.KKH-02	
66.	23.12.22	DHC/Dasu/CGGC/KKH-02/OKK/22-180	Safety Procedures.KKH-02	
67.	27.12.22	DHC/Dasu/CGGC/KKH-02/ohs/22-182	Temporary Suspension of Work at K-34 KKH-02 & Provide the Required Documents to Facilitate the Incident Investigation.KKH-02	
<b>2.5 Dasu TL-01</b>				
<b>Dasu Office</b>				
68.	02.12.22	DHC/Dasu/PCCC/TL-01/CAD/22-188	Extension of Performance Security.TL-01	
69.	03.12.22	DHC/Dasu/PCCC/TL-01/ mrz/22-192	Report on CGGCs Facilities Damaged by the PCCC Contractors Construction Activities.TL-01	

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Sr. No	Date	Letter No.	Subject	Remarks
70.	04.12.22	DHC/Dasu/PCCC/TL-01/ mrz/22-193	Pending Procurement.TL-01	
71.	09.12.22	DHC/Dasu/PCCC/TL-01/ CAD/22-195	Extension Of Insurance Policies	
72.	09.12.22	DHC/Dasu/PCCC/TL-01/ Ohs/22-196	Submission of Updated Incident Register and ICAP Status	
73.	09.12.22	DHC/Dasu/PCCC/TL-01/ zic/22-197	Submission of Tree Cutting Record Required	
74.	14.12.22	DHC/Dasu/PCCC/TL-01/ mrz/22-198	Immediate Mobilization of Resources to Expedite Progress of Grid Station Construction	
75.	15.12.22	DHC/Dasu/PCCC/TL-01/ zic/22-199	Arrangement of Awareness Session Regarding Protection of Flora and Fauna KKH-02	
76.	17.12.22	DHC/Dasu/PCCC/TL-01/ mrz/22-200	Request for Approval of Zinc Coated Spray (WL-739) TL-01	
77.	17.12.22	DHC/Dasu/PCCC/TL-01/PLS/22-202	Submission of Updated Program-Schedule for TL-01 Contract.	
78.	21.12.22	DHC/Dasu/PCCC/TL-01/mrz/22-204	Inspection Certificate for Control Cables of Grid Station	
79.	22.12.22	DHC/Dasu/PCCC/TL-01/you/22-205	Minutes of Meeting Held on 14 <sup>th</sup> December on Security Issues at DHPP	
80.	31.12.22	DHC/Dasu/PCCC/TL-01/mrz/22-208	Power Transformer at Ghazi Barotha Store.TL-01	
<b>2.6 Dasu MW-01</b>				
<b>Dasu Office</b>				
81.	01.12.22	DHC/Dasu/CGGC/MW-01/dn/22-631	Drawing Issue for Construction Traffic Diversion Tunnels Downstream Portal.MW-01	
82.	01.12.22	DHC/Dasu/CGGC/MW-01/cad/22-632	Provision of Power Supply to NO.1 Crushing Plant and No.1 Batching Plant.MW-01	
83.	02.12.22	DHC/Dasu/CGGC/MW-01/jf/22-636	Comments on Method Statement of Cavity Grouting for Diversion Tunnel Arch (D2).MW-01	
84.	02.12.22	DHC/Dasu/CGGC/MW-01/jf/22-637	Optional Requirements of ASTM C618 for Natural Pozzolan Source 1.MW-01	
85.	03.12.22	DHC/Dasu/CGGC/MW-01/AO/22-639	Instruction of Daywork order for Demolishing of Houses in and Around RCC Batching Plant-Siglo Area MW-01	
86.	05.12.22	DHC/Dasu/CGGC/MW-01/nk/22-640	Methylene Blue Test and Particle Size Analysis of Material Finer Than 75um in Concrete Aggregates.MW-01	
87.	06.12.22	DHC/Dasu/CGGC/MW-01/nk/22-641	The Contractors Schedule for the Third Party Laboratory Testing of Construction Material Samples Taken in November 2022.MW-01	
88.	07.12.22	DHC/Dasu/CGGC/MW-01/dn/22-643	Drawing Issue for Construction Additional Outlets Excavation.MW-01	
89.	06.12.22	DHC/Dasu/CGGC/MW-01/nk/22-644	The Engineers Comments on Petrographic Analysis Test Results of Rock Samples Taken in October 2022 MW-01	
90.	06.12.22	DHC/Dasu/CGGC/MW-01/nk/22-646	The Engineers Comments on Alkali-Silica Reactivity Test Results of Aggregate and Rock Samples Taken in August 2022.MW-01	
91.	07.12.22	DHC/Dasu/CGGC/MW-01/HUR/22-647	Minutes of Weekly Meeting 22d November 2022- MW-01	
92.	08.12.22	DHC/Dasu/CGGC/MW-01/jf/22-649	Method Statement of Second Stage Concrete Pouring of Diversion Tunnel Gate Shaft	
93.	09.12.22	DHC/Dasu/CGGC/MW-01/zic/22-650	Submission of Tree Cutting Record Required	
94.	10.12.22	DHC/Dasu/CGGC/MW-01/you/22-651	Shifting of 150 Chinese by the Contractor MS. CGGC to Kass Camp	
95.	12.12.22	DHC/Dasu/CGGC/MW-01/you/22-652	Outstation Movement of Expatriates	
96.	13.12.22	DHC/Dasu/CGGC/MW-01/hur/22-655	Minutes of Weekly Meeting 29 <sup>th</sup> November 2022 and 6 <sup>th</sup> December 2022-MW-01	
97.	13.12.22	DHC/Dasu/CGGC/MW-01/nk/22-656	The Engineer's Comments on Petrographic Analysis and ASR Tests of the Rock Samples Taken in January and February 2022, (MW-01)	
98.	12.12.22	DHC/Dasu/CGGC/MW-01/AO/22-657	Comments on MS of RCC Full Scale Trial, MW-01	
99.	13.12.22	DHC/Dasu/CGGC/MW-01/ AO/22-658	Cavity grouting for the DT-B Shear Zone Part-3 crown section (CH K0+314-0+327), MW-01	
100.	14.12.22	DHC/Dasu/CGGC/MW-01/ jf/22-659	Method Statement of Second Stage Concrete Pouring of Diversion Tunnel Gate Shaft (D2)	
101.	12.12.22	DHC/Dasu/CGGC/MW-01 / Hur/22-660	Non-compliance with the Procedure in Daywork Records for Demolishing of Houses – Siglo Area, MW-01	
102.	11.12.22	DHC/Dasu/CGGC/MW-01/ Ohs/22-661	Availability of Qualified OHS Supervisor for Night Shift	
103.	14.12.22	DHC/Dasu/CGGC/MW-01/ sk/22-662	Dasu-HPP Reply to Embedded Gate Parts of Diversion Tunnel A (HSS)	
104.	15.12.22	DHC/Dasu/CGGC/MW-01/ zic/22-663	Arrangement of Awareness Session Regarding Protection of Flora and Fauna MW-01	
105.	13.12.22	DHC/Dasu/CGGC/MW-01/ AO/22-664	SIGLO Area Land Possession for Contract ICB NO.DASU, MW-01	
106.	16.12.22	DHC/Dasu/CGGC/MW-01/ jf/22-665	Reply for Method Statement of Cavity Grouting for Diversion Tunnel Arch (03)	
107.	16.12.22	DHC/Dasu/CGGC/MW-01/ Zic/22-666	Excessive Smoke from Generator Installed At CR-02	
108.	15.12.22	DHC/Dasu/CGGC/MW-01/ Ohs/22-667	Submission of Updated Incident Register and ICAP Status	
109.	16.12.22	DHC/Dasu/CGGC/MW-01/ AO/22-668	Commencement of Construction Works for Batching Plant No2# in Siglo Area, MW-01	
110.	16.12.22	DHC/Dasu/CGGC/MW-01/ AO/22-669	Comments on MS of River Channel Dredging the Diversion Tunnel Outlet, MW-01	
111.	16.12.22	DHC/Dasu/CGGC/MW-01/ td/22-670	Issue of Construction Drawing for MW-01	
112.	17.12.22	DHC/Dasu/CGGC/MW-01/ zic/22-673	Environmental Non Compliances at MW-01 Sites	
113.	17.12.22	DHC/Dasu/CGGC/MW-01/ Ohs/22-674	Digging & Extraction of Surplus Spoil Material Dumped along Siglo Area MW-01	
114.	17.12.22	DHC/Dasu/CGGC/MW-01/ AO/22-675	Daywork order to let Engineer to do preliminary Design Work for the Bailey at Uchar, MW-01	
115.	17.12.22	DHC/Dasu/CGGC/MW-01/ AO/22-676	Notice to be Ready to Erect Bailey Bridge at Uchar Nullah, MW-01	
116.	17.12.22	DHC/Dasu/CGGC/MW-01/ DPM/22-677	Reimbursement of Programming Software(P6) Procurement Cost MW-01	
117.	19.12.22	DHC/Dasu/CGGC/MW-01/ dn/22-678	Drawing issue for Construction Diversion Tunnel B – Outlet Surface Protection MW-01	
118.	20.12.22	DHC/Dasu/CGGC/MW-01/ Ys/22-679	Engineer's Comments on the Submission of the Design Documents of the Transmission Line 04	
119.	21.12.22	DHC/Dasu/CGGC/MW-01/ cad/22-680	Consultation Meeting Regarding Prolongation Claim	
120.	21.12.22	DHC/Dasu/CGGC/MW-01/ nk/22-681	Approval of M10 Masonry Mortar Mix Design, (MW-01)	
121.	21.12.22	DHC/Dasu/CGGC/MW-01/ nk/22-682	Approval of Low Slump CVC Concrete Mix Designs A25, A20, A15 with Fauji LAC Cement, (MW-01)	
122.	22.12.22	DHC/Dasu/CGGC/MW-01/ you/22-684	Minutes of Meeting Held on 14th December on Security Issues at DHPP	
123.	23.12.22	DHC/Dasu/CGGC/MW-01/ dn/22-687	Drawing issue for Construction Diversion Tunnel -Outlet Surface Protection MW-01	

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Sr. No	Date	Letter No.	Subject	Remarks
124.	23.12.22	DHC/Dasu/CGGC/MW-01/ nk/22-688	Approval of Low Slump CVC Concrete Mix Designs A25, A20,A15 with Fauji LAC Cement MW-01	
125.	23.12.22	DHC/Dasu/CGGC/MW-01/ nk/22-690	Approval of Self-Compacting Concrete Mix Designs C25, C28,C35 MW-01	
126.	23.12.22	DHC/Dasu/CGGC/MW-01/ cad/22-691	Consultation Meeting Regarding Prolongation Claim.MW-01	
127.	24.12.22	DHC/Dasu/CGGC/MW-01/ sk/22-692	Approval for Construcion Drawings of Diversion Tunnel Hoists D1 (HSS).MW-01	
128.	26.12.22	DHC/Dasu/CGGC/MW-01/ zua/22-693	Installation of River level Gauge at Inlet of Diversion Tunnel.MW-01	
129.	26.12.22	DHC/Dasu/CGGC/MW-01/ nk/22-694	Approval of Low Slump CVC Concrete Mix Design A40 with Fauji LAC Cement MW-01	
130.	26.12.22	DHC/Dasu/CGGC/MW-01/ nk/22-695	Schedule Delay Analysis for Prolongation Claim.MW-01	
131.	26.12.22	DHC/Dasu/CGGC/MW-01/ ys/22-696	Reply to HSS Processing Plant General layout R3.MW-01	
132.	27.12.22	DHC/Dasu/CGGC/MW-01/ AO/22-697	Damaging the RAR-01 Road MW-01	
133.	27.12.22	DHC/Dasu/CGGC/MW-01/ admin/22-698	Arrangement of Replacement Vehicles for Site Mobilization.MW-01	
134.	26.12.22	DHC/Dasu/CGGC/MW-01/ AO/22-699	Repeated Failure to Submit Weekly and Monthly Progress Reports on Time MW-01	
135.	27.12.22	DHC/Dasu/CGGC/MW-01/ AO/22-700	Reminder 4 Raw Material Stock Management Source of RCC Aggregates for Dam MW-01	
136.	27.12.22	DHC/Dasu/CGGC/MW-01/ AO/22-701	Minutes of Weekly Progress Review Meeting Held on 22nd December 2022.MW-01	
137.	28.12.22	DHC/Dasu/CGGC/MW-01/ dn/22-702	Comments on Submission of Structural Calculation and Concrete Outline Drawings of Diversion Tunnel Inlet Hoist Frame.MW-01	
138.	30.12.22	DHC/Dasu/CGGC/MW-01/ AO/22-707	Provision of Administrative Items for Security Staff at Kass Camp.MW-01	
<b>2.7 Dasu MW-02</b>				
<b>Dasu Office</b>				
139.	03.12.22	DHC/Dasu/CGGC/MW-02/MWIIS/mgc/22-490	Engineers Response Contractors MW-02 Proposal for Utilisation Hydraulic Torques Wrenches.MW-02	
140.	03.12.22	DHC/Dasu/CGGC/MW-02/MWIIS/mgc/22-491	Engineers Response Contractors MW-02 PSLP II Adit Plug Section Support Detail	
141.	03.12.22	DHC/Dasu/CGGC/MW-02/MWIIS/mgc/22-492	-Engineers Response Surge Chamber Blasting Design.MW-02	
142.	03.12.22	DHC/Dasu/CGGC/MW-02/MWIIS/mgc/22-493	Submission of the Method Statement of Excavation and Support of Lower Pressure Tunnel and Lower Bend Tunnel (D1).MW-02	
143.	03.12.22	DHC/Dasu/CGGC/MW-02/MWIIS/mgc/22-494	-Engineers Response Cants. Surge Chamber MW-02 Dome Cyclical Excavation	
144.	05.12.22	DHC/Dasu/CGGC/MW-02/dn/22-495	Comments on Submitted Stability Calculation for Tailrace Outlet Dyke and Drawings for Tailrace Outlet Dyke & Construction Road.MW-02	
145.	06.12.22	DHC/Dasu/CGGC/MW-02/nk/22-497	The Contractors Schedule for the Third Party Laboratory Testing of Construction Material Samples Taken in November 2022.MW-02	
146.	06.12.22	DHC/Dasu/CGGC/MW-02/nk/22-498	The Engineers Comments on Petrographic Analysis Test Results of Rock Samples Taken in October 2022.MW-02	
147.	06.12.22	DHC/Dasu/CGGC/MW-02/nk/22-499	The Engineers Comments on Alkali Silica Reactivity Test Results of Aggregate and Rock Samples Taken in August 2022.MW-02	
148.	08.12.22	DHC/Dasu/CGGC/MW-02/YS/22-500	Comments on Proposal of Diversion Public Traffic Road KKH at Tailrace Tunnel Outlet	
149.	07.12.22	DHC/Dasu/CGGC/MW-02/ td/22-501	Issue of Construction Drawing for MW-02	
150.	09.12.22	DHC/Dasu/CGGC/MW-02/ mgc/22-502	Land Handover Information Kass Area beside Right Bank Explosive Magazine	
151.	09.12.22	DHC/Dasu/CGGC/MW-02/ zic/22-503	Submission of Tree Cutting Record Required	
152.	09.12.22	DHC/Dasu/CGGC/MW-02/ MGC/22-504	Engineers Response Concs Submission UGPH Complex Drainage System	
153.	13.12.22	DHC/Dasu/CGGC/MW-02/ nk/22-505	The Engineer's Comments on Petrographic Analysis and ASR Tests of the Rock Samples Taken in January and February 2022	
154.	15.12.22	DHC/Dasu/CGGC/MW-02/ zic/22-507	Arrangement of Awareness Session Regarding Protection of Flora and Fauna MW-02	
155.	15.12.22	DHC/Dasu/CGGC/MW-02/ Ohs/22-508	Submission of Updated Incident Register and ICAP Status	
156.	15.12.22	DHC/Dasu/CGGC/MW-02/ mgc/22-509	Response to the Contractors Letter towards Payment of Rebar Mesh within PH & TC.	
157.	15.12.22	DHC/Dasu/CGGC/MW-02/ mgc/22-510	Method Statement Proposal of Diversion Public Traffic Road KKH at Tailrace	
158.	16.12.22	DHC/Dasu/CGGC/MW-02/ ys/22-511	Approval of PS Tendon Trial Test for Powerhouse Cavern	
159.	17.12.22	DHC/Dasu/CGGC/MW-02/ zic/22-512	Environmental Non Compliances at MW-02 Sites.	
160.	17.12.22	DHC/Dasu/CGGC/MW-02/ DMP/22-513	Reimbursement of Programming Software(P6) Procurement Cost MW-02	
161.	17.12.22	DHC/Dasu/CGGC/MW-02/ MGC/22-514	Reference to R & Q Mesh Payment structure and servicing of Monthly IPC MW-02	
162.	17.12.22	DHC/Dasu/CGGC/MW-02/ YS/22-515	Request of Submission of Detailed Lift Schedule for the Secondary Concrete in Powerhouse MW-02	
163.	18.12.22	DHC/Dasu/CGGC/MW-02/ YS/22-516	Approval of PS Tendon Trial Test in Transformer Cavern MW-02	
164.	21.12.22	DHC/Dasu/CGGC/MW-02/ nk/22-517	Approval of M10 Masonry Mortar Mix Design. (MW-02)	
165.	22.12.22	DHC/Dasu/CGGC/MW-02/ nk/22-518	Approval of Low Slump CVC Concrete Mix Designs B25, B20 B15 with Fauji LAC Cement, (MW-02)	
166.	22.12.22	DHC/Dasu/CGGC/MW-02/ you/22-519	Minutes of Meeting Held on 14th December on Security Issues at DHPP	
167.	23.12.22	DHC/Dasu/CGGC/MW-02/ nk/22-520	Approval of Low Slump CVC Concrete Mix Designs B25, B20, B15 with Fauji LAC Cement MW-02	
168.	23.12.22	DHC/Dasu/CGGC/MW-02/ nk/22-521	Approval of Self-Compacting Concrete Mix Designs C25, C28,C35 MW-02	
169.	26.12.22	DHC/Dasu/CGGC/MW-02/ nk/22-522	Approval of Low Slump CVC Concrete Mix Design A40 With Fauji LAC Cement MW-02	
170.	26.12.22	DHC/Dasu/CGGC/MW-02/ cad/22-523	Schedule Delay Analysis for Prolongation Claim.MW-02	
171.	27.12.22	DHC/Dasu/CGGC/MW-02/ admin/22-524	Arrangement of Replacement Vehicles for Site Mobilization.MW-02	
172.	28.12.22	DHC/Dasu/CGGC/MW-02/ ohs/22-526	Non Cooperation of Lead Mechanic Mr.he Min and Failure to Ensure Preventive Maintenance of Vehicles and Machinery.MW-02	
173.	31.12.22	DHC/Dasu/CGGC/MW-02/ ohs/22-528	Comments on Excavation and Support Mehod Statement of Powerhouse Exhaust Shaft (D3).MW-02	

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Sr. No	Date	Letter No.	Subject	Remarks
<b>2.8 Dasu-LBRV-11</b>				
<b>Dasu Office</b>				
174.	05.12.22	DHC/Dasu/ZEGL/LBRV-11/pls/22-109	Reminder Regarding the Second Extension of Time for LBRV-12	
175.	19.12.22	DHC/Dasu/ZEGL/LBRV-11/CAD/22-110	Engineers Assessment on the Contractors Prolongation Management Cost Claim on Account of Extension of Time (EOT-01) - An Interim Claim Under Non-Possession of Sites	
176.	20.12.22	DHC/Dasu/ZEGL/LBRV-11/infra/22-112	Outstanding Works for Contract LBRV-11	
177.	22.12.22	DHC/Dasu/ZEGL/LBRV-11/you/22-113	Minutes of Meeting Held on 14th December on Security Issues at DHPP	
178.	27.12.22	DHC/Dasu/ZEGL/LBRV-11/Infra/22-114	Cancellation of Safety Guard Railing Works for Uchar-1 and Khoshe-1 Site.LBRV-11	
<b>2.9 Dasu LBRV-12</b>				
<b>Dasu office</b>				
179.	05.12.22	DHC/Dasu/ZEGL/LBRV-12/pls/22-064	Reminder Regarding the Second Extension of Time for LBRV-11	
180.	19.12.22	DHC/Dasu/ZEGL/LBRV-12/CAD/22-066	Engineers Assessment on the Contractors Prolongation Management Cost Claim on Account of Extension of Time (EOT-01) - An Interim Claim Under Non-Possession of Sites	
181.	20.12.22	DHC/Dasu/ZEGL/LBRV-12/Infra/22-067	Outstanding Works for Contract LBRV-12	
182.	22.12.22	DHC/Dasu/ZEGL/LBRV-12/you/22-068	Minutes of Meeting Held on 14th December on Security Issues at DHPP	
183.	27.12.22	DHC/Dasu/ZEGL/LBRV-12/Infra/22-069	Cancellation of Safety Guard Railing Works for Nasirabad-1 and Nasirabad-2 Site.LBRV-12	
184.	28.12.22	DHC/Dasu/ZEGL/LBRV-12/Infra/22-070	Removal of Disposal Material.LBRV-11	
<b>2.10 Dasu-PCI-01R</b>				
<b>Dasu Office</b>				
185.	05.12.22	DHC/Dasu/CGICOP/PCI-01R/cad/22-307	Contractors Cost Proposal for Sliding Arrangements for Wardrobe Drawers in Residence Category-01.PCI-01R	
186.	06.12.22	DHC/Dasu/CGICOP/PCI-01R/sn/22-308	Shortage of Workers Material and Slow Progress of Works at Project Colony.PCI-01R	
187.	08.12.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-309	Remaining Works of Project Office Building	
188.	09.12.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-310	Submission of Tree Cutting Record Required	
189.	12.12.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-311	Hindrance to Construction of Boundary wall	
190.	12.12.22	DHC/Dasu/CGICOP/PCI-01R/mrz/22-312	Submission of Manufacturer DB Drawing for Security Guard Rooms A&B.	
191.	13.12.22	DHC/Dasu/CGICOP/PCI-01R/cad/22-314	Contractor's Cost Proposal for Sliding Arrangement for Wardrobe Drawers in Residence Category-01	
192.	13.12.22	DHC/Dasu/CGICOP/PCI-01R/kan/22-315	Clarification of Varied Works of Slope Protection at Choochange-1 Resettlement Village Sit	
193.	14.12.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-316	Slow Progress And Shortage Of Resources To Complete Phase-A	
194.	14.12.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-317	Warning on the Use of Immature Concrete Blocks in Masonry Work	
195.	15.12.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-318	Slow Progress on the Water Supply from the Indus	
196.	15.12.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-319	Notice of Non Compliance to Curing of Road Concrete	
197.	16.12.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-320	Provision of Sodding I Korean Grass in the Lawns of Colony Buildings	
198.	16.12.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-321	Warning on Non Compliance to OHS by PCI-01 R Contractor	
199.	17.12.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-322	Arrangement for Accommodation of Security Persons PCI-01R	
200.	17.12.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-324	Progress Review Minutes of Meeting held dated 15th December,2022 PCI-01R	
201.	17.12.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-325	Obligations to Implement and Improve the Safe Practices at Workplaces of Project Colony PCI-01R	
202.	18.12.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-326	Construction of Watch Towers in Project Colony (PC I 01 R)	
203.	19.12.22	DHC/Dasu/CGICOP/PCI-01R/PLS/22-327	Comments on Revised Contract Programme of PCI-01 R Contract	
204.	19.12.22	DHC/Dasu/CGICOP/PCI-01R/CAD/22-328	Contractor's Cost Claim for Renewal of Insurance Policies for the Extended Period of Time PCI-01R	
205.	19.12.22	DHC/Dasu/CGICOP/PCI-01R/Infra/22-329	Interface Coordination Meeting of PCI-01 R (Project Colony) Contractor CGICOP with MW-02 Contractor CGGC	
206.	19.12.22	DHC/Dasu/CGICOP/PCI-01R/Infra/22-330	Expansion Joint Cover at Project Office Roof	
207.	22.12.22	DHC/Dasu/CGICOP/PCI-01R/you/22-331	Minutes of Meeting Held on 14 <sup>th</sup> December on Security Issues at DHPP	
208.	23.12.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-334	Washing of Concrete Transit Mixers in Choochang Nullah (PCI 01 R)	
209.	24.12.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-335	Issuance of Colony Boundary Wall Drawings Near Category-3 Buildings.PCI-01R	
210.	26.12.22	DHC/Dasu/CGICOP/PCI-01R/zic/22-336	Washing of Concrete Transit Mixers Fresh in Water Body.PCI-01R	
211.	26.12.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-338	Provision of Smoke Hood for Residence Category-1 and Category-2 Buildings.PCI-01R	
212.	27.12.22	DHC/Dasu/CGICOP/PCI-01R/mrz/22-340	Request for Switches Supplier Approval MS T J Switches Updated Documents for Category-2.PCI-01R	
213.	27.12.22	DHC/Dasu/CGICOP/PCI-01R/mrz/22-341	Request for Approval MS Fast Cables Technical Data Sheets of Overhead HT and LT Conductor DOG and WASP.PCI-01R	
214.	27.12.22	DHC/Dasu/CGICOP/PCI-01R/kan/22-343	Request for Manufacturer (M-S Transpower) Drawings & Data Sheet Approval for Power Distribution Transformers 200Kva & 400KVA.PCI-01R	
215.	28.12.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-344	Progress Review Minutes of Meeting Held Dated 24th December 2022.PCI-01R	
<b>2.11 Dasu RV</b>				
<b>Dasu Office</b>				
216.	11.12.22	DHC/Dasu/KGL/RV/infra/22-083	Water Supply Line from Source to the Resettlement Site	
217.	12.12.22	DHC/Dasu/KGL/RV/cad/22-084	Appointment of Adjudicator	
218.	22.12.22	DHC/Dasu/KGL/RV/cad/22-085	The Project Manager's Determination for Changes in the Contract Price - Clause 37	
219.	24.12.22	DHC/Dasu/KGL/RV/infra/22-087	Construction of Access Road for RV Choochang Site-4 (Upper Kuz Choochang).RV	
<b>2.12 EM-01</b>				
<b>Dasu Office</b>				
220.	02.12.22	DHC/Dasu/GEPC/EM-01/CAD/22-416	Submission of Contractors Dispute Board (DB) Member for Approval.EM-01	
221.	02.12.22	DHC/Dasu/GEPC/EM-01/sn/22-417	Submission the Excitation Cubicle and Excitation Transformer Drawings.EM-01	

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**Appendix E [22/22]**

Sr. No	Date	Letter No.	Subject	Remarks
222.	02.12.22	DHC/Dasu/GEPC/EM-01/ohs/22-418	Submission of OHSMP and CVs of Personnel.EM-01	
223.	03.12.22	DHC/Dasu/GEPC/EM-01/cad/22-419	Change of Coordination Events – Cost Impact due to Extension of Time for Completion (Interim as of 31 <sup>st</sup> October 2022) EM-01	
224.	06.12.22	DHC/Dasu/GEPC/EM-01/cad/22-420	Contractors Final Claim Report for Delayed Handing Over of Camp Area (4.442ha).EM-01	
225.	05.12.22	DHC/Dasu/GEPC/EM-01/sn/22-421	Application for Material Replacement Request-3.EM-01	
226.	05.12.22	DHC/Dasu/GEPC/EM-01/sn/22-422	Approval to Add Supplier of Unit Online Monitoring System	
227.	07.12.22	DHC/Dasu/GEPC/EM-01/CAD/22-423	Notice of Claim due to Delay in Generation of Financial Instrument (FI) Number by the Employer's Bank for Goods Declaration (GO) of 1 <sup>st</sup> Shipment	
228.	07.12.22	DHC/Dasu/GEPC/EM-01/CAD/22-424	Reply to CSCS complain for the Project Manager Comments	
229.	08.12.22	DHC/Dasu/GEPC/EM-01/CAD/22-427	Clarification on Changes related to Temporary Storage at Ghazi Barotha Power Station	
230.	09.12.22	DHC/Dasu/GEPC/EM-01/zic/22-428	Submission of Tree Cutting Record Required	
231.	10.12.22	DHC/Dasu/GEPC/EM-01/cad/22-429	Confirmation Request for Care & Custody Responsibility for Temporary Storage at Ghazi Barotha Power Station	
232.	09.12.22	DHC/Dasu/GEPC/EM-01/sn/22-430	Submission of Revised DASU Powerhouse Cavern Equipment Arrangement Drawing	
233.	14.12.22	DHC/Dasu/GEPC/EM-01/VN/22-432	Engineer's Comment On Contractor's Environmental Action Plan (CEAP) V3 Em-01	
234.	14.12.22	DHC/Dasu/GEPC/EM-01/CAD/22-434	Submission of Contractor's Dispute Board (DB) Member for Approval	
235.	17.12.22	DHC/Dasu/GEPC/EM-01/CAD/22-436	Generation of Financial Instrument (FI) Number by the Employer's Bank	
236.	17.12.22	DHC/Dasu/GEPC/EM-01/CAD/22-437	Submission of Contractor's Dispute Board (DB) Member for Approval	
237.	19.12.22	DHC/Dasu/GEPC/EM-01/CAD/22-438	Cost Impact due to Extension of Time for Completion EM-01	
238.	19.12.22	DHC/Dasu/GEPC/EM-01/CAD/22-439	Addition of Suppliers to the Agreed Schedule T-4	
239.	22.12.22	DHC/Dasu/GEPC/EM-01/you/22-440	Minutes of Meeting Held on 14th December on Security Issues at DHPP	
240.	23.12.22	DHC/Dasu/GEPC/EM-01/cad/22-442	Submission of Contractor's Dispute Board (DB) Member for Approval	
241.	23.12.22	DHC/Dasu/GEPC/EM-01/cad/22-443	Follow-Up Response on the Deduction of Taxes from the Contractors Invoices.EM-01	
242.	28.12.22	DHC/Dasu/GEPC/EM-01/sn/22-444	Reply for Dasu Generator FE Calculation Report of Stator Frame Upper Bracket Generator Load on Foundation for Approval.EM-01	
243.	28.12.22	DHC/Dasu/GEPC/EM-01/sn/22-445	Essential Parameters for Further Design Works.EM-01	
<b>2.13 Dasu LADP-MI-1</b>				
<b>Dasu Office</b>				
244.	04.12.22	DHC/Dasu/KGL/MI-1/mfn/22-081	LADP-RHC-Certificate for Possession of the Remaining Site	
<b>2.14 Dasu LADP-MI-2</b>				
<b>Dasu Office</b>				
245.	12.12.22	DHC/Dasu/KGL/MI-02/ njm /22-049	Rate Analysis for Additional Electrical Work	
246.	14.12.22	DHC/Dasu/KGL/MI-02/ njm /22-050	Rate Analysis for Saf Tile	
247.	23.12.22	DHC/Dasu/KGL/MI-02/ ahs/22-051	Continuation of General BOQ Items (ESHS) Officer, PPEs and First Aid Material Box MI-2	
248.	24.12.22	DHC/Dasu/KGL/MI-02/ ahs/22-052	LADP-JMK-Refusal of ESHS Officers CV	
<b>2.15 Dasu LADP SA-01</b>				
<b>Dasu Office</b>				
249.	02.12.22	DHC/Dasu/KGL/SA-01/zia/22-087	LADP-SSKD-Precast Concrete Slab Cover Sanitation and Sewerage System for Komila and Dasu .SA-01	
250.	05.12.22	DHC/Dasu/KGL/SA-01/mfn/22-088	LADP-SSKD-Project Managers Rate Analysis of RCC (1.2.4)	
251.	11.12.22	DHC/Dasu/KGL/SA-01/mfn/22-089	Stoppage of Works by the Contractor	
252.	12.12.22	DHC/Dasu/KGL/SA-01/zia/22-090	Submission of Earth Work Cross Sections	
253.	12.12.22	DHC/Dasu/KGL/SA-01/ahs/22-091	Environmental Monitoring for Ambient Air and Noise	
254.	15.12.22	DHC/Dasu/KGL/SA-01/zia/22-092	Delay in Detailed Design	
255.	19.12.22	DHC/Dasu/KGL/SA-01/ahs/22-093	Environmental Monitoring for Ambient Air and Noise SA-01	
256.	22.12.22	DHC/Dasu/KGL/SA-01/mfn/22-094	Contractor's Project Manager SA-01	
257.	24.12.22	DHC/Dasu/KGL/SA-01/ahs/22-095	LADP-SSKD-Review of Environmental Monitoring Report for Ambient Air and Noise Sampling and Testing	
<b>2.16 Dasu LADP PKG-01</b>				
<b>Dasu Office</b>				
258.	02.12.22	DHC/Dasu/IKAN/PKG-01/ ahs/22-056	LADP-PKG-01-Environmental Monitoring Report for Ambient Air and Noise Sampling and Testing	
259.	08.12.22	DHC/Dasu/IKAN/PKG-01/ mfn/22-057	Additional Works at DC Colony Road	
260.	11.12.22	DHC/Dasu/IKAN/PKG-01/ mfn/22-058	Contractor's All Risks (CAR), Contractor's Plant and Machinery (CPM) & Workmen Compensation (WC) Insurance Policies	
261.	12.12.22	DHC/Dasu/IKAN/PKG-01/ ahs/22-060	Environmental Monitoring for Ambient Air and Noise and Absence of ESHS Officer	
262.	16.12.22	DHC/Dasu/IKAN/PKG-01/ mfn/22-062	Utilization of Advance Payment	
263.	17.12.22	DHC/Dasu/IKAN/PKG-01/ mfn/22-063	Delay in Processing and Verification of IPC No. 03 PKG-01	
264.	18.12.22	DHC/Dasu/IKAN/PKG-01/ ahs/22-064	Review of Environmental Monitoring Report for Ambient Air and Noise Sampling and Testing PKG-01	

# **APPENDIX F**

## **Detail of Interim Payment Certificates**

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**Appendix F: Details of Interim Payment Certificates**

Details of Interim Payment Certificates of MW-01 – Contractor CGGC						
Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		Due Date
				Local Currency	Foreign Currency	
1	21-Apr-17	1 (Adv. Pay)	25-Apr-17	5,556,438,372	56,988,569.00	16-May-17
2	22-Jun-18	2	11-Jul-18	129,457,263	1,384,020.74	17-Aug-18
3	03-Jan-19	3	09-Jan-19	88,936,900	997,133.73	28-Feb-19
4	09-Jun-19	4	04-Jul-19	76,716,800	732,093.22	04-Aug-19
5	25-Jul-19	5	18-Aug-19	145,629,996	1,363,149.96	19-Sep-19
6	26-Sep-19	6	23-Oct-19	248,905,635	2,214,513.54	21-Nov-19
7	10-Dec-19	7	06-Jan-20	629,914,484	5,895,127.76	04-Feb-20
8	10-Feb-20	8	27-Feb-20	206,824,646	1,757,372.29	06-Apr-20
9	06-Apr-20	9	04-May-20	365,752,539	3,245,285.91	01-Jun-20
10	13-Jun-20	10	11-Jul-20	382,303,496	2,880,146.95	08-Aug-20
11	05-Aug-20	11	02-Sep-20	252,654,881	2,252,835.97	30-Sep-20
12	16-Sep-20	12	09-Oct-20	458,055,284	3,898,125.46	11-Nov-20
13	12-Nov-20	13	10-Dec-20	521,447,309	4,746,372.92	07-Jan-21
14	16-Dec-20	14	12-Jan-21	109,355,876	1,157,321.96	10-Feb-21
15	18-Jan-21	15	12-Feb-21	158,129,043	1,570,752.84	15-Mar-21
16	23-Feb-21	16	19-Mar-21	336,954,470	2,658,901.26	20-Apr-21
17	16-Apr-21	17	04-May-21	407,082,473	8,331,836.66	11-Jun-21
18	20-May-21	18	14-Jun-21	762,466,613	6,311,057.52	15-Jul-21
19	21-Jun-21	19	14-Jul-21	425,023,542	4,493,780.63	16-Aug-21
20	26-Jul-21	20	19-Aug-21	226,133,481	2,044,283.79	20-Sep-21
21	25-Aug-21	21	20-Sep-21	480,881,765	4,269,721.44	20-Oct-21
22	29-Sep-21	22	25-Oct-21	4,185,117	39,112.22	24-Nov-21
23	21-Nov-21	23	20/12/2021	821,193,512	9,251,540.73	16-Jan-22
24	26-Dec-21	24	07-Feb-22	679,713,623	6,015,133.50	20-Feb-22
25	29-Jan-22	25	28-Feb-22	321,933,884	2,945,172.60	26-Mar-22
26	02-Mar-22	26	28-Mar-22	131,974,383	1,251,829.96	27-Apr-22
27	28-Mar-22	27	24-Apr-22	159,376,817	1,607,294.43	23-May-22
28	16-Apr-22	28	18-May-22	362,635,724	2,112,719.95	11-Jun-22
29	21-Jun-22	29	22-Jul-22	192,432,354	1,429,597.79	16-Aug-22
30	20-Jul-22	30	18-Aug-22	208,902,264	1,700,738.92	14-Sep-22
31	22-Aug-22	31	20-Sep-22	309,574,151	1,793,501.06	17-Oct-22
32	18-Oct-22	32	18-Nov-22	330,721,543	2,483,232.94	13-Dec-22
33	06-Dec-22	33	03-Jan-23	827,977,759	5,014,543.37	31-Jan-23
<b>Total Amount in LC &amp; FC (1USD = 104.3 PKR) (LC 50:FC 50)</b>				<b>16,319,685,999</b>	<b>154,836,821</b>	
Total Amount Certified including LC & FC (Rs.)				32,469,166,431.39		
Accepted Contract Amount				115,003,461,240		
Disbursement Progress with respect to ACA				28.23%		

Details of Interim Payment Certificates of MW-02 – Contractor CGGC						
Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		Due Date
				Local Currency	Foreign Currency	
1	21-Apr-17	1 (Adv. Pay)	25-Apr-17	3,326,067,613	29,880,873.00	16-May-17
2	22-Jun-18	2	11-Jul-18	83,298,629	870,162.03	17-Aug-18
3	03-Jan-19	3	09-Jan-19	74,858,417	766,176.22	28-Feb-19
4	09-Jun-19	4	02-Jul-19	71,107,206	626,942.03	04-Aug-19
5	25-Jul-19	5	18-Aug-19	4,908,345	33,396.51	19-Sep-19
6	02-Oct-19	6	19-Oct-19	77,803,163	676,690.06	27-Nov-19
7	03-Dec-19	7	31-Dec-19	380,055,185	3,487,658.38	28-Jan-20
8	31-Jan-20	8	22-Feb-20	116,606,355	943,411.40	27-Mar-20
9	06-May-20	9	19-May-20	169,704,055	1,210,335.38	01-Jul-20
10	22-Jun-20	10	22-Jul-20	81,144,101	392,991.96	17-Aug-20
11	05-Aug-20	11	02-Sep-20	94,947,361	765,644.82	30-Sep-20
12	16-Sep-20	12	09-Oct-20	155,265,987	1,065,922.39	11-Nov-20
13	12-Nov-20	13	10-Dec-20	76,094,960	641,343.79	07-Jan-21
14	16-Dec-20	14	12-Jan-21	91,489,465	788,644.78	10-Feb-21
15	18-Jan-21	15	12-Feb-21	2,196,767	151,795.03	15-Mar-21
16	23-Feb-21	16	19-Mar-21	95,214,311	336,914.48	20-Apr-21
17	16-Apr-21	17	04-May-21	151,300,083	2,746,114.01	11-Jun-21
18	20-May-21	18	14-Jun-21	155,713,668	968,699.57	15-Jul-21
19	21-Jun-21	19	14-Jul-21	84,507,053	146,301.84	16-Aug-21
20	26-Jul-21	20	19-Aug-21	52,249,037	172,562.45	20-Sep-21
21	25-Aug-21	21	20-Sep-21	24,216,703	160,409.05	20-Oct-21
22	29-Sep-21	22	25-Oct-21	13,306,835	36,044.08	24-Nov-21
23	21-Nov-21	23	15-Dec-21	10,566,080	70,038.21	16-Jan-22
24	26-Dec-21	23	04-Feb-22	13,396,896	98,850.24	20-Feb-22
25	29-Jan-22	25	28-Feb-22	29,493,180	244,726.79	26-Mar-22
26	02-Mar-22	26	28-Mar-22	9,702,893	60,887.68	27-Apr-22
27	28-Mar-22	27	24-Apr-22	23,355,008	151,238.21	23-May-22
28	16-Apr-22	28	18-May-22	65,408,374	223,236.05	11-Jun-22
29	21-Jun-22	29	23-Jul-22	65,521,384	407,878.71	16-Aug-22
30	20-Jul-22	30	20-Aug-22	61,174,019	159,575.39	14-Sep-22
31	23-Aug-22	31	24-Sep-22	75,988,914	178,590.68	18-Oct-22
32	18-Oct-22	32	19-Nov-22	157,320,766	973,034.70	13-Dec-22
33	06-Dec-22	33	05-Jan-23	286,277,691	1,587,756.94	31-Jan-23
<b>Total Amount in LC &amp; FC (1USD = 104.3 PKR) (LC 50:FC 50)</b>				<b>6,180,260,504</b>	<b>51,024,846.86</b>	
Total Amount Certified including LC & FC (Rs.)				11,502,152,031.50		
Accepted Contract Amount				64,426,426,087		
Disbursement Progress with respect to ACA				17.85%		

Details of Interim Payment Certificates of EM-01 – Contractor GE-PC JV						
Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		Due Date
				Local Currency	Foreign Currency	
1	17-Dec-19	1 (Adv. Pay)	20-Dec-19		24,398,400.00	24-Jan-20
2	21-Oct-21	1	01-Nov-21		921,600.00	20-Dec-21
3	17-Feb-22	(Adv. Pay)	25-Mar-22	480,570,192		
4	12-Oct-22	2	20-Oct-22		785,822.21	11-Dec-22
<b>Total Amount in LC &amp; FC</b>				<b>480,570,192</b>	<b>26,105,822</b>	
Accepted Contract Amount				25,471,001,920	243,984,000	
Disbursement Progress with respect to ACA				2%	11%	
Total Contract Amount (Rs.)				52,455,632,320		



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**Appendix F [2/4]**

Details of Interim Payment Certificates of PCI-01R – Contractor CGCIOP						
Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		Due Date
				Local Currency	Foreign Currency	
1	26-Dec-18	1 (Adv. Pay)	28-Dec-18	726,119,001	2,405,315	16-Jan-19
2	17-Oct-19	2	12-Nov-19	33,567,386	136,295.80	12-Dec-19
3	17-Nov-19	3	12-Dec-19	34,931,356	141,834.03	12-Jan-20
4	14-Feb-20	4	06-Mar-20	35,072,900	142,409.00	10-Apr-20
5	09-Mar-20	5	04-Apr-20	42,945,219	108,612.40	04-May-20
6	24-Apr-20	6	14-May-20	34,543,747	90,408.73	19-Jun-20
7	18-Jun-20	7	28-Jun-20	16,566,772	70,069.45	13-Aug-20
8	02-Jul-20	8	23-Jul-20	32,357,756	95,828.25	27-Aug-20
9	13-Jul-20	9	10-Aug-20	41,345,304	142,436.39	07-Sep-20
10	11-Aug-20	10	25-Aug-20	57,969,212	206,748.57	06-Oct-20
11	09-Sep-20	11	27-Sep-20	46,442,969	176,916.64	04-Nov-20
12	06-Oct-20	12	29-Oct-20	59,435,690	189,186.18	01-Dec-20
13	08-Nov-20	13	01-Dec-20	67,698,771	225,993.44	03-Jan-21
14	09-Dec-20	14	05-Jan-21	36,818,282	126,664.14	03-Feb-21
15	09-Jan-21	15	04-Feb-21	49,773,681	174,006.62	06-Mar-21
16	11-Feb-21	16	10-Mar-21	45,051,858	157,276.41	08-Apr-21
17	11-Mar-21	17	06-Apr-21	28,554,500	94,947.49	06-May-21
18	10-Apr-21	18	05-May-21	48,159,728	162,023.48	05-Jun-21
19	08-May-21	19	05-Jun-21	43,238,709	146,047.14	03-Jul-21
20	10-Jun-21	20	08-Jul-21	42,484,291	146,845.49	05-Aug-21
21	11-Jul-21	21	09-Aug-21	48,422,532	158,859.84	05-Sep-21
22	09-Aug-21	22	05-Sep-21	48,268,339	153,050.04	04-Oct-21
23	07-Sep-21	23	04-Oct-21	32,788,090	109,182.33	02-Nov-21
24	12-Oct-21	24	07-Nov-21	40,545,279	126,723.09	07-Dec-21
25	13-Nov-21	25	23-Nov-21	31,906,308	104,477.57	08-Jan-22
26	14-Dec-21	26	24-Dec-21	26,915,937	91,526.69	08-Feb-22
27	21-Jan-22	26	14-Feb-22	30,908,137	100,942.68	18-Mar-22
28	07-Apr-22	28	08-Apr-22	22,262,030	73,117.80	02-Jun-22
29	07-Apr-22	29	17-Apr-22	20,347,880	63,750.71	02-Jun-22
30	18-Apr-22	30	15-May-22	13,216,994	42,850.56	13-Jun-22
31	09-Jun-22	31	01-Jul-22	24,908,565	80,913.11	04-Aug-22
32	05-Jul-22	32	01-Aug-22	67,779,223	119,945.64	30-Aug-22
33	07-Aug-22	33	04-Sep-22	11,559,525	30,562.99	02-Oct-22
34	07-Sep-22	34	26-Sep-22	27,079,138	62,745.59	02-Nov-22
35	06-Oct-22	35	31-Oct-22	17,155,374	42,162.34	01-Dec-22
36	06-Nov-22	36	02-Dec-22	33,342,424	84,877.98	01-Jan-23
37	06-Dec-22	37	21-Dec-22	30,464,152	100,428.59	31-Jan-23

**Total Amount in LC & FC (1USD = 105.55 PKR) (LC 70: FC 30) 2,050,947,059 6,685,982**  
 Total Amount Certified including LC & FC (Rs.) 2,756,652,480  
**Accepted Contract Amount 4,900,000,009**  
**Disbursement Progress with respect to ACA 56.26%**

Details of Interim Payment Certificates of KKH-01 – Contractor CCECC						
Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		Due Date
				Local Currency	Foreign Currency	
1	07-Apr-15	1 (Adv. Pay)	10-Apr-15	2,176,756,967	7,257,158.00	01-May-15
2	25-Oct-16	2	05-Nov-16	116,085,061	384,408.90	20-Dec-16
3	20-Mar-17	3	21-Mar-17	115,271,179	384,306.16	15-May-17
4	07-Oct-17	4	09-Oct-17	163,673,731	537,714.66	02-Dec-17
5	02-Jan-18	5	15-Jan-18	140,213,172	467,461.04	27-Feb-18
6	29-Apr-18	6	16-May-18	112,700,084	375,734.32	24-Jun-18
7	13-Jun-18	7	09-Jul-18	137,477,799	294,116.50	08-Aug-18
8	18-Aug-18	8	12-Sep-18	83,900,536	248,588.91	13-Oct-18
9	20-Oct-18	9	07-Nov-18	115,514,185	327,895.98	15-Dec-18
10	22-Dec-18	10	02-Jan-19	54,277,538	153,159.67	16-Feb-19
11	29-Jan-19	11	13-Feb-19	117,014,088	295,608.67	26-Mar-19
12	28-Apr-19	12	13-May-19	83,570,086	218,018.53	23-Jun-19
13	01-Jul-19	13	12-Jul-19	111,832,242	262,033.71	26-Aug-19
14	26-Aug-19	14	13-Sep-19	186,836,976	487,212.82	21-Oct-19
15	24-Nov-19	15	22-Dec-19	60,357,019	167,948.08	19-Jan-20
16	17-Feb-20	16	13-Mar-20	80,325,069	188,092.50	13-Apr-20
17	31-Mar-20	17	28-Apr-20	103,054,752		26-May-20
18	03-Jul-20	18	27-Jul-20	117,062,441	299,271.45	28-Aug-20
19	03-Oct-20	19	30-Oct-20	541,814,894	244,433.16	28-Nov-20
20	10-Nov-20	20	07-Dec-20	126,355,008	161,772.28	05-Jan-21
21	04-Mar-21	21	02-Apr-21	89,700,027	217,810.42	29-Apr-21
22	30-Apr-21	22	30-May-21	218,335,017	131,214.31	25-Jun-21
23	17-Jul-21	23	14-Aug-21	123,748,647	1,564.06	11-Sep-21
24	19-Oct-21	24	16-Nov-21	148,233,396		14-Dec-21
25	22-Feb-22	25	21-Mar-22	46,553,333	388,294.83	19-Apr-22
26	19-Jun-22	27	21-Jun-22	3,351,431,289	11,173,440.91	10-Jul-22
27	19-Jul-22	26	12-Aug-22	22,894,416	2,136,987.46	13-Sep-22
28	03-Nov-22	28	28-Nov-22	413,135,000	235,653.58	29-Dec-22

**Total Amount in LC & FC (1USD=100.73PKR) (LC74.86:FC25.14) 9,158,123,952 27,039,901**  
 Total Amount Certified including LC & FC (Rs.) 11,881,853,171  
**Accepted Contract Amount 14,538,852,307**  
**Disbursement Progress with respect to ACA 81.72%**

Details of Interim Payment Certificates of KKH-02 – Contractor CGGC						
Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		Due Date
				Local Currency	Foreign Currency	
1	20-May-17	1 (Adv. Pay)	22-May-17	2,146,910,052	10,590,008	12-Jun-17
2	05-Oct-22	2	23-Oct-22	37,624,777	145,122	30-Nov-22
3	06-Dec-22	3	27-Dec-22	159,914,610	603,728	31-Jan-23

**Total Amount in LC & FC (1USD = 104.445 PKR) (LC 60:FC 40) 2,344,449,439 11,338,858**  
 Total Amount Certified including LC & FC (Rs.) 3,528,736,427.30  
**Accepted Contract Amount 16,264,917,100**  
**Disbursement Progress with respect to ACA 21.70%**

Details of Interim Payment Certificates of RAR-01 – Contractor CCECC						
Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		Due Date
				Local Currency	Foreign Currency	
1	07-Apr-15	1 (Adv. Pay)	10-Apr-15	379,956,163	1,616,583.00	01-May-15
2	08-Sep-16	2	28-Sep-16	30,718,272	127,214.05	03-Nov-16
3	24-Nov-16	3	28-Nov-16	33,046,440	140,751.14	19-Jan-17

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4	17-Mar-17	4	18-Mar-17	25,337,809	107,803.64	12-May-17
5	31-May-17	5	06-Jun-17	19,217,560	75,637.40	26-Jul-17
6	29-Sep-17	6	22-Oct-17	15,836,928	67,380.67	24-Nov-17
7	18-Jan-18	7	22-Jan-18	29,111,263	119,640.59	15-Mar-18
8	25-May-18	8	07-Jun-18	29,282,076	124,585.00	20-Jul-18
9	19-Oct-18	9	06-Nov-18	27,200,193	115,728.00	14-Dec-18
10	22-Feb-19	10	27-Feb-19	18,068,304	76,874.00	19-Apr-19
11	13-May-19	11	30-May-19	18,051,845	76,804.00	08-Jul-19
12	12-Jul-19	12	02-Aug-19	15,616,281	66,441.90	06-Sep-19
13	29-Sep-19	13	23-Oct-19	14,343,099	61,024.94	24-Nov-19
14	25-Jan-20	14	22-Feb-20	15,400,368	65,523.26	21-Mar-20
15	04-Apr-20	15	01-May-20	22,964,734	87,258.28	30-May-20
16	25-May-20	16	22-Jun-20	37,010,549	157,467.13	20-Jul-20
17	01-Jul-20	17	25-Jul-20	22,836,053	97,159.54	26-Aug-20
18	30-Jul-20	18	27-Aug-20	33,569,813	86,410.44	24-Sep-20
19	09-Sep-20	19	03-Oct-20	36,443,023	155,052.49	04-Nov-20
20	24-Oct-20	20	20-Nov-20	82,520,944	351,098.18	19-Dec-20
21	04-Dec-20	21	31-Dec-20	44,545,575	189,526.09	29-Jan-21
22	29-Dec-20	22	25-Jan-21	47,609,910	202,563.76	23-Feb-21
23	03-Mar-21	23	31-Mar-21	13,481,331	57,358.41	28-Apr-21
24	23-Apr-21	24	19-May-21	28,305,821	100,414.10	18-Jun-21
25	08-Jun-21	25	06-Jul-21	35,431,501	148,527.77	03-Aug-21
26	10-Aug-21	26	05-Sep-21	17,707,706	75,340.18	05-Oct-21
27	15-Oct-21	27	07-Nov-21	17,127,417	72,871.15	10-Dec-21
28	24-Dec-21	28	08-Jan-22	25,132,074	106,928.19	18-Feb-22
29	14-Feb-22	29	07-Mar-22	59,115,357	294,753.05	11-Apr-22
30	04-Apr-22	30	21-Apr-22	58,643,597	249,508.29	30-May-22
31	21-Jun-22	31	05-Jul-22	29,871,706	124,079.66	16-Aug-22
32	04-Aug-22	32	09-Aug-22	51,238,120	207,000.99	29-Sep-22
33	06-Oct-22	33	25-Oct-22	20,063,157	85,361.70	01-Dec-22

**Total Amount in LC & FC (1USD=100.73PKR) (LC70:FC30)** **1,354,804,989**  
*Total Amount Certified including LC & FC (Rs.)* **1,928,026,278**  
**Accepted Contract Amount** **2,713,972,595**  
**Disbursement Progress with respect to ACA** **71.04%**

Details of Interim Payment Certificates of RAR-02 – Contractor CGGC						
Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		Due Date
				Local Currency	Foreign Currency	
1	20-Mar-17	1 (Adv. Pay)	31-Mar-17	833,528,863	3,993,993	21-Apr-17
1	08-Mar-22	2	04-Apr-22	12,351,687	58,456.46	25-Apr-22

**Total Amount in LC & FC (1USD = 104.445 PKR) (LC 60: FC 40)** **845,880,550**  
*Total Amount Certified including LC & FC (Rs.)* **1,269,138,633.85**  
**Accepted Contract Amount** **6,253,407,194**  
**Disbursement Progress with respect to ACA** **20.30%**

Details of Interim Payment Certificates of TL-01 – Contractor PCCC						
Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		Due Date
				Local Currency	Foreign Currency	
1	10-Jul-15	Adv. Payment	28-Jul-15	286,980,047	403,585.00	24-Aug-15
2	16-Mar-16	2016/Rev-01	21-Mar-16	4,652,449		30-Apr-16
3	16-Mar-16	2016/02	21-Mar-16	2,604,724		30-Apr-16
4	11-Jul-16	2016/03	14-Jul-16	347,684		25-Aug-16
5	11-Jul-16	2016/04	14-Jul-16	10,191,948		25-Aug-16
6	25-Jul-16	2016/05	27-Jul-16	8,537,775		08-Sep-16
7	30-Mar-17	2017/01	10-Apr-17	7,286,730		14-May-17
8	30-Mar-17	2017/02	10-Apr-17	20,617,251		14-May-17
9	02-May-17	2017/03	10-May-17	1,029,370		16-Jun-17
10	20-Jun-17	2017/04	07-Jul-17	15,467,707		04-Aug-17
11	17-Jul-17	2017/05	19-Jul-17	2,926,056		31-Aug-17
12	27-Jul-17	2017/06	19-Aug-17	386,316		10-Sep-17
13	08-Aug-17	2017/07	19-Aug-17	768,750		22-Sep-17
14	06-Nov-17	2017/08	09-Nov-17	16,581,527	164,877.75	21-Dec-17
15	03-Jan-18	2017/09	04-Jan-18	79,952,447	24,499.74	17-Feb-18
16	03-Feb-18	2018/01	07-Feb-18	8,312,535		20-Mar-18
17	04-Apr-18	2018/02	06-Apr-18	32,121,568		19-May-18
18	07-May-18	2018/03	08-May-18	11,485,439	32,729.72	21-Jun-18
19	15-Aug-18	2018/04	16-Aug-18	6,252,657		29-Sep-18
20	12-Sep-18	2018/05	25-Sep-18	15,914,034		27-Oct-18
21	23-Oct-18	2018/06	24-Oct-18	16,345,769		07-Dec-18
22	01-Nov-18	2018/07	07-Nov-18	24,631,750		16-Dec-18
23	04-Dec-18	2018/08	08-Dec-18	7,376,449	4,675.67	18-Jan-19
24	08-Jan-19	2018/09	09-Jan-19	44,412,888		22-Feb-19
25	18-Feb-19	2019/01	21-Feb-19	19,061,264		04-Apr-19
26	06-Apr-19	2019/02	06-Apr-19	20,399,754	6,172.99	21-May-19
27	04-May-19	2019/03	06-May-19	9,149,766		18-Jun-19
28	15-Jun-19	2019/04	21-Jun-19	7,950,672		30-Jul-19
29	22-Jul-19	2019/05	25-Jul-19	8,566,498		05-Sep-19
30	02-Sep-19	2019/06	11-Sep-19	14,717,898		17-Oct-19
31	10-Oct-19	2019/07	16-Oct-19	10,560,040		24-Nov-19
32	08-Nov-19	2019/08	12-Nov-19	21,865,545		23-Dec-19
33	21-Nov-19	2019/09	27-Nov-19	14,948,404		05-Jan-20
34	13-Dec-19	2019/10	17-Dec-19	9,763,128		27-Jan-20
35	13-Jan-20	35	16-Jan-20	6,289,821		27-Feb-20
36	05-Feb-20	36	15-Feb-20	8,269,057		21-Mar-20
37	08-Mar-20	37	11-Mar-20	16,622,182		22-Apr-20
38	12-Apr-20	38	17-Apr-20	14,685,515		27-May-20
39	06-May-20	39	11-May-20	8,674,392		20-Jun-20
40	20-Jun-20	40	29-Jun-20	11,492,085		04-Aug-20
41	14-Jul-20	41	16-Jul-20	17,479,360		28-Aug-20
42	28-Aug-20	42	28-Aug-20	15,535,731	641,006.25	12-Oct-20
43	12-Sep-20	43	16-Sep-20	22,738,054		27-Oct-20
44	29-Oct-20	44	03-Nov-20	18,357,848		13-Dec-20
45	13-Nov-20	45	18-Nov-20	79,002,100		28-Dec-20
46	22-Dec-20	46	28-Dec-20	18,101,938	12,934.08	05-Feb-21
47	22-Jan-21	47	27-Jan-21	28,895,993		08-Mar-21
48	26-Feb-21	48	26-Feb-21	18,046,595		12-Apr-21

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49	22-Mar-21	49	27-Mar-21	12,177,261		06-May-21
50	11-Apr-21	50	15-Apr-21	105,933,373		26-May-21
51	15-Apr-21	51	24-Apr-21	8,659,218		30-May-21
52	18-Jun-21	52	26-Jun-21	22,498,685		02-Aug-21
53	06-Jul-21	53	08-Jul-21	22,274,250		20-Aug-21
54	24-Aug-21	54	02-Sep-21	6,968,066		08-Oct-21
55	24-Sep-21	55	01-Oct-21	5,436,112		08-Nov-21
56	06-Dec-21	56	15-Dec-21	14,485,408		20-Jan-22
57	18-Jan-22	57	27-Jan-22	8,255,319	17,028.08	04-Mar-22
58	08-Feb-22	58	11-Feb-22	119,768,095		25-Mar-22
59	23-Mar-22	59	24-Mar-22	27,388,195		07-May-22
60	22-May-22	60	27-May-22	8,921,704		08-Jul-22
61	06-Jul-22	61	22-Jul-22	9,959,510		20-Aug-22
62	26-Jul-22	62	01-Aug-22	19,934,095		09-Sep-22
63	26-Sep-22	63	07-Oct-22	15,673,379		10-Nov-22
64	02-Nov-22	64	16-Nov-22	7,380,082		17-Dec-22

**Total Amount in LC & FC** 1,175,090,215 1,307,509  
**Accepted Contract Amount** Rs 1,583,325,237 \$ 2,017,927  
**Disbursement Progress with respect to ACA** 74% 65%  
**Total Contract Amount (Rs.)** 1,785,117,937

<b>Details of Interim Payment Certificates of RV(Re-bid) – Contractor KGL</b>						
Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		Due Date
				Local Currency	Foreign Currency	
1	12-Jul-19	1 (Adv. Pay)	17-Jul-19	130,963,036		07-Aug-19
2	09-Mar-20	2	25-Mar-20	19,802,834		22-Apr-20
3	09-May-20	3	20-May-20	9,411,827		17-Jun-20
4	15-Aug-20	4	24-Aug-20	24,116,398		21-Sep-20
5	10-Oct-20	5	26-Oct-20	15,274,462		23-Nov-20
6	10-Dec-20	6	20-Dec-20	19,475,809		17-Jan-21
7	01-Feb-21	7	25-Feb-21	14,543,732		25-Mar-21
8	02-Apr-21	8	16-Apr-21	13,480,239		14-May-21
9	04-Jul-21	9	24-Jul-21	6,466,245		21-Aug-21
10	22-Nov-21	10	25-Nov-21	5,016,366		23-Dec-21
11	01-Apr-22	11	15-Apr-22	6,534,788		13-May-22
12	22-Aug-22	12	15-Sep-22	11,770,977		13-Oct-22

**Total Amount in LC** 276,856,713  
**Total Amount Certified (Rs.)** 276,856,713.00  
**Accepted Contract Amount** 654,815,181  
**Disbursement Progress with respect to ACA** 42.28%

<b>Details of Interim Payment Certificates of LBRV-11 – Contractor M/s Zongmei</b>						
Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		Due Date
				Local Currency	Foreign Currency	
1	23-Jun-17	1 (Adv. Pay)	04-Jul-17	83,204,565	1,343,848	25-Jul-17
2	02-Jul-19	2	27-Jul-19	10,967,224	244,073.58	27-Aug-19
2	18-Oct-19	3	18-Oct-19	5,704,559	126,953.95	13-Dec-19
4	01-Feb-20	4	10-Feb-20	7,097,482	157,953.19	28-Mar-20
5	30-Apr-20	5	12-May-20	8,413,484	187,240.57	25-Jun-20
6	20-Sep-20	6	06-Oct-20	14,612,501	315,475.78	15-Nov-20
7	29-Dec-20	7	23-Jan-21	6,767,978	150,620.15	23-Feb-21
8	06-May-21	8	03-Jun-21	8,090,729	127,265.24	01-Jul-21
9	24-Nov-21	9	20-Dec-21	29,671,210	101,302.52	19-Jan-22
10	31-Dec-21	10	24-Jan-22	59,080,621	172,441.90	25-Feb-22
11	13-Apr-22	11	27-Apr-22	58,760,674	94,065.32	08-Jun-22
12	18-Sep-22	12	10-Oct-22	8,191,493	85,705.12	13-Nov-22

**Total Amount in LC & FC (1USD = 104.8462 PKR) (LC 30:FC 70)** 300,562,520  
**Total Amount Certified including LC & FC (Rs.)** 616,451,539.06  
**Accepted Contract Amount** 1,120,509,415  
**Disbursement Progress with respect to ACA** 55.02%

<b>Details of Interim Payment Certificates of LBRV-12 – Contractor M/s Zongmei</b>						
Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		Due Date
				Local Currency	Foreign Currency	
1	23-Jun-17	1 (Adv. Pay)	04-Jul-17	75,233,228	1,222,084	25-Jul-17
2	05-Feb-20	2	18-Feb-20	5,697,404	126,794.70	01-Apr-20
3	05-Jun-20	3	15-Jun-20	6,263,338	139,389.45	31-Jul-20
4	09-Nov-20	4	01-Dec-20	5,732,406	127,573.68	04-Jan-21
5	03-Dec-20	5	29-Dec-20	7,530,157	167,582.29	28-Jan-21
6	05-Jul-21	6	24-Jul-21	8,933,670	198,817.22	30-Aug-21
7	25-Dec-21	7	08-Jan-22	7,712,692	171,644.56	19-Feb-22
8	28-Mar-22	8	23-Apr-22	36,548,959	150,462.38	23-May-22
9	30-May-22	9	26-Jun-22	28,572,688	61,502.53	25-Jul-22
10	01-Oct-22	10	27-Oct-22	46,629,121	124,209.29	26-Nov-22

**Total Amount in LC & FC (1USD = 104.8462 PKR) (LC 30:FC 70)** 228,853,663  
**Total Amount Certified including LC & FC (Rs.)** 489,927,002.26  
**Accepted Contract Amount** 1,016,820,466  
**Disbursement Progress with respect to ACA** 48.18%

<b>Details of Interim Payment Certificates of RBRV-11 – Contractor M/s CR17B</b>						
Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		Due Date
				Local Currency	Foreign Currency	
1	28-Sep-17	1 (Adv. Pay)	02-Oct-17	54,937,530	182,814	23-Oct-17

**Total Amount in LC & FC (1USD = 105.3 PKR) (LC 70:FC 30)** 54,937,530  
**Total Amount Certified including LC & FC (Rs.)** 74,187,844.20  
**Accepted Contract Amount** 370,939,497  
**Disbursement Progress with respect to ACA** 20.00%

# **APPENDIX G**

## **Details of Claims/Notifications**

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### Appendix G: Details of Claims/Notifications

Sr. No.	Claim Register No. & Claim Title	Short Description of Contractor's Submission	Claimed		Assessed		Engineer's/PM Action/Status
			Cost (PKR)	Cost (USD)	Cost (PKR)	Cost (USD)	
<b>Details of Claims/Notifications of KKH-01 – Contractor CCECC</b>							
1	KKH-01/C-1/C-4 Unfication of C-1 and C-4 Disruption and Delay in Site Possession	Contractor submitted nos. of Interim submissions. First interim submission was made on 18/06/17.	728,709,218		-		The Engineer's replied dated <b>20/07/2017</b> . Principle of claim was approved. <b>Contractor's substantiation for Additional cost awaited. Contractor provides expense record in interim submissions with out establishing cause-effect link.</b>
		On 14/10/18, Contractor submitted his claim for running cost of Dasu office - [Mar 2017 to Aug 2018]	7,836,150		-		The Engineer asked the Contractor to provide justification for the subject claim. <b>Awaiting Contractor's substantiation.</b>
		On 13/08/18, Contractor submitted Cost Claim - Extension of Workman Insurance	6,236,907		5,597,225		The Engineer recommended Interim entitlements- dated <b>13-Oct-2018</b> . The Employer agreed to include the Claim Cost 5,330,690 excluding the 'Profit' in IPC. (dated Employer's letter <b>24-03-2020</b> ) <b>Claim Paid.</b>
		On 08/04/19, Contractor submitted Cost Claim - Extension of CAR Insurances	62,860,388		58,410,095		Employer accorded approval on 23/10/20 to pay 55,628,662 PKR, as per actual receipts.
		On 18/05/19, Contractor submitted Cost Claim - Extending the Advance Payment and Performance Guarantees	2,337,028	319,282	913,470	259,661	The Employer was requested to verify the supporting doc of the claim - dated <b>1-Jun-2019</b> . The Initial assessment of the claim was sent to both parties for their agreement.(dated <b>23-Dec-2019</b> ). <b>Awaiting the Employer's Response</b>
		On 18/08/19, Contractor submitted Claim for 2nd extension of Workmen Compensation (WC) policy with effect from 1st August 2019 to 31 July 2020	4,820,243		4,265,702		Actual reimbursement for 2nd extension of WC Insurance policy may be agreed - [21-April-2020]. On 27-April-2020, Contractor's agreement subject to few condition was conveyed to Employer. Employer shared MSC comments. Engineer replied on 4-Oct-2020. <b>Employer replied to process it after 3rd EOT approval.</b>
		23-02-2022, Constractor's Cost claim regarding extension of Insurances and Guarantees	156,432,253	510,140	130,918,270	481,256	<b>the Engineer issued his assessment/determination on 25-04-2022</b>
2	KKH-01/C-5 Force Majeure-Heavy Rainfal and Land sliding	On 11/04/2016 the Contractor notified claim for extension of time and additional cost due to heavy rain caused land sliding and blockage of KKH					<b>The Engineer acknowledged and asked the contractor to submit full and detailed particulars according to sub clause 20.1 "Contractor's Claim" via DHC letter dated 28-04-2016 (Ref:16-043) Contractor's substantiation awaited</b>
3	KKH-01/C-6 Interference of Local	On 09/05/2016 the Contractor notified claim for extension of time and additional cost due to Stoppage of works by Interference of Locals at Uchar					<b>The Engineer acknowledged and asked the contractor to submit full and detailed particulars according to sub clause 20.1 "Contractor's Claim" via DHC letter dated 11/05/2016 (Ref: 16-051) Contractor's substantiation awaited</b>
4	KKH-01/C-7 Delayed Drawings	On 19/05/16 Contractor notified claim for extension of time and additional cost Incurred by Delayed Cross Section Drawings					<b>The Engineer asked the contractor to submit full and detailed particulars according to sub clause 20.1 "Contractor's Claim" via DHC letter - dated 23-05-2016 (Ref:16-060) Contractor's substantiation awaited</b>
5	KKH-01/C-8 Cost of Damage to Loader	On 20/06/16, Contractor submitted his Cost details of the lost loader	9,010,118		-		<b>The principle of the Contractor's claim is disapproved. DHC letter - dated 9-Aug-2017.(Ref:028) Claim Disapproved</b>
6	KKH-01/C-9 Uchar Slope Collapse	On 05/06/2016 the Contractor motified claim for extension of time and additional cost due to Huge Slope Collapse at Uchar.					<b>The Engineer acknowledged and asked the contractor to submit full and detailed particulars according to sub clause 20.1 "Contractor's Claim" via DHC letter dated 20-07-2016 (Ref:16-086) Contractor's substantiation awaited</b>
7	KKH-01/C-10 Stone Slide EOT	On 14/07/2016 the Contractor motified claim for extension of time and additional cost due to Huge Stone Slide at Barseen					<b>The Engineer acknowledged and asked the contractor to submit full and detailed particulars via DHC letter dated 04/08/2016 (Ref:16-100) Contractor's substantiation awaited</b>
8	KKH-01/C-11 Dumping at Barseen EOT	On 02/09/2016 the Contractor motified claim for extension of time and additional cost due to difficulty in Dumping at Barseen Spoil Bank					<b>The Engineer acknowledged and asked the contractor to submit full and detailed particulars according to sub clause 20.1 "Contractor's Claim" via DHC letter dated 05-09-2016 (Ref:16-109) Contractor's substantiation awaited</b>
9	KKH-01/C-12 Development of Crack near Barseen EOT	On 31/08/16, Contractor notified claim for Time and Cost Incurred by stoppage of work due to development of 40m Crack					The Engineer asked the contractor to submit full and detailed particulars. <b>DHC letter - dated 19-09-2016 (Ref:113). Contractor's substantiation awaited.</b>

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**Appendix G [2/12]**

Sr. No.	Claim Register No. & Claim Title	Short Description of Contractor's Submission	Claimed		Assessed		Engineer's/PM Action/Status
			Cost (PKR)	Cost (USD)	Cost (PKR)	Cost (USD)	
10	KKH-01/C-13 Revised Drawings issuance and Cancellation	On 27/12/16, Contractor notified claim for Time and Cost Incurred due to Delay in Construction, Revised Design and instruction					The Engineer asked the contractor to submit full and detailed particulars. <i>DHC letter - dated 10-01-2017 (Ref:010).</i> <b>Contractor's substantiation awaited.</b>
11	KKH-01/C-14 Reducing of R.O. W, increase in gradient of slopes and change in alignment	On 08/01/18, Contractor notified claim due to the certain design changes owing to reducing the R.O.W, and change of alignment of works					The Engineer asked the contractor to submit full and detailed particulars <i>DHC letter - dated 10-01-2018 (Ref:007).</i> <b>Contractor's substantiation awaited</b>
12	KKH-01/C-15 Delays in provision of the NOC required for crushing plant	On 25/01/18, Contractor notified claim due to Employer's lack of assistance and delays in obtaining NOC's required for Crushing Plant.					The Engineer asked the contractor to submit full and detailed particulars <i>DHC letter - dated 29-01-2018(Ref:031).</i> <b>Contractor's substantiation awaited</b>
13	KKH-01/C-16 Vandalization of Contractor's Generator	On 06/08/18, Contractor notified Claim for Generator used for dust control at Shaal Area was found vandalized.					The Contractor was advised to submit contemporary records in support of your claim. <i>DHC letter - dated 09-Aug-2018 (Ref:138).</i> <b>Contractor's substantiation awaited</b>
14	KKH-01/C-17 Claims on account of reduction in rate of work	On 03/09/18, Contractor notified Claim on account of non-payment of IPC No. 7.					The Contractor advised to clarify the extent to which he intends to reduce rate of progress. <i>DHC letter - dated 6-Sep-2018.</i> <b>Contractor's substantiation awaited</b>
15	KKH-01/C-18 Delayed Drawings or Instructions	On 16/05/19, Contractor notified claim for Stoppage of works at K5+743 and Issuance of revised drawings from K6+500 to K8+500 under the same GC Sub clause i.e. 1.9					<i>DHC letter - dated 20-May-2019 (Ref:152)</i> <b>Contractor's substantiation awaited</b>
16	KKH-01/C-19 Force Majeure-strike by 80 Members Dam Committee	On 08/10/19, Contractor notified Force Majeure that was instigated by the protest of the 80-Member Dam Committee. Works' stoppage period [18 Sep 19 to 4 Oct 19]					<i>DHC letter - dated 12-Oct-2019 (Ref:349)</i> <b>Contractor's substantiation awaited</b>
17	KKH-01/C-20 Interference due to other Employer's Contractor	On 05/12/19, Contractor notified - Delays due to interference from Employer's other Contractor pursuant to Sub-Clauses 2.3, 4.6, 20.1, & 8.4.					<i>DHC letter - dated 14-Dec-2019 (Ref:414)</i> <b>Contractor's substantiation awaited</b>
18	KKH-01/C-21 Claim due to outbreak of Corina Virus (2019-nCoV)	On 16/03/20, Contractor notified claim for Site progress delay caused by inconvenient material mobilization (Steel), purchasing and other impacting due to 2019-nCov under GC 19.4, 3.1, 13.7					<i>DHC letter - dated 8-April-2019 (Ref:077) and 24-July-2020 (Ref:167)</i> <b>Contractor's substantiation awaited</b>
19	KKH-01/C-22 Claim due to due to Shortage of Fuel	On 13/06/20, Contractor notified Intention to claim extension of time and additional cost due to shortage of fuel under Sub Clause 8.4 and Sub-Clause 19.4 of General Condition of Contracts.					<i>DHC letter - dated 29-June-2020 (Ref:145)</i> <b>Contractor's substantiation awaited</b>
20	KKH-01/C-23 Demobilization of Labour belongs to Gilgit	On 28/03/21, the Contractor notified calim due to Demobilization of Labour belongs to Gilgit					<i>DHC letter - dated 1-Apr-2021 (Ref:063)</i> <b>Contractor's substantiation awaited</b>
21	KKH-01/C-24B Stoppage of work by dismissed employees and locals.	On 8/07/21, the Contractor notified calim due to stoppage of work by dismissed employees and locals.					<i>DHC letter - dated 24-Aug-2021 (Ref:147)</i> <b>Contractor's substantiation awaited</b>
22	KKH-01/C-24A IED Blast Incident	On 2/08/21, the Contractor notified calim due to stoppage of work due to IED Blast Incident					<i>DHC letter - dated 13-Aug-2021 (Ref:144)</i> <b>Contractor's substantiation awaited</b>
23	KKH-01/C-25 Increase in PST	On 17/12/21, the Contractor notified claim for additional cost due to change in legislation in KPK PST rate from 1% to 2%.					<i>DHC letter - dated 27-December-2021 (Ref:193)</i> <b>Contractor's substantiation awaited</b>
25	KKH-01/C-26 Inundation of Contractor's Uchar Camp due to Flooding in Uchar Nullah	On 13/08/2022, the Contractor notified its intention to claim for Inundation of Contractor's Uchar Camp due to Flooding in Uchar Nullah					<i>DHC letter - dated 31-August-2022 (Ref:134)</i> <b>Contractor's substantiation awaited</b>
26	KKH-01/C-27 Closure of KKH due to Flash Floods	On 28/08/2022 and 30/08/2022 the Contractor notified its intention to claim for additional cost and time due to closure of Karakoram Highway because of Flash Floods					<i>DHC letter - dated 01-September-2022 (Ref:135)</i> <b>Contractor's substantiation awaited</b>
<b>Details of Claims/Notifications of RAR-01 – Contractor CCECC</b>							
1	RAR-01/C1-C4 Unfication of C-1 and C-4		104,304,865		-		The Engineer's replied dated 20/07/2017. Principle of claim was approved. <b>Contractor's substantiation for Additional cost</b>

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**Appendix G [3/12]**

Sr. No.	Claim Register No. & Claim Title	Short Description of Contractor's Submission	Claimed		Assessed		Engineer's/PM Action/Status
			Cost (PKR)	Cost (USD)	Cost (PKR)	Cost (USD)	
	Disruption and Delay in Site Possession						<b>awaited. Contractor provides expense record in interim submissions with out establishing cause-effect link.</b>
		On 13/01/19 Contractor submitted Price adjustment claim for period of Sep 2016 to Sep 2018	15,527,857				The Engineer forwarded his recommendation to the Employer on 20-3-2019. The WAPDA agreed in principle, however on basis of actual additional cost instead of using Formulae. The Engineer asked the Contractor to submit detail claim EOT wise (19/12/19). <b>Contractor's substantiation awaited</b>
		The Contractor on 7-09-2022 and 14-10-2022 submitted the Inflation Claim for Section of Works K0 to K12.	366,166,698	399,480	275,168,491	181,613	The Engineer made his determination on 27-Oct-2022 via <b>DHC letter DHC/DASU/WAPDA.RAR-01/PM/22-098 Claim Paid</b>
		On 04/08/18 Contractor submitted claim for Reimbursement of Premium- Extension of Workman Insurance	2,873,330		2,578,930		The Engineer recommended Interim entitlements - dated 13-Oct-2018. The Employer agreed to include the Claim Cost 2,455,838 excludes the 'Profit,' in IPC. (dated Employer's letter 25-03-2020) <b>Claim Paid.</b>
		On 08/04/19 Contractor submitted claim for 2nd Extension of Workman's Insurance	2,851,616		2,649,721		Engineer's assessment shared with both parties on 28/05/19. The Contractor partially agreed. The Employer has accorded formal approval as per insurer verified receipts i.e., Rs 2,523,554/- [DHC Ref: 115 dated 14-July-2020]. <b>Claim Paid.</b>
		On 09/08/20 Contractor submitted claim for Extension of Workers Compensation (WC) Insurance Policy from 9th March 2020 to 8th March 2021	2,190,993				Engineer will proceed Sub-Clause 3.5 [Determinations], after the 4th EOT is accorded by the Employer and/or the Engineer completes its assessment on EOT. [31-Aug-2020].
		On 08/04/19 Contractor submitted claim for Extension of All Risk Insurance Works, Equipment and Third party liability	12,132,400		11,273,469		Engineer's assessment shared with both parties on 28/05/19. The Contractor partially agreed. The Employer has accorded the formal approval as per the insurer verified receipts i.e., Rs 10,736,637 - [DHC Ref: 115 dated 14-July-2020]. <b>Claim Paid.</b>
		On 18/05/19 Contractor submitted Claim - Extending the Advance Payment Guarantee and Performance Guarantee	4,683,011	70,888.15	2,348,945.00	60,581.25	The Employer was requested to verify the supporting doc of the claim. <b>DHC letter - dated 1-Jun-2019 (Ref:161)</b> . The additional contemporary record was provided by Contractor at end of August 2019. The Engineer shared his assessment with both parties on 29-Nov-2019. <b>Awaiting the Employer's Response. [Contractor]</b>
		23-02-2022, Contractor's Cost claim regarding extension of Insurances and Guarantees	26,305,766	60,212.00	22,238,918.00	56,039.24	<b>the Engineer issued his assessment/determination on 12-04-2022</b>
2	RAR-01/C-05 Force Majeure-Heavy Rainfall and Land sliding	On 11/04/2016 the Contractor notified claim for extension of time and additional cost due to heavy rainfall and land sliding (Force Majeure)					The Engineer asked the Contractor to submit full and detailed particulars according to sub clause 20.1 "Contractor's Claim" via <b>DHC letter - dated 28-04-2016 (Ref:16-029)</b> <b>Contractor's substantiation awaited</b>
3	RAR-01/C-6 Delayed Drawings EOT	On 19/05/16 Contractor notified claim for Time and Additional Cost Incurred by Delayed Cross Section Drawings					The Engineer asked the contractor to submit full and detailed particulars according to 1.9 "Delayed Drawings or Instructions" & 20.1 "Contractor's Claim". <b>DHC letter - dated: 24-05-2016</b> <b>Contractor's substantiation awaited</b>
4	RAR-01/C-7 Stoppage of works by local people	On 9/10/2016 the Contractor notified claim for extension of time and additional cost due to stoppage of work at construction of retaining wall by local people					The Engineer asked the Contractor to submit full and detailed particulars according to sub clause 20.1 "Contractor's Claim" via <b>DHC letter - dated 17-10-2016 (Ref:16-080)</b> <b>Contractor's substantiation awaited</b>
5	RAR-01/C-8 Stoppage of work by local resident	On 31/07/2017 the Contractor notified claim for the extension of time and additional cost due to stoppage of compaction by local resident					The Engineer asked the Contractor to submit full and detailed particulars according to sub clause 20.1 "Contractor's Claim" via <b>DHC letter - dated 03-08-2017 (Ref:17-017)</b> <b>Contractor's substantiation awaited</b>
6	RAR-01/C-09 Force majeure linked to massive land sliding at K6.	On 07/03/19 Contractor notified claim for Extension and Additional Cost due to stoppage of works - Force majeure linked to massive land sliding at K6.					The Engineer asked the contractor to submit full and detailed particulars according to 20.1 "Contractor's Claim" of GCC. <b>DHC letter - dated: 08-03-2019 (Ref:042)</b> <b>Contractor's substantiation awaited</b>
7	RAR-01/C-10 Force Majeure - Heavy Rain	On 22/08/19 & 27/08/19 Contractor notified claim for Extension and Additional Cost due to Force Majeure-Heavy Rainfall					The Engineer asked the contractor to submit full and detailed particulars according to 20.1 "Contractor's Claim" of GCC. <b>DHC</b>



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**Appendix G [4/12]**

Sr. No.	Claim Register No. & Claim Title	Short Description of Contractor's Submission	Claimed		Assessed		Engineer's/PM Action/Status
			Cost (PKR)	Cost (USD)	Cost (PKR)	Cost (USD)	
							letter - dated: 4-9-2019 (Ref:168) <b>Contractor's substantiation awaited</b>
8	RAR-01/C-11 Force Majeure-strike by 80 Members Dam Committee	On 08/10/19 Contractor notified claim for Force Majeure that was instigated by the protest of the 80-Member Dam Committee. Works' stoppage period [18 Sep 19 to 4 Oct 19]					DHC letter - dated 12-Oct-2019 (Ref:202) <b>Contractor's substantiation awaited</b>
9	RAR-01/C-12 Claim due to outbreak of -Corina Virus (2019-nCoV)	On 15/07/2020 Contractor notified claim for Site progress delay caused by inconvenient material mobilization (Steel), purchasing and other impacting due to 2019-nCov under GC 19.4, 3.1, 13.7					DHC letter dated 24-July-2020 (Ref:124) <b>Contractor's substantiation awaited</b>
10	RAR-01/C-13 Claim due to due to Shortage of Fuel	On 13/06/20 Contractor notified claim for Intention to claim extension of time and additional cost due to shortage of fuel under Sub Clause 8.4 and Sub-Clause 19.4 of General Condition of Contracts.					DHC letter - dated 29-June-2020 (Ref:104) <b>Contractor's substantiation awaited</b>
11	RAR-01/C-14 Damages Due to Massive Land Sliding	On 2/08.21, Notice of Claim - Damages Due to Massive Land Sliding Blocking of RAR-01					DHC letter - dated 24-Aug-2021 (Ref:096) <b>Contractor's substantiation awaited</b>
12	RAR-01/C-15A 2021- Change in Legislation - KPK PST	on 17th Dec 2021, Notice of Claim- Increase in KPK provisional Slaes Tax.					DHC letter- dated 27th Dec 2021 (Ref: 137) <b>Claim Registered</b>
13	RAR-01/C-15B Rainfal-Land Sliding and Blockage of RAR-01	On 3rd Sep 2021 the Contractor requested to register claim regarding Rainfal and landslidig as RAR-01/C-15					DHC letter-dated 08-Sep-2021 (Ref:105) <b>Claim Registered</b>
14	RAR-01/C-16 Land and Social Issues of Komila Bypass	On 30 May 2022 the Contractor notified the claim for extension of time and additional cost due to delay in land aquisition and social issues on Komila bypass					DHC letter-dated 02-June-2022 (Ref:054) <b>Claim Registered</b>
15	RAR-01/C-17 Inundation of Contractor's Uchar Camp due to Flooding in Uchar Nullah	On 13/08/2022, the Contractor notified its intention to claim for Inundation of Contractor's Uchar Camp due to Flooding in Uchar Nullah					DHC letter - dated 31-August-2022 (Ref:076) <b>Contractor's substantiation awaited</b>
16	RAR-01/C-18 Closure of KKH due to Flash Floods	On 28/08/2022 and 30/08/2022 the Contractor notified its intention to claim for additional cost and time due to closure of Karakoram Highway because of Flash Floods					DHC letter - dated 01-September-2022 (Ref:077) <b>Contractor's substantiation awaited</b>
<b>Details of Claims/Notifications of TL-01 – Contractor PCCC</b>							
1	TL-01/C-1 Idle Cost Claim [Direct Cost]	On 14/02/18, Contractor submitted idle Direct cost claim for the period of 2-Nov-2015 to 31-Dec-2016	7,109,690		3,766,650		Employer's approval to pay in IPC recieved on <b>2-8-2019. Claim Paid.</b>
		On 14/11/18, Contractor submitted idle Direct cost claim for the period of 1-Jan-2017 to 31-April-2018	2,676,159		1,736,075		Employer's approval to pay in IPC recieved on <b>5-8-2019. Claim Paid.</b>
2	TL-01/C-1 Overhead Claim (Management, offices camp etc) - [Indirect Cost]	On 04/03/19, Contractor submitted Overhead Claim (Management, offices camp etc) - [Indirect Cost] claim for the period of June 2016 to March 2018	161,670,931		74,679,085		Employer's approval to pay recieved on <b>23-10-20. Claim Paid.</b>
		On 04/03/19, Contractor submitted Overhead Claim (Management, offices camp etc) - [Indirect Cost] claim for the period of April 2018 to April 2020	149,088,173		119,786,095		Employer's approval to pay recieved on <b>31-1-22. Claim Paid.</b>
		On 06/07/20, Contractor submitted Chinese Staff's Social Insurance June 2016 to December 2019	65,054,640				<b>Contractor agreed that this claim to be considered alongwith other Management claim.</b>
	3rd Interim Management Cost Claim for Social insurances of Chinese Staff	On 14/04/2022 the Contractor submitted his 3rd interim management cost claim for social insurances of Chinese Staff for the period of June 2016 to Dec 2019	32,602,984		28,843,299		<b>The Engineer sent his evaluation to the Employer for approval on 1-06-2022</b>
3	Tentative and Abortive Claim	On 18/07/20, Contractor submitted Tentative and Abortive Claim.					DHC/Dasu/PCCC/TL-01/rar/21-049 dated 15th April 2021 the Contractor <b>withdraw</b> his claim
4	TL-01/C-2 Equitable Adjustment EoT	On 08/02/16, Contractor submitted Equitable Adjustment Claim.	18,988,060		-		Assessment of "No Entitlement" submitted to WAPDA, and suggested to reply to Contractor - dated <b>23 February 2016. Claim Disapproved</b>

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**Appendix G [5/12]**

Sr. No.	Claim Register No. & Claim Title	Short Description of Contractor's Submission	Claimed		Assessed		Engineer's/PM Action/Status
			Cost (PKR)	Cost (USD)	Cost (PKR)	Cost (USD)	
5	Reduction in rate of Progress	On 08/03/17, Contractor submitted Reduction in rate of Progress claim for period of 11/10/2016 to 17/02/2017.	27,860,000		-		Explanatory Note submitted to WAPDA on <b>29 April 2017</b> . <b>Claim Disapproved</b>
6	TL-01/C-7 Care & Custody of Equipment	On 11/04/18, Contractor submitted claim of care and custody of Grid station and TL Equipment from Nov 2017 to 31st March 2018	7,632,186		444,645		Project Manager assessment submitted on <b>10-Jul-2018</b> . The Employer agreed with PM Assesment. Contractor replied on <b>12-11-19</b> that he did not agrred with PM assessment.
		On 18/02/19, Contractor submitted claim for Additional Charges for care & Custody of Grid Station Equipment from April 2018 to Nov 2018	2,393,313		227,025		Project Manager assessment submitted on <b>3-Sep-2019</b> . The Employer agreed with PM Assesment. Contractor replied on <b>12-11-19</b> that he did not agrred with PM assessment.
7	Extension of Insurance and Guarantee Policies	On 27/07/18, 15/11/2018 Contractor submitted claim for Additional charges - Extension of Insurance and Guarantee Policies	23,106,045		14,948,404		<b>Agreed and paid</b> GM/DP/DHPP/AD( C)TL-01/43B/9245-49 dated 15-11-2019
		On 22/04/19, Contractor submitted claim for Additional charges - Extension of Insurance and Guarantee Policies			4,720,820		<b>Claim Paid</b> GM/DP/DHPP/Contracts/TL-01/43/6869-73 dated 1/12/2021
8	Relocation of Tower route	On 14/01/19, Contractor's Notice of Claim with regard to Relocation of Towers					<b>DHC letter - dated 18-January-2019. (Ref:010)</b> <b>Contractor's substantiation awaited.</b>
9	Perceived Disruption to Excavation Work	On 28/02/19, Contractor notified Claim for Delayed land acquisition and ROW issues					<b>DHC letter - dated 3-March-2019 (Ref:043).</b> <b>Contractor's substantiation awaited.</b>
10	Price Adjustment for Market Inflation	On 18/02/19, Contractor submitted Claim for Price Adjustment as a result of market inflation during the extended period of work.					<b>Principle of Claim submitted</b> <b>DHC letter DHC/Dasu/PCCC/TL-01/cad/22-087 dated 29th May, 2022. Delay Analysis required by the Contractor</b>
11	TL-01/C-8 Redesign and difficulty in execution of Grid Station	On 22/05/19, Contractor submitted Claim for Additional cost on account of redesigning of Grid Station.	47,157,647	3,898,986			The Project Manager <b>issued Principle of claim and assessment.</b> <b>DHC/Dasu/WAPDA/TL-01/cad/22-052 dated 14th March 2022</b>
12	Change proposal initiated and then Suspended	On 18/11/19, Contractor submitted Claim- Design and Procurement Cost for Preparing the Change Proposal(CR-TI-01-001 ). Change proposal was initiated by Employer in 2015 and suspended by the Employer in 2017.	695,700	4,094	Nil	4,094	<b>Agreed and paid</b> GM/DP/DHPP/Contracts/TL-01/43/6869-73 dated 2-12-2021
13	Claim Documentation for Guarantee Charges Before Effective Date	On 20/03/20, Contractor submitted claim for Cost of maintenance of guarantees from issue date till to effective date	1,600,914				Contractor agreed in meeting to <b>withdraw</b> this case. [Ref. <b>DHC/Dasu/PCCC/TL-01/rar/21-002 dated 11 January 2021</b> ]
14	Claim for Re-excavation/ Slide Removal from Year 2016-19	On 01/04/20, Contractor submitted claim due to continuous ROW issues the backfilling activity of the Contractor was interrupted. The contractor is submitting claim of re-excavation/slide removal from year 16 to 19.	8,459,812				The Contractor agreed to <b>withdraw</b> this claim <b>Ref. letter # DHC/DASu/PCCC/TL-01-cad/22-054 dated 21Mard 2022</b>
15	Outbreak of Corona Virus (2019-nCoV)	On 02/04/20 Contractor notified Force Majeure under GC Sub-Clause 37.1 due to outbreak of COVID19.					<b>DHC letter - dated 15-April-2020</b> <b>Awaiting for Contractor's detailed submssion</b>
16	TL-01/C-09 Right of Way	On 10/04/20, Contractor notified Notice for Extension in Time due to RoW issue					<b>DHC letter - dated 18-April-2020</b> <b>Awaiting for Contractor's detailed submssion</b>
17	TL-01/C-10 Slow Progress by Land Owner's Labour	On 12/03/21, Contractor notified Notice for additional cost due to Slow Progress by Land Owner Labour hired to assist the Employer in resolving RoW issue					<b>PM replied via DHC/Dasu/PCCC/TL-01/CAD/22-015 dated 24th January 2022</b> <b>Awaiting for Contractor's detailed submssion</b>
18	TL-01/C-11 Transportation and loading/unloading of Power Transformer	On 6th May 2021, the Contractor submitted a notice of calim regarding additional cost for the power transformer transportation and other associated costs					<b>DHC letter - dated 1st June-2021</b> <b>The Engineer registered the subject claim</b>
<b>Details of Claims/Notifications of DASU-MW-01 – Contractor CGGC</b>							
1	MW-01/C-01 Claims for Additional Cost and Time due to delay of Land Handing Over	Contractor submitted 14 nos. of Interim submissions from Jun 23 2017 to Aug 31 2020. First submission was submitted on 18-Aug-2017					The Engineer's replied dated <b>26 September, 2017</b> . Principle of claim was approved. Contractor's substantiation for Additional cost and EOT awaited. Contractor provides expense record in interim submissions with out establishing+H91+H89:192+H89:193+H8+H89:117
		Contractor submitted prolongation claim on 14-06-2022 at cut-off date 14-07-2021	8,115,076,911	77,805,148			<b>Arranged a discussion meeting with the Contractor's personnels and asked for required substatial documents in support of the</b>

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**Appendix G [6/12]**

Sr. No.	Claim Register No. & Claim Title	Short Description of Contractor's Submission	Claimed		Assessed		Engineer's/PM Action/Status
			Cost (PKR)	Cost (USD)	Cost (PKR)	Cost (USD)	
							<i>claim The Engineer Is working on principle of claim. Target date 30-Nov-22</i>
2	MW-01/C-02 Adjustment to Contracts Price due to change in legislation (Withholding Tax)	Withholding tax was increased from 6% to 7% after the Base Date as a result of adjustments in the Income Ordinance (2001 ). Contractor submitted Claim notification dated 22/12/2017.					<i>Engineer replied on 29-Oct-2019 and 23-Dec-2019, asked the Contractor to submit additional supporting data for the Engineer to comment on principle of claim. Additional documents are awaited to determine Time bar implication.</i>
3	MW-01/C-03Disruption Claim - [Work Hindrance by Local Residents]	Contractor submitted on [24/07/2020] first Interim disruption Claim for the Period up to Jan 2019	48,630,356				<i>Engineer's princple of claim sent on 12-01-2021</i>
		Contractor again submitted on interim claim on 14-06-2022 due to disruption of local people upto Jan 2019	3,480,934	33,374			<i>Engineer replied on 05-07-2022 with comments and asked for additional substantial documents in support of the claim On 1-Aug-2022, the Contractor was once again asked to provide additional substantial documents. Contractor's Response awaited</i>
4	MW-01/C-04 Damage to Contractor's Industrial Water Pipe due to unexpected Mud-Rock Flow in Uchar Area	On [18/08/2018], Contractor submitted his claim for Damage to Contractor's Industrial Water Pipe due to Unexpected Mud-Rock Flow in Uchar					<i>The Engineer, on 20-09-2018, assessed and replied that the principle of the Contractor's Claim is disapproved pursuant to 19.4. Claim denied.</i>
5	MW-01/C-05 Work hindrance by Local Residents	The Contractor submitted his claim notifications on 05/09/2018 and 29/10/2018 for additional cost and EOT due to strike by local residence.					<i>The Engineer replied that the strike was done by Contractor's own employees. Without admitting Employer's liability, the Engineer asked, on 5-11-2018 (Ref:442), the Contractor for the submission of detail claim. Contractor's substantiation awaited.</i>
6	MW-01/C-06 Delay in Issuance of Drawings	The Contractor notified the intent to claim due to delay in the review of shop drawings [29/10/2018]					<i>Engineer Replied on 5-11-2018 (Ref:443) Contractor's substantiation awaited.</i>
7	MW-01/C-07 Provision of Electricity	The Contractor's intention to claim due to non provision of Electricity [26/02/2019]					<i>Engineer Replied on 18-03-2019 . The Contractor is fully responsible for the provision of electricity. Claim denied.</i>
8	MW-01/C-08 Work Stoppage due Landslide Incident	Suspension of Work from 15 to 18 January: Claim for EOT and Costs - Contractor submission on 16/02/2019 and 17/04/2019.	37,280,470				<i>Replied on 18-03-2019 and 17-05-2019. The formal notice of your intention to claim was provided outside of the 28 days' time-bar. Claim denied.</i>
		The Contractor submitted a revised claim on 14-06-2022 after DB's decision	5,049,342	48,412			<i>Replied on 05-07-2022 and asked for additional substantial documents in support of the subject claim. Contractor's response is awaited</i>
9	MW-01/C-09 Change in Legislation Additional (Custom Duty/Tax on Import of Goods)	On 18/08/2019, Contractor Claim under a Change in Legislation due to the levy of additional customs duties and regulatory duties on the importation of Goods. Contractor submitted Interim Claim No 2 (Feb 2019 to Dec 2019) - dated 23/08/2020.	56,780,851	404,333			<i>Principle of claim issued -DHC/Dasu/CGGC/MW-01/cad/21-491 dated 17th Nov 2021</i>
		The Contractor on 14-06-2022 submitted claim for additional charges due to increase in various import taxes, at the cut off date 31 Dec 2019	54,369,672	521,282			<i>Response submitted via DHC/Dasu/CGGC/MW-01/CAD/22-459 dated 12-09-2022 Additional substiation is awaited</i>
		The Contractor on 08-09-2022 submitted claim for additional charges due to increase in various import taxes, from Jan 2020 to Dec 2021					<i>The Engineer responded on 12-Sep-2022 reiterating his stance as given in the Principle of Claim issued on 17-Nov-2021 and asked the Contractor to submit the Claims in accordance with the Principles The Engineer and the Contractor had a consultation meeting on 15-Oct-2022 and Contractor agreed to provide the working as per Engineer's Principles of Claim.</i>
10	MW-01/C-10 Stoppage by the 80 Members Dam Committee: Claim for EOT	Claim for EOT due to "Force Majeure- strike by 80 Members Dam Committee" - [13/10/2019]					<i>The Engineer replied on 25-Oct-2019. CGGC/MW-01/CD/DHC-510 dated 29th October 2019 DHC/DASU/CGGC/MW-01/you/19-401 dated 2-Nov-2019 EOT Claim to be considered in revised time for variation</i>
11	MW-01/C-11 Unforeseeable Cost due to Co-operation	On 04/09/2020, Contractor submitted first Interim Claim for the Period up to Dec 2018	10,280,007				<i>Engineer's princple of claim sent on 12-03-2021</i>

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**Appendix G [7/12]**

Sr. No.	Claim Register No. & Claim Title	Short Description of Contractor's Submission	Claimed		Assessed		Engineer's/PM Action/Status
			Cost (PKR)	Cost (USD)	Cost (PKR)	Cost (USD)	
12	MW-01/C-12 Outbreak of Corina Virus (2019-nCoV)	Contractor submitted nos. of interim Direct Cost claim for the Period up to 31 Jan 2021					The Engineer provided detailed response on 9/10/20. Only EOT may be acceptable. Cost is Contractor's risk under Contract. <b>Principle of Claim denied.</b>
		The Contractor submitted revised interim claim of Direct cost due to Covid-19 on 7-06-2022					<b>Claim Denied</b> <b>DHC/Dasu/CGGC/MW-01/CAD/22-502 dated 22-09-2022</b>
		The Contractor submitted interim claim of direct cost due to covid-19 on 09-07-2022, 25-09-2022 and 27-09-2022					The Engineer replied on 30-Sep-2022 <b>Claim Denied</b>
13	Claim for Crusing Plant and Batching Plant	Contractor submitted detail claim on 4-09-2019					The payment made in IPCs on pro-rata basis.
		The Contractor submitted revised claim on 12-04-2022	412,817,975	3,957,986			Engineer on 24-06-2022 sbmitted <b>Principle of Claim</b>
14	MW-01/C-13 Firing incident at River Diversion inlet area	Contractor submitted detail claim on 22-03-2021	224,592,226				Engineer Replied on 25-02-2021 (Ref:090) .
		The Contractor submitted revised claim on 14-06-2022	25,163,812	241,264			Engineer's <b>Principle of Claim sent on 30-08-2022</b> Contractor has been asked to resubmit the claim <b>Contractor's Entitlement to claim accepted under Sub-Clause 8.8 and 8.9</b>
15	Illegal Industrial Action for the Period of January 2021	Contractor submitted detail claim on 20-02-2021					Engineer's princple of claim sent on 26-03-2021 <b>Principle of Claim denied.</b>
		The Contractor submitted revised claim on 14-06-2022	6,822,489	65,412			Engineer's princple of claim sent on 05-07-2022 <b>Principle of Claim denied.</b>
16	MW-01/C-14 Claim regarding 14-July Blast incident	On 24/07/21, Contractor notified claim due 14-July Blast incident	1,174,806,795	11,263,728			Engineer Replied on 12-08-2021 (Ref:358). <b>Contractor's substantiation awaited.</b> <b>Further Engineer will issue the Principle of claim after evaluating the Prolongation Claim</b>
17	MW-01/C-15 Amended Reinforcement Design	On 20/03//2022, the Contractor notified its itnent to claim due to amended reinforcement design					DHC letter - dated 09-April-2022 (Ref:144) <b>Contractor's substantiation awaited.</b>
18	MW-01/C-16 Flood in Uchar Nullah	On 31/07/2022 and 10/08/2022, the Contractor notified its itnent to claim due to Flood in Uchar Nullah					DHC letter - dated 15-August-2022 (Ref:402) <b>Contractor's substantiation awaited.</b>
19	MW-01/C-17 Natural Catastrophe	On 27/08/2022, the Contractor notified its itnent to claim due to exceptionally adverse climatic conditions (Natural Catastrophe)					DHC letter - dated 05-September-2022 (Ref:441) <b>Contractor's substantiation awaited.</b>
<b>Details of Claims/Notifications of DASU-MW-02 – Contractor CGGC</b>							
1	MW-02/C-01 Claims for Additional Cost and Time due to delay of Land Handing Over	Contractor submitted 14 nos. of Interim submissions from Jun 23 2017 to Aug 31 2020. First submission was submitted on 18-Aug-2017					The Engineer's replied dated 28 September, 2017 on principle of claim, and provided detail comments on contemporary records . <b>Principle of claim approved.</b> Contractor's substantiation for Additional cost and EOT awaited. Contractor provides expense record in interim submissions with out establishing cause-effect link.
		The Contractor submitted prolongation cliam at cut-off date 14-07-2021	5,191,161,238	49,771,488			Arranged a discussion meeting with the Contractor's personnels and asked for required substial documents in support of the claim The Engineer is working on Principle of Claim. Target date is 30-Nov-2022
2	MW-02/C-02 Additional Cost due to Change in Legislation	Withholding tax was increased from 6% to 7% after the Base Date as a result of adjustments in the Income Ordinance (2001 ). Contractor submitted Claim notification dated 22/12/2017.					Engineer asked the Contractor to submit additional supporting data for the Engineer to comment on principle of claim. <b>Additional documents are awaited to determine Time bar implication.</b>
4	MW-02/C-03 Effective access to PTDC camp area	The Contractor on 23-01-2018 submitted claim due to prevention of effective acces to PTDC camp area resulting stoppage of work.					Engineer registered the claim as MW-02/C-03 for future correspondenses
	MW-02/C-04 Delay in Issuance of Drawings	The Contractor has notified the intent to claim due to delay in the review of shop drawings - [29/10/2018]					The Engineer (date 5 Nov. 2018) replied. <b>Contractor's substantiation awaited.</b>
5	MW-02/C-05 Provision of Electricity	The Contractor's intention to claim due to non provision of Electricity - [26/02/2019]					The Contractor is fully responsible for the provision of electricity [Ref: date 18-March-2019] <b>Claim denied.</b>

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**Appendix G [8/12]**

Sr. No.	Claim Register No. & Claim Title	Short Description of Contractor's Submission	Claimed		Assessed		Engineer's/PM Action/Status
			Cost (PKR)	Cost (USD)	Cost (PKR)	Cost (USD)	
6	Work Stoppage due to Landslide Incident	Suspension of Work from 15 to 18 January: Claim for EOT and Costs - [17/04/2019]	18,371,545				Formal notification of the Contractor's intention to claim was provided outside of the 28 days' time-bar- <b>[Ref: date 8-May-19] Claim denied.</b>
		The Contractor submitted revised claim on 14-06-2022	3,625,362	34,759			The Engineer submitted <b>principle of claim</b> on 5-07-2022. <b>Claim Denied</b>
7	MW-02/C-06 Landslide Incident at Khoshe Labour Camp	Notice of Intent to Claim - Landslide Incident at Khoshe Labour Camp - [26/06/2019]					Engineer replied dated <b>27-Jul-2019</b> (Ref:126) <b>Contractor's substantiation awaited.</b>
8	MW-02/C-07 Additional Tax on Import of Goods	On 18/08/2019, Contractor Claim under a Change in Legislation due to the levy of additional customs duties and regulatory duties on the importation of Goods. Contractor submitted Interim Claim No 2 (Feb 2019 to Dec 2019) - dated 23/08/2020.	34,965,138	193,215			<b>Principle of claim issued -DHC/Dasu/CGGC/MW-02/cad/21-215 dated 25th Nov 2021</b>
		The Contractor submitted revised claim on 14-06-2022 for various charges due to increase in Import taxes, at cut off date 31-Dec-2019	30,284,297	290,358			The Engineer responded on 12-Sep-2022 reiterating his stance as given in the Principle of Claim issued on 17-Nov-2021 and asked the Contractor to submit the Claims in accordance with the Principles <b>The Engineer and the Contractor has a consultation meeting on 15-Oct-2022 and Contractor agreed to provide the working as per Engineer's Principles of Claim.</b>
		The Contractor submitted revised claim on 08-09-2022 for various charges due to increase in Import taxes, from Jan 2020 to Dec 2021					
9	MW-02/C-08 Stoppage by the 80 Members Dam Committee: Claim for EOT	Claim for EOT due to "Force Majeure- strike by 80 Members Dam Committee" - [13/10/2019]					The Engineer replied on <b>25-Oct-2019 CGGC/MW-02/CD/DHC-306 dated 29th October 2019 DHC/DASU/CGGC/MW-02/you/19-207 dated 2- Nov 2019 EOT Claim to be considered in revised time for variation</b>
10	MW-02/C-09 Unforeseeable Cost Due to Co-operation	On 04/09/2020, Contractor submitted first Interim Claim for the Period up to Dec 2018	8,418,715				<b>Engineer's principle of claim sent on 12-01-2021 Claim Denied</b>
11	MW-02/C-10 Outbreak of Corona Virus (2019-nCoV)	Contractor submitted nos. of interim Direct Cost claim for the Period up to 31 Jan 2021					The Engineer provided detailed response on 12/10/20. Only EOT may be acceptable. Cost is Contractor's risk under Contract. <b>Principle of Claim denied.</b>
		The Contractor submitted revised interim claim of Direct cost due to Covid-19 on 7-06-2022					<b>Claim disapproved via Engineer's correspondence dated 30-Sep-2022</b>
		The Contractor submitted revised interim claim of Direct cost due to Covid-19 on 25-09-2022					
		The Contractor submitted revised interim claim of Direct cost due to Covid-19 on 27-09-2022					
12	LNG Tank Accident - Barseen	Contractor's claim for the idle time as a result of the overturned LNG tank at the Barseen camp - [05/04/2020]	1,028,691				Engineer approved <b>principle of Claim</b> on <b>28-09-2020</b> . Asked the Contractor to substantiate actual additional Cost.
		The Contractor submitted revised claim on 14-06-2022	1,141,280		487,984		<b>The Engineer submitted determination on 02-12-2022 Claim Paid</b>
13	MW-02/C-11 Firing incident at River Diversion inlet area	Contractor submitted detail claim on 22-03-2021	143,164,727				Engineer Replied on <b>25-02-2021 (Ref:039) Under Review by the Engineer</b>
		Contractor submitted revised claim on 14-06-2022	17,330,619	166,161			Engineer's <b>Principle of Claim</b> sent on <b>03-09-2022</b> Contractor has been asked to resubmit the claim. <b>Contractor's entitlement to Claim accepted under Sub-Clause 8.8 and 8.9</b>
14	Illegal Industrial Action for the Period of January 2021	Contractor submitted detail claim on 20-02-2021					Engineer's principle of claim sent on <b>26-03-2021 Principle of Claim denied.</b>
		The Contractor submitted revised claim on 14-06-2022	1,514,864	14,524			The engineer submitted <b>Principle of claim</b> on 5-07-2022. <b>Claim Denied</b>
15	MW-01/C-12 Claim regarding 14-July Blast incident	On 24/07/21, Contractor notified claim due 14-July Blast incident	607,523,703	5,824,772			Engineer Replied on 12-08-2021 (Ref:144). <b>The Engineer will issue the Principle of Claim after evaluating Prolongation claim.</b>
16		Contractor submitted on [24/07/2020] first Interim disruption Claim for the Period up to Jan 2019	2,105,168				<b>Engineer's principle of claim sent on 14-01-2021. Claim Denied.</b>

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**Appendix G [9/12]**

Sr. No.	Claim Register No. & Claim Title	Short Description of Contractor's Submission	Claimed		Assessed		Engineer's/PM Action/Status
			Cost (PKR)	Cost (USD)	Cost (PKR)	Cost (USD)	
	MW-02 Disruption Claim - [Work Hindrance by Local Residents]	The Contractor submitted revised claim on 14-06-2022	76,250	731			<b>The Engineer respond on 05-07-2022 and disapproved the claim</b>
17	MW-02/C-13 Flood in Uchar Nullah	On 31/07/2022 and 10/08/2022, the Contractor notified its itnent to claim due to Flood in Uchar Nullah					<i>DHC letter - dated 15-August-2022 (Ref:336)</i> <b>Contractor's substantiation awaited.</b>
18	MW-02/C-14 Natural Catastrophe	On 27/08/2022, the Contractor notified its itnent to claim due to exceptionally adverse climatic conditions (Natural Catastrophe)					<i>DHC letter - dated 05-September-2022 (Ref:372)</i> <b>Contractor's substantiation awaited.</b>
<b>Details of Claims/Notifications of DASU-LBRV-11 – Contractor Zhongmei</b>							
1	LBRV-11/C-01 Perceived Delay in the Issuance of Construction Drawings	On 07/01/19, Perceived Delay in the Issuance of Construction Drawings, January 2019					Replied on <b>6-Feb-2019 (Ref:033)</b>
2	LBRV-11/C-2U Unified the Work stopage's claim nos. C-02, C-03, C-04, C-05 under LBRV-11/C-2U dated 20-09-2019	On 03/03/19, Contractor submitted Idle Cost Claim Works' stoppage linked to land acquisition issues	22,075,487		2,530,207		<i>Received Employer's approval via letter No. GM/PD/DHPP/Contracts/LBRV-11/71/13196-13200 dated 06-10-2022</i>
3	LBRV-11/C-06 Extension of Guarantees	On 31/05/19, Contractor submitted Claims for Additional Costs for extending performance & advance security					Replied on 10-Jun-2019 (Ref:102&108)
4	LBRV-11/C-07 Suspension of Works and unforeseeable physical conditions	On 11/09/19, Contractor submitted Notice of Claim - Unforeseeable Man-Made Physical Obstructions and Suspension of Works at RD 0+ 730 on Khoshe Site-1 Permanent Access Road					The responsibility for the safety-related issues rests with the Contractor. Hence, Sub-Clause 4.12 [Unforeseeable Physical Conditions] seems irrelevant under the prevailing Site conditions. <b>DHC letter 21-Sep-2019 (153). Contractor's letter: 21-Oct-2019 DHC's letter: 29-Oct-2019</b>
5	LBRV-11/C-08 Claim due to outbreak of Corona Virus (COVID-19)	On 28/03/20, Contractor gives the notice of Force Majeure under Sub-clause 19.2 [Notice of Force Majeure].					Engineer replied dated <b>8-April-2020 (Ref:044)</b>
6	LBRV-11/C-09 Idle Cost Claim and Extension of Time due firing incidence at Logro Tunnel	On 11/02/21, Contractor gives the notice of Force Majeure under Sub-clause 19.2 [Notice of Force Majeure]. And submitted Idle cost claim on 19/03/2021.	1,068,116.00		256,280.00		<b>Claim certified in IPC #12 [13th October 2022]</b>
7	LBRV-11/C-10 Idle Cost Claim and Extension of Time due work stoppage by locals	The Contractor has submitted monthly interim claims from March 2021 to October 2021 . The Engineer on the Contractor's request has unify these claims and called as 1st interim calim	16,309,614		5,311,025		The Engineer issued his assessment on <b>13th December 2021</b> . The Contractor shared his consent on <b>16th Dec 2021</b> .
		2nd Interim Claim. From November 2021 to February 2022	3,502,800		3,444,420		The Engineer has issued his assessment to both the Parties on <b>16th March 2022</b> for their consent. The Contractor has submitted his consent on <b>19th March 2022</b> .
8	LBRV-11/C-11 Prolongation Cost Claim for 1st Extension of Time due to non possession of sites	on 2nd May 2021, Contractor has submitted prolongation cost claim for 1st interim Extension of Time (EOT) from 26th Dec 2019 - 4th Dec 2020	319,093,549		4,083,592		<b>Claim regarding extending the insurances guarantees certified in IPC #12 [13th October 2022]</b>
					20,714,333		<i>The Engineer issued his assessment to the Employer and to the Contractor on 19-12-2022</i>
8	LBRV-11/C-13 Cosr Claim for the recovery of Loss	on 5th March 2022, the Contractor has submitted notice of claim related to the cost claim for the recovery of loass due to the omision of Works under LBRV-11					The Engineer on 9th March 2022 acknowledged the Contractor's notice of claim and instructed him to follow strictly the time line for the submission of detailed claim.
<b>Details of Claims/Notifications of DASU-LBRV-12 – Contractor Zhongmei</b>							
1	LBRV-12/C-01 Rock Fall Incident at Zero Point	On 20/06/19, Contractor notified Claims for Additional Costs and Time due to a suspension of the Works on account of a Rock Fall Incident at ZeroPoint					<i>Engineer replied on 11-Feb-2019 (Ref:016). No further particulars submitted by the Contractor to date</i>
2	LBRV-12/C-02 Nasirabad-2 Site's Access Road	On 18/03/19, Contractor notified Claim -Due to Stoppage Work at Nasirabad-2 Site's Access Road					<i>Employer accorded approval to pay in IPC 23-8-2022</i> <b>Claim Paid</b>
3	LBRV-12/C-02a Nasirabad-1 & 2 Site's Access Road	on 22/09/2019 Contractor notified Claim -Due to Stoppage Work by 80 member dam committee at Nasirabad-1&2 Sites.	1,341,148.80		547,679		<i>Employer accorded approval to pay in IPC 22-12-2021</i> <b>Claim Paid</b>

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**Appendix G [10/12]**

Sr. No.	Claim Register No. & Claim Title	Short Description of Contractor's Submission	Claimed		Assessed		Engineer's/PM Action/Status
			Cost (PKR)	Cost (USD)	Cost (PKR)	Cost (USD)	
4	LBRV-12/C-03 Extension of Guarantees	On 31/05/19, Contractor notified Claim for Additional Costs for extending performance & advance security					Engineer replied dated <b>10-Jun-2019 (Ref:043 &amp; 044)</b> This claim has merged in "LBRV-12/C-06"
5	LBRV-12/C-04 Claim due to outbreak of Carona Virus (COVID-19)	On 28/03/20, Contractor notified Force Majeure under Sub-clause 19.2 [Notice of Force Majeure].	Nil	Nil	Nil	Nil	Engineer replied dated <b>8-April-2020 (Ref:044)</b>
6	LBRV-12/C-05 Idle Cost Claim and Extension of Time due firing incidence at Logro Tunnel	On 11/02/21, Contractor gives the notice of Force Majeure under Sub-clause 19.2 [Notice of Force Majeure]. And submitted Idle cost claim on 19/03/2021.	516,020.00		186,077.00		Employer accorded approval to pay in <b>IPC 26-6-2022 Claim Paid</b>
7	LBRV-12/C-06 Prolongation Cost Claim for 1st Extension of Time due to non possession of sites	on 2nd May 2021, Contractor has submitted prolongation cost claim for 1st interim Extension of Time (EOT) from 26th Dec 2019 - 7th Nov 2020	265,758,451.00		6,951,054.00		The Engineer assess the cost for extending the project insurances and guarantees . Employer accorded approval to pay in <b>IPC 26-6-2022 Claim Paid</b>
					17,234,706.00		The Engineer issued his assessment to the Employer and to the Contractor on <b>19-12-2022</b>
8	LBRV-12/C-07 Delay in issuance of Drawings	The Contractor on 5th August 2021, has submitted a 1st, 2nd and 3rd interim claim regarding the non issuance of constructions drawings of mosque due to delay in finalization of Mosque location.					The principle of claim has been forwarded to the Contractor and to the Employer on <b>20th Sep 2021</b>
9	LBRV-12/C-08 Cosr Claim for the recovery of Loss	on 5th March 2022, the Contractor has submitted notice of claim related to the cost claim for the recovery of loass due to the omision of Works under LBRV-12					The Engineer on <b>9th March 2022</b> acknowledged the Contractor's notice of claim and instructed him to follow strictly the time line for the submission of detailed claim.
<b>Total Additional Cost</b>			<b>267,615,620</b>	<b>-</b>	<b>24,919,516</b>	<b>-</b>	
<b>Details of Claims/Notifications of DASU-PCI-01R – Contractor CGICOP</b>							
1	PCI-01R/C-01 Works' stoppage linked to land acquisition issues	On 18/06/19, Contractor Notice of Claim -Works' Stoppage at the Choochang Colony Site-Batching Plant Location					Maintain contemporary records in support of your claim and follow the timeline for the submission of any claims as per the Contract. The Engineer's letter dated <b>22-Jun-2019 (Ref:061)</b> Notice of Claim has been acknowledged. <b>Waiting for the Contractor's Submission</b>
2	PCI-01R/C-02 Delay in issuance of Drawings	On 03/09/19, Contractor claim Extension of time for delay in issuance of construction drawings. July 1st 2019 to Aug. 22 2019	183,457,765				Engineer considers that the late issuance of construction drawings of residence category 1 &2 didn't cause any impacts on the Works. The Engineer replied on <b>26-Aug-2019 (Ref:113), and 29-Aug-2019 (Ref:118)</b> The Engineer replied on <b>27-Sep-2019 (147)</b> The Contractor's submission only signifies the provision of cost records for expenses. The Engineer submitted the Project's Manager explanatory note on <b>5th August 2021</b> <b>Particulars not yet submitted by the Contractor</b>
3	PCI-01R/C-03 Works' stoppage linked to landacquisition issues	On 04/09/19, Contractor claim - Works' Stoppage by House owner in portion-2 near Cat-2Hostels - 25 July 2019 to 31 August 2019	127,265,692				Maintain contemporary records in support of your claim and follow the timeline for the submission of any claims as per the Contract.The Engineer's letter dated 26-Aug-2019 (Ref:110)The Engineer replied on 27-Sep-2019 (147)The Contractor's submission only signifies the provision of cost records for expenses. <b>Waiting for the Contractor to submit record to substantiatehis claim</b>
4	PCI-01R/C-04 Claims for Additional Time due to a Works' stoppage linked to Rainfall	On 07/11/19, Contractor submitted notice claim notice due to Construction Works at the site has been stopped due to exceptionally adverse climatic conditions, and inclement rainfall started on 51h November 2019 and continued till 71h November 2019					The Engineer replied on 14-11-2019 Notice of Claim has been acknowledged. <b>Waiting for the Contractor's Submission</b>
5	PCI-01R/C-05 Claim due to outbreak of corona Virus (COVID-19)	On 16/04/20 and 16/05/20, Contractor submitted two interim claim notice for Coronavirsu Force Majeure that lockdown in parts and parcels, causing major deficiency in supply & transport of materials and manpower required for the Project.					<b>Principle of Cost Claim rejected dated 25-July-2020 (Ref:244)</b>

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**Appendix G [11/12]**

Sr. No.	Claim Register No. & Claim Title	Short Description of Contractor's Submission	Claimed		Assessed		Engineer's/PM Action/Status
			Cost (PKR)	Cost (USD)	Cost (PKR)	Cost (USD)	
6	Additional Test-Petrographic	On 04/06/20, Contractor submitted EOT and Cost plus profit	462,483				<b>Principle of Claim was rejected dated 7-July-2020 (Ref:229)</b>
7	PCI-01R/C-06 Claim due to shortage of Fuel	On 25/06/20, Contractor submitted claim notice for extra time and additional Cost due to unavailability of Fuel under Sub-Clause 19.4 read with SubClause 20.1.					Notice of claim has been acknowledged via Engineer dated <b>29-June-2020</b> <b>waiting for the Contractor's submission</b>
9	PCI-01/C-07 Notice of Force Majeure due to firing incident at Logro Tunnel	On 13/02/21, Contractor gives the notice of Force Majeure under Sub-clause 19.2 [Notice of Force Majeure]. And submitted Idle cost claim on 19/03/2021.					Engineer acknowledge the receipt of notice on <b>23-Feb-2021 (Ref: 079)</b> and requested the Contractor to submit detailed particulars to substantiate his claim. <b>Waiting for the Contractor's submission</b>
10	Contractor's cost claim for newnewal insurance policies	Contractor's cost claim for newnewal insurance policies for the extended period of time	10,304,710				The Engineer provided his response via letter No. <b>DHC/Dasu/CGICOP/PCI-01R/CAD/22-248 dated 28-Sep-2022</b>
<b>Total Additional Cost</b>			<b>311,185,940</b>	-	-	-	
<b>Details of Claims/Notifications of DASU-RV – Contractor KGL</b>							
1	RV/C-01 Works' stoppage linked to land acquisition issues at Additional Choochang Sites	On 24/12/19, Contractor notified Claim for Additional Costs and Time due to a Works' stoppage linked to land acquisition issues with original landowners at Additional Choochang Sites					Maintain contemporary records in support of your claim and follow the timeline for the submission of any claims as per the Contract. The Engineer's letter dated <b>28-Dec-2019</b>
2	RV/C-01 Works' stoppage by the original landowners at Shatial Museum Site	On 14/01/20, Contractor notified Claim for Additional Costs and Time due to a Works' stoppage by the original landowners at Shatial Museum Site					The Engineer's letter dated <b>22-Jan-2020</b>
3	RV/C-03 Re-Handling of Excavated Material at Kuz Choochang Upper and Lower Portion	On 29/09/20, Contractor submitted claim for Re-Handling of Excavated Material at Kuz Choochang Upper and Lower Portion	38,780,332		4,108,731		Project Manager shared his assessment to the Employer and to the Contractor on <b>24-05-2022</b> . After various consultation meeting with the Contractor, the revised Project Manager's assessment report has shared with the Employer and the Contractor on <b>29-Oct-2022</b>
4	RV/C-04 Coronavirus	On 09/04/20, Contractor notified Corona Virus Pandemic affecting its material transportation. Which delays the progress of Works' at the site and resultantly affecting the completion of the project.					The Engineer's letter dated <b>29-April-2020</b>
5	RV/C-05 Prolongation Cost Claim for 1st Extension of Time due to non possession of sites	on 21st September 2021, Contractor has submitted prolongation cost claim for 1st interim Extension of Time (EOT) from 26th Dec 2019 - 7th Nov 2020	89,480,364				The Engineer's commented on the Contractor's submission dated <b>14-October-2021</b> . The Contractor has withdraw his claim and re-submitted it on <b>29th March 2022</b> .
6	RV/C-06 Hindrance at Site and Non Issuance od Drawing, Masjid Location and Non-Approval of Extension of Time	on 26 October 2021, Contractor has submitted Early Warning under Clause 31 and provided his intention to claim under Clause 27 & 42					The Engineer's on <b>09-November-2021</b> registered the claim and requested the contractor to maintain and submit contemporary record regard the events.
<b>Details of Claims/Notifications of EM-01 – Joint Venture (GE-PC JV)</b>							
1	EM-01/C-01 Potential Impact of Covid-19 Outbreak	On 17/08/2021 the Contractor requested the Employer to register the claim for extension of time and additional cost due to potential impact of Covid-19 outbreak					The Project Manager registered the claim on 14-April-2022 <b>Contractor's Submissions are awaited.</b>
2	EM-01/C-02 Delay in Land Handover for Site Camp	on 12-12-2021 the Contractor submitted 6th interim claim for extension of time and additional cost due to delay in land handover for the Contractor's site camp	23,598,372				DHC letter - dated 10-May-2022 (Ref:112) DHC letter- dated 10-Nov-2022 (Ref:389) DHC letter- dated 6-Dec-2022 (Ref:420) <b>Claim denied</b>
3	EM-01/C-03 Change in Law and Regulations under the Contract	On 9-05-2022 the Contractor notified claim for additional cost due to change in law and regulations under the Contract					The Project Manager, on 23-06-2022, assessed and replied that the principle of the Contractor's Claim is disapproved pursuant to GC Sub-Clause 45.1 <b>Claim denied.</b>
4	EM-01/C-04 Temporary Fencing and ground Leveling	On 28-04-2022 the Contractor notified the claim for additional cost due to providing temporary fencing and ground leveling on site.					The Project Manager, on 22-06-2022, assessed and replied that the principle of the Contractor's Claim is disapproved pursuant to GC Sub-Clause 45.1 <b>Claim denied.</b>
5	EM-01/C-05 Right of Way	On 18-08-2022 the Contractor notified claim due to right of way insssues at EM-01 site camp construction.					The Project Manager registered the claim on 25-August-2022 <b>Contractor's Submissions are awaited.</b>
6	EM-01/C-06 Change of Coordination Events	On 5th Nov 2022 the Contractor notified the claim for extension of time due to change in coordination events.					<b>Explanatory note for the Employer has been submitted vide letter DHC/Dasu/WAPDA/EM-01/CAD/22-431 dated 13-12-</b>



**Dasu Hydropower Project**  
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**Appendix G [12/12]**

Sr. No.	Claim Register No. & Claim Title	Short Description of Contractor's Submission	Claimed		Assessed		Engineer's/PM Action/Status
			Cost (PKR)	Cost (USD)	Cost (PKR)	Cost (USD)	
							<b>2022.</b> <b>Wherein the principle of Claim accepted.</b> <b>Contractor's Submission is awaited</b>
7	EM-01/C-07 Delay in Generation of Financial Instrument (FI) Number by the Employer's Bank	On 6th Dec 2022 the Contractor notified the claim for extension of time and additional cost vide letter Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0457.					<b>The Contractor's Submission is awaited</b>
8	EM-01/C-08 Temporary Storage Cost at Ghazi Brotha	On 6th Dec 2022 the Contractor notified the claim for and additional cost vide letter Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0449.					<b>The Contractor's Submission is awaited</b>
<b>Details of Claims/Notifications of RAR-02 – Contractor CGGC</b>							
1	RAR-02/C-01 Work Stoppage by Locals	On 3-06-2022 the Contractor notified the claim for additional cost and extension of time due to stoppage of work by locals					The Engineer registered the claim on 9-June-2021 <b>Contractor's Submissions are awaited.</b>
2	RAR-02/C-02 14 July Blast Incident	On 24-07-2021 the Contractor notified the claim for additional cost and extension of time due to 14 July 2021 incident					The Engineer registered the claim on 12-Aug-2021 <i>DHC letter - dated 30-May-2022 (Ref:047)</i> <b>Contractor's Submissions are awaited.</b>
3	Notice to Claim due to Lack of Fuel	On 10-05-2022 the Contractor notified the claim for additional cost and extension of time due to lack of fuel					<i>DHC letter dated 12-May-2022 (Ref:037)</i> <b>Claim Denied</b>
4	RAR-02/C-04 Influence of Covid-19 Outbreak	On 30-08-2021 the Contractor notified the claim for additional cost and extension of time due to Covid-19 influence					The Engineer registered the claim on 17-Sep-2021 <b>Contractor's Submissions are awaited.</b>
5	RAR-02/C-5 Flood in Uchar Nullah	On 10/08/2022, the Contractor notified its itnent to claim due to Flood in Uchar Nullah					<i>DHC letter - dated 15-August-2022 (Ref:071)</i> <b>Contractor's substantiation awaited.</b>
6	RAR-02/C-6 Natural Catastrophe	On 27/08/2022, the Contractor notified its itnent to claim due to exceptionally adverse climatic conditions (Natural Catastrophe)					<i>DHC letter - dated 05-September-2022 (Ref:077)</i> <b>Contractor's substantiation awaited.</b>
<b>Details of Claims/Notifications of KKH-02 – Contractor CGGC</b>							
1	KKH-02/C-01 Delay in Handing Over	On 01/06/2022 the Contractor notified the claim for additional cost due to delay in handing over of the land					<i>DHC letter - dated 06-June-2022 (Ref:059)</i> <b>Contractor's substantiation awaited.</b>
2	KKH-02/C-02 Occupation of Contractor's Dormitories by Army Personnel	On 04/08/2022, the Contractor notified its intent to claim due to occupation of its Pakistani staffs' dormitories by the Army Personnel					<i>DHC letter - dated 10-August-2022 (Ref:097)</i> <b>Contractor's substantiation awaited.</b>
3	KKH-02/C-3 Flood in Uchar Nullah	On 18/08/2022, the Contractor notified its itnent to claim due to Flood in Uchar Nullah					<i>DHC letter - dated 05-September-2022 (Ref:105)</i> <b>Contractor's substantiation awaited.</b>
4	KKH-02/C-4 Natural Catastrophe	On 29/08/2022, the Contractor notified its itnent to claim due to exceptionally adverse climatic conditions (Natural Catastrophe)					<i>DHC letter - dated 05-September-2022 (Ref:106)</i> <b>Contractor's substantiation awaited.</b>

# **APPENDIX H**

## **Variation Status**

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**Appendix H: Variations Status**

**Status of Variation Orders for RAR-01**

Sr. No.	VO Description and Number	Contractor proposal/ Engineer's Estimate	Value of Omitted/ Reduced Work (Rs)	Net Effect of VO (Rs.)	Status
1	VO-001: Security Building	9,155,532		9,155,532	Not executed because Land Possession was not granted
2	VO-002: Installation of electric line and removal of existing poles & wire between K8+339 to K9+100 (dated 16-02-2017)	2,520,225	-	2,520,225	Signed Variation Order was issued on 17-Feb-2017. Work has been completed
3	VO-002A: Construction of Concrete Pavement at start point of DASU RAR-01 [Km 0+000 to Km 1 +590]	35,238,232	42,713,164	(7,474,932)	Signed Variation Order was issued on 17-May-2020. Work has been completed.
4	VO-003: Installation of new Water Supply line & removal of existing Water Supply Pipe Line between K0+000 to K1+590 (dated 01-03-2017)	2,360,764	-	2,360,764	Signed Variation Order was issued on 01-Mar-2017. Work has been completed.
5	VO-004: Concrete Class "A" Link Road 1,2,3 and FC Yard Road [F-RAR-01-EI-031]	7,096,734	-	7,096,734	Signed VO issued on 11-July-2020. Work Completed.
6	VO-005: Construction of Water channel to feed agriculture land	8,512,251		8,512,251	Signed VO issued on 08-May-2021.
7	VO-006: Construction of Mosque in SEO Village	4,143,986		4,143,986	Signed VO issued on 08-May-2021.
9	VO-007- Komila Bypass	1,077,568,049	1,240,702,760	(163,134,711)	Signed Variation Order (VO-007) was issued on 7th Nov 2021.
8	VO-008: Construction of Safety Barriers around Schools	5,339,122	-	5,339,122	Signed VO issued on 28-April-2022.
9	EI-009 Relocation of Existing Water Supply line between K2+400 to K3+600 (dated 30-05-2016)	1,292,582		1,292,582	Signed and Issued on 30-May-16
10	Construction of RCC Retaining Wall	57,415,037			Variation Order issued on Provisional rates on 31-Oct-2017
<b>Total</b>				<b>(130,188,447)</b>	

**Status of Issued Variations for KKH-01**

Sr. No.	VO Description and Number	Contractor proposal/Engineer's Estimate	Value of Omitted Work (Rs)	Net Effect of VO (Rs.)	Status
1	VO-001: Security Building (dated 29-01-2017)	9,155,532	-	9,155,532	Superceeded by VO-001R
	VO-001: Prefabricated Security Personnel Building (Uchar Camp)	11,987,906	-	11,987,906	Signed VO Issued on 24th June 2022
2	VO-002: Relocation of Explosive Magazine	<b>6,972,310</b>	-	<b>6,972,310</b>	Singed VO Issued on 25-3-2020
3	VO-003: Slope Stabilization at certain areas of Barseen, Kaigah and Khoshe Section	99,638,316	-	99,638,316	Variation Order signed on 7-Sep-2020
4	VO-004(R): Water Supply Scheme at Kuz Chuchang (K5+500).	663,964	-	663,964	Singed VO Issued on 02-06-2021
5	VO-005: Re-alignment - Tunnels, bridges and culverts	29.413 Billion	7.028 Billion	22,384,659,959	Singed VO Issued on 14-05-2022
6	VO-006: Construction of Safety Barriers around Schools	5,034,513	-	5,034,513	Singed VO Issued on 23-05-2022
7	VO-007: Mitigation Measures for Traffic Safety of Existing KKH	12,586,461	-	12,586,461	Singed VO Issued on 22-05-2022
8	VO-008: Improvement of khooshe Access Road	32,072,330		32,072,330	Singed VO Issued on 08-10-2022
9	Relocation of Water Supply Facilities in Uchar Village Situated within ROW of the Spoil Dumping Site at Uchar	11,616,918 (p)	-	11,616,918	Final Variation Order is ready, however, Contractor has not signed yet. Work has been completed. Provisional Interim payment was made.
<b>Total</b>				<b>22,574,388,209</b>	

**Status of Issued Variations for KKH-02**

Sr. No.	VO Description and Number	Contractor proposal/Engineer's Estimate	Value of Omitted Work (Rs)	Net Effect of VO (Rs.)	Status
1	Proposed New Road Alignments With 4 Bridges and 8 Tunnels	29,966,599,000 (p)			Final design review with cost summary submitted via DHC/Dasu/WAPDA/KKH-02/OKK/22-026 dated 25-04-2022 and DHC/Dasu/WAPDA/KKH-02/ibr/22-011 dated 25-04-2022

**Status of Issued Change Orders for TL-01**

Sr. No.	VO Description and Number	Contractor's Proposal (Rs)	Value of Omitted Work (Rs)	Net Effect of VO (Rs.)	Status
1	CO-001: [Backfilling with concrete instead of filling with Borrow Material in the foundations of the 132 KV Towers]	62,328,200	-	62,328,200	The Employer Issued formal Change Order on 6-Dec-2019. Work is inprogress.
2	CO-002: Double Circuit 220kV type Towers with twin bundle "Rail" Conductor from NTDC's Tower no. JKD-5 to Keyal Khwar HPP instead	187,054,511	-	187,054,511	The Employer Issued formal Change Order on 3-July-2020.

	of Single Circuit ZM type Tower with LYNX from Dubair Khwar HPS to Keyal Khwar				
3	CO-003: Procurement, Installation, Construction and Erection of Tower Types ED & EG.	40,978,335 (p)	25,651,753	15,326,582	Employer issued Pending Change Order on 14-7-2020. Final CO will be issued after finalization of Land matters.
4	CO-004: Procurement of Grid station connectors and hydraulic compression Engine with dyes	-	-		It was a negative Variation and the Employer intends to proceed for approval along with the approval of CO-003
5	CO-005: Providing and laying of random rubble masonry and backfilling of retaining wall located at the grid station	46,660,889	-	46,660,889	The Employer Issued formal Change Order on 26-April-2022.
<b>Total</b>				<b>311,370,182</b>	

**Status of Issued Variations for MW-01**

Sr. No.	VO Description and Number	Engineer Estimate (Rs)	Value of Omitted Work (Rs)	Net Effect of VO (Rs.)	Status
1	VO-001 : Varied Works of Construction Roads and Platform for Diversion Facilities [Excluding Price Adjustment amount]	967,498,672	-	967,498,672	Engineer made his determination of Rates - DHC/Dasu/CGGC/MW-01/ys/22-031 dated 16th January 2022.
2	VO-002 : Varied Works for Work Adits of Diversion Facilities [Excluding Price Adjustment amount]	1,275,244,643	-	1,275,244,643	Engineer made his determination of Rates - DHC/Dasu/CGGC/MW-01/ys/22-034 dated 16th January 2022.
3	VO-03 : Diversion Tunnel Variation [Excluding Price Adjustment amount]	19,804,974,224	9,285,141,634	10,519,832,590	Variations issued on DHC/Dasu/CGGC/MW-01/CAD/21-499 dated 23rd November 2021
4	VO-04A : Varied Works for the traffic Diversion utilizing the LB Flushing Tunnel [Excluding Price Adjustment amount]	1,010,201,407	-	1,010,201,407	Engineer made his determination of Rates - DHC/Dasu/CGGC/MW-01/ys/22-030 dated 16th January 2022.
5	VO-04B : Operation and Maintenance of Traffic Diversion Tunnel	180,936,697			Under Preperation
6	VO-05 : Land Lease for Contractor's Facilities at Purana Gao-SEO Area Phase -1	81,944,089	-	81,944,089	Variation Order signed and issued on 4-July-2020
7	VO-06 : For Provision of Power Supply to No.1 Crushing and Batching Plant	1,772,000,000		1,772,000,000	The Engineer made his determination and issued via DHC/Dasu/CGGC/MW-01/CAD/22-494 dated 26th Sep 2022
8	Diversion Tunnel Gates and Hoists	3,500,000,000			Under Preperation (The Engineer sent request of proposal on 14-April-2022 to the Contractor)
9	VO-07 : Permanent Access Road LU2 and CR5-2 Roads	595,000,000			Under Preperation (The Engineer sent request of proposal on 1-September-2022 to the Contractor)
<b>Total</b>				<b>15,626,721,401</b>	

**Status of Issued Variations for MW-02**

Sr. No.	VO Description and Number	Contractor's Proposal (Rs)	Value of Omitted Work (Rs)	Net Effect of VO (Rs.)	Status
1	VO/001: Reinforcement of Main Access Tunnel Portal and Platform	128,000,000 (p)	-	128,000,000 (p)	The final assessment and draft VO document will be submitted in Aug-2022. Expected to be agreed or determined in Sep-2022.

**Status of Issued Variations for PCI-01R**

Sr. No.	VO Description and Number	Contractor's Proposal/ Engineer's Estimate (Rs)	Value of Omitted Work (Rs)	Net Effect of VO (Rs.)	Status
1	VO-001: Providing and Applying Emulsified Bitumen 2kg/m <sup>2</sup>	13,087,205	-	13,087,205	Signed VO issued on 14-09-2021
2	VO-002: Omission of Works related to Raw Water Tank and Slow Sand Filter		177,610,489	(177,610,489)	Signed VO issued on 06-10-2021
3	VO-003: Supply and Installation of 20mm uPVC pipe for A/C drainage	2,579,200	-	2,579,200	The Engineer issued his determination on 25-05-2022
4	VO-004: Supply, fabrication and Installation of window safety grill for project colony buildings	49,508,680	-	49,508,680	Signed VO issued on 14-09-2021
5	VO-005: Providing and installation of 20mm x 20mm metal lath of 18 Gauge in Plaster Works	10,259,865		10,259,865	Signed VO issued on 14-09-2021
6	VO-006: Supply, Installation & Commissioning of Overhead Water Tanks for Project Office & Residences Category-2 Buildings	3,229,430	-	3,229,430	The Engineer issued his determination on 25-05-2022
7	VO-007: Providing & Installation of geotextile on weep holes before the backfilling of retaining walls complete in all respect	371,670	-	371,670	Signed VO issued on 14-09-2021
8	VO-008: External Water Supply to Uchar Site-1	8,466,376	-	8,466,376	Signed VO issued on 14-09-2021

**Dasu Hydropower Project**  
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**Appendix H [3/4]**

9	Water Supply from Indus River (1st Stage) From Intake to Treatment Plant (existing KKH-01)	88,176,234 (p)		88,176,234 (p)	The Contractor requested to consider the cost of treatment plant and pumps on Provision Sum basis, therefore, when he will submit the quotations, the VO will be finalized accordingly.
	Water Supply from Indus River (2nd Stage) (From existing KKH-01 to Colony Water Tank)	93,076,945 (p)	-	93,076,945 (p)	The rates for 2nd stage has been issued to the Contractor on 13th August 2021. For, pipe related items, the mutually agreed rates were issued to the Contractor on 29th Dec 2021. VO shall be issued after finalization of all rates.
10	VO-010: Modification of Power Cable Size at Project Colony	29,103,816	20,450,032	8,653,784	The Engineer on 01 March 2022 has issued a draft VO via letter DHC/Dasu/CGICOP/PCI-01R/CAD/22-059 to the Employer and to the Contractor for review and consent.
11	VO-011: Supply and Instalation of False Ceiling (Gypsum Board) in Project Office Building. -False Ceiling of Plaster of Paris(Reduced Work)	4,374,000	4,564,382	(190,382)	Singned and issued on 19 July 2022
12	VO-012:Supply and Instalation of Expansion Joint Filler and Backing Rod in Project Office, Community Centre, Hostel Cat-3 and Hospital Buildings	6,066,900		6,066,900	Singned and issued on 19 July 2022
13	VO-013 Omission of 08 Units of Category-4D and Adjacent Road (S-11)		150,991,700	(150,991,700)	Signed and issued to the Contractor on 20 June 2022
14	VO-014 Supply and Installation of False Ceiling Lights in Project Office Building	38,179,140	37,705,434	473,706	Singned and issued on 25 August 2022
15	VO-015 - Replacing Asphalt Surface with Concrete Surface for Main Road and Steep Gradient Roads of Project Colony	30,378,716	20,874,335	9,504,381	Singned and issued on 30th November 2022
16	VO-016 Supply and installation of MS Grill at Backside Terraces for Privacy of Residence Category-1	14,525,993			Under Engineer's Evaluation
<b>Total</b>				<b>(44,842,576.22)</b>	

**Status of Issued Variations for EM-01**

Sr. No.	CO Description and Number	Contractor's Proposal (Rs)	Value of Omitted Work (Rs)	Net Effect of VO (Rs.)	Status
1	Delays to the execution of the works by other project contractors and subsequent impact on the interfacing and Coordination dates of EM-01 Contract				In order to synchronize the activities of the Contractor and the activities of the other project contractors the Time for Completion of the Coordination Events and the Sectional Completion Events shall be amended, to be calculated from the Effective Date i.e., February 01, 2021 . [DHC Letter 13-07-2020]

**Status of Issued Variations for LBRV-11**

Sr. No.	CO Description and Number	Contractor proposal/Engineer's Estimate	Value of Omitted Work (Rs)	Net Effect of VO (Rs.)	Status
1	VO-001: Supply and Installation of uPVC Pipe Class-C for External Sewerage System	389,300	1,601,620	(1,212,320)	Signed VO issued on 2-06-2021
2	VO-002- Slope Protection at Uchar Site-1	36,269,633	-	36,269,633	Signed VO issued on 28-05-2022
3	VO-003- Slope Protection at Khoshe Site-1	117,010,745	-	117,010,745	Signed VO issued on 28-05-2022
3	VO-004: Omission of Sites i.e. Uchar-2, Logro-1, 2 and 3		502,659,938	(502,659,938)	VO will be issued after Employer's approval
<b>Total</b>				<b>(350,591,880)</b>	

**Status of Issued Variations for LBRV-12**

Sr. No.	CO Description and Number	Contractor proposal/ Engineer's Estimate	Value of Omitted Work (Rs)	Net Effect of VO (Rs.)	Status
1	VO-001: Slope protection Works at Nasirabad Sites	94,367,950	-	94,367,950	The Engineer has issued a draft Variation order to the Employer and Copy to the Contractor via ref. letter DHC/Dasu/WAPDA/LBRV-12/CAD/22-012 dated 26 <sup>th</sup> Feb 2022.
	VO-002: Omission of Resettlement Sites Barseen-01, Kaigah-01 and Kaigah-02	715,099,577	715,099,577	(715,099,577)	The Engineer has issued a draft Variation order for approval on 9th sep 2022 via DHC/Dasu/ZEGL/LBRV-12/CAD/22-045
<b>Total</b>				<b>(620,731,627)</b>	

**Status of Issued Variations for RV**

Sr. No.	CO Description and Number	Contractor proposal/Engineer's Estimate	Value of Omitted Work (Rs)	Net Effect of VO (Rs.)	Status
1	VO-001: Supply and Installation Of UPVC Pipe Class-C And PPR Pipes for External Water Supply System	11,711,950	16,436,640	(4,724,690)	Signed VO issued on 21-10-20
2	VO-002: Providing and Laying Uncoursed Rubble Stone masonry with Cement Sand mortar (1:4) at Dasu-RV	35,162,500 (p)	-	35,162,500 (p)	The Contractor submitted his proposal on 07-April-2020. Engineer evaluated the cost and submitted the variation order to Employer on 23-Oct-2020 for his review. Discussion with the stakeholders are going on to get the agreement between the parties on rates to avoid potential dispute. Provisional rates are applied for payment in IPC.
3	VO-003: Providing, Lowering, Laying, Jointing and Testing Mild Steel Pipe 25mm dia Including Specials	1,536,600	11,040,000	(9,503,400)	Signed VO issued on 01-02-21
4	VO-004: Providing and Fixing of 75mm GI Post for Boundary Fence at Shatial Museum Site	2,906,868	-	2,906,868	The Engineer has issued a variation order to the Employer and Copy to the Contractor for their consent via letter DHC/DASU/WAPDA/Dasu-RV/imt/21-047 dated 1st April 2021
<b>Total</b>				<b>(11,321,222.15)</b>	

# **APPENDIX I**

## **Contract Information**

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**Appendix I: Contract Information**

<b>CONTRACTS AWARDED</b>																		
Sr. #	Contract ICB No.	Base Date	Opening of bid	Letter of Acceptance	Signing of Contract	Date of Commencement	Time for Completion (days)	Original Completion Date	Accepted Contract Amount	Accepted Contract Amount in USD	Accepted Contract Amount in USD	IPC Total Certified Amount	% of Certified amount w.r.t ACA	1st EOT	2nd EOT	3rd EOT	Revised Completion Date	Remarks
<b>Main Works Contracts</b>																		
1	DASU-MW-01	13-Jun-16	11-Jul-16	29-Dec-16	08-Mar-17	23-Jun-17	2039	22-Jan-23	PKR 115,003,461,240	1,102,621,872	1,102,621,872	32,469,166,431	28.23%	1204	195		21-Nov-26	Work Inprogress
2	DASU-MW-02	13-Jun-16	11-Jul-16	29-Dec-16	08-Mar-17	23-Jun-17	2069	21-Feb-23	PKR 64,426,426,087	617,703,031	617,703,031	11,502,152,031	17.85%	1213			18-Jun-26	Work Inprogress
3	DASU-EM-01	31-Jan-18	28-Feb-18	22-Oct-19	25-Nov-19	20-May-20	1856	19-Jun-25	PKR 25,471,001,920	230,506,805	474,490,805	480,570,192						Work Inprogress
<b>Preparatory Works Contracts</b>																		
1	DASU-KKH-01	15-Sep-14	13-Oct-14	09-Feb-15	16-Mar-15	24-Aug-15	546	20-Feb-17	PKR 14,538,852,307	144,334,878	144,334,878	11,881,853,171	81.72%	519	507		21-Jul-24	Work Inprogress. EOT Subject to Variation-005 time
2	DASU-RAR-01	15-Sep-14	13-Oct-14	09-Feb-15	16-Mar-15	24-Aug-15	364	22-Aug-16	PKR 2,713,972,595	26,943,042	26,943,042	1,928,026,278	71.04%	498	408	518	31-Aug-22	Work Inprogress. EOT underprocess. Subject to VO-007 Komila Bypass
3	DASU-TL-01	28-Aug-14	25-Sep-14	03-Mar-15	24-Apr-15	02-Nov-15	230	18-Jun-16	PKR 1,583,325,237	15,833,252	17,851,179	1,175,090,215	74.22%	488	427	514	17-May-20	Work Inprogress. Tentative revised date 1-11-2022 EOT underprocess.
									US\$ 2,017,927				64.79%					
4	DASU-PCI-01	02-Jun-15	30-Jun-15	26-Oct-15	17-Nov-15	02-May-16	728	30-Apr-18	PKR 4,806,000,000	47,210,216	47,210,216	961,199,971						Terminated
5	DASU-PCI-01R	25-Oct-17	22-Nov-17	27-Aug-18	18-Oct-18	20-May-19	728	17-May-21	PKR 4,900,000,009	46,423,496	46,423,496	2,756,652,480	56.26%	895			29-Oct-23	Work Inprogress EOT underprocess.
6	DASU-RV	05-Aug-15	02-Sep-15	17-Nov-15	15-Dec-15	15-Dec-15	546	13-Jun-17	PKR 571,953,818	5,618,407	5,618,407	114,390,751						Terminated
7	DASU-RV (Re-bid)	25-Oct-17	22-Nov-17	23-Apr-19	18-Jun-19	18-Jun-19	546	15-Dec-20	PKR 654,815,181	6,203,839	6,203,839	276,856,713	42.28%				16-May-22	Work Inprogress. EOT granted
8	DASU-KKH-02	29-Sep-15	27-Oct-15	27-Feb-17	25-Apr-17	15-May-22	728	12-May-24	PKR 16,264,917,100	155,727,101	155,727,101	3,528,736,427	21.70%					Notice of Commencement not issued yet
9	DASU-RAR-02	29-Sep-15	27-Oct-15	22-Jun-16	18-Jan-17	20-May-21	728	18-May-23	PKR 6,253,407,194	59,872,729	59,872,729	1,269,138,634	20.30%					Work Inprogress.
10	DASU-LBRV-11	21-Jul-16	18-Aug-16	27-Feb-17	20-Apr-17	26-Dec-18	364	25-Dec-19	PKR 1,120,509,415	10,687,172	10,687,172	616,451,539	55.02%	345			04-Dec-20	Work Inprogress. 2nd EOT underprocess.
11	DASU-LBRV-12	21-Jul-16	18-Aug-16	27-Feb-17	20-Apr-17	26-Dec-18	364	25-Dec-19	PKR 1,016,820,466	9,698,210	9,698,210	489,927,002	48.18%	318			07-Nov-20	Work Inprogress. 2nd EOT underprocess.
12	DASU-RBRV-11	21-Jul-16	18-Aug-16	27-Feb-17	25-Apr-17	To be Decided	364	Depend on Comencement	PKR 370,939,497	3,522,692	3,522,692	74,187,844	20.00%					Terminated



# **APPENDIX J**

## **Contract Status of Guarantee and Insurance**

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**Appendix J: Contract Status of Guarantee and Insurance**

Sr. #	Contract ICB No.	Advance Guarantee		Performance Guarantee		Insurances				
		Amount	Expiry Date	Amount	Expiry Date	CAW (18.2)	CPM (18.2)	TPL (18.3)	WC (18.4)	Marine Carggo (Import/Inland)
1	DASU-MW-01	PKR 5,556,438,372.00 USD 56,988,569.00	14-Jan-2023	PKR 5,556,438,372.00 USD 56,988,569.00	22-Sep-2023	22-Jan-2023	22-Jan-2023	22-Jan-2023	15-Jul-2023	N/A
2	DASU-MW-02	PKR 3,326,067,613.00 USD 29,880,873.00	13-Jan-2023	PKR 3,326,067,613.00 USD 29,880,873.00	22-Oct-2023	22-Feb-2023	22-Feb-2023	22-Feb-2023	15-Jul-2023	N/A
3	DASU-KKH-01	USD 7,257,158.00 PKR 2,176,756,968.00	12-Sep-2023	PKR 1,453,885,230.70	21-Jul-2025	21-Jul-2024			31-Jul-2024	N/A
4	DASU-RAR-01	PKR 379,956,164.00 USD 1,616,583.00	31-Dec-2023	PKR 271,397,259.50	31-Dec-2023	31-Dec-2022			28-Feb-2023	N/A
5	DASU-TL-01	PKR 166,340,724.00 USD 338,582.75	5-Apr-2023	PKR 178,862,944.00	20-Jan-2023	29-Sep-2024			8-Apr-2023	29-Sep-2024
6	DASU-KKH-02	PKR2,146,910,052.00 USD 10,590,008.00	30-Aug-2023	PKR 1,073,455,026.00 USD 5,295,004.00	20-Apr-2024					
7	DASU-RAR-02	PKR 833,528,863.00 USD 3,993,993.00	31-Mar-2023	PKR 625,340,719.00	30-Sep-2024	17-Aug-2023	17-Aug-2023	17-Aug-2023	15-Jul-2023	
8	DASU-LBRV-11	PKR 83,204,565.00 USD 1,343,848.00	23-Aug-2023	USD 671,924.00 PKR 41,602,282.00	2-Dec-2023	25-Jun-2023	25-Dec-2022	25-Jun-2023	10-Jun-2022	N/A
9	DASU-LBRV-12	PKR 75,233,228.00 USD 1,222,084.00	23-Aug-2023	USD 611,042.00 PKR 37,616,614.00	5-Nov-2023	25-Aug-2023	25-Dec-2022	25-Aug-2023	10-Aug-2022	N/A
10	DASU-RBRV-11	PKR 54,937,530.00 USD 182,814.00	24-Feb-2023	PKR 27,468,765.00 USD 91,407.00	24-Aug-2022	Terminated				
11	Dasu-PCI-01R	PKR 726,119,002.00 USD 2,405,316.00	1-Apr-2023	PKR 363,059,501.00 USD 1,202,658.00	22-Feb-2023	19-May-2023	19-May-2023	19-May-2023	19-May-2023	N/A
12	Dasu-RV	PKR 107,474,520	30-Sep-2023	PKR 65,481,520	14-Feb-2023	14-Jun-2023	14-Jun-2023	14-Jun-2023	14-Jun-2023	N/A

Near to Expiry  
Expired



Reminder Issued  
Reminder to be issued





# **APPENDIX K**

## **Summary of Daily Work Records of MW-01 & 02 and EM-01**

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**Appendix K: Summary of Daily Work Records of MW-01 & MW-02**

**Daily Work Records of MW-01**

**November 2022**

Date/Day Location	26 Sat.	27 Sun.	28 Mon.	29 Tue.	30 Wed.
<b>Diversio Tunnel A INLET</b>	Part No.02 & Part No.03 Removal of formwork & scaffolding Part No.01 Fixing of scaffolding Part No.02 Fixing of scaffolding	Part No.02 & Part No.03 Removal of scaffolding Removal of formwork Part No.01 No Work Part No.02 No Work	Part No.02 & Part No.03 Removal of formwork Part No.01 No Work Part No.02 No Work	Top Slab Fixing of scaffolding Part No.02 & Part No.03 Removal of scaffolding Part No.01 No Work Part No.02 No Work	Top Slab Fixing of scaffolding (Left side) Part No.03 Removal of scaffolding Part No.01 No Work Part No.02 No Work
<b>Diversio Tunnel A UNDER GROUND</b>	INVERT U/S K0+177~ K0+189 Right side Invert cleaning for 1m concrete Pouring of concrete Quantity 120m3 Finishing of concrete surface INVERT D/S K0+873~K0+861 Left side Invert cleaning for 1m concrete Quantity 135m3 K0+465~K0+453 Left side Invert cleaning for 1m concrete Pouring of invert 1m concrete Quantity 120m3 Finishing of concrete surface D/S K1+150~ Invert excavation & mucking	INVERT U/S K0+177~ K0+189 Right side Finishing of concrete surface K0+189~K0+201 Right side Invert cleaning for 1m concrete Pouring of concrete Finishing of concrete surface INVERT D/S K0+873~ K0+861 Left side Finishing of concrete surface K0+873~K0+885 Left side Invert cleaning for 1m concrete Pouring of concrete continue	INVERT U/S K0+189~ K0+201 Right side Finishing of concrete surface INVERT D/S K0+465~K0+477 Left side Pouring of concrete Quantity 128m3 Finishing of concrete surface K0+873~K0+885 Left side Pouring of concrete Quantity 123.5m3 Finishing of concrete surface	INVERT U/S K0+201~ K0+213 Right side Invert cleaning for 1m concrete Pouring of concrete Quantity 121m3 Finishing of concrete surface INVERT D/S K0+885~ 0+897 Left side Pouring of concrete invert 1m concrete Quantity 126m3 Finishing of concrete surface	INVERT U/S K0+201~ K0+213 Right side Finishing of concrete surface K0+213~ K0+225 Right side Invert cleaning for 1m concrete INVERT D/S K0+477~K0+489 Left side Invert cleaning for 1m concrete Pouring of concrete Quantity 131m3 Finishing of concrete surface K0+897~K0+909 Left side Pouring of invert 1m concrete Quantity poured=130m3
<b>Diversio Tunnel B INLET</b>	Transition Part V Removal of formwork Sill Beam Left side (2nd stage concrete) Pouring of concrete Quantity poured=69m3 Part No.4 Steel Fixing Part No.01 Fixing of scaffolding Part No.02 & 03 No Work	Transition Part V No Work Gate Slot Area Fixing of mechanical parts Part No.4 Steel Fixing Part No.01 Fixing of scaffolding Formwork fixing Part No.02 & 03 No Work	Transition Part V Formwork removal Gate Slot Area Install of mechanical frame Part No.4 Formwork Fixing Part No.01 Chipping Steel fixing Part No.02 & 03 No Work	Transition Part V Formwork removal Gate Slot Area Right side Install of mechanical frame Part No.4 Steel Fixing Part No.01 Steel Fixing Part No.02 & 03 No Work	Wing Wall Formwork removal Gate Slot Area Unloading of gate parts Part No.4 Steel Fixing Arrangement for concrete Part No.01 Steel Fixing Part No.02 & 03 No Work
<b>Diversio Tunnel B UNDER GROUND</b>	Invert U/S No work Shear zone area Part No.02 Left & Right Wall 7th lift Steel Fixing Part No 01 (7th lift) Left & Right Wall Pouring of concrete continue. Part No 03 crown No Work Invert D/S No work K1+050~ Right side Excavation & mucking K1+075~ Right side Drilling for blast Charging & blast Excavation & mucking Dumping for Diversion channel	Invert U/S No work Shear zone area Part No.02 Left & Right Wall 7th lift Steel Fixing Part No 01 (7th lift) Left & Right Wall Pouring of concrete Quantity 144m3 Green cutting Cleaning Part No 03 crown No Work Invert D/S No work K1+100~ Right side Drilling for blast Charging & blast 10:00Hrs~11:30Hrs Excavation & mucking K1+120~K1+160 Right +Center Excavation & mucking Dumping for Diversion channel	Invert U/S No work Shear zone area Part No.02 Left & Right Wall 7th lift No Work Part No 01 (8th lift) Left & Right Wall No Work Steel Fixing Part No 03 crown No Work Invert D/S K0+974~K1+000 Cleaning of rock surface for leveling concrete Excavation with jack hammer K1+050~ Right +center (4 <sup>th</sup> lift) Excavation & mucking K1+140~ Right side (3 <sup>rd</sup> lift) Excavation & mucking K1+150~ Survey for blast Drilling for blast Charging Blast 00:20Hrs Excavation & mucking	U/S No work Shear zone area Part No.02 Left & Right Wall 7th lift Pouring of concrete continue...Part No 01 (7th lift) Left & Right Wall Steel fixing Part No 03 crown No Work D/S K0+974~K1+017 Cleaning of rock surface for leveling concrete K0+450~K0+460 Remedial shotcrete K1+110~K1+140 Excavation & mucking K1+150~ Drilling for blast Charging & Blast 14:30Hrs Excavation & mucking Dumping for Diversion channel	U/S No work Shear zone area Part No.02 Left & Right Wall 7th lift Pouring of concrete 153m3 Green cutting Part No 01 (8th lift) Left & Right Wall Steel fixing Part No 03 crown D/S K0+974~ K1+017 Right side Cleaning of rock surface for leveling concrete Pouring of leveling concrete Quantity 126.5 m3 K0+980~ Left side Excavation & mucking K1+110~ Excavation & mucking K1+090~ Invert excavation with jack hammer K1+110~K1+120 Left side Drilling for blast
<b>STARTER DAM</b>	Trial Test	Trial Test	Trial Test	Trial Test	Trial Test
<b>ACCESS TO COFFERDA M LEFT&amp;RIGH T BANK</b>	Dumping & leveling K1+440~ Drilling for blast Charging Blast 16:20Hrs Excavation & leveling	Dumping & leveling K1+440~ Excavation & leveling	Dumping & leveling K1+440~ Excavation & leveling	Dumping & leveling K1+440~ Excavation & leveling	Dumping & leveling Drilling for blast , Dumping & leveling
<b>ADIT 3</b>	Adit 3-Plug 03 (3rd lift) Removal of formwork	Adit 3-Plug 03 (3rd lift) Removal of formwork & scaffolding	Adit 3-Plug 03 (3rd lift) No Work	Adit 3-Plug 03 (3rd lift) No Work	Adit 3-Plug 03 (3rd lift) No Work
<b>Traffic Diversio Tunnel</b>	K0+795~ Excavation & mucking K0+798~ Survey for blast Drilling for blast Charging for blast Blast 5:10Hrs	K0+798~ Excavation & mucking Scaling 0+801~ Survey for blast Drilling for blast Charging Blast	K0+801~ Excavation & mucking K0+803~ Survey for blast Drilling for blast Charging Blast 5:20Hrs EI 833~835 No Work	K0+803~ Excavation & mucking Scaling K0+505.2~ Survey for blast Drilling for blast EI 833~835 No Work	K0+505.2~ Charging for blast Blast 11:30Hrs Excavation & mucking K0+777~ Fixing of wire mesh

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**Appendix K [2/34]**

	Excavation & mucking El 833~835 No Work	4:30Hrs Excavation & mucking El 833~835 No Work			
<b>Cable crane foundation (Right Bank)</b>	Base Elevation 1019.88 Elevation of working area 1062~1057 Grouting & install of rock bolts L10m	Base Elevation 1019.88 Elevation of working area 1062~1057 Grouting & install of rock bolts (L=5m)	Base Elevation 1019.88 Elevation of working area 1062~1057 No Work (No Work due to Grout machine mechanical fault).	Base Elevation 1019.88 Elevation of working area 1062~1057 Grouting & install of rock bolts (L=5m)	Base Elevation 1019.88 Elevation of working area 1062~1057 No Work (No Work due to shortage of operators, as non local (worker who belongs to Kashmir) worker have not returned to work after incident happened at DT-B Shear zone on 28th November
<b>Uchar New Crushing plant</b>	Stones masonry work at retaining wall 01 Excavation at retaining wall No.01 Assembling of mechanical parts at batching plant area Welding work at conveyor belt line Breaking of stones with jack hammer Formwork Fixing at Partition Wall storage area	Stones masonry work at retaining wall 01 Backfilling at retaining wall No.01 Assembling of cement silo parts Welding work at conveyor belt line Breaking of stones with jack hammer Steel Fixing at Partition Wall storage area Fixing of formwork at partition wall storage area	No Work (No work due to local labour strike against non local labour) Steel fixing at partition wall (storage area) Formwork fixing at partition wall (storage area)	Steel Fixing at partition Wall (storage area) Scaffolding fixing at partition wall (storage area) Unloading of batching plants mechanical parts Pouring of concrete at partition wall (Storage area)	Fixing of embedded parts of crushing plants Stones masonry at retaining wall No.01 Steel fixing at gallery foundation Steel fixing at gallery foundation Breaking stones with jack hammer
<b>Kass Camp</b>	Install of water pipes Stones masonry at Gate way Install of sewage pipelines Excavation & leveling Stones masonry work at boundary wall Dumping	Install of water pipes Stones masonry at Gate way Install of sewage pipelines Excavation & leveling Stones masonry work at boundary wall	Install of water pipes Stones masonry at Gate way Install of sewage pipelines Excavation & leveling Stones masonry work at boundary wall Formwork fixing at foundation	Install of water pipes Stones masonry at Gate way Install of sewage pipelines Excavation & leveling Stones masonry work at boundary wall	Install of water pipes Stones masonry at Gate way Install of sewage pipelines Excavation & leveling Stones masonry work at boundary wall
<b>CR-5-2 / LU-2</b>	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking

**December 2022**

Date/Day Location	1 Thu	2 Fri.	3 Sat.	4 Sun.	5 Mon.
<b>Diversion Tunnel A INLET</b>	Top Slab Fixing of scaffolding (Left side) Part No.03 Removal of scaffolding Part No.01 No Work Part No.02 No Work	Top Slab No Work Part No.03 Removal of scaffolding Part No.01 No Work Part No.02 Removal of scaffolding	Top Slab Fixing of scaffolding (Left side) Part No.03 Removal of scaffolding Part No.01 No Work Part No.02 No Work	Top Slab Fixing of scaffolding (Left side) Part No.03 Removal of scaffolding Part No.01 No Work Part No.02 Removal of scaffolding	Top Slab Fixing of scaffolding (Left side) Unloading scaffolding pipes Part No.03 Removal of scaffolding Part No.01 No Work Part No.02 Removal of scaffolding
<b>Diversion Tunnel A UNDER GROUND</b>	INVERT U/S K0+213~K0+225 Right side Pouring of invert 1m concrete Quantity 122m3 Finishing of concrete surface INVERT D/S K0+921~K0+909 Left side Invert cleaning for 1m concrete Pouring of concrete 132m3 Finishing of concrete surface K0+489~K0+501 Left side Invert cleaning for 1m concrete Pouring of concrete Quantity 118m3	INVERT U/S No Work K0+225~K0+237 Right side Invert cleaning for 1m concrete Pouring of concrete INVERT D/S K0+921~K0+933 Left side Invert cleaning for 1m concrete Pouring of concrete Quantity poured=144m3 Finishing of concrete surface K0+489~ K0+501 Left side Pouring of concrete Quantity Poured=134.5m3 Finishing of concrete surface	INVERT U/S K0+225~K0+237 Right side Pouring of invert 1m concrete 122m3 Finishing of concrete surface K0+388~ Left side Invert excavation with jack Hammer K0+393~K0+405 Left side Invert cleaning for 1m concrete INVERT D/S K0+933~K0+945 Left side Invert cleaning for 1m concrete K0+501~ K0+513 Left side Invert cleaning for 1m concrete Pouring of concrete Quantity 1341m3 Finishing of concrete surface	INVERT U/S K0+393~K0+405 Left side cleaning of rock surface for leveling concrete cleaning of rock surface for leveling concrete INVERT D/S K0+945~ Left side Invert cleaning for 1m concrete K0+513~ Left side Invert cleaning for 1m concrete	INVERT U/S K0+393~K0+405 Left side cleaning of rock surface for leveling concrete Invert excavation with jack hammer Cleaning of rock surface for leveling concrete INVERT D/S K0+945~ Left side Invert cleaning for 1m concrete K0+513~ Left side No Work
<b>Diversion Tunnel B INLET</b>	Gate Slot Area Fixing of mechanical frame Part No .4 Pouring of concrete 120m3 Part No.01 Steel Fixing Part No.02 & 03 No Work	Gate Slot Area Fixing of mechanical frame Part No.4 Green cutting Part No.01 Steel Fixing Part No.02 & 03 Arrangement for cavity grouting	Gate Slot Area Fixing of mechanical frame Part No.4 Left & Right Wall Steel Fixing Part No.01 Steel Fixing Part No.02 & 03 No Work	Gate Slot Area Fixing of mechanical frame (Wing wall) Removal of formwork Part No.4 Left & Right Wall Formwork fixing Part No.01 Left & Right Wall Steel fixing Pouring of concrete continue Part No.02 & 03 No Removal of scaffolding	Gate Slot Area Left side Fixing of mechanical frame (Wing wall) Removal of formwork Gate Slot Area Right side Fixing of scaffolding Part No.4 Left & Right Wall Pouring of concrete Quantity 119m3 Green Cutting Part No.01 Left & Right Wall Pouring of concrete Total Quantity 328m3 Green cutting & cleaning Part No.02 & 03 Removal of scaffolding
<b>Diversion Tunnel B UNDER GROUND</b>	U/S No work Shear zone area Part No.02 Left & Right Wall Steel Fixing Part No 01 (8th lift) Left & Right Wall Steel fixing	U/S No work Shear zone area Part No.02 Left & Right Wall Steel Fixing Part No 01 (8th lift) Left & Right Wall No Work Part	U/S No work Shear zone area Part No.02 Left & Right Wall 8th lift	U/S No work Shear zone area Part No.02 Left & Right Wall 8th lift Pouring of concrete	U/S No work Shear zone area Part No.02 Left & Right Wall 8th lift Steel Fixing Part No 01 Left & Right Wall Steel Fixing

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**Appendix K [3/34]**

	Part No 03 crown No Work D/S K1+017~ Cleaning of rock surface for leveling concrete K1+020~ Right wall Drilling for rock bolts K0+980~ Left side Excavation of protection layer K1+110~ Right side Excavation & mucking K1+150~ Drilling for blast Dumping for Diversion channel	No 03 crown No Work D/S K0+350~ K1+000 Crown Execution of remedial shotcrete K1+017~ Right side Cleaning of rock surface for leveling concrete Invert excavation with jack hammer K1+030~ Invert excavation with jack hammer K1+040~ Right wall Drilling for rock bolts Grouting & install of rock bolts K1+110~ Excavation & mucking K1+078~ K1+176 Right wall Execution of 1st layer shotcrete (72m3) Dumping for Diversion channel	Pouring of concrete continue. Part No 01 Left & Right Wall Steel Fixing Part No 03 crown No Work D/S No Work K0+974~ K1+017 Left side Cleaning of rock surface for leveling concrete Invert excavation with jack hammer K1+080~ K1+176 Right Wall Execution of 1st layer shotcrete (18m3) K1+100~ Left side Excavation & Mucking K1+185~ Center Drilling for blast Charging Blast 14:55Hrs Excavation & mucking K1+076~ Right side Grouting & install of rock bolts K1+150~ Drilling for rock bolts Dumping for Diversion channel K1+270~ Left Wall Drilling for canopy tubes	206m3 Green cutting & cleaning Part No 01 Left & Right Wall Steel Fixing Part No 03 crown No Work D/S K0+974~ Left side Cleaning of rock surface for leveling concrete Invert excavation with jack hammer K1+017~ Excavation & mucking K1+080~ Right Wall Execution of 2nd layer shotcrete K1+184~ Right side Excavation & mucking K1+190~ Center Drilling for blast K1+152~ Drilling for rock bolts Grouting & install of rock bolts K1+120~ Right side Drilling for rock bolts K1+160~ Left side Excavation & mucking Dumping for Diversion channel K1+270~ Left Wall Drilling for canopy tubes Install of canopy tubes	Part No 03 crown D/S K0+980~1017 Left side Cleaning of rock surface for leveling concrete Pouring of leveling concrete Quantity 132m3 K1+017~ Removal of undercut with jack hammer K1+164~ Grouting & install of rock bolts K1+078~ Right Wall Drilling for rock bolts Grouting & install of rock bolts Execution of 2 <sup>nd</sup> layer shotcrete(60m3) Dumping for Diversion channel K1+252~ Right Wall Drilling for canopy tubes Install of canopy tubes K1+252~ Left Wall Install of canopy tubes K1+252~ Centre Excavation & mucking
<b>STARTER DAM</b>	Backfilling	Excavation, Dumping & leveling	Excavation, Dumping & leveling	Excavation, Dumping & leveling	Dumping & leveling
<b>Adit 3 - 2</b>	No Work	No Work	K0+000~ No Work Drilling for blast Charging Blast 3:30Hrs	K0+003,5~ Excavation & mucking	K0+003,5~ Drilling for blast Charging Blast 16:30Hrs Mucking & scaling
<b>Traffic Diversion Tunnel</b>	K0+797~K0+806 Grouting & install of rock bolts K0+756~ K0+782 Drilling for weep holes K0+782~ Fixing of wire mesh K0+808~ Drilling for blast EI 833 ~835 No Work	K0+787~ Fixing of wire mesh K0+778~K0+794 Execution of 2nd layer shotcrete (24m3) K0+808~ Charging for blast Blast 7:00Hrs EI 833~835 No Work	K0+796~ Fixing of wire mesh K0+808~ Excavation & mucking Drilling for additional blast Charging Blast 13:25Hrs Excavation & mucking Execution of 1st layer shotcrete K0+782 ~K0+790 Remedial shotcrete EI 834~ Drilling for canopy tubes	K0+796~ Fixing of wire mesh K0+808~ Scaling K0+782~K0+790 Remedial shotcrete K0+810~ Drilling for blast Charging Blast 3:50Hrs EI 834~ Excavation & mucking	K0+810,5~ Mucking & scaling Execution of 1st layer shotcrete K0+813~ Survey for blast Drilling for blast Install of canopy tubes Welding of canopy tube
<b>Cable crane foundation (Right Bank)</b>	Base Elevation 1019.88 Elevation of working area 1062~1057 No Work due to shortage of operators, as non local (worker who belongs to Kashmir) worker have not returned to work after incident happened at DT-B Shear zone on 28th November.	Base Elevation 1019.88 Elevation of working area 1062~1057 No Work due to shortage of operators, as non local (worker who belongs to Kashmir) worker have not returned to work after incident happened at DT-B Shear zone on 28th November.	Base Elevation 1019.88 Elevation of working area 1062~1057 No Work due to shortage of operators, as non local (worker who belongs to Kashmir) worker have not returned to work after incident happened at DT-B Shear zone on 28th November.	Base Elevation 1019.88 Elevation of working area 1062~1057 No Work due to shortage of operators, as non local (worker who belongs to Kashmir) worker have not returned to work after incident happened at DT-B Shear zone on 28th November.	Base Elevation 1019.88 Elevation of working area 1062~1057 No Work due to shortage of operators, as non local (worker who belongs to Kashmir) worker have not returned to work after incident happened at DT-B Shear zone on 28th November.
<b>Uchar New Crushing plant</b>	Steel fixing at gallery foundation Unloading of batching plants parts Formwork fixing at Partition wall (storage area) Breaking of stones with jack hammer	Fixing of embedded parts of crushing plant Fixing of formwork at Gallery foundation Stones masonry work at retaining wall No.01 Fixing of formwork at Gallery foundation	Fixing of embedded parts of crushing plant Fixing of formwork at foundation Gallery Excavation at Wall No.03 Block masonry work at Gate way Excavation at Wall No.01 Steel Fixing at foundation Gallery Excavation at Wall No.03 Welding work at conveyor belt line	Fixing of embedded parts of crushing plant Steel Fixing at Gallery foundation Excavation & leveling at batching plant area Welding work at conveyor belt line Breaking of stones with jack hammer	Fixing of embedded parts of crushing plant Fixing of formwork at foundation Gallery Leveling at batching plant area
<b>Kass Camp</b>	Construction of retaining walls Excavation & leveling Formwork fixing for leveling concrete at Chinese dormitory Brick masonry work for wash rooms White washing	Install of electric wires Install of pre-cast concrete pillars Excavation & leveling Stones masonry work at boundary wall Decoration work	Making of steel stairs Stones masonry at retaining walls Install of sewage pipelines Construction of septic tank Brick masonry work for washrooms Excavation & leveling	White washing Stones masonry at retaining walls Install of sewage pipelines Construction of check post Brick masonry work for wash rooms Stones masonry at boundary walls	Construction of check post Stones masonry at retaining walls Install of sewage pipelines Construction of septic tank Brick masonry work for washrooms Stones masonry at boundary walls
<b>CR-5-2 / LU-2</b>	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking
<b>Date/Day Location</b>	<b>6 Tue.</b>	<b>7 Wed.</b>	<b>8 Thu.</b>	<b>9 Fri.</b>	<b>10 Sat.</b>
<b>Diversion Tunnel A INLET</b>	Top Slab Fixing of scaffolding (Left side) Part No.03 No Work Part No.01 No Work Part No.02 No Work	Top Slab Fixing of scaffolding (Left side) Part No.03 No Work Part No.01 No Work Part No.02 No Work	Top Slab Fixing of scaffolding (Left side) Part No.01 No Work Part No.02&03 Drilling for cavity grouting Part No.04 No Work	Top Slab Shifting and fixing of scaffolding Part No.03 No Work Part No.01 No Work Part No.02 No Work	Top Slab Shifting and fixing of scaffolding Part No.03 No Work Part No.01 No Work Part No.02 No Work
<b>Diversion Tunnel A</b>	INVERT U/S K0+189~K0+237 Right side	INVERT U/S Right side K0+213~ Arrangement and	INVERT U/S No work INVERT D/S K1+050~ Left side Cleaning of Mud	INVERT U/S No work K0+400~ Cleaning of Mud INVERT D/S	INVERT U/S No work INVERT D/S K1+090 ~110 Cleaning of Mud

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**Appendix K [4/34]**

<b>UNDER GROUND</b>	Surface cleaning for invert 1m concrete K0+393~ Cleaning & dewatering INVERT D/S K0+820~ Cleaning of invert concrete surface D/S K1+110~K1+140 Cleaning of sludge	cleaning for invert 1m concrete INVERT D/S No work D/SK1+065 ~K1+090 Cleaning of sediments deposited		K1+055~ Left side Cleaning of Mud	
<b>Diversion Tunnel B Inlet Portal</b>	Gate Slot Area Left side Fixing of mechanical frame Top slab Part-V Removal of formwork Gate Slot Area Right side Fixing of scaffolding Part No.4 Left & Right Wall Steel Fixing Part No.01 Left & Right Wall Steel Fixing Part No.02 & 03 Cavity Grouting	Gate Slot Area Fixing of mechanical frame and welding works Removal of scaffolding, formwork and shifting them to outside Making access by fixing of scaffoldings and install of safety net Part No.1 Left & Right Wall Install of reinforcement and stirrups for crown portion Part No.4 Adjustment of formwork and fixing of scaffolding Part No.02 & 03 Repairing and finishing work Cavity Grouting	Gate Slot Area Fixing of mechanical frame Part No.1 Left & Right Wall 7 <sup>th</sup> lift Cleaning and arrangements for concrete pouring Pouring of concrete Total Quantity poured 287m3 Part No.02 & 03 Concrete repairing work Part No.04 Left & Right Wall 8th lift Cleaning and arrangements for concrete pouring Pouring of concrete Total Quantity poured 108.8m3 Removing of formwork from 7th lift and green cut at 8th lift poured concrete	Gate Slot Area Shifting and fixing of mechanical frame Fixing of scaffolding and making access Top slab Part3,4,5 Removing and shifting of formwork Top slab Concrete repairing and finishing works Part No.1 Left & Right Wall 8th lift Fixing of stirrups Cleaning for concrete pouring Part No.02 & 03 Removing of scaffolding Concrete repairing work and removing of scaffolding Part No.04 Left & Right Wall 9th lift Fixing of stirrups	Gate Slot Area Fixing of formwork Top slab Part3,4,5 Removing and shifting of scaffolding and formwork Removing and shifting of scaffolding and formwork Top slab Concrete repairing and finishing works Concrete repairing and finishing works Part No.1 Left & Right Wall 8th lift Fixing of formwork and support work Cleaning of reinforcement and formwork for concrete pouring Part No.02 & 03 Removing of formwork Concrete repairing work and removing of scaffolding Part No.04 Left & Right Wall 9th lift Fixing of reinforcement Concrete pouring Total quantity poured 118m3
<b>Diversion Tunnel B UNDER GROUND</b>	U/S No work Shear zone area Part No.02 Left & Right Wall 8th lift Steel Fixing Part No 01 Left & Right Wall Steel Fixing Part No 03 crown No Work D/S K0+850~ Execution of remedial shotcrete Dumping for Diversion channel K1+260~K1+285 Left Wall Drilling for canopy tubes Install of canopy tubes K1+017~ Cleaning of rock surface for leveling concrete K1+135~ Drilling for blast Charging & blast K1+140~ Drilling for blast Charging & blast 16:30Hrs~17:30Hrs K1+020~K1+045 Excavation & mucking K1+125~K1+135 Excavation & mucking K1+150~ Left side Drilling for blast charging & blast Mucking	U/S No work Shear zone area Part No.02 Left & Right Wall 9th lift Pouring of concrete Quantity Poured till morning 390m3 Part No 03 Removing of scaffolding and formwork D/S Right side K1+017~1+057 Invert rock surface Left side K1+017~1+057 Excavation with jack hammer K1+055~ Excavation, mucking and dumping for Diversion channel Dumping for Diversion channel K1+260~K1+285 Right Wall Drilling for canopy tubes Arrangement for canopy tubes grouting Install of canopy tubes Protection layer K1+1140~ Excavation & mucking Left side K1+178~ Drilling for blast Charging & blast 22:00Hrs~1:30Hrs Mucking Right side K1+142~ Drilling for blast Charging & blast Mucking	U/S No work Shear zone area Part No.01 Left & Right Wall 8th Lift Fixing of reinforcement Pipes fitting and arrangements for concrete pouring Part No 02 Left & Right Wall 9th Lift Pouring of Concrete Total quantity poured 446m3 Pipes and pumps cleaning Part No 03 Removing and shifting of formwork D/S K0+800~900 Repairing shotcrete at crown Dumping for Diversion channel K1+270~ Left Wall Drilling for canopy tubes K0+974~K1+017 Left side Cleaning of rock surface for leveling concrete Invert excavation with jack hammer K1+080~ K1+176 Right Wall Execution of 1st layer shotcrete (18m3) K1+100~ Left side Excavation & Mucking K1+185~ Center Drilling for blast Charging Blast 14:55Hrs Excavation & mucking K1+076~ Right side Grouting & install of rock bolts K1+252 Left side~ Install and welding of grouting tubes	U/S No work Shear zone area Part No.01 Left & Right Wall 8th Lift Fixing of reinforcement Pipes fitting and arrangements for concrete pouring Total quantity poured 176m3 Part No 02 Left & Right Wall 9th Lift No work Part No 03 Removing and shifting of formwork Shifting of formwork and drilling for cavity grouting D/S K0+700~900 Cleaning of sludge from invert concrete K1+150~ Drilling for rock bolts K1+117~160 Right side Removing of under breaks and cleaning for levelling concrete K1+252 ~285 Drilling, Install and grouting of canopy tubes	U/S No work Shear zone area Part No.01 Left & Right Wall 9th Lift Shifting and fixing of reinforcement Shifting and fixing of reinforcement Fixing of formwork Part No 02 Left & Right Wall No work Part No 03 Removing of scaffolding and formwork Making access and arrangements for cavity grouting Dumping for Diversion channel K1+260~ Right Wall Drilling for canopy tubes K1+260~ Left Wall Install of canopy tubes K1+250~ Right Wall Drilling and install of canopy tubes K1+017~ K1+060 Left side Excavation with Jack hammer and cleaning for leveling concrete Excavation with Jack hammer and cleaning for leveling concrete K1+140~ Left Wall Grouting and install of rock bolts Total 13 pcs grouted K1+205 ~210 Drilling for blast Charging Blast 17:45Hrs K1+268~ Right side Drilling for blast Charging Blast 14:20Hrs Excavation & mucking K1+195~ Right side Charging Blast 08:45Hrs Excavation & mucking
<b>STARTER DAM</b>	K0+122~K0+080 Dumping & Compaction for Guide Wall Pouring of leveling concrete for guide wall	Excavation, mumping & backfilling K0+122~ 0+102 Pouring of leveling concrete for guide wall Dumping at starter dam site	Dumping & leveling Fixing of Formwork for guide wall concrete Arrangements for guide wall concrete Pouring of guide wall concrete Total quantity poured 13m3	Dumping & leveling	Dumping & leveling Formwork and steel fixing for guide wall concrete Arrangements for pouring of guide wall concrete Pouring of guide wall concrete Total quantity poured 92m3
<b>ADIT 3-2</b>	K0+003.5~ Drilling for blast Charging Blast 16:00Hrs	K0+003.5~ Mucking and scaling	K0+003.5~ No Work Cleaning of rock surface Spraying of 1st layer of shotcrete Total quantity 14m3 plain	K0+003.5~ Scaling K0+007~ Drilling for blast Charging for blast	K0+007~ Excavation and mucking Geological mapping K0+000~007 Marking for Rock bolts drilling Drilling for Rock bolts K0+007~010 Spraying of shotcrete

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<b>Traffic Diversion Tunnel</b>	K0+813.5- Charging for blast Blast 11:10Hrs Excavation & mucking Execution of 1st layer shotcrete K0+816.5- Survey for blast Drilling for blast Grouting for canopy tubes	K0+816.8- Drilling for blast Charging for blast Blast at 4:46Hrs K0+806-814 Drilling for rock bolts Grouting and install of rock bolts 40 pieces grouted K0+780- Drilling for weep holes Excavation and mucking Drilling for blast	K0+816- Excavation and mucking Geological mapping K0+802- Fixing of wire mesh EI 834- Excavation and mucking Drilling for blast	K0+820- Spraying of 1st layer of shotcrete Survey for blast K0+802- Fixing of wire mesh EI 832.5- Excavation and mucking Drilling for blast	K0+802-816 Fixing of wire mesh K0+820- Drilling for blast EI 832.5- Charging for blast Blast 13:40 Excavation and mucking
<b>Cable crane foundation (Right Bank)</b>	Base Elevation 1019.88 Elevation of working area 1062-1057 No Work (No Work due to shortage of operators, as non local (worker who belongs to Kashmir) worker have not returned to work after incident happened at DT-B Shear zone on 28th November.	Base Elevation 1019.88 Elevation of working area 1062-1057 Excavation with excavator	Base Elevation 1019.88 Elevation of working area 1062-1057 No Work (No Work due to shortage of operators, as non local (worker who belongs to Kashmir) worker have not returned to work after incident happened at DT-B Shear zone on 28th November.	Base Elevation 1019.88 Elevation of working area 1062-1057 No Work (No Work due to shortage of operators, as non local (worker who belongs to Kashmir) worker have not returned to work after incident happened at DT-B Shear zone on 28th November.	Base Elevation 1019.88 Elevation of working area 1062-1057 No Work (No Work due to shortage of operators, as non local (worker who belongs to Kashmir) worker have not returned to work after incident happened at DT-B Shear zone on 28th November.
<b>Uchar New Crushing plant</b>	Fixing of embedded parts of crushing plant Fixing of formwork at foundation Gallery Stones masonry at retaining wall Breaking of stones with jack hammer Stones masonry at retaining wall	Fixing of conveyor belt Fixing of scaffolding, formwork and reinforcement at storage area Stone masonry at Retaining wall No.3 Breaking of stones with jack hammer	Fixing of conveyor belt Stone masonry at retaining wall 3 Fixing of steel and formwork at storage area Dumping and levelling	Fixing of conveyor belt and embedded parts at crushing plant area Stone masonry at retaining wall 3 Fixing of steel and formwork at storage area Dumping and levelling Fixing of steel and formwork at storage area	Fixing of conveyor belt and embedded parts at crushing plant area Stone masonry at retaining wall 3 Fixing of steel and formwork at storage area Dumping and levelling Excavation for pipeline
<b>Kass Camp</b>	Excavation & leveling Stones masonry at retaining walls Install of sewage pipelines Construction of septic tank Stones masonry work for boundary wall White washing	Excavation & leveling work Stones masonry at retaining walls Install of sewage pipelines Construction of septic tank Stones masonry work for boundary wall White washing for office buildings	Welding of embedded parts for Pak canteen Making of steel stairs Stones masonry at retaining walls Install of formwork for retaining wall concrete Painting and electrical fittings Brick masonry work for washrooms Excavation & leveling	Welding of embedded parts for Pak canteen Making of steel stairs Stones masonry at retaining walls Install of formwork for retaining wall concrete Painting and electrical fittings Brick masonry work for washrooms Excavation & leveling	Welding of embedded parts for Pak canteen Making of steel stairs Stones masonry at retaining walls Install of formwork for retaining wall concrete Painting and electrical fittings Brick masonry work for washrooms Excavation & leveling
<b>CR-5-2 / LU-2</b>	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking
<b>Date/Day Location</b>	<b>11 Sun.</b>	<b>12 Mon.</b>	<b>13 Tue.</b>	<b>14 Wed.</b>	<b>15 Thu.</b>
<b>Diversion Tunnel A INLET</b>	Top Slab Shifting and fixing of scaffolding Part No.01 No Work Part No.02&03 No Work Part No.04 No Work	Top Slab Shifting and fixing of scaffolding Part No.01 No Work Part No.02&03 No Work Part No.04 No Work	Top Slab Fixing of scaffolding and access making Part No.01 No Work Part No.02&03 No Work Part No.04 No Work	Top Slab Fixing of scaffolding Part No.01 No Work Part No.02&03 Concrete repairing work and access making for cavity grouting Part No.04 No Work	Top Slab Fixing of scaffolding and making access Gate Slot Area left side Fixing and welding of gate frame Part No.01 No Part No.02&03 Formwork and scaffolding removing and concrete repairing work Formwork and scaffolding removing and concrete repairing work Part No.04 No Work
<b>Diversion Tunnel A UNDER GROUND</b>	INVERT U/S No work INVERT D/S No work	INVERT U/S No work INVERT D/S No work	INVERT U/S No work INVERT D/S No work	INVERT U/S No work INVERT D/S K0+740 Cleaning of mud from invert	INVERT U/S No work INVERT D/S No work
<b>Diversion Tunnel B Inlet Portal</b>	Gate Slot Area Fixing of steel plates Top slab Part3,4,5 Part No.1 Left & Right Wall 8th lift Fixing and supporting of formwork and cleaning Part No.02 & 03 Removing of scaffolding Part No.04 Left & Right Wall 10th lift Fixing of formwork Fixing of formwork Supporting of formwork	Gate Slot Area Fixing of steel plates Top slab Part3,4,5 Removing of formwork Part No.1 Left & Right Wall 8th lift Fixing and supporting of formwork Fixing and supporting of formwork and arrangements for concrete pouring Concrete pouring Part No.02 & 03 Removing of scaffolding Part No.04 Left & Right Wall 10th lift Fixing of formwork and arrangements for concrete pouring Supporting of formwork	Gate Slot Area Fixing and welding of gate frame Top slab Concrete repairing and finishing work Part No.1 Left & Right Wall 8th lift Concrete pouring Total quantity poured 309m3 concrete pump and pipes cleaning Fixing of reinforcement for 9th lift concrete Part No.02 & 03 Removing of scaffolding and formwork Removing of scaffolding and formwork Part No.04 Left & Right Wall 10th lift Fixing of formwork and arrangements for concrete pouring Concrete pouring Continue.	Gate Slot Area Fixing and welding of gate frame Top slab Removing of scaffolding, formwork and Concrete repairing and finishing work Removing of scaffolding, formwork and Concrete repairing and finishing work Part No.1 Left & Right Wall Concrete chipping and cleaning work Shifting and fixing of reinforcement for 9th lift concrete Part No.02 & 03 Removing of scaffolding and formwork Part No.04 Left & Right Wall 10th lift Concrete pouring Concrete pipes and pums washing Concrete chipping and cleaning work	Gate Slot Area Fixing and welding of gate frame Top slab Removing of scaffolding, formwork and Concrete repairing and finishing work Removing of scaffolding, formwork and Concrete repairing and finishing work Part No.1 Left & Right Wall Fixing of reinforcement and supporting of formwork Part No.02 & 03 Removing of scaffolding and formwork
<b>Diversion Tunnel B UNDER GROUND</b>	U/S No work Shear zone area Part No.01 Left & Right Wall 9th Lift Fixing of reinforcement and formwork and cleaning	U/S K0+052.5- Spraying of shotcrete at crown Shear zone area Part No.01 Left & Right Wall 9th Lift Fixing of reinforcement	Shear zone area Part No.01 Left & Right Wall 9th Lift Fixing of Concrete pipes and arrangements for	Shear zone area Part No.01 Left & Right Wall 9th Lift Concrete pouring Part No 02 Left & Right Wall No work Part No 03	Shear zone area Part No .01 Left & Right Wall 9th Lift Concrete pouring Total quantity poured 302m3

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	<p>reinforcement Part No 02 Left &amp; Right Wall Concrete repairing and finishing works Part No 03 Cavity grouting Cavity grouting Removing of formwork Dumping for Diversion channel K1+260~ Left Wall Welding of canopy tubes K1+250~ Right Wall Left wall Drilling for canopy tubes K0+974 ~ K0+978 Left side Removing undercuts with jack hammer K1+017~K1+060 Left side Cleaning for leveling concrete K0+974~ K0+986 Right side Cleaning for invert concrete Pouring of invert concrete Total quantity 132m3 K1+205~, Right wall Excavation and mucking K1+197~ Right side, K1+200~Left side Drilling for blast Charging Blast 03:55Hrs Excavation &amp; mucking</p>	<p>and formwork and concrete pipeline Part No 02 Left &amp; Right Wall No work Part No 03 No work D/S K0+650~ Mud cleaning from invert concrete Dumping for Diversion channel K1+260~ Left Wall Install of canopy tubes Welding of canopy tubes K1+250~ Right Wall Left wall Drilling for canopy tubes K1+017 ~K1+060 Left side Cleaning for leveling concrete Pouring of leveling concrete Total quantity poured 144m3 K1+215~ Excavation and mucking K1+206~ Right side, K1+210~ Left side Drilling for blast Charging Blast 00:40Hrs Excavation &amp; mucking</p>	<p>concrete pouring Part No 02 Left &amp; Right Wall No work Part No 03 No work Dumping for Diversion channel K1+260~ Left Wall Install and welding of canopy tubes Install and welding of canopy tubes K1+250~ Right Wall Left wall Drilling for canopy tubes K0+998~K1+017 Right side Cleaning for leveling concrete Cleaning for leveling concrete Excavation and mucking K1+135~ Right side Drilling for Rock bolts Grouting and install of Rock bolts K1+160~ Left side Grouting and install of Rock bolts K1+230~ Left side, K1+220~ Right side Drilling for blast Charging Blast 14:28Hrs Excavation &amp; mucking Drilling for blast Charging Blast 02:55Hrs Excavation &amp; mucking</p>	<p>Removing of scaffolding ,formwork and Concrete repairing and finishing work Removing of scaffolding, formwork and Concrete repairing and finishing work Dumping for Diversion channel K1+260~ Left Wall Install and welding of canopy tubes K1+250 ~ Right Wall +Left wall Drilling for canopy tubes K0+986 ~K0+998 Left side Cleaning for invert concrete Pouring of invert concrete Total quantity poured 138m3 K0+998~K1+017 Right side Cleaning for leveling concrete Excavation and mucking K1+230~ Left side, K1+228~ Right side Drilling for blast Charging Blast 15:48Hrs Excavation &amp; mucking K1+040~170 Left side Spraying of 2nd layer shotcrete Quantity 44.5m3 K1+160~ 160 Left and Right side Grouting and install of rock bolts Total 29 pcs grouted and installed</p>	<p>Removing and cleaning of concrete pipes Part No.01 Left &amp; Right Wall 10th Lift Concrete pouring Part No 02 Left &amp; Right Wall No work Part No 03 Removing of scaffolding, formwork and Concrete repairing and finishing work Dumping for Diversion channel K1+260~ Left Wall Install and welding of canopy tubes Install and welding of canopy tubes K1+250~ Right Wall Left wall Drilling for canopy tubes K0+962~K0+974 Left side Pouring of invert concrete Total quantity poured 130m3 surface finishing K0+998~K1+010 Right side Cleaning for Invert concrete Pouring of invert concrete Total quantity poured 135m3 K1+060~ K1+100 Right side Cleaning for Levelling concrete K1+120~ 176 Left and Right side Spraying of 2nd layer shotcrete Quantity 25.5m3 Spraying of 2nd layer shotcrete Quantity 16m3 K1+176~ 220 Left and Right side Spraying of 1st layer shotcrete Quantity 29m3 K1+235~ Drilling for blast Charging Blast 04:25Hrs Excavation &amp; mucking</p>
<b>STARTER DAM</b>	<p>Dumping &amp; leveling Formwork and steel fixing for guide wall concrete Pouring of guide wall concrete Total quantity poured 15m3</p>	<p>Dumping &amp; leveling Formwork and steel fixing for guide wall concrete Pouring of guide wall concrete Total quantity poured 13m3</p>	<p>Dumping &amp; leveling Formwork and steel fixing for guide wall concrete Excavation for guide wall</p>	<p>Dumping &amp; leveling Formwork and steel fixing for guide wall concrete Excavation for guide wall</p>	<p>Dumping &amp; leveling Formwork and steel fixing for guide wall concrete Formwork fixing for guide wall concrete</p>
<b>ADIT 3-2</b>	<p>K0+010~ Drilling for blast K0+000~010 Drilling for Rock bolts Grouting and install of Rock bolts Total 45 pcs grouted and installed and 4 pcs collapsed. K0+010~ Charging for blast Blast 01:32</p>	<p>K0+010~ Excavation and mucking Mapping Spraying of 1st layer shotcrete K0+000~010 Spraying of 2nd layer shotcrete K0+013.5~ Drilling for blast Charging for blast Blast 04:25</p>	<p>K0+013~ Excavation and mucking Mapping Spraying of 1st layer shotcrete K0+017.4~ Drilling for blast Charging for blast Blast 04:05</p>	<p>K0+017.4~ Excavation and mucking Spraying of 1st layer shotcrete</p>	<p>K0+010.5~020.5 Drilling for Blast K0+010.5~020.5 Grouting for rock bolts Total 37 pcs grouted and installed K0+020.5~ Charging for Blast blast 05:50</p>
<b>Traffic Diversion Tunnel</b>	<p>K0+802~816 Spraying of 2nd layer of shotcrete K0+820~ Charging for blast Blast 21:30 Excavation and mucking Mapping El 832.5~ Excavation and mucking Drilling for canopy tubes</p>	<p>K0+823~ Spraying of 1st layer of shotcrete K0+826~ Survey for blast Drilling for blast Charging for blast Blast 00:16 Excavation and mucking Mapping El 832.5~ Excavation and mucking El 834~831 Install of canopy tubes Grouting of canopy tubes</p>	<p>K0+823~ Spraying of 1st layer of shotcrete K0+825.8~ Survey for blast Drilling for blast Charging for blast Blast 21:10 Excavation and mucking Charging for remaining holes Blast 03:22 Excavation and mucking Mapping El 832~ Drilling for canopy tubes Excavation and mucking Drilling for rock bolts and fixing of wire mesh Grouting and install of rock bolts Total 14 pcs grouted and installed</p>	<p>K0+825.8~ Spraying of 1st layer of shotcrete K0+802~816 Spraying of remedial shotcrete K0+828~ Survey for blast K0+816~828 Marking for rock bolts drilling Invert levelling Drilling for grouting of rock bolts Grouting and install of rock bolts Total 46 pcs grouted and installed K0+750~ Drilling for weep holes El 831~ Excavation and mucking El 834~831 Spraying of shotcrete</p>	<p>K0+816~ No work Fixing of wire mesh K1+365~ Drilling for portal blast Charging for blast Blast 15:15 Excavation and mucking Spraying of 1st layer of shotcrete</p>
<b>Cable crane foundation (Right Bank)</b>	<p>Base Elevation 1019.88 Elevation of working area 1062~1057 No Work due to shortage of operators, as non local (worker who belongs to Kashmir) worker have not returned to work after incident happened at DT-B Shear zone on 28th November.</p>	<p>Base Elevation 1019.88 Elevation of working area 1062~1057 No Work due to shortage of operators, as non local (worker who belongs to Kashmir) worker have not returned to work after incident happened at DT-B Shear zone on 28th November.</p>	<p>Base Elevation 1019.88 Elevation of working area 1062~1057 No Work due to shortage of operators, as non local (worker who belongs to Kashmir) worker have not returned to work after incident happened at DT-B Shear zone on 28th November.</p>	<p>Base Elevation 1019.88 Elevation of working area 1062~1057 No Work due to shortage of operators, as non local (worker who belongs to Kashmir) worker have not returned to work after incident happened at DT-B Shear zone on 28th November.</p>	<p>Base Elevation 1019.88 Elevation of working area 1062~1057 No Work due to shortage of operators, as non local (worker who belongs to Kashmir) worker have not returned to work after incident happened at DT-B Shear zone on 28th November.</p>
<b>Uchar New Crushing plant</b>	<p>Fixing of conveyor belt and embedded parts at crushing plant area Stone masonry at retaining wall 3 Fixing of steel and formwork at storage area Dumping and levelling</p>	<p>Pouring of concrete at batching plant area Fixing of conveyor belt and embedded parts at crushing plant area Stone masonry at retaining wall 3 Fixing of steel and</p>	<p>Fixing of conveyor belt and embedded parts at crushing plant area Fixing of steel and formwork at storage area Excavation for pipeline Fixing of steel and formwork at storage area</p>	<p>Fixing of conveyor belt and embedded parts at crushing plant area pouring of concrete at storage area Excavation for pipeline Fixing of steel</p>	<p>Fixing of conveyor belt and embedded parts at crushing plant area Fixing of steel and formwork at storage area Fixing of generator at batching plant area</p>

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	Excavation for pipeline Fixing of steel and formwork at storage area	formwork at storage area Excavation for pipeline Fixing of steel and formwork at storage area		and formwork at storage area	
<b>Kass Camp</b>	Welding of embedded parts for Pak canteen Making of steel stairs Stones masonry at retaining walls Install of formwork for retaining wall concrete Painting and electrical fittings Brick masonry work for washrooms Excavation & leveling	Welding of embedded parts for Pak canteen Making of steel stairs Stones masonry at retaining walls Install of formwork for retaining wall concrete Painting and electrical fittings Brick masonry work for washrooms Excavation & leveling	Welding of embedded parts for Pak canteen Making of steel stairs Stones masonry at retaining walls Painting and electrical fittings Brick masonry work for washrooms Excavation & leveling	Stones masonry at retaining walls Fixing and welding of shelters Painting and electrical fittings Excavation & leveling	Fixing of conveyor belt and embedded parts at crushing plant area Fixing of steel and formwork at storage area Fixing of generator at batching plant area
<b>CR-5-2 / LU-2</b>	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking
<b>Date/Day Location</b>	<b>16 Fri.</b>	<b>17 Sat.</b>	<b>18 Sun.</b>	<b>19 Mon.</b>	<b>20 Tue.</b>
<b>Diversion Tunnel A INLET</b>	Top Slab Fixing of scaffolding and making access Part No.01 No Work Part No.02&03 No Work Part No.04 No Work	Top Slab Fixing of scaffolding and making access Gate Slot Area Welding of gate frame Part No.01 Removing of scaffolding Part No.02 &03 Drilling for cavity grouting Part No.04 No Work	Top Slab Fixing of scaffolding and welding work Part No.01 No Work Part No.02&03 Removing of scaffolding and grinding of concrete surface Part No.04 No Work	Top Slab Fixing of scaffolding and welding work Part No.01 No Work Part No.02&03 Removing of scaffolding and formwork Part No. 04 No Work	Top Slab Fixing of scaffolding Part No.01 No Work Part No.02&03 Removing of scaffolding and formwork Part No.04 No Work
<b>Diversion Tunnel A UNDER GROUND</b>	INVERT U/S No work INVERT D/S No work	INVERT U/S No work INVERT D/S No work	INVERT U/S No work INVERT D/S No work	INVERT U/S No work INVERT D/S No work	INVERT U/S No work INVERT D/S No work
<b>Diversion Tunnel B Inlet</b>	Gate Slot Area Arrangements for 2nd stage concrete Top slab Concrete repairing and finishing work Part No.1 Left & Right Wall 09th lift Fixing of reinforcement and supporting of Concrete pouring Continue. Part No.02,03&04 Removing of scaffolding and formwork	Gate Slot Area Cleaning of formwork and arrangements for 2nd stage concrete Top slab Concrete repairing and finishing work Part No.1 Left & Right Wall 09th lift Concrete pouring Removing and cleaning of concrete pipes and pumps Concrete curing, chipping and cleaning s Part No.02 & 03 Removing of scaffolding	Gate Slot Area Pouring of 2nd stage concrete Continue Top slab Concrete repairing and finishing work Part No.1 10 Lift Left & Right Wall Fixing of reinforcement Part No.02 & 03 Removing of scaffolding	Gate Slot Area Pouring of 2nd stage concrete Continue. Top slab No work Part No.1 10 Lift Left & Right Wall Fixing of reinforcement and formwork and chipping work Part No.02 & 03 Removing of scaffolding	Gate Slot Area Pouring of 2nd stage concrete Total quantity poured 183m3 Removing and cleaning of concrete pipes Top slab No work Part No.1 10 Lift Left & Right Wall Chipping, cleaning and arrangements for concrete pouring Concrete pouring Continue Part No.02 & 03 Concrete repairing and finishing work Part No.04 Drilling for cavity grouting
<b>Diversion Tunnel B UNDER GROUND</b>	Shear zone area Part No.01 Left & Right Wall 10th Lift Concrete pouring Total quantity poured 150m3 Cleaning and removing of pumps and concrete pipes Part No 02 Left & Right Wall No work Part No 03 Concrete repairing and finishing work Dumping for Diversion channel K1+260~ Left Wall Drilling for canopy tubes K1+250~ Right Wall Grouting of canopy tubes K1+060~K1+100 Left side Pouring of invert concrete Total quantity poured 125m3 surface finishing K0+974~K0+986 Left side Pouring of invert concrete Total quantity poured 120m3 K1+100~ K1+150 Right side Excavation and Cleaning for Levelling concrete K1+170~1200 Drilling for Rock bolts K1+240~ Drilling for blast Charging Blast 10:20Hrs Excavation & mucking	Shear zone area Part No.01 Left & Right Wall 10th Lift Removing of scaffolding Part No 02 Left & Right Wall No work Drilling for cavity grouting Part No 03 Drilling for cavity grouting and Concrete repairing and finishing work Removing of formwork and concrete repairing works and arrangements for cavity grouting K1+010~ K1+022 Right side Cleaning and arrangements for pouring of invert concrete Pouring of invert concrete Total quantity poured 142m3 K1+085~K1+150 Right side Excavation and Cleaning for Levelling concrete K1+170~1200 Grouting of Rock bolts Total 90 pcs grouted and installed K0+986~ K0+998 Left side Pouring of invert concrete Total quantity poured 120m3 Dumping for Diversion channel K1+252~ Right Wall Install of canopy tubes Grouting of canopy tubes K1+252~ Left Wall Install of canopy tubes	Shear zone area Part No.01 Removing of scaffolding Part No 02 Left & Right Wall Removing of scaffolding Drilling for cavity grouting Part No 03 Drilling for cavity grouting and Concrete repairing and finishing Cavity grouting Dumping for Diversion channel K1+252~ Right Wall Grouting of canopy tubes K1+252~ Left Wall Install of canopy tubes K1+022~ K1+034 Right side Pouring of invert concrete Total quantity poured 120m3 K1+100 ~K1+140 Right side Cleaning for Levelling concrete K1+140~ K1+180 Right side Excavation and Cleaning for Levelling concrete K1+240~ Excavation and mucking K0+998~K1+010 Left side pouring of invert concrete Total quantity poured 128m3	Shear zone area Part No 01 No work Part No 02 Left & Right Wall Removing of scaffolding Part No 03 Cavity grouting Total 12 holes grouted Cavity grouting Dumping for Diversion channel Installation and welding of canopy tubes K1+252~ Right Wall Drilling for canopy tubes K1+034~K1+046 Right side Cleaning and arrangements for pouring of invert concrete Pouring of invert concrete Total quantity poured 132m3 K1+100~K1+140 Right side Cleaning for Levelling concrete Total quantity poured 210m3 K1+150~ Right side Removing of undercuts and Cleaning for Levelling concrete K1+245~ Excavation and mucking K1+010~ K1+022 Left side Cleaning for pouring of invert concrete Pouring of invert concrete Total quantity poured 130m3 K1+250~ Drilling for blast Charging for blast Blast 05:15 Excavation and mucking	Part No.01 No work Part No 02 Left & Right Wall Removing of scaffolding and arrangements for cavity grouting Total 12 holes grouted Part No 04 & 05 Concrete repairing and finishing work Excavation, dumping and levelling for Diversion channel K1+252~ Left Wall Install and welding of canopy tubes Drilling for canopy tubes K1+252~ Right Wall Drilling for canopy tubes K1+034~ K1+046 Right side Finishing of concrete surface K0+998~K1+010 Left side Finishing of concrete surface K1+140 ~180 Right side Invert excavation and Cleaning for Levelling concrete K1+245~ Excavation and mucking K1+046~ K1+058 Right side Cleaning for pouring of invert concrete Pouring of invert concrete Total quantity poured 129m3
<b>STARTER DAM</b>	Dumping & leveling Formwork and steel fixing for guide wall concrete Formwork fixing for guide wall concrete	Dumping & leveling Formwork and steel fixing for guide wall concrete Pouring of guide wall concrete Total quantity	Dumping & leveling Formwork and steel fixing for guide wall concrete Formwork fixing for guide wall concrete	Dumping & leveling Fixing of formwork for guide wall concrete at K0+074~094 Formwork and steel fixing for guide	Dumping & leveling Fixing of reinforcement and formwork for guide wall concrete at K0+074 ~094



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		poured 48m3 Dumping & leveling Formwork fixing for guide wall concrete		wall concrete at 0+074~094 Formwork fixing for guide wall concrete	Shifting of scaffolding and formwork
<b>ADIT 3-2</b>	K0+020.5- Excavation and mucking Spraying of 1st layer of shotcrete Quantity 6m3 Grouting of rock bolts	K0+010.5~020.5 Grouting of rock bolts Total 9 pcs grouted and installed K0+024.5~ Survey for blast Drilling for blast Charging for blast Blast 18:25 Excavation and mucking Geological mapping Arrangements for 1st layer of shotcrete Spraying of 1st layer of shotcrete	K0+028~ Survey for blast Drilling for blast Charging for blast Blast 16:20 Excavation and mucking Geological mapping Spraying of 1st layer of shotcrete Quantity 6m3	K0+030~ Survey for blast Drilling for blast Charging for blast Blast 15:11 Excavation and mucking Geological mapping Spraying of 1st layer of shotcrete Quantity 6m3 marking for drilling of rock bolts Drilling for rock bolt	K0+033.5~ No work Survey for drilling K0+020~033.5 Drilling for rock bolts Grouting of rock bolts Total 39 pcs grouted and installed, 01 pc collapsed. Grouting of rock bolts Total 45 pcs grouted and installed 2 pcs collapsed
<b>Traffic Diversion Tunnel Portal</b>	K0+829~ Drilling for blast Charging for blast Blast 17:20 K1+364~ Survey for blast Drilling for blast Charging for blast Blast 17:30 Excavation and mucking	K0+829~ Spraying of 1st layer shotcrete Survey for blast K0+831~ Drilling for blast K0+812 ~824 spraying of 2 <sup>nd</sup> layer shotcrete Total quantity 24m3 K1+364~ Spraying of 1st layer shotcrete 00:00Hrs~00:30Hrs Quantity 3m3	K0+831~ Drilling for blast charging for blast Blast 21:45 Excavation and mucking Mapping Spraying of 1st layer shotcrete Total quantity 06m3 K1+364~ No work	K0+834~ Survey for blast Drilling for blast Charging for blast Blast 16:05 Excavation and mucking Mapping Spraying of 1st layer shotcrete Total quantity 6m3 Invert levelling Survey for blast K1+364~ Drilling for rock bolts Grouting of rock bolts Total 16 pcs grouted and installed	K0+836.5~ Drilling for blast Charging for blast Blast 17:08 Excavation and mucking Mapping Spraying of 1st layer shotcrete Total quantity 6m3 Invert levelling Survey for blast K1+364~ No work Drilling for steel arches install
<b>Cable crane foundation (Right Bank)</b>	Base Elevation 1019.88 Elevation of working area 1062~1057 No Work due to shortage of operators, as non local (worker who belongs to Kashmir) worker have not returned to work after incident happened at DT-B Shear zone on 28th November.	Base Elevation 1019.88 Elevation of working area 1062~1057 Excavation	Base Elevation 1019.88 Elevation of working area 1062~1057 No Work due to shortage of operators, as non local (worker who belongs to Kashmir) worker have not returned to work after incident happened at DT-B Shear zone on 28th November.	Base Elevation 1019.88 Elevation of working area 1062~1057 No Work due to shortage of operators, as non local (worker who belongs to Kashmir) worker have not returned to work after incident happened at DT-B Shear zone on 28th November.	Base Elevation 1019.88 Elevation of working area 1062~1057 No Work due to shortage of operators, as non local (worker who belongs to Kashmir) worker have not returned to work after incident happened at DT-B Shear zone on 28th November.
<b>Uchar New Crushing plant</b>	Fixing of conveyor belt and embedded parts at crushing plant area Fixing of steel and formwork at storage area Fixing of generator at batching plant area Removing of formwork at storage area	Fixing of conveyor belt and embedded parts at crushing plant area Fixing of formwork and scaffolding at storage area Removing of formwork from pipe line Dumping and levelling Fixing of formwork and scaffolding at storage area	Fixing of conveyor belt and embedded parts and welding work at crushing plant area Fixing of formwork and scaffolding at storage area Fixing of steel for water tank at batching plant area Dumping and levelling	Fixing of conveyor belt and embedded parts and welding work at crushing plant area Fixing of formwork and scaffolding at storage area Excavation for water pipeline Fixing of steel for water tank at batching plant area stone masonry at fuel tank area	Shifting and fixing of conveyor belt and embedded parts and welding work at crushing plant area Shifting of mechanical parts near screening workshop Shifting of scaffolding from batching plant to screening workshop stone masonry at fuel tank area
<b>Kass Camp</b>	Stones masonry at retaining walls Fixing and welding of shelters Painting and electrical fittings Excavation & leveling	Stones masonry at retaining walls Fixing and welding of shelters Painting and electrical fittings Excavation & leveling	Stones masonry at retaining walls Fixing and welding of shelters Painting and electrical fittings Excavation & leveling	Stones masonry at retaining walls Fixing and welding of shelters Painting and electrical fittings Excavation & leveling	Stones masonry at retaining walls Fixing and welding of shelters Painting and electrical fittings Excavation & leveling
<b>CR-5-2 / LU-2</b>	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking
<b>Date/Day Location</b>	<b>21 Wed.</b>	<b>22 Thu.</b>	<b>23 Fri.</b>	<b>24 Sat.</b>	<b>25 Sun.</b>
<b>Diversions Tunnel A INLET</b>	Top Slab Fixing of scaffolding Middle pier Fixing of reinforcement Gate portion Left side Cleaning and arrangements for sill beam concrete Pouring of sill beam concrete Total quantity 68m3 Part No.01 No Work Part No.02&03 Removing of scaffolding and concrete repairing and finishing work Removing of scaffolding Part No.04 No Work	Top Slab Fixing of scaffolding and welding work Middle pier No work Gate slot Right side EL.764.8~765.9 Pouring of 2nd stage concrete Total quantity 68m3 Part No.01 No Work Part No.02&03 Drilling for cavity grouting Part No.04 No Work	Top Slab Fixing of scaffolding and welding work Middle pier No work Part No.01 No Work Part No.02&03 Drilling for cavity grouting Total 5 holes grouted Part No.04 No Work	Top Slab Fixing of scaffolding for top slab Middle pier Fixing of reinforcement Part No. 01 No Work Part No.02& 03 Cavity grouting Cavity grouting Part No.04 No Work	Top Slab Shifting and fixing of scaffolding for top slab Fixing of scaffolding Middle pier No work Part No.01 No Work Part No.02&03 Removing of scaffolding Part No.04 No Work
<b>Diversions Tunnel A UNDER GROUND</b>	INVERT U/S No work INVERT D/S No work	K1+400~450 Left side Excavation and mucking	D/S K1+450~ Left side Drilling for blast Charging for blast Blast 17:20 Excavation and mucking	D/S K1+450~ Left side Excavation and mucking	INVERT U/S No work INVERT D/S No work
<b>Diversions Tunnel B Inlet Portal</b>	Gate Slot Area Left side Fixing of concrete pipes for 2nd stage concrete Top slab Concrete repairing and finishing work Part No.1 10 Lift Left & Right Wall Concrete pouring Total quantity poured 659m3 Removing and	Gate Slot Area Right side Removing formwork and concrete chipping Removing formwork and concrete chipping Top slab Concrete repairing and finishing work Concrete repairing and finishing work Gate Slot Area Left side Continue.	Top slab Removing of scaffolding, formwork and Concrete repairing and finishing work Removing of scaffolding, formwork and Concrete repairing and finishing work Gate Slot Area Left side Pouring of 2 <sup>nd</sup> stage concrete Part No.02, 03	Top slab Removing of scaffolding, formwork and Concrete repairing and finishing work Removing of scaffolding, formwork and Concrete repairing and finishing work Removing of scaffolding Gate Slot Area	Top slab Removing of scaffolding and formwork Removing of scaffolding and formwork Gate Slot Area Right side Concrete repairing work Part No.02, 03

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	cleaning of concrete pipes Part No.02 & 03 Removing and shifting of scaffolding Part No.04 No work Drilling for cavity grouting	Part No.1 10 Lift Curing Part No.02 & 03 Removing and shifting of scaffolding Removing and shifting of scaffolding Part No.04 Drilling for cavity grouting	Removing and shifting of scaffolding and concrete repairing and finishing	Left side Pouring of 2 <sup>nd</sup> stage concrete Total quantity poured 188m <sup>3</sup> Part No.02, 03 Removing and shifting of scaffolding	
<b>Diversion Tunnel B UNDER GROUND</b>	Shear zone area Part No.01 No work Part No 02 Left & Right Wall Removing of scaffolding Part No 04 &05 Concrete repairing and finishing work Excavation, dumping and levelling for Diversion channel K1+255~ Drilling for blast Charging for blast Blast 13:02 Excavation and mucking K1+260~ Left side Drilling for blast Charging for blast Blast 22:24 Excavation and mucking K0+800~ Cleaning of mud from invert concrete K1+140 ~180 Right side Invert cleaning for Levelling concrete K1+046~ K1+058 Right side Surface finishing K1+022~K1+034 Left side Cleaning for invert concrete Formwork fixing and arrangements for invert concrete Pouring of invert concrete Total quantity poured 124m <sup>3</sup>	Shear zone area Part No. 01 No work Removing and shifting of scaffolding Part No 02 & 03 Left & Right Wall Removing of scaffolding Concrete repairing and finishing Part No 04 & 05 Concrete repairing and finishing work Excavation, dumping and levelling for Diversion channel K1+240~ center Excavation and mucking K1+275~ Left side Drilling for blast Charging for blast Blast 17:15 Excavation and mucking K1+260~ Right Wall Drilling for canopy tubes install of canopy tubes D/S K0+490~600 Cleaning of mud from invert concrete K1+140 ~180 Right side Invert cleaning for Levelling concrete Pouring of leveling concrete Total quantity poured 205m <sup>3</sup> K1+058~K1+060 Right side Cleaning for invert concrete Formwork fixing and arrangements for invert concrete K1+180 ~K1+240 Right side Excavation and cleaning for levelling concrete	Shear zone area Part No. 01 No work Removing and shifting of scaffolding Part No 02 & 03 Removing of scaffolding and concrete repairing and finishing Part No 04 & 05 Excavation, dumping and levelling for Diversion channel K1+260~ Right Wall Drilling for canopy tubes Drilling and install of canopy tubes K1+270~282 Left Wall Drilling and install of canopy tubes K1+034~046 Left side Cleaning and arrangements for invert concrete Pouring of Invert concrete Total quantity poured 120m <sup>3</sup> Surface finishing K1+180 ~K1+240 Right side Cleaning for levelling concrete	Shear zone area Part No .01 Removing of formwork and scaffolding Part No 02 & 03 Removing of scaffolding Part No 04 & 05 No work Excavation, dumping and levelling for Diversion channel Charging for boulder blast Blast 00:50 K1+250~ Excavation and mucking K1+260~ Right Wall Install of canopy tubes K1+270~282 Left Wall Drilling for canopy tubes K1+100~140 Left side Invert excavation for levelling concrete Cleaning for levelling concrete K1+180~ K1+240 Right side Cleaning for levelling concrete K1+046~ 058 Left side Pouring of invert concrete Total quantity poured 130m <sup>3</sup>	Shear zone area Part No. 01 Removing of formwork and scaffolding Part No 02 & 03 Concrete repairing and finishing work Removing of scaffolding Part No 04 & 05 No work Excavation, dumping and levelling for Diversion channel Excavation, dumping and levelling for Diversion channel K1+220~ Excavation and mucking for final layer K1+260~ Right Wall Install of canopy tubes K1+270~282 Left Wall Drilling for canopy tubes K1+090~130 Left side Removing undercuts and cleaning for levelling concrete Cleaning for levelling concrete K1+180 ~K1+220 Right side Cleaning for levelling concrete Pouring of levelling concrete Total quantity poured 172m <sup>3</sup> K1+046~058 Left side Finishing of concrete surface K1+140~ Left side Excavation and mucking
<b>STARTER DAM</b>	Dumping & leveling Cleaning and arrangements for guide wall concrete Formwork and steel fixing and arrangements for guide wall concrete Stone masonry at slurry tank	Dumping & leveling Cleaning and arrangements for guide wall concrete Stone masonry at slurry tank Formwork and steel fixing and arrangements for guide wall concrete Stone masonry at slurry tank	Dumping & leveling Steel fixing for guide wall concrete Backfilling at guide wall Curing of lean concrete Stone masonry at slurry tank Dumping & leveling Formwork and steel fixing and arrangements for guide wall concrete Stone masonry at slurry tank Drilling for cut off wall Fixing of formwork and welding of supporting bars	Dumping & leveling Install of formwork at mud channel Backfilling at guide wall Stone masonry at slurry tank Dumping & leveling Install of formwork at mud channel Stone masonry at slurry tank Drilling for cut off wall	Dumping & leveling Removal of formwork from backfill concrete Backfilling at guide wall Drilling for cut off wall Dumping, leveling and compaction
<b>ADIT 3-2</b>	K0+033.5~No work Drilling for blast Charging for blast Blast 06:30	K0+033.5~ Excavation and mucking Excavation and mucking Spraying of 1st layer shotcrete K0+036.5~ Survey for blast Drilling for blast	K0+039.5~Charging for blast Blast 08:40 Excavation and mucking Spraying of 1st layer shotcrete OUTLET EL.773 Drilling for rock bolts Grouting of rock bolts 17 pieces grouted and installed, 5 pieces collapsed Drilling for collapsed rock bolts Grouting of rock bolts Spraying of 2 <sup>nd</sup> layer shotcrete quantity 12m <sup>3</sup>	K0+039.5~ Drilling for blast Charging for blast Blast 14:55 Excavation and mucking Spraying of 1st layer shotcrete K0+042.5~ Survey for blast Drilling for blast	K0+042.5~ Drilling for blast Charging for blast Blast 14:20 Excavation and mucking Spraying of 1st layer shotcrete Quantity 6m <sup>3</sup> K0+045~ Survey for blast Drilling for blast Charging for blast Blast 06:30
<b>Traffic Diversion Tunnel Portal</b>	K0+839~ Drilling for Charging for blast Blast 22:47 Excavation and mucking Mapping Spraying of 1st layer shotcrete Total quantity 06m <sup>3</sup> K1+364~ welding work for steel arches	K0+839~Spraying of 1st layer shotcrete Total quantity 6m <sup>3</sup> K0+822 ~828 Fixing of wire mesh Fixing of wire mesh K0+828~841 Drilling for rock bolts Grouting of rock bolts Total 60 pcs grouted and installed K0+822~828 Fixing of wire mesh K0+842~ Survey for blast K1+364~ welding work for steel arches	K0+842~Drilling for blast Charging for blast Blast 15:17 Excavation and mucking Install of thickness pins Geological mapping Q value 1.33 Spraying of 1st layer shotcrete Total quantity 5m <sup>3</sup> K0+824~829 Spraying of 2nd layer shotcrete Total quantity 9m <sup>3</sup> K0+845~ Survey for blast Drilling for blast K1+364~ welding work and preparations for install of steel arches	K0+845~ Drilling for blast Charging for blast Blast 12:00 Excavation and mucking Install of thickness pins Geological mapping Q value 1.45 Spraying of 1st layer shotcrete Total quantity 5m <sup>3</sup> K0+829~ Fixing of wire mesh K0+848~ Survey for blast Drilling for blast K1+364~ welding work and arrangements for install of steel arches	K0+829~ Fixing of wire mesh K0+848~ Drilling for blast Charging for blast Blast 20:55 Excavation and mucking Install of thickness pins Geological mapping Q value 1.17 Spraying of 1st layer shotcrete Total quantity 6m <sup>3</sup> K0+829~834 Spraying of 2 <sup>nd</sup> layer shotcrete Total quantity 8m <sup>3</sup> K1+364~ welding work and arrangements for install of steel arches

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<b>Cable crane foundation (Right Bank)</b>	Base Elevation 1019.88 Elevation of working area 1062~1057 No work	Base Elevation 1019.88 Elevation of working area 1062~1057 No work	Base Elevation 1019.88 Elevation of working area 1062~1057 No work	Base Elevation 1019.88 Elevation of working area 1062~1057 No work	Base Elevation 1019.88 Elevation of working area 1059~1055 Excavation
<b>Uchar New Crushing plant</b>	Shifting and fixing of conveyor belt and embedded parts and welding work at crushing plant area Shifting of mechanical parts at crushing plant area Stone masonry at gallery foundation Fixing of reinforcement at batching plant area	Shifting and fixing of conveyor belt and embedded parts and welding work at crushing plant area Install of mechanical parts at screening workshop Stone masonry at gallery foundation Fixing of formwork at storage area	Stone masonry at gallery foundation Install of mechanical parts at screening workshop Block masonry at generator room Drilling for boulder blast	Stone masonry at gallery foundation Install and welding of mechanical parts at screening workshop Excavation near crushing workshop Shifting of mechanical parts at batching plant area Fixing of steel at batching plant area Fixing of steel and scaffolding near foundation gallery	Fixing of conveyor belt and welding work at crushing plant area Stone masonry at stock piles walls Fixing of steel at storage area Shifting of mechanical parts at batching plant area Fixing of steel at batching plant area Shifting of mechanical parts at batching plant area Removing of formwork from sides walls of foundation gallery Fixing of scaffolding at batching plant area
<b>Kass Camp</b>	Stones masonry at retaining walls Fixing and welding of shelters Painting and electrical fittings Excavation & leveling	Concrete pouring at canteen base slab Stones masonry at retaining walls Fixing and welding of shelters Painting and electrical fittings Excavation & leveling	Concrete pouring at Retaining walls Stones masonry at retaining walls Fixing and welding of shelters Painting and electrical fittings Excavation & leveling	Concrete pouring at Retaining walls Stones masonry at retaining walls Fixing and welding of shelters Painting and electrical fittings Excavation & leveling	Concrete pouring at Retaining walls Stones masonry at retaining walls Fixing and welding of shelters Painting and electrical fittings Excavation & leveling
<b>CR-5-2 / LU-2</b>	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking

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**Appendix K [11/34]**

**Daily Work Records of MW-02**

Date/Day Location	1 Thursday	2 Friday	3 Saturday	4 Sunday	5 Monday	6 Tuesday	7 Wednesday
Main Access Tunnel	DAY F. Ch:0+963 (Design Excavation is completed on 20/11/2020 No Further Activity.)  NIGHT F. Ch:0+963 (Design Excavation is completed on 20/11/2020 No Further Activity.)	DAY F. Ch.: 0+963 Design Excavation is completed 20/11/2020. But support work is remaining.  NIGHT F. Ch.: 0+963 Design Excavation is completed 20/11/2020. But support work is remaining.	F. Ch:0+963 (Design Excavation is completed on 20/11/2020 No Further Activity.)  NIGHT F. Ch:0+963 (Design Excavation is completed on 20/11/2020 No Further Activity.)	DAY F. Ch:0+963 (Design Excavation is completed on 20/11/2020 No Further Activity.)  NIGHT F. Ch:0+963 (Design Excavation is completed on 20/11/2020 No Further Activity.)	DAY F. Ch:0+963 (Design Excavation is completed on 20/11/2020 No Further Activity.)  NIGHT F. Ch:0+963 (Design Excavation is completed on 20/11/2020 No Further Activity.)	DAY F. Ch:0+963 (Design Excavation is completed on 20/11/2020 No Further Activity.)  NIGHT F. Ch:0+963 (Design Excavation is completed on 20/11/2020 No Further Activity.)	(Design Excavation is completed on 20/11/2020 No Further Activity.)  F. Ch:0+963 (Design Excavation is completed on 20/11/2020 No Further Activity.)
Draft Tunnel Towards Tailrace Tunnel No 2	Day Right side F. Ch.: 0+53.5 No Activity.  Night Right side F. Ch.: 0+53.5 No Activity.	Ch: K0+053.5 (Approx.) No activity due to lack of resources. Night No activity due to lack of resources	Day Ch.: K0+053.5 (approx.) No activity due to lack of resources.	Day Right side F. Ch.: 0+53.5 No Activity due to Lack of resource  Night Right side F. Ch.: 0+53.5 No Activity.	Day Right side F. Ch.: 0+53.5 No Activity  Night Right side F. Ch.: 0+53.5 No Activity.	Day Right side F. Ch.: 0+53.5 No Activity due to lack of resource  Night Right side F. Ch.: 0+53.5 No Activity Due to lack of resource.	Ch: K0+053.5 (approx.) No activity due to lack of resources  Ch: K0+053.5 (approx.) No activity due to lack of resources.
Draft Tunnel Towards Tailrace Tunnel No 1	F ch:0+057.0 No activity	F ch:0+057.0 No activity	F ch:0+057.0 No activity	F ch:0+057.0 No activity	F ch:0+057.0 No activity	F ch:0+057.0 No activity	F ch:0+057.0 No activity
Exhaust Tunnel	F. Ch:0+193 The Total tunnel length of excavation 215m has been completed while excavation of drop shaft to be commenced. Verification by inspection of support work still to be done. No Activity observed so far.	F. Ch:0+193 The Total tunnel length of excavation 215m has been completed while excavation of drop shaft to be commenced. Verification by inspection of support work still to be done. No Activity observed so far.	F. Ch:0+193 Vertical shaft no activity.	F. Ch:0+193 The Total tunnel length of excavation 215m has been completed while excavation of drop shaft to be commenced. Verification by inspection of support work still to be done.No Activity observed so far.	F. Ch:0+193 The Total tunnel length of excavation 215m has been completed while excavation of drop shaft to be commenced. Verification by inspection of support work still to be done. No Activity observed so far.	F. Ch:0+193 The Total tunnel length of excavation 215m has been completed while excavation of drop shaft to be commenced. Verification by inspection of support work still to be done. No Activity observed so far.	F. Ch:0+193 The Total tunnel length of excavation 215m has been completed while excavation of drop shaft to be commenced. Verification by inspection of support work still to be done. No Activity observed so far.
Service Tunnel C	Day Note: -Design Excavation (450 m) has been Completed. Night Note: -Design Excavation (450 m) has been Completed.	Note: -Design Excavation (450 m) has been Completed.	Note: -Design Excavation (450 m) has been Completed.	Note: -Design Excavation (450 m) has been Completed. No Activity regarding to Support work.	Note: -Design Excavation (450 m) has been Completed. No Activity regarding to Support work.	Note: -Design Excavation (450 m) has been Completed. Drilling for missing rock bolts	Excavation (450 m) has been Completed. Drilling for missing rock bolts
GIS Cavern Access Tunnel	Day F.CH:0+116 approx. Night F.CH:0+116 approx. No Activity	Day F.CH:0+116 No Activity Night F.CH:0+116 approx. No Activity	Day F.CH:0+116 No Activity Night F.CH:0+116 approx. No Activity	Day F.CH:0+116 approx. No Activity Night F.CH:0+116 approx. No Activity	Day F.CH:0+116 approx. No Activity Night F.CH:0+116 approx. No Activity	Day F.CH:0+116 approx. No Activity Night F.CH:0+116 approx. No Activity	Day F.CH:0+116 approx. No Activity Night F.CH:0+116 approx. No Activity
Transformer Cavern II 2 lift and right	Day II-2 Left side No Activity  II-2 Right side No Activity  Night F.ch:0+241.0 II-2 Right Ch:0+0+085-0+80.0 20:00_Installation of rebar mesh  II-2 Left Ch:0+100-0+105.0	Day II-2 Left side Ch.: 0+150 - 115 15:45 -) 2nd pass of 2nd layer Shotcrete Qty = 08m3  II-2 Right side Ch.: 0+82 - 75 08:00 - 15:30) Installation of rebar mesh Night F.ch:0+241.0 II-2 Right Ch:0+0+070.0-0+075.0 ) Installation	Day II-2 Left side Ch.: 0+097-0+102 8:00-14:30) Fixing of rebar mesh. Note: contractor is again reminded to rectify the fractured shotcrete on the crown II-2 Right side No Activity night	Day II-2 Left side Ch.: 0+095-0+100 8:00-) Fixing of rebar mesh. II-2 Right side No Activity Night F.ch:0+241.0 II-2 Right Ch:0+0+105.0-0+70.0 20:00-) Rectification of rebar mesh  II-2 Left	Day II-2 Left side Ch.: 0+088-0+092 8:00-) Fixing of rebar mesh. Ch.: 0+055-0+080 11:30-12:00) 2nd go of 1st layer shotcrete. (8m³ PS)  II-2 Right side Ch: 0+070-0+062 8:00-) Fixing of rebar mesh. Night	Day II-2 Right side Ch.: 0+062.0-0+057.0 8:20-) Fixing of rebar mesh. Ch.: 0+000-0+015.0 09:01-09:47) 2nd go of 1st layer shotcrete. (Qty=8m³ PS) CH:0+105.0-0+075.0 10:39-15:30) Second layer shotcrete SF Qty=24m³	Day II-2 Right side Ch.: 0+055.0-060.0 8:20-) Fixing of rebar mesh. Ch.: 0+075.0-060.0 09:00 - 12:30) Drilling for rock dowels  II-2 Left side Ch:0+070.0-0+75.0 8:20-) Fixing of rebar mesh. Ch.: 0+000 - 030

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**Appendix K [12/34]**

	20:10_Installation of rebar mesh Ch:0+31.75~0+46.75 21:20_22:15 Grouting for rock dowels Qty=5pces Grouted  Ch:0+0+170.0~+180.0 & 0+180.0~0+190.0 21:20_3:30 Drilling for PS tendon  Ch:0+90.0~	of rebar mesh II-2 Left No Activity	F.ch:0+241.0 II-2 Right Ch:0+0+097.0~0+92.0 20:00_) Installation of rebar mesh  II-2 Left No Activity	0+00.0 21:20~21:45) 1st layer shotcrete on face (PS Qty=3m³)  Ch.:0+00.0~0+025.0 21:45~) 1st layer shotcrete (PS Qty=11m³)  Ch.:0+110.0~0+92.0 20:00~) Rectification of rebar mesh  Ch.:0+100.0~0+165.0 01:30~) Excavation for side drain	F.ch:0+241.0 II-2 Right Ch:0+080.0~0+095.0 20:30_ Rectification of Rebar mesh  II-2 Left Ch:0+084.0~0+090.0 21:10_Installation of Rebar mesh	Ch: 0+075~0+055 16:00- ) Drilling for rock dowels.  II-2 Left side Ch:0+085.0~0+080.0 8:20~) Fixing of rebar mesh. Night F.ch:0+241.0 II-2 Right No activity  II-2 Left (2) Ch.:0+079.0~0+074.0 20:00~) Installation of 1st layer rebar mesh	13:30 -) Drilling for rock dowels Night F.ch:0+241.0 II-2 Right Ch.:0+53.0~0+48.0 20:00~) Installation of rebar mesh  II-2 Left (2) Ch.:0+00~0+15.5 ~0+40.5 22:12~22:50) Survey for rock dowels 23:20~) Drilling for rock dowels is in progress Ch.:0+079.0~0+110.0 20:00~) Rectification of 1st layer rebar mesh
Transformer Cavern Pilot Tunnel I-2	Day No Activity Night No Activity Face Chainage Ch.: 0+134~0+241	F. Ch:0+241.0~(D/S) Ch.: 0+000 (At Face) No Activity Night No Activity	Day F. Ch:0+241.0~(D/S) Ch.: 0+000 (At Face) No Activity Night F. Ch:0+241.0~(D/S) Ch.: 0+000 (At Face) No Activity	F. Ch:0+241.0~(D/S) Ch.: 0+000 (At Face) No Activity	Day F. Ch:0+241.0~(D/S) Night F. Ch:0+241.0~(D/S) Ch.: 0+000 (At Face) No Activity	F. Ch:0+241.0~(D/S) Ch.: 0+000 (At Face) No Activity	Day No Activity
Transformer Cavern Bench II-1	Day No Activity Design excavation has been completed	Day No Activity Design excavation has been completed	Day No Activity Design excavation has been completed	Day No Activity Design excavation has been completed	Day No Activity Design excavation has been completed	Day No Activity Design excavation has been completed	Day No Activity Design excavation has been completed
Transformer Cavern Pilot Tunnel I-1 & I-3	I 1 F.Ch.: 0+241 8:30-11:00) Predrilling for PS tendon. Location: P 38-2, P 38-3 I3 F.ch:0+241.0 No Activity	I1 F.Ch.: 0+241 8:30-) Drilling for PS tendon. Location: P 39-3, P 39-4, P37-5, P 37-6, 36-6, 36-5 night  F.ch:0+241.0 Ch.:0+195.0~0+205.0 20:00~) Drilling for PS tendon. Location:- P39-3,P39-4,P40-3,P40-4,P41-3,P41-4,P42-3,P42-4,P42-5, P42-6 Ch:0+180.0~21:20~) water pressure test for PS Tendons Location: P37-2 (Permeability=2.57) P37-3 (Permeability=0.44) P37-4 (Permeability=1.19) P37-5 (Permeability=3.36) P37-6 (Permeability=4.58) TC I 1 No Activity	I1 F.Ch.: 0+241 9:00-) Drilling for PS tendon is in progress Location: P 42-6, P 42-7, p 43-4, p47-7  9:40~13:10) Water pressure test for PS tendon. Location: P 35-2, P 35-3, p 34-2, p 34-3  Night No Activity TC I 3 F. Ch: 0+241.0 (D/S) No Activity	Day F.Ch.: 0+241 9:00-) Drilling for PS tendon is in progress Location: P 43-6, P 43-5 Night F.ch:0+241.0 Ch.:0+165.0~20:00~) Installation of support bars for PS tendons TC I 3 No Activity	I 1 Day F.Ch.: 0+241 No Activity Night F.ch:0+241.0 Ch:0+185.0~20:50_ Drilling for PS Tendon. Location:-(38-9  Ch:0+170.0~01:00~) Installation of support bars for PS tendons TC I 3 No Activity	TC I 1 F.Ch.: 0+241 08:30~) Drilling for PS tendon. Location: 39-7, 39-8, 39-9  TC-ET Junction: 14:15 -) Removal of fractured shotcrete. Geological mapping also conducted. Night F.ch:0+241.0 I-1,I-2 & II-2(R), Ch.:0+190.50~225.50 20:30~) Drilling for PS tendon. Location: P39-9,P46-4, P46-5, P44-5  I-1,I-2 & I-3 Ch.:0+075.0~0+225.0 20:00~) Drilling for missing rock dowels	TC I 1 Day F.Ch.: 0+241 Ch.:0+220.0~230.0 08:30~) Drilling for PS tendon. Location: 46-4, 45-5  TC-ET Junction: Fractured shotcrete not removed today due to breakdown of machine Night F.ch:0+241.0 I-1, I-2, II-2(left) Ch.:0+ 240.50 20:30~) Drilling for PS tendon is in progress Location: P48-3 P48-4 P49-3 I-1 & I-3 Ch.:0+205.0~20:00~) Installation of missing rock dowels TC I 3 No Activity
Powerhouse II 2 lift and right	Day II-2 RIGHT (1) Ch.: 0+170.0~165.0 14:00~) 2nd layer rebar installation Ch.: 0+110~0+080.0 15:00~16:05) 1st layer Shotcrete Qty =16m³	Day II-2 RIGHT(1) Ch.: 180.0~241.0 10:00~15:00) Survey for rock dowels 14:00~) Drilling for rock dowels Ch.: 0+160.0~0+155.0 8:10~) Installation of 1st layer rebar	Day II-2 RIGHT (1) Ch.: 0+150.0~0+145.0 8:00~) Installation of 1st layer rebar mesh Ch.:0+239.2~14:30~15:03) Grouting for rock dowels 01pcs done at Ch.:	Day II-2 RIGHT(1) Ch: 0+142.0~0+137.0 8:00~) Installation of 2nd layer rebar mesh Ch.:0+000~0+060.0 11:50 - 15:30) 1st layer Shotcrete SF Qty = 35m3	Day II-2 RIGHT(1) Ch: 0+142.0~0+137.0 8:00~) Installation of 1st layer rebar mesh Ch.: 0+184.0~0+163.0 14:40-15:35) Survey for rock dowels.	Day II-2 RIGHT (1) Ch: 0+137~0+131 8:00~) Installation of 1st layer rebar mesh  II-2 LEFT (2) Ch: 0+168~0+172 8:00~) Installation	Day II-2 Right side Ch.: 0+055.0~060.0 8:20~) Fixing of rebar mesh. Ch.: 0+075.0~060.0 09:00 - 12:30) Drilling for rock dowels II-2 Left side

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	<p>II-2 LEFT (2) No Activity Night II-2 RIGHT (1) Ch:0+164.0~0+170.0 20:10_Installation of 2nd layer Rebar mesh Ch:0+0+116.0~0+075.0 21:45_23:50 1st layer SF shotcrete Qty=13.5cum</p> <p>II-2 LEFT (2) Ch:0+199.0~0+205.0 20:40_Installation of 2nd layer Rebar mesh</p>	<p>mesh Ch: 0+100~0+060.0 9:14~12:30) Shotcrete 2nd pass of 1st layer (16m³ SF)</p> <p>II-2 LEFT (2) Ch: 0+199.0~0+194.0 8:10~) Installation of 2nd layer rebar mesh Night II-2 RIGHT(1) Ch:0+164.0~0+150.0 20:50_) Installation of 2nd layer Rebar mesh Ch:0+199.0~0+205.0 20:20~22:30) Drilling for rock dowels Ch:0+240.0~226.0 20:40~) Installation of rock dowels</p> <p>II-2 LEFT (2) Ch:0+187.0~0+192.0 20:50_) Installation of</p>	<p>0+239.2.</p> <p>II-2 LEFT (2) Ch: 0+187.0~0+182.0 8:10~) Installation of 2nd layer rebar mesh Night II-2 RIGHT(1) Ch:0+147.0~0+142.0 20:50_) Installation of 2nd layer Rebar mesh Ch.:0+060.0~22:30~) 1st layer shotcrete</p> <p>II-2 LEFT (2) Ch:0+165.0~0+225.0 20:00_1:30 ) Installation of rock dowels Ch:0+185.0~0+180.0 22:50~) Installation of 2nd layer Rebar mesh Ch:0+080.0~3:15_First layer SF shotcrete Qty=14cum &amp; in progress</p>	<p>II-2 LEFT (2) Ch: 0+180.0~0+175.0 8:10~) Installation of 2nd layer rebar mesh Ch.:0+000~0+030.0 15:35~) First layer shotcrete sf Qty=11m³ is in progress.. Night II-2 RIGHT(1) Ch:0+142.0~0+162.0 20:30_) Rectification of 1st layer Rebar mesh Ch.:0+181.0~0+194.0 20:00~00:30) Installation &amp; packing of rock dowels</p> <p>II-2 LEFT (2) 0+00.0~20:40~21:20) 1st layer shotcrete on face ( SF Qty=7m³) Ch:0+00.0~0+25.0 22:00~00:20) 1st layer shotcrete (SF Qty=21m³)</p>	<p>II-2 LEFT (2) Ch: 0+175.0~0+170.0 8:00~) Installation of 2nd layer rebar mesh Ch: 0+115~0+040.0 13:39-16:20) 2nd go of 1st layer shotcrete. (24m³ SF) Ch: 0+187.0~0+204.0 14:40~) Drilling for rock dowels Night II-2 RIGHT (1) Ch:0+166.0~0+182.0 21:20_23:40) Drilling for rock dowels</p> <p>Ch:0+136.0~0+142.0 21:15_ Rectification of first layer rebar mesh</p> <p>II-2 LEFT (2) Ch:0+169.0~0+174.0 20:10_Installation of 2nd layer Rebar mesh</p>	<p>of 2nd layer rebar mesh Night II-2 RIGHT(1) Ch.:0+131.0~0+126.0 20:00~) Installation of 2nd layer rebar mesh Ch.:0+163.0~0+170.0 23:00~00:30) Installation of rock dowels (Installed=8pcs)</p> <p>II-2 Left (2) Ch.:0+136.0~0+130.0 20:00~) Installation of 1st layer rebar mesh Ch.:0+158.0~0+164.0 20:00~) Installation of 2nd layer rebar mesh Ch.:0+209.30~0+239.20 01:15~04:20) Grouting for rock dowels (Grouted=21pcs)</p>	<p>Ch:0+070.0~0+75.0 8:20~) Fixing of rebar mesh. Ch: 0+000 - 030 13:30 ~) Drilling for rock dowels Night F.ch:0+241.0 II-2 Right Ch.:0+53.0~0+48.0 20:00~) Installation of rebar mesh II-2 Left (2) Ch.:0+00~0+15.5~0+40.5 22:12~22:50) Survey for rock dowels 23:20~) Drilling for rock dowels is in progress Ch.:0+079.0~0+110.0 20:00~) Rectification of 1st layer rebar mesh</p>
Powerhouse Cavern Pilot Tunnel (Left Crown portion) I-2	<p>Day F. Ch:0+241.0~ Approx No Activity Night F. Ch:0+241.0~ Approx No Activity</p>	<p>Day F. Ch:0+241.0~ (D/S) No Activity No Activity</p>	<p>Day F. Ch:0+241.0~ Approx No Activity Night F. Ch:0+241.0~ Approx No Activity</p>	<p>Day F. Ch:0+241.0~ Approx No Activity Night F. Ch:0+241.0~ Approx No Activity</p>	<p>Day F. Ch:0+241.0~ Approx No Activity Night F. Ch:0+241.0~ Approx No Activity</p>	<p>Day F. Ch:0+241.0~ Approx No Activity Night F. Ch:0+241.0~ Approx No Activity</p>	<p>Day F. Ch:0+241.0~ Approx No Activity Night F. Ch:0+241.0~ Approx No Activity</p>
Powerhouse II-1 Bench	<p>No Activity F.Ch:0+241.0(D/S) Night No Activity</p>	<p>Day F.Ch:0+241.0(D/S) No Activity Night No Activity</p>	<p>Day F.Ch:0+241.0(D/S) Ch:0+241.0~13:00~) Drilling for 8m rock dowels on face Night F Ch.:0+241 Ch:0+241.0~II-1 &amp; II-2(right) 20 :00_ Drilling for 8m rock dowels on face</p>	<p>Day F.Ch:0+241.0(D/S) 09:00~15:59) Assembling and installation of 08m rock dowels on face 31pcs Night F Ch.:0+241 Ch:0+241.0~II-1 &amp; II-2(right) 20 :00_) Drilling for 8m rock dowels on face</p>	<p>Day Assembling and installation of 08m rock dowels on face</p>	<p>Day F.Ch:0+241.0(D/S) 9:00-16:45 ) Grouting of rock dowels of 8m length.(35 Pcs grouted) Night F Ch.:0+241 23:50~01:05) Grouting of rock dowels of 8m length on face (Grouted=09pcs, 1pcs rejected due to leakage)</p>	<p>Day Assembling and installation of 08m rock dowels on face</p>
Powerhouse Cavern Pilot (Right Crown Portion) I-1 & I-3	<p>PH I 1 F.Ch:0+241.0(D/S) Ch:0+110~0+160.0 22:30_00:00 Extension of ventilation duct Night No Activity PH I 3 Day F.Ch:0+241.0~ Approx NO Activity Night No activity</p>	<p>Day PH I 1 Day F.Ch:0+241.0(D/S) No Activity Night Activity PH I 3 F. Ch:0+241.0~ Approx NO Activity Night F. Ch:0+241.0~ Approx NO Activity</p>	<p>I 3 Day F.Ch:0+241.0~ Approx NO Activity Night F. Ch:0+241.0~ Approx NO Activity PH I 1 FCh:0+241.0 (D/S) Ch.:0+221.95~0+226.55 08:51~11:20) Pressure grouting for PS tendon Location: PH 99-10, PH 98-10, Night F. Ch:0+241.0 (D/S) Ch:0+240.35 Pressure grouting</p>	<p>I 1 Day F.Ch:0+241.0(D/S) Ch.:228.85~14:30~16:05) Grouting for PS Tendon Night I 3 F. Ch:0+241.0~ approx. NO Activity PH I 1 No Activity</p>	<p>I 1 No Activity PH I 3 No Activity</p>	<p>Ph. I 3 No Activity PH I 1 F. Ch:0+241. (D/S) Ch.: 0+222~9:05- ) Installation of support pins for PS tendon. Night F. Ch:0+241.0(D/S) Ch:0+180.50 00:30~05:00) Installation of PS tendons Location: PH-79-9, PH-79-7(</p>	<p>I 3 No Activity I 1 Day F. Ch:0+241.0 (D/S) CH:0+241.0~09:00~13:30) Installation of rock dowels face plates. CH:0+212.75~Ch.: 0+005 - 015~10:34~) Installation of supporting bars for PS tendon. 9:05- 09:45) Installation of PS tendons without Assembly inspection. Only PH05-6 corrugated sheet installed. Night</p>

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			for PS tendon Location:-105-7,PH-103-8				Ch.: 0+241 I-1, I-3, II-2(Right) Ch:0+241.0~22:00~02:20) Water pressure test for PS tendons Location: PH103-12 (Permeability=1.268, Pressure=0.40Mpa~0.49Mpa) PH104-
01A Drain Tunnel Left Crown of PH I-2	Day F.ch:0+046.0(Approx.) Vertical Shaft No Activity  Night F.ch:0+046.0(Approx.) Vertical Shaft No Activity	Day F.ch:0+046.0(Approx.) Vertical Shaft Night F.ch:0+046.0(Approx.) Vertical Shaft No Activity	Day F.ch:0+046.0(Approx.) Vertical Shaft No Activity  Night F.ch:0+046.0(Approx.) Vertical Shaft No Activity	Day F.ch:0+046.0(Approx.) Vertical Shaft No Activity  Night F.ch:0+046.0(Approx.) Vertical Shaft No Activity	Day F.ch:0+046.0(Approx.) Vertical Shaft No Activity  Night F.ch:0+046.0(Approx.) Vertical Shaft No Activity	Day F.ch:0+046.0(Approx.) Vertical Shaft No Activity  Night F.ch:0+046.0(Approx.) Vertical Shaft No Activity	Day F.ch:0+046.0(Approx.) Vertical Shaft No Activity  Night F.ch:0+046.0(Approx.) Vertical Shaft No Activity
Service Tunnel A	Day F. Ch:0+567.5~ No Activity due to resource limitations  Night F. Ch:0+567.5~ No Activity due to resource limitations	Day Note: -Design Excavation (450 m) has been Completed. Night Note: -Design Excavation (450 m) has been Completed.	Day F. Ch:0+567.5~ No Activity due to resource limitations Night F. Ch:0+567.5~ No Activity due to resource limitations	Day F. Ch:0+567.5~ No Activity due to resource limitations Night F. Ch:0+567.5~ No Activity due to resource limitations	Day F. Ch:0+567.5~ No Activity due to resource limitations Night F. Ch:0+567.5~ No Activity due to resource limitations	Day F. Ch:0+567.5~ No Activity due to resource limitations Night F. Ch:0+567.5~ No Activity due to resource limitations	Day F. Ch:0+567.5~ No Activity due to resource limitations Night F. Ch:0+567.5~ No Activity due to resource limitations
Penstock Adit Tunnel towards Lower pressure Manifold area Tunnel No 1	Day PAT- 01 Design Excavation Completed Lower Pressure Tunnel 01 Ch.: 0+011 - 025 8:00- ) Invert mucking Manifold Ch.: 0+047~ No Activity. No lighting Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Manifold. Ch: 0+011 - 025 20:00_1:00 Invert mucking	Day PAT- 01 Design Excavation Completed Manifold 0+047 No Activity PAT 01 Plug 9:00-9:40) Invert cleaning 11:00 -12:00) Drilling for invert underbreaks blast without AFL. (07 holes) 12:55-13:30) Charging for blast (6 Kg) 13:45) blast carried out 14:30- Excavation and invert leveling Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Manifold. Ch: 0+011 - 025 No Activity	Day PAT- 01 Design Excavation Completed Manifold 0+047 No Activity PAT 01 Plug No Activity Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Manifold. Ch: 0+011 - 025 No Activity	Day PAT- 01 Design Excavation Completed Manifold 0+047 No Activity PAT 01 Plug No Activity Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Manifold. Ch: 0+011 - 025 No Activity	Day PAT- 01 Design Excavation Completed Manifold 0+047 No Activity due to unavailability of machinery and labors. PAT 01 Plug No Activity. Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Manifold. Ch: 0+011 - 025 No Activity	Day PAT- 01 Design Excavation Completed Manifold 0+047 No Activity due to unavailability of machinery and labors. PAT 01 Plug No Activity Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Manifold. Ch: 0+011 - 025 No Activity	Day PAT- 01 Design Excavation Completed Manifold 0+047 No Activity due to unavailability of machinery and labors. PAT 01 Plug No Activity Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Manifold. Ch: 0+011 - 025 No Activity
Penstock Adit Tunnel towards Lower pressure Tunnel No 2- manifold area	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 Ch: 0+014 - 025 8:00-) Installation of Reinforcement for bed concrete  PAT 2 Plug Area 09:30 - ) cleaning of invert  Night PAT- 02 Design Excavation Completed Lower Pressure	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 Ch: 0+014 - 025 08:00 - 12:30) Installation of 4m anchors in LPT - Plug invert concrete PAT 2 Plug Area 09:30 - ) cleaning of invert and fixing of formwork Night PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 Ch: 0+014.0~025.0 no activity PAT 2 Plug Area 09:30 - ) cleaning of invert and fixing of formwork Night PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold)	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 Ch: 0+014.0~025.0 no activity PAT 2 Plug Area 09:30~16:50) cleaning of invert and fixing of formwork 14:00~16:50) Arrangements for concrete placement Night PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards	No Activity PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 Ch: 0+014.0~025.0 no activity PAT 2 Plug Area 09:00~) cleaning of invert 8:00~) Arrangements for concrete placement  Night PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 Ch: 0+014.0~025.0 no activity PAT 2 Plug Area 8:00~15:30) Survey for formwork orientation and position Night PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 Ch: 0+014.0~025.0 no activity PAT 2 Plug Area 8:30~15:30) Fixing of concrete pipes for plug area on both left and right side  Night PAT- 02 Design Excavation Completed Lower Pressure

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	Tunnel 02 (towards manifold. Lower Pressure Tunnel 02 Ch: 0+014 - 025 19:30_Installation of Reinforcement for bed concrete	manifold. Lower Pressure Tunnel 02 PAT 2 Plug Area Ch: 0+014 - 025 20:00~03:30) Installation of 4m anchors in LPT - Plug invert concrete	PAT 2 Plug Area 20:00~) cleaning of invert and fixing of formwork	Completed Lower Pressure Tunnel 02 (towards manifold) PAT 2 Plug Area 20:00~) Installation of scaffolding & form working	manifold) PAT 2 Plug Area 20:30_) Arrangements for concrete placement	(towards manifold) PAT 2 Plug Area No activity	Tunnel 02 (towards manifold) PAT 2 Plug Area No activity
Connection Tunnel to Powerhouse From STA	Day F. Ch:0+076 No activity due to resources limitation and shortage of manpower  Night F. Ch:0+076 No activity due to resources limitation and shortage of manpower	Day F. Ch:0+076 R/w CH:0+036 Preparation for load testing  Night F. Ch:0+076 No activity due to resources limitation and shortage of manpower	Day F. Ch:0+076 No activity due to resources limitation and shortage of manpower  Night F. Ch:0+076 No activity due to resources limitation and shortage of manpower	Day F. Ch:0+076 No activity due to resources limitation and shortage of manpower  Night F. Ch:0+076 No activity due to resources limitation and shortage of manpower	Day F. Ch:0+076 No activity due to resources limitation and shortage of manpower  Night F. Ch:0+076 No activity due to resources limitation and shortage of manpower	Day F. Ch:0+076 No activity due to resources limitation and shortage of manpower  Night F. Ch:0+076 No activity due to resources limitation and shortage of manpower	Day F. Ch:0+076 No activity due to resources limitation and shortage of manpower  Night F. Ch:0+076 No activity due to resources limitation and shortage of manpower
STB from Powerhouse Connection Tunnel	Day Ch.:0+110 No Activity >Contractor is notified to spray the required shotcrete on the previous blasted round Night F.Ch.:0+110 No activity	Day Ch.:0+110 No Activity Night F. Ch:0+112 Ch:0+110.0~0+112.0 23:00~23:30) 1st layer shotcrete ( SF Qty=3m³) 02:10~02:40) Survey for blast 03:15~) Drilling for blast	Day No Activity Night F. Ch:0+112 00:40~)Drilling for blast is in progress	Day Ch.:0+112.0~11:25-12:05) Charging for blast (Exp=60 kg) 13:00) Blast carried out 14:30~16:45) Mucking & scaling Night F. Ch:0+114.0(Approx) 21:00~02:00) Mucking & scaling	Day No Activity Due to Ventilation Duct	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 Ch: 0+014.0~025.0 no activity PAT 2 Plug Area 8::00~15:30) Survey for formwork orientation and position Night PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) PAT 2 Plug Area No activity	Day Ch.:0+114.0 approx.~ no activity Night F. Ch:0+114.0(Approx) NO Activity
Surge Chamber Vault Access Tunnel	Day Towards Right side Chamber #02 Ch.:0+25 No activity Towards left side Chamber #01 Ch.: 0+064 No activity Night Junction Enlargement area Towards left side Chamber #01 F.Ch: 0+064 No activity Towards Right side Chamber #02 Ch:0+25 No activity	Day Towards Right side Chamber #02 Ch.:0+25 No activity Towards left side Chamber #01 Ch.: 0+064 No activity Night Junction Enlargement area Towards left side Chamber #01 F.Ch: 0+064 No activity Towards Right side Chamber #02 Ch:0+25 No activity	Day Towards Right side Chamber #02 Ch.:0+25 No activity Towards left side Chamber #01 Ch.: 0+064 No activity Night Junction Enlargement area Towards left side Chamber #01 F.Ch: 0+064 Ch:0+00.0~0+064.0 22:25_00:30) Remedial PS shotcrete (Qty=14m³)  Towards Right side Chamber #02 F.Ch:0+25 Ch:0+00.0~0+015.0 01:35~02:15) Remedial PS shotcrete ( Qty=5m³)	Day Towards Right side Chamber #02 Ch.:0+25 No activity Towards left side Chamber #01 Ch.: 0+064 No activity Night Junction Enlargement area Towards left side Chamber #01 F.Ch: 0+064 Ch:0+00.0~0+015.0 22:25_00:30) Remedial PS shotcrete (Qty=14m³)  Towards Right side Chamber #02 F.Ch:0+25 Ch:0+00.0~0+015.0 01:35~02:15) Remedial PS shotcrete ( Qty=5m³)	Day Towards Right side Chamber #02 Ch.:0+25 No activity Towards left side Chamber #01 F. Ch.: 0+064 Ch.:0+010.0~0+050.0 8:30~15:30) Drilling for the thickness test holes. Contractor is notified to keep the position of the thickness test holes as per survey on the weep hole location. Night Junction Enlargement area Towards left side Chamber #01 F.Ch: 0+067.0  Towards Right side Chamber #02 F.Ch: 0+064.5 20:20_20:40 Survey for blast 21:00_00:00) Drilling for blast 00:10~02:20) Charging for blast 02:31~) Blast carried out without AFI	Day Towards Right side Chamber #02 Ch.:0+25 No activity Towards left side Chamber #01 F. Ch.: 0+067 (Approx) 14:45 - 15:20) Charging for additional blast (4.8 KG) 15:28 ~) Blast carried out Night Junction Enlargement area Towards left side Chamber #01 F.Ch: 0+067.0  Towards Right side Chamber #02 F.Ch:0+25 No Activity	Day Towards Right side Chamber #02 Ch.:0+25 Towards left side Chamber #01 Ch.:0+50 Approx 08:30~) Mucking Night Junction Enlargement area Towards left side Chamber #01 F.Ch: 0+067.0  Towards Right side Chamber #02 F.Ch:0+25 No Activity



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					F.Ch:0+25 No Activity		
Existing shaft tunnel from I1 drain tunnel	Day Vertical Existing shaft No Activity  Night Vertical Existing shaft No Activity	Day Vertical Existing shaft No Activity Night Vertical Existing shaft No Activity	Vertical shaft no activity  Note: > Contractor start drilling for vertical shaft from drain tunnel to exhaust tunnel Without approved AFI.	Day Vertical Existing shaft No Activity  Night Vertical Existing shaft No Activity	Day Vertical Existing shaft No Activity  Night Vertical Existing shaft No Activity	Day Vertical Existing shaft No Activity  Night Vertical Existing shaft No Activity	Day Vertical Existing shaft No Activity  Night Vertical Existing shaft No Activity
Drain tunnel	Day F.Ch. 0+949.5 Design excavation is complete Night F. Ch949.5 Design excavation is complete No activity	Day F.Ch. 0+949.5 Design excavation is complete	Day F.Ch. 0+949.5 Design excavation is complete  Night F.Ch. 0+949.5 Design excavation is complete	Day F.Ch. 0+949.5.0 Design excavation is complete No Activity  Night F.Ch. 0+949.5.0 Design excavation is complete No Activity	Day Ch. 0+ 280-250 Night  F.Ch. 0+949.5 Design excavation is complete	Day F. Ch949.5 Design excavation is complete No activity  Night F. Ch949.5 Design excavation is complete No activity	Day F. Ch949.5 Design excavation is complete No activity  Night F. Ch949.5 Design excavation is complete No activity
CR-05-01 Access Road/Intake Area & LU-1	Intake Area El: 993.0~0+990.0 8:30~17:00) Excavation and mucking LU!  Ch: 0+80~0+50 8:00~17:00) Installation of wire mesh 3pcs	Intake area El: 993.0~0+990.0 8:30~17:00) Excavation and mucking LU 1  Ch: 0+100~0+80 8:00~17:00) Installation of wire mesh 3pcs	LU 1 Ch: 0+80~0+70 10:00~17:00) Installation of wire mesh 2pcs Intake Area El: 993.0~0+990.0 8:30~17:00) Excavation and mucking	Intake Area El: 993.0~0+990.0 8:00~) Excavation and mucking LU 1  Ch: 0+70~8:00~15:00) Installation of wire mesh 3pcs in progress.	Intake Area El:993.0~0+990.0 8:00~17:00) Excavation and mucking Lu !  Ch: 0+060~0+050 8:00~17:00) Installation of wire mesh (2 pcs)	Intake El:993.0~0+990.0 8:00~17:00 ) Excavation and mucking 9:00~17:00) Drilling for boulder blast 27holes. LU 1 Ch: 0+80~0+60 8:00~17:00) Installation of wire mesh 4pcs	Intake El:993.0~0+990.0 8:00~17:00 ) Excavation and mucking 8:00~17:00) Drilling for boulder blast Lu 1 Ch: 0+60~0+70 8:00~17:00) Installation of wire mesh 4pcs
CT-2 Adit Tunnel	Day F.Ch.: 0+259.0 Approx. 7:00~8:20) Charging for blast Exp=225kg 8:32~11:10) Mucking and scaling Ch:0+254~0+255 11:40~13:30) Grouting for rock dowels 18pcs Ch:0+160~0+185 14:30~15:45) Pull out test has been done. Elongation: (8.39mm) Night F.Ch: 0+259 21:15_Drilling for Blast & rock dowels is in progress  Ch:0+256.0~0+257.0 Drilling for rock dowels	Day F.Ch.: 0+261.0 Approx. 7:00~10:15) Mucking and scaling 12:45~13:00) Geological mapping Q=2.08 13:25~13:50) 1st layer shotcrete Qty=5m³ 14:00~14:30) Survey for blast Ch:0+255~0+257 10:45~12:15) Grouting for rock dowels 18pcs Ch:0+160~0+185 15:00~15:30) Pull out test has been done. Elongation: (4.45mm) Night F.Ch: 0+261.0 20:55~02:50) Drilling for Blast Ch.:0+258.0~0+260.0 03:00~) Drilling for rock dowels is in progress Ch: 0+230.0~19:30~20:50) Drilling for niche blast	Day F.Ch.: 0+263.0 Approx. 7:00~8:25)Charging for face blast Exp=225kg 7:00~8:25) Charging for niche area Exp=117kg 8:32) Niche Blast is carried out 8:35)Face blast is carried out 8:50~ Mucking and scaling Ch:0+258~0+260 14:50~16:15) Grouting for rock dowels 27pcs  Night F.Ch: 0+263.0 20:00~20:50) 1st layer shotcrete (PS Qty=3m³) 23:00~23:45) Survey for blast 23:55~) Drilling for blast is in progress  ch.:0+253.0~0+256.0 20:50~21:40) 2nd layer shotcrete (PS Qty=4m³)	Day F.Ch.: 0+263.0 Approx. 7:00~11:00) Drilling for blast and rock dowels 11:30~14:00)Charging for blast Exp=225kg 14:10) Blast is carried out 14:30~ Mucking in progress.. Night F.Ch: 0+266.7 21:40~22:50) 1st layer shotcrete (PS Qty=4m³) 23:00~23:20) Geological mapping (Qv=2.08) 23:30~00:30 ) Survey for blast  Ch.:0+261.0~0+263.0 19:00~21:00) Grouting for rock dowels(Grouted=27pcs)	Day F.Ch.: 0+266 Approx. 7:00~15:20 ) Drilling for blast and rock dowels 15:50- ) Charging for blast (Exp=225 kg)  Night F.Ch: 0+269.5 19:00~22:50) Mucking & scaling 01:05~01:30) Geological mapping (Qv=2.08) 01:40~02:20) 1st layer shotcrete (PS Qty=3m³) 03:00~03:40)Survey for blast  Ch.:0+264.0~0+266.0 22:40~01:00) Grouting for rock dowels(Grouted=27pcs)  Ch.:0+256.0~0+258.0 02:20~02:50) 2nd layer shotcrete (PS Qty=2m³)	Day F.Ch.: 0+269.5 Night~12:30) Drilling for blast and rock dowels 13:15~14:40) Charging for blast Exp=225kg 14:50) Blast is carried out 15:15~ Mucking in progress  Night F.Ch: 0+271.7 20:50~21:10) Geological Mapping (Qv=1.83) 21:20~22:00) 1st layer shotcrete (PS Qty=4m³) 00:10~00:50) Survey for blast 01:00~) Drilling for blast with leg drill  Ch.:0+267.0~0+268.0 19:00~20:50) Grouting for rock dowels (Grouted=18pcs)	Day F.Ch.: 0+271.7 (approx.) Night~11:40) Drilling for blast 11:50~13:00) Charging for blast Exp=223 kg 13:10) Blast is carried out 13:30~15:50) Mucking in progress 16:00 - 16:25) Mapping Qv = 1.87 Night F.Ch: 0+275.0 Ch.:0+269.0~274.0 22:00~22:50) Survey for rock dowels 23:00~) Drilling for rock dowels is in progress
Switchyard Day work	No Activity	No Activity	No Activity	No Activity	No Activity	No Activity	Day work order No Activity No Activity
Switchyard Compound	Day F.Ch.: 0+259.0 Approx. 7:00~8:20) Charging for blast Exp=225kg 8:32~11:10) Mucking and scaling	Day EL▼ 964~960 (5th layer Left side center portion) 9:45~ 11:00)Curing  EL▼ 963~960 (5th layer center portion) 9:00~11:30)Scaling	Day EL▼ 964~960 (5th layer Left side center portion 8:00~14:30)Exca vation and levelling by jack hammer	EL▼ 970~960 (5th layer Left side center portion 8:00~15:00)Install ation of wire mesh 8:00~10:00) Excavation for drainage by jack hammer 11:10~15:20)	Day EL▼ 970~960 (5th layer Left side center portion 10:45~16:00) Shotcrete second layer (20m³ PS) 08:00~10:00) Curing 14:00~17:00) Installation of wire	Day EL▼ 970~959 (5th layer right side) 8:00~16:00) Mucking and excavation EL▼ 970~960 (5th layer Left side)	Day  EL▼ 970~959 (5th layer right side)  EL▼ 970~960 (5th layer Left side) 8:00~17:00) Installation of wire mesh

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	Ch:0+254-0+255 11:40-13:30) Grouting for rock dowels 18pcs Ch:0+160-0+185 14:30-15:45) Pull out test has been done. Elongation: (8.39mm) Night F.Ch.: 0+259.0 Approx. 7:00-8:20) Charging for blast Exp=225kg 8:32-11:10) Mucking and scaling Ch:0+254-0+255 11:40-13:30) Grouting for rock dowels 18pcs Ch:0+160-0+185 14:30-15:45) Pull out test has been done. Elongation: (8.39mm)	by jack hammer EL▼ 963-959 (5th layer Right side center portion) 8:00-17:00) Installation of wire mesh 10:40-15:00) Shotcrete 2nd layer PS (qty=15m³) EL▼ 920 14:30-17:00) Excavation and mucking	EL▼ 963-960 (5th layer center portion) EL▼ 963-959 (5th layer Right side center portion) 8:00-17:00) Installation of wire mesh 8:30-17:00) Curing  EL▼ 920 8:00-17:00) Excavation and mucking	Shotcrete 1st layer PS 15m³ EL▼ 960-9:57(4th layer left side) 14:00- Excavation for 4th layer EL▼ 920 10:30- ) Excavation and mucking	mesh. (Left side)  EL▼ 960-9:57(4th layer left side) 8:00- Excavation for 4th layer EL▼ 920.0 8:00- ) Excavation and mucking	8:00-16:30) Installation of wire mesh EL▼ 970-960 (5th layer center portion) 8:30-12:00) Curing  EL▼ 960-9:57(4th layer left side) EL▼ 920.0 Night No Activity	10:15-14:45) Shotcrete second layer PS Qty=20m³ EL▼ 920.0 15:30-17:00) Mucking
Date/Day Location	8 Thursday	9 Friday	10 Saturday	11 Sunday	12 Monday	13 Tuesday	14 Wednesday
Main Access Tunnel	DAY F. Ch: 0+963 Design Excavation is completed. But support work is remaining.  NIGHT F. Ch: 0+963 Design Excavation is completed. But support work is remaining.	DAY F. Ch: 0+963 Design Excavation is completed. But support work is remaining.  NIGHT F. Ch.: 0+963 Design Excavation is completed. But support work is remaining.	DAY F. Ch: 0+963 Design Excavation is completed. But support work is remaining.  NIGHT F. Ch.: 0+963 Design Excavation is completed. But support work is remaining.	DAY F. Ch: 0+963 Design Excavation is completed. But support work is remaining.  NIGHT HT F. Ch: 0+963 Design Excavation is completed. But support work is remaining.	DAY F. Ch: 0+963 Design Excavation is completed. But support work is remaining.  NIGHT F. Ch: 0+963 Design Excavation is completed. But support work is remaining.	DAY F. Ch: 0+963 Design Excavation is completed. But support work is remaining.  NIGHT F. Ch: 0+963 Design Excavation is completed. But support work is remaining.	DAY F. Ch: 0+963 Design Excavation is completed. But support work is remaining.  NIGHT F. Ch: 0+963 Design Excavation is completed. But support work is remaining.
Draft Tunnel Towards Tailrace Tunnel No 2	Ch: K0+053.5 (Approx.) (No activity)	Ch: K0+053.5 (Approx.) (No activity)	Ch: K0+053.5 (Approx.) (No activity)	Ch: K0+053.5 (Approx.) (No activity)	Ch: K0+053.5 (Approx.) (No activity)	Ch: K0+053.5 (Approx.) (No activity)	Ch: K0+053.5 (Approx.) (No activity)
Draft Tunnel Towards Tailrace Tunnel No 1	F ch:0+057.0 No activity	F ch:0+057.0 No activity	F ch:0+057.0 No activity	F ch:0+057.0 No activity	F ch:0+057.0 No activity	F ch:0+057.0 No activity	F ch:0+057.0 No activity
Exhaust Tunnel	F. Ch:0+193 The Total tunnel length of excavation 215m has been completed while excavation of drop shaft to be commenced. Verification by inspection of support work still to be done. No Activity observed so far.	F. Ch:0+193 The Total tunnel length of excavation 215m has been completed while excavation of drop shaft to be commenced. Verification by inspection of support work still to be done. No Activity observed so far.	F. Ch:0+193 The Total tunnel length of excavation 215m has been completed while excavation of drop shaft to be commenced. Verification by inspection of support work still to be done. No Activity observed so far.	F. Ch:0+193 The Total tunnel length of excavation 215m has been completed while excavation of drop shaft to be commenced. Verification by inspection of support work still to be done. No Activity observed so far.	F. Ch:0+193 The Total tunnel length of excavation 215m has been completed while excavation of drop shaft to be commenced. Verification by inspection of support work still to be done. No Activity observed so far.	F. Ch:0+193 The Total tunnel length of excavation 215m has been completed while excavation of drop shaft to be commenced. Verification by inspection of support work still to be done. No Activity observed so far.	F. Ch:0+193 The Total tunnel length of excavation 215m has been completed while excavation of drop shaft to be commenced. Verification by inspection of support work still to be done. No Activity observed so far.
Service Tunnel C	Note: -Design Excavation (450 m) has been Completed. No Activity regarding to Support work.	Note: -Design Excavation (450 m) has been Completed. No Activity regarding to Support work.	Note: -Design Excavation (450 m) has been Completed. No Activity regarding to Support work.	Note: -Design Excavation (450 m) has been Completed. No Activity regarding to Support work.	Note: -Design Excavation (450 m) has been Completed. No Activity regarding to Support work.	Note: -Design Excavation (450 m) has been Completed. No Activity regarding to Support work.	Note: -Design Excavation (450 m) has been Completed. No Activity regarding to Support work.
Transformer Cavern I-2	Day F.Ch:0+241.0- (D/S) Night F.Ch:0+241.0- (D/S)	F.Ch:0+241.0- (D/S) Ch.: 0+000 (At Face) No Activity	Day No Activity	Day F.Ch:0+241.0- (D/S) Ch.: 0+000 (At Face) No Activity	F.Ch:0+241.0- (D/S) Ch.: 0+000 (At Face) No Activity	F.Ch:0+241.0- (D/S) Ch.: 0+000 (At Face) No Activity	Day F.Ch:0+241.0- (D/S) Ch.: 0+000 (At Face)

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	Ch.: 0+000 (At Face) No Activity						Face) No Activity
Transformer Cavern Bench II-1	Day F.ch:0+241.0 8:00-11:30) Removal of under break by jack hammer and levelling of invert Ch.:0+00-0+10 10:00- Drilling for bench blast (left side Ramp) No	Day No Activity	Day TC:II 1 No Activity	Day No Activity	F.ch:0+241.0 1, 2, 3 Ch.:0+241 00:30-02:30) Removing of under break by jack hammer Note: Ventilation and lighting problem in TC.	Day No activity Night Ch. 0+241.0 II-1, II-2((Right) 20:00-00:50) Drilling for 6m rock dowels on face	F.ch:0+241.0 1, 2, 3 Ch.:0+241 00:30-02:30) Removing of under break by jack hammer Note: Ventilation and lighting problem in TC.
TC II-2(1) +TCII-2(2) (Left and Right)	Day II-2 Right side Ch.: 0+043.0-047.0 9:40-11:30) Fixing of rebar mesh.  II-2 Left side Ch:0+070.0-0+65.0 5.0 9:30-11:30) Fixing of rebar mesh. Ch.: 0+000 - 040.0 09:30-) Drilling for rock dowels  Night F.ch:0+241.0 II-2 Right Ch.:0+045.0-0+040.0 21:00-) Fixing for rebar mesh  Ch.:0+066.70-0+071.25 00:45-03:00) Installation & packing of rock dowels (Installed=29pcs )  II-2 Left side Ch.:0+40.5-0+34.25 23:00-00:30) Installation & packing of rock dowels (Installed=16pcs Ch.:0+113.50-0+80.0 21:00- ) Drilling for rock dowels	Day II-2 Right side Ch.: 0+040-0+035 8:30-) Fixing of rebar mesh.  II-2 Left side Ch:0+070.0-0+65.0 8:30- ) Fixing of rebar mesh. Ch: 0+240-13:45- ) Drilling for rock dowels. Ch.: 0+001.25 - 041.25 11:00-14:40) Installation of rock dowels (50 pcs, Only top two rows installed) Night F.ch:0+241.0 II-2 Right Ch.:0+036.0-0+030.0 20:30-) Fixing of rebar mesh Ch.:0+120.0-0+210.0 20:00-00:30) Excavation for side drain with jack hammer  II-2 Left side Ch.:0+113.50-0+80.0 20:00- ) Installation & packing of rock dowels (71pcs) Ch.:0+230.0-0+200.0 20:30-) Drilling for rock dowels.	Day II-2 Right side Ch.: 0+019 - 024 08:00-) installation of rebar mesh  II-2 Left side Ch:0+060.0-0+65.0 5.0 8:30-) Fixing of rebar mesh. Ch: 0+185 - 205 09:00-) Drilling for rock dowels. Ch.: 0+100 - 150 09:30-) Survey for rock dowels Ch.: 0+000-030.0 08:30-11:30) Assembling of rock dowels Ch: 0+000.5-0+030.0 12:30-15:30) Installation of rock dowels Night F.ch:0+241.0 II-2 Right Ch.:0+25.0-0+15.0 20:30-) Rectification of rebar mesh  II-2 Left side Ch.:0+114.50 22:10-) Invert drilling of 17.5m Ch.:0+030.0 20:00-02:00) Assembling of rock dowels	Day II-2 Right side Ch.: 0+015.0-0+010.0 08:40-) installation of rebar mesh  II-2 Left side Ch:0+060.0-0+055.0 5.0 8:40-) Fixing of rebar mesh. Ch: 0+130.0-0+140.0 09:00-) Drilling for rock dowels. Ch: 0+000.5-0+130.5 0 08:30-16:00) Installation & packing of rock dowels (55 pcs) Night F.ch:0+241.0 II-2 Right Ch.:0+15.0-0+10.0 20:00-)Fixing of rebar mesh Ch.:0+216.75-0+240.50 22:40-23:50) Survey for rock dowels Ch.:0+214.0-21:00-) Drilling for rock dowels	Day II-2 Right side Ch.: 0+015.0-0+010.0 08:40-15:30) installation of rebar mesh  Ch.:0+240.0-0+230.0 0 12:30-) Drilling for rock dowels is in progress  II-2 Left side Ch:0+055.0-0+60.0 8:40-15:30) Fixing of rebar mesh. Ch.: 0+115.0-0+135.0 09:40-15:39) Installation and packing of rock dowels. (61 pcs) Night F.ch:0+241.0 II-2 Right Ch.:0+08.0-0+02.0 20:00-) Fixing of rebar mesh Ch.:0+170.0-0+100.0 21:00-02:00) Excavation for side drain by jack hammer  II-02(Left) Ch.:0+53.0-0+45.0 20:00-) Fixing of rebar mesh. Ch.:0+130.0-0+135.0-180-0+210.0 21:00-02:00) Installation & packing of rock dowels (51pcs)	Day II-2 Right side Ch.:0+240.0-0+235.0 9:00-11:30) Drilling for rock dowels  II-2 Left side Ch:0+040-0+045.0 0 8:00- ) Fixing of rebar mesh. Ch.: 0+183-0+140.0 14:20- ) Drilling for rock dowels Ch: 0+070-0+050.0 9:35-) Drilling for rock dowels 9:00-12:00) Assembling of rock dowels Ch.: 0+184-0+220.0 12:30-16:25 ) Installation and packing of rock dowels. (61 Pcs) Night F.ch:0+241.0 II-2 Right Ch.:0+235.0-0+241.0 01:00-02:45) Drilling for rock dowels  II-02(Left) Ch.:0+04.0-0+08.0 20:00-) Fixing of rebar mesh.	Day II-2 Right side Ch.:0+000 (At Face US) 9:00-16:00) Fixing of wire mesh (6pcs)  II-2 Left side Ch:0+035-0+030 8:00-15:30 ) Fixing of rebar mesh. Ch.: 0+055-0+040 14:20- ) Drilling for rock dowels (47 holes) Ch:0+010-0+015 8:00- 15:00) Fixing of rebar mesh. Night F.ch:0+241.0 II-2 Right Ch.:0+214.0-0+182.0 21:40-22:20)Surv ey for blast 22:40-) Drilling for rock dowels  II-02(Left) Ch.:0+015.0-0+20.0 20:00-) Fixing of rebar mesh. Ch.:0+025.0-0+30.0 20:00-) Fixing of rebar mesh. Ch.:0+030.0-0+070.0 20:00-21:30) Drilling for rock dowels
Transformer Cavern Pilot Tunnel I-1 & I-3	TC I 1 Day F.Ch.: 0+241.0-0+225.5 09:00-17:00) Drilling for PS tendon. Location: p49-5, p46-3, p45-3 Night F.ch:0+241.0 I-1,I-2, II-2(Right) 21:30-) Drilling for PS tendon. Location: > P40-9 > P40-8  I-1, I-3 Ch.:0+112.0-20:30-22:30) Installation of missing rock dowels	TC I 1 F.Ch.: 0+241.0-08:00-11:00 ) Drilling for PS tendon. Location: P40-7  TC-ET Junction: 8:40-10:45) Removal of cracks by jack hammer 16:30- Shotcrete on cracks area. (PS Qty= 6 m³)  Night F.ch:0+241.0 I-1,I-2, Ch.:0+15.0-0+25.0 02:10-02:40) Removal of cracks by jack hammer TC I 3 No Activity	Day TC I 1 Day F.Ch.: 0+241.0-0 No Activity Night F.ch:0+241.0 I-1,I-2, Ch.:0+15.0-0+25.0 02:10-02:40) Removal of cracks by jack hammer TC I 3 No Activity	Day Tc I 1 Day No Activity Night F.ch:0+241.0 I-1,I-2, Ch.:0+15.0-0+25.0 02:10-02:40) Removal of cracks by jack hammer TC I 3 No Activity	Day Tc I 1 F.Ch.: 0+241.0-0 No Activity Night F.ch:0+241.0 I-1,I-2, II-2( Left) Ch.:0+150.50-155.5 0 20:30-) Drilling for PS tendons Location: P31-2, P32-2  +	T C I 3 No Activity TC I 1 Day F.Ch.: 0+241.0-0+90.5-09:00-) Drilling for PS tendons Location: P19-3 P19-4 P19-4 design Night F.ch:0+241.0 TC-ET Junction: 20:00-) Installation of wire mesh  I-1,I-2, II-2( Left) Ch.:0+80.5-0+85.5 20:30-) Drilling for PS tendons Location:	I 3 No Activity TC I 1 Day F.Ch.: 0+241.0-8:00- ) Drilling for PS tendon. Location: P19-3, P19-4, P16-4, P16-3  Ch.: 0+185-0+105 9:00- ) Installation of convergence point  Night F.ch:0+241.0 TC-ET Junction: 20:00-) Installation of wire mesh  I-1,I-2, II-2( Left) Ch.:0+80.5-0+85.5

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	(Installed= 5pcs) TC I 3					P18-3 P18-4	
PH II-2(1)+Ph II-2(2) (Left and Right)	Day II-2 RIGHT(1) Ch: 0+122.0~0+117.0 8:30~11:30) Installation of 1st layer rebar mesh Ch.: 0+207.0~0+197.8 09:00~11:30) Grouting for rock dowels (10 pcs grouted.) Used cement =350KG)  II-2 LEFT(1) Ch.:0+147.0~0+ 142.0 09:00~11:30) Installation of 2nd layer rebar mesh Ch.:0+128.0~0+ 122.0 10:00~11:30) Installation of 1st layer rebar mesh CH:0+241.0~0+ 030.0 10:00~15:50) Excavation & mucking by site drainage. Night II-2 RIGHT(1) Ch.:0+118.0~0+ 113.0 20:00~) Installation of 1st layer rebar mesh  II-2 Left(2) Ch.:0+130.0~0+ 135.0 23:00~) Installation of 1st layer rebar mesh  Ch.:0+137.0~0+ 146.0 20:00~) Installation of 2nd layer rebar mesh	Day II-2 RIGHT(1) Ch: 0+113~0+108 8:30~) Installation of 1st layer rebar mesh Ch: 0+162~0+147 10:15~11:00) Shotcrete 2nd layer (8m³ SF)  II-2 LEFT(1) Ch.:0+142~0+136 09:00~12:00) Installation of 2nd layer rebar mesh Ch: 0+158~0+136 13:30- Drilling for rock dowels  Night II-2 RIGHT(1) Ch.:0+108.0~0+10 3.0 20:00~) Installation of 1st layer rebar mesh  II-2 Left(2) Ch.:0+125.0~0+12 0.0 23:00~) Installation of 1st layer rebar mesh	Day II-2 RIGHT(1) Ch.:0+103.0~0+0 98.0 08:00~15:40) Installation of 1st layer rebar mesh Ch: 0+147.0~118.0 09:15 ~ 11:30) Shotcrete 2nd layer Qty = 24m³ CH:0+000~0+050 .0 15:20~) Excavation of side drain II-2 LEFT(1) Ch.:0+103.0- 098.0 0+110~115.0 09:00~15:40) Installation of 1st layer rebar mesh Ch: 0+110~000 09:15~16:20) Excavation of side drain  Night II-2 RIGHT(1) Ch.:0+163.0~0+ 115.0 20:50~21:40) Survey for rock dowels 23:20~) Drilling for rock dowels is in progress  Ch.:0+98.0~0+93 .0 20:00~) Installation of 1st layer rebar mesh  II-2 Left(2) Ch: 0+00.0~ 20:30~22:30) Excavation of side drain  Ch.:0+98.0~0+94 .0 02:30~) Installation of 1st layer rebar mesh  Ch.:0+136.0~0+ 114.0 20:00~03:00) Installation of 1st layer rebar mesh	Day II-2 RIGHT(1) Ch.:093.0~0+088. 0 09:00~) Installation of 1st layer rebar mesh CH:0+241.0~ 09:00~) Installation of rock dowels face plates II-2 LEFT(1) Ch.:0+94.0- 090.0 0+110~103.0 08:20~) Installation of 1st layer rebar mesh CH:0+136.0~0+11 2.0 09:35~11:17) Second layer shotcrete PS Qty=19m³ Ch:0+000~0+010 09:00~) Excavation of side drain  Night II-2 RIGHT(1) Ch.:0+88.0~0+12 2.0 20:00~) Rectification of 1st layer rebar mesh Ch.:0+138.0~0+1 63.0 20:30~) Drilling for rock dowels  Ch:0+197.80~0+1 88.60 21:20~23:10) Grouting for rock dowels (Grouted=07pcs) Note: Grouting suspended due to grout machine break down.  Ch.:0+230.0~0+2 05.0 20:00~) Rectification of 2st layer rebar mesh 22:00~) Rectifying of rock dowel plates with mortar II-2 LEFT(2) Ch:0+000~0+010 20:30~21:45) Excavation of side drain Ch.:0+93.0~0+11 4.0 00:50~) Rectification of 1st layer rebar mesh Ch.:0+116.0~0+1 38.0 00:30~01:15)	Day II-2 RIGHT(1) Ch:0+161.0~0+156.0 08:20~15:55) Installation of 2nd layer rebar mesh  Ch.: 0+241~0+205 11:40~14:07) Shotcrete 3rd layer (Qty=24m³ PS) Ch: 0+114.0~0+088.0 15:10~16:14 ) Shotcrete 2nd layer (Qty=16m³ PS)  II-2 LEFT(1) Ch.: 093.0~0+089.0 08:20~15:55) Installation of 1st layer rebar mesh Ch.:0+136.0~0+114. 0 08:25~16:10) Drilling for 06m rock dowels Night II-2 RIGHT(1) Ch.:0+115.0~0+092. 0 21:35~22:15) Survey for rock dowels 01:45~03:00) Drilling for rock dowels  Ch.:0+152.0~0+158. 0 20:00~) Fixing of 2nd layer rebar mesh  Ch.:0+186.30 03:10~04:30) Grouting for rock dowels (3pcs)  II-2 LEFT(2) 0+20.0~0+180.0 00:30~02:50) Invert cleaning  Ch.:0+90.0~0+114.0 20:00~23:00) Rectification of 1st layer rebar mesh  Ch.:0+133.0~0+138. 0 20:00~) Fixing of 2nd layer rebar mesh  Ch.:0+225.0~0+241. 0 00:00~) Rectification of 2nd layer rebar mesh	Day II-2 RIGHT(1) Ch: 0+000~0+040 9:00- 16:50 ) Excavation for side drainage and invert leveling. Ch:0+152.0~0+14 7.0 08:20~16:00) Installation of 2nd layer rebar mesh CH:0+184.0~0+1 51.8 09:37~16:39) Grouting for 06m rock dowels (31 pcs) Used cement= 800 kg  II-2 LEFT(1) Ch.:0+133.0~0+1 28.0 08:20~) Installation of 2nd layer rebar mesh CH:0+184.0~0+1 51.8 09:37~16:39) Grouting for 06m rock dowels (31 pcs) Used cement= 800 kg  II-2 LEFT(1) Ch.:0+133.0~0+1 28.0 08:20~) Installation of 2nd layer rebar mesh	Day II-2 RIGHT(1) Ch:0+142~0+137 08:20~15:45) Installation of 2nd layer rebar mesh Ch: 0+102~0+104 16:13- Drilling for rock dowels is in progress.  II-2 LEFT(1) Ch.:0+123.0~0+11 8.0 08:00~15:45) Installation of 2nd layer rebar mesh Ch.:0+103.0~0+09 4.0 10:00~15:50) Rectification of rebar mesh CH:0+089.0~0+08 4.0 08:59~10:00) Installation of 1st layer rebar mesh CH:0+165.6~0+20 9.3 08:45~15:09) Grouting for 06m rock dowels (25 pcs) Used cement=1300 kg CH:0+241.0~0+21 7.0 08:40~11:07) 3rd layer shotcrete PS Qty=16m³ Night II-2 RIGHT(1) Ch.:0+138.0~0+13 2.0 20:00~) Fixing of 2nd layer rebar mesh  II-2 LEFT(2) Ch.:0+114.0~0+11 9.0 20:00~) Fixing of 2nd layer rebar mesh  Ch.:0+165.6~ 21:50~02:50) Grouting for rock dowels (Grouted=8PCS).  Ch.:0+165.50~0+2 17.0 21:30~02:20) Fixing of rock dowels plates
Powerhouse Cavern Pilot tunnel Bench II-1	Day F.Ch:0+241.0(D/ S)  09:00~10:00) Checking of machine for water pressure test 10:00~11:15) Grouting for PS tendon. Grouting suspended due	Day No Activity Night F Ch.:0+241 ii-1, ii-2(Left) 00:30~02:30) Rectifying of face plates of rock dowels	Day No Activity Night F Ch.:0+241 ii-1,II-2(Right) ii- 2(Left) 22:00~) Rectification of wire mesh on face	Day F Ch.:0+241 No Activity	Day F.Ch:0+241.0(D/S) CH:0+241.0~ 09:57~11:40) Second layer shotcrete PS Qty=16m³ Night F Ch.:0+241 ii-1,II-2(Right) ii- 2(Left) Ch.:0+180.0~0+241. 0 20:00~00:30) Invert	Day No Activity Night No Activity	Day Ch.: 0+241.0 No Activity



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	0+047 No Activity due to unavailability of machinery and labors. PAT 01 Plug No Activity Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Manifold. Ch: 0+011 - 025 No Activity	0+047 No Activity due to unavailability of machinery and labors. PAT 01 Plug No Activity Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Manifold. Ch: 0+011 - 025 No Activity	0+047 No Activity due to unavailability of machinery and labors. PAT 01 Plug No Activity Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Manifold. Ch: 0+011 - 025 No Activity	0+047 No Activity due to unavailability of machinery and labors. PAT 01 Plug No Activity Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Manifold. Ch: 0+011 - 025 No Activity	0+047 No Activity due to unavailability of machinery and labors. PAT 01 Plug No Activity Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Manifold. PAT 01 Plug Ch: 0+005.0 ~ 21:00-22:10) Drilling for ventilation duck	0+047 No Activity due to unavailability of machinery and labors. PAT 01 Plug No Activity Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Manifold. PAT 01 Plug	Manifold 0+047 No Activity due to unavailability of machinery and labors. PAT 01 Plug 13:00-16:30) Grouting of rock dowels for ventilation fan at plug area. (23 pcs) Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Manifold. PAT 01 Plug
Penstock Adit Tunnel towards Lower pressure Tunnel No 2	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 Ch: 0+014.0-025.0 no activity PAT 2 Plug Area No Activity  Night PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) PAT 2 Plug Area No activity	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 Ch: 0+014.0-025.0 no activity PAT 2 Plug Area No Activity  Night PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) PAT 2 Plug Area No activity	PAT- 02 PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 Ch: 0+014.0-025.0 no activity PAT 2 Plug Area No Activity  Night PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) PAT 2 Plug Area No activity	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 Ch: 0+014.0-025.0 no activity PAT 2 Plug Area No Activity  Night PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) PAT 2 Plug Area No activity	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 Ch: 0+014.0-025.0 no activity PAT 2 Plug Area No Activity  Night PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) PAT 2 Plug Area No activity	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 Ch: 0+014.0-025.0 no activity PAT 2 Plug Area No Activity  Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Manifold. PAT 01 Plug	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 Ch: 0+014.0-025.0 no activity PAT 2 Plug Area No Activity  Night PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) PAT 2 Plug Area No activity
GIS Cavern Access Tunnel from STA	Day F.CH:0+116 approx. No Activity  Night F.CH:0+116 approx. No Activity	Day F.CH:0+116 approx. No Activity  Night F.CH:0+116 approx. No Activity	Day F.CH:0+116 approx. No Activity  Night F.CH:0+116 approx. No Activity	Day F.CH:0+116 approx. No Activity  Night F.CH:0+116 approx. No Activity	Day F.CH:0+116 approx. No Activity  Night F.CH:0+116 approx. No Activity	Day Day F.CH:0+116 approx. No Activity Night F.CH:0+116 approx. No Activity	Day Day F.CH:0+116 approx. No Activity Night F.CH:0+116 approx. No Activity
Connection Tunnel to Powerhouse From STA	F. Ch:0+076 No Activity	F. Ch:0+076 No Activity	F. Ch:0+076 No Activity	F. Ch:0+076 No Activity	F. Ch:0+076 No Activity	F. Ch:0+076 No Activity	F. Ch:0+076 No Activity
STB from Powerhouse Connection Tunnel	Day Ch.:0+114.0 approx.~ no activity Night No Activity	Day No Activity Night Ch.:0+114.0 approx.~ no activity	Day Ch.:0+114.0 approx.~ Ch.: 0+113.0-114.0 10:00 - 10:25) shotcrete 1st layer Qty = 02m <sup>3</sup> . 1m <sup>3</sup> wasted due to machine break down. Ch.: 0+113-0+090 14:30-15:30) 2nd go of 1st layer shotcrete (2m <sup>3</sup> SF) 1m <sup>3</sup> wasted due to machine break down. Night F.Ch:0+114.0(Approx) NO Activity	Day Ch.:0+114.0 approx.~ Ch.: 0+105-0+090 11:25-12:00) Remedial shotcrete (3m <sup>3</sup> SF) 12:30-15:00) Repairing of ventilation duct. Night No Activity	Day Ch.:0+114.0 approx.~ NO Activity  Night F.Ch:0+114.0(Approx) NO Activity	Day No Activity Night F.Ch:0+114.0(Approx) 20:30-21:20) Survey for blast 21:30-03:00) Drilling for blast 03:20-04:30) Charging for blast (Exp=75.0kg)	Day F. Ch.:0+116.0 approx.~ 8:00-14:00 ) Mucking and scaling 14:30- Repairing of ventilation fan. Night F.Ch:0+116.0(Approx) 20:00-22:30) Mucking & scaling
Surge Chamber Vault Access Tunnel	Day Towards Right side Chamber #02 Ch.:0+25.0- No activity Towards left side Chamber #01 F. Ch.: 0+067 (Approx) Ch.: 0+064.0-067.0	Day Towards Right side Chamber #02 Ch.:0+25.0- No activity Towards left side Chamber #01 F. Ch.: 0+067 (Approx) Ch.: 0+064.0-067.0	Day Towards Right side Chamber #02 Ch.:0+25.0- No activity Towards left side Chamber #01 F. Ch.: 0+067 (Approx) Ch.: 0+055-0+067	Day Towards Right side Chamber #02 Ch.:0+25.0- No activity Towards left side Chamber #01 F. Ch.: 0+067 (Approx) No activity Night	Day Towards Right side Chamber #02 Ch.:0+25.0- No activity Towards left side Chamber #01 F. Ch.: 0+067 (Approx) No activity Night	Day Towards Right side Chamber #02 Ch.:0+25.0- No activity Towards left side Chamber #01 F. Ch.: 0+067 (Approx) No activity Night	Day Towards Right side Chamber #02 Ch.:0+25.0- No activity Towards left side Chamber #01 F. Ch.: 0+067 (Approx) 9:00- ) Fixing of

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	No Activity Night Junction Enlargement area Towards left side Chamber #01 F.Ch: 0+067.0 Ch.:0+057~0+65.0 21:00-03:00 ) Drilling for rock dowels  Towards Right side Chamber #02 F.Ch:0+25 No Activity	No Activity Night Junction Enlargement area Towards left side Chamber #01 F.Ch: 0+067.0 Ch.:0+00.0~0+04.0 21:45-23:50) Drilling for weep holes  Towards Right side Chamber #02 F.Ch:0+25.0 Ch.:0+00.0~0+07.0 00:00~03:45) Drilling for weep holes	15:15-15:55) 2nd go of 1st layer shotcrete (6m <sup>3</sup> PS) Night Junction Enlargement area Towards left side Chamber #01 F.Ch: 0+067.0 Ch.:0+00.0~0+04.0 21:45~23:50) Towards Right side Chamber #02 F.Ch:0+25.0 Ch.:0+00.0~0+07.0 00:00~03:45)	Junction Enlargement area Towards left side Chamber #01 F.Ch: 0+067.0 Ch.:0+00.0~0+04.0 21:45~23:50) Drilling for weep holes  Towards Right side Chamber #02 F.Ch:0+25.0 Ch.:0+00.0~0+07.0 00:00~03:45) Drilling for weep holes	Junction Enlargement area Towards left side Chamber #01 F.Ch: 0+067.0 Ch.:0+00.0~0+04.0 21:45~23:50) Drilling for weep holes  Towards Right side Chamber #02 F.Ch:0+25.0 Ch.:0+00.0~0+07.0 00:00~03:45) Drilling for weep holes	dewatering pipe Night Junction Enlargement area Towards left side Chamber #01 F.Ch: 0+067.0 No activity  Towards Right side Chamber #02 F.Ch:0+25.0 No activity	dewatering pipe Night Junction Enlargement area Towards left side Chamber #01 F.Ch: 0+067.0 No activity  Towards Right side Chamber #02 F.Ch:0+25.0 No activity
Existing shaft Tunnel from I1 drain	Day Vertical Existing shaft No Activity  Night Vertical Existing shaft No Activity	Day Vertical Existing shaft No Activity  Night Vertical Existing shaft No Activity	Day Vertical Existing shaft No Activity  Night Vertical Existing shaft No Activity	Day Vertical Existing shaft No Activity  Night Vertical Existing shaft No Activity	Day Vertical Existing shaft No Activity  Night Vertical Existing shaft No Activity	Day Vertical Existing shaft No Activity  Night Vertical Existing shaft No Activity	Day Vertical Existing shaft No Activity  Night Vertical Existing shaft No Activity
Drain Tunnel	Day F.Ch. 0+949.5 Design excavation is complete  Night F.Ch. 0+949.5 No Activity	Day F.Ch. 0+949.5 No Activity  Night F.Ch. 0+949.5 No Activity	Day No Activity  Night No Activity	Day F.Ch. 0+949.5 Design excavation is complete  Night F.Ch. 0+949.5 Design excavation is complete	Day No Activity  Night F.Ch. 0+949.5 Design excavation is complete	F.Ch. 0+949.5 Design excavation is complete  Night F.Ch. 0+949.5 Design excavation is complete	Note: suspension of work due to contractor's failure to ensure safe working condition from 16/08/2022
CR-5-1 Access road and LU-1- Intake area	Lu 1 No Activity Intake El: ▼993.0~0+990.0 8:00~17:00) Mucking	Lu 1 Ch.:0+80~0+100 8:00~17:00) Fixing of scaffolding Intake El: ▼993.0~0+990.0 8:00~17:00) Drilling for boulder blast 13:00~17:00) mucking	Lu 1 Ch.:0+120.0~0+80.0 8:00~17:00) Installation and rectification of wire mesh Night El: ▼993.0~0+990.0 8:00~) Excavation and mucking 8:15~11:10) Charging for blast Exp=596kg 16:45) blast is carried out	Lu 1 Ch.:0+110.0~0+60.0 8:00- Drilling for rock dowels  Intake Area El: ▼0+993.0~0+990.0 8:00~) Excavation and mucking	Lu 1 Ch.:0+110.0~0+50.0 8:00- 11:30) Drilling for rock dowels  Intake Area El: ▼0+993.0~0+990.0 8:00~17:00) Excavation and mucking	Intake Area El: ▼0+993.0~0+990.0 8:00~17:00) Excavation and mucking Lu 1 Ch.:0+110.0~0+50.0 8:00- 11:30) Drilling for rock dowels	LU 1 No Activity Intake Area El: ▼0+993.0~0+990.0 8:00~ 17:00) Excavation and mucking
CT-2	Day F.Ch.: 0+275.0 8:00~14:30) Drilling for blast 14:45~ 16:15) Charging for blast Exp=222KG 16:25 - ) Blast carried out Ch.:0+185~0+235 10:00~11:45) Installation of ventilation duct  Night F.Ch: 0+276.0 19:00~19:30) Mapping (Qv=20.8) 20:35~21:00) 1st layer shotcrete (PS Qty=3m <sup>3</sup> ) 23:00~23:30) Survey for blast 23:30~) Drilling for blast is in progress	Day F.Ch.: 0+279.5 Approx 7:00~ 10:00) Mucking and scaling 10:00~10:20) Geological mapping Qv=1.5 10:30~11:00) Survey for blast 11:00~11:40) Shotcrete 1st layer 3m <sup>3</sup> Ch.:0+275.0~0+279.0 13:30~ Drilling for rock dowels in progress..  Night F.Ch: 0+279.5 23:30~) Drilling for blast is in progress  Ch.:0+275.0~0+279.0 19:30~22:30) Grouting for rock	Day F.Ch.: 0+282.5 Approx Night~10:00) Mucking and scaling 10:00~10:20) Geological mapping QV=1.5 13:00~13:30) Survey for blast 13:45~Drilling for blast in progress.. Ch.:0+279.5~0+282.5 10:55~11:15) Shotcrete 1st layer Qty=3m <sup>3</sup> Ch.:0+264.0~0+266.0 11:15~11:45) Shotcrete 2nd layer Qty=4m <sup>3</sup> Night F.Ch: 0+285.0 19:00~23:00) Mucking & scaling 23:15~23:50) Mapping &	Day F.Ch.: 0+285.0~Approx Night~9:00) Drilling for blast 9:00~10:30) Charging for blast Exp=224.0kg 10:40) Blast is carried out 11:00~15:15) Mucking and scaling 15:25~15:45) Geological mapping 15:55~15:45) 1st layer shotcrete (PS Qty=3m <sup>3</sup> ) 17:20~) Drilling for rock dowels Night F.Ch: 0+288.0 Ch.:0+280.0~0+287.0 19:30~00:50) Drilling for rock dowels 01:10~) Grouting for rock dowels	Day F.Ch.: 0+288.0~8:00~10:45) Drilling for blast 10:45~11:50) Charging for blast Exp=224kg 12:00) Blast carried out 12:20~15:00) Mucking and scaling F.Ch.: 0+290.5~15:00~15:30) Survey & Mapping Qv = 1.6 Ch: 0+288~0+290.5 16:00~16:30) First Layer Shotcrete PS Qty= 3m <sup>3</sup> Ch: 0+266~0+269 16:30~17:00) Remedial Shotcrete 2nd Layer Qty= 3m <sup>3</sup> Day F.Ch: 0+290.70 19:30~20:10) Survey for blast 20:30~00:20) Drilling for blast 00:30~02:00) Charging for blast	Day F.Ch.: 0+294.0~Ch.:0+290.50+294.0 8:50~9:30) 1st layer shotcrete PS Qty= 3m <sup>3</sup> Ch.:0+279~0+292.0 9:30~11:00) 2nd layer shotcrete PS Qty=8m <sup>3</sup> Ch.:0+288~0+294 12:15~16:50) Drilling for rock dowel.  Night F.Ch: 0+294.0 21:00~21:30) Survey for blast 21:50~01:30) Drilling for blast 01:40~04:00) Charging for blast 04:20~) Blast carried out 04:50~) Mucking is in progress	Day F.Ch.: 0+296.0~11:20~17:20) Drilling for blast 17:35~) Charging for blast is in progress  Ch.:0+294.0~0+296.0 8:30~9:00) 1st layer shotcrete PS Qty=3m <sup>3</sup> Ch.:0+290.5~0+294.0 9:00~9:40) 2nd layer shotcrete Qty=4m <sup>3</sup>  >Night F.Ch: 0+296.0 19:00~19:40) Charging for blast (Exp=224.0kg) 19:50~) Blast carried out 20:10~20:50) Charging for additional blast 21:04~) Additional





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**Appendix K [24/34]**

Transformer Cavern Pilot Tunnel I-1 & I-3	Day TC I 1 Day F.Ch.: 0+241.0~ No Activity Note: > Contractor is notified to keep the angle of drilling as per the required design Night F.ch:0+241.0 TC-ET Junction: 20:00~ Installation of wire mesh I-1,I-2, II-2( Left) Ch.:0+80.5~0+85.5 20:30~) Drilling for PS tendons Note: > Contractor is notified to keep the angle of drilling as per the required design	Day No Activity Night F.ch:0+241.0 TC-ET Junction: 20:00~ Installation of wire mesh I-1,I-2, II-2( Left) Ch.:0+80.5~0+85.5 20:30~) Drilling for PS tendons	Day No Activity Night F.ch:0+241.0 TC-ET Junction: 20:00~ Installation of wire mesh I-1,I-2, II-2( Left) Ch.:0+80.5~0+85.5 20:30~) Drilling for PS tendons	Day F. Ch:0+241.0~(D/S) Ch.: 0+005 - 010 08:30 - 12:30) Rectification rebar mesh Ch.: 0+000 - 100 10:00 - 11:00) Marking of 03 out of 5 rock dowels for pullout Test Night No Activity	Day F. Ch: 0+241.0 (D/S) Ch.: 0+000-0+015 20:00- Rectification of rebar mesh is in progress.	Day F. Ch:0+241.0~(D/S) Ch.: 0+000 - 010 08:20 - 15:30) Rectification of rebar mesh Night F. Ch: 0+241.0 (D/S) Ch.: 0+000 19:30-2:00) Rectification of wire mesh on face.	Day F. Ch: 0+241.0 No Activity Night F. Ch: 0+241.0 No Activity
Transformer Cavern Bench II-1	Day & Night F Ch.: 0+200 - 241 No activity	Day & Night F Ch.: 0+200 - 241 No activity	Day F.ch:0+241.0 Ch.: 0+075 - 65 08:00 -) mucking of bench excavation Night F.ch:0+241.0 TC II-01 Mucking Drilling for remaining portion (Ramp) of right side bench blast 02:10~) Charging for blast	Day F.ch:0+241.0 F.Ch.: 0+065 Ch.: 0+085 - 120 08:00 -18:40) mucking of bench excavation Ramp side Night F.ch:0+241.0 TC II-01 No Activity TC Electric Power break down.	Day F.ch:0+241.0 F.Ch.: 0+065 Ch.: 0+085 - 120 08:00 -18:40) mucking of bench excavation Ramp side Night F.ch:0+241.0 TC II-01 No Activity	Day F.ch:0+241.0 F.Ch.: 0+065 Ch.: 0+085 - 120 08:00 -18:40) mucking of bench excavation Ramp side Night F.ch:0+241.0 TC II-01 No Activity TC Electric Power break down.	Day F.ch:0+241.0 F.Ch.: 0+065 Ch.: 0+085 - 120 08:00 -18:40) mucking of bench excavation Ramp side Night F.ch:0+241.0 TC II-01 No Activity TC Electric Power break down.
TC II-2(1) +TCII-2(2) (Left and Right)	Day II-2 Right side Ch.: 0+033~0+055 8:00-17:00) Rectification of rebar mesh. II-2 Left side Ch.:0+000 (At Face US) 8:00-14:00) Fixing of wire mesh (4 Pcs) Ch:0+017~0+022 8:00-15:30) Fixing of rebar mesh. Ch.: 0+194.25~8:00- ) Drilling for rock dowels Night F.ch:0+241.0 II-2 Right Ch.:0+75.0~0+40.0 20:00~ )Rectification of rebar mesh II-02(Left) Ch.:213.0~0+239.25 21:00~01:20) Grouting for rock dowels (Grouted=51pcs)	Day II-2 Right side No Activity II-2 Left side Ch.:0+198~0+219.25 8:00~16:50) Grouting of rock dowels. (42 pcs) Night F.ch:0+241.0 II-2 Right Ch.:0+000.0 (face) 23:30~) fixing of wire mesh Ch.:0+70.50~03:00~) Drilling for rock dowels is in progress Ch.:0+208.0~0+189.5 08:30~00:45) Grouting for rock dowels (45 PCS ) Ch.:0+239.25~0+210.5 08:30~00:00) Fixing of wire mesh II-02(Left) Ch.:0+000.0 (face) 20:30~23:30) fixing of wire mesh Ch.:0+201.75~0+214.25 20:30~) Drilling for rock dowels	Day II-2 Right side Ch.:0+239.25~0+226.75 10:30-16:35) Grouting for rock dowels (31 pcs) Ch:0+070.0~0+060 9:15- 17:00) Rectification of rebar mesh. Ch: 0+210~0+215 11:00-14:00) Drilling for rock dowels Ch: 0+080~0+074 14:15~ ) Drilling for rock dowels. II-2 Left side Ch.:0+184.25~0+188.0 8:30~10:00) Grouting for rock dowels (Qty=16pcs) Ch:0+00 (Face) 8:30-10:00) Excavation of Side Drain Night F.ch:0+241.0 II-2 Right Ch.:0+239.25~0+223 23:30~02:30) Grouting for rock dowels (32 PCS) Ch.:0+70.5~0+76.5	Day II-2 Right side Ch:0+214.25~0+181.75 8:00-15:30) Grouting for rock dowels (Qty 60pcs Grouted) Ch:0+000~0+010 8:00-15:00 ) Rectification of rebar mesh. Ch: 0+178.0~0+185.0 7:40_12:00) Drilling for rock dowels. II-2 Left side Ch:0+185_12:40_17:00 ) Drilling for bottom remaining rock dowels. Night F.ch:0+241.0 II-2 Right Ch.:0+100.0~01:30~) Invert cleaning Note: > No Activity due to unavailability of machinery and labors.	Day F.ch:0+241.0 II-2(1) Left and Right Ch.: 0+183 - 188; Ch.: 0+160 - 155 09:30 - 12:00) Mucking Night F.ch:0+241.0 II-2(1) Left and Right Ch.: 0+183 - 188; Ch.: 0+160 - 155 20:00~23:00) Mucking Ch.: 0+187~0+158 00:50-2:50) 1st layer shotcrete on right wall (24m³ PS) 4:05- 4:35) 1st layer shotcrete on left wall (8m³ PS)	Day F.ch:0+241.0 II-2 Left Ch.: 0+183 - 190. 08:00 - 10:00) Mucking Night II-2(1) Right Ch.: 0+187~0+158 22:50-23:15) 2nd go of 1st layer shotcrete on right wall (5m³ PS) II-2(2) Left 23:20-23:35) 2nd go of 1st layer shotcrete on left wall. (3m³)	Day F.ch:0+241.0 II-2 Left & Right Ch.: 0+155 - 190. 08:30 - 10:00) Assembling of scaffolding pipe platform for rebar mesh installation 10:00 - 11:00) Removal of underbreaks and levelling of invert for scaffolding pipe platform. 11:30 -) Installation of rebar mesh on Left wall Night II-2(1) Right Ch.: 0+165~0+175 20:00-5:15) Fixing of 1st layer rebar mesh II-2(2) Left Ch.: 0+160~0+185 20:30-1:30) Drilling for rock dowels (L=5m) 2:10- Installation of rock dowels (42 pcs)

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**Appendix K [25/34]**

		Ch:0+226.75~0+239.25 00:40~02:45) Installation & packing of rock dowels (36pcs)	20:00~) Drilling for rock dowels Ch.:0+184.25~0+176.75 01:00~01:50) Survey for rock dowels 02:30~) Drilling for rock dowels				
Transformer Cavern Pilot Tunnel I-2	Day No Activity	Day & Night . F.Ch:0+241.0~(D/S) Ch.: 0+000 (At Face) No Activity	Day No activity	Day F. Ch:0+241.0~(D/S) Ch.: 0+020 - 010 08:20 - 12:30) Rectification of rebar mesh. TC Power Failure at 12:44 Ch.: 0+000 - 100 10:00 - 11:00) Marking of 05 rock dowels for pullout test Night F. Ch:0+241.0~(D/S) No Activity	Day F. Ch:0+241.0~(D/S) Ch.: 0+018~0+025 19:40- Rectification of rebar mesh is in progress.	Day F. Ch:0+241.0~(D/S) Ch.: 0+010 - 015 08:20 - 15:00) Rectification of rebar mesh on left wall Night F. Ch:0+241.0~(D/S) Ch.: 0+010~0+015 19:20- Rectification of rebar mesh is in progress. Ch.: 0+015~0+042 00:50-3:45) 2nd layer shotcrete (Qty= 24m <sup>3</sup> SF) Ch.: 0+000 (At face) 2:10- Rectification of wire mesh at face	Day F. Ch:0+241.0~(D/S) Ch.: 0+100 - 200 15:00 - 15:45) Marking off rock dowels for pull out test Night F. Ch:0+241.0~(D/S) No Activity
Powerhouse Cavern Pilot tunnel Bench II-1	Day F Ch.:0+241 No Activity Night F Ch.:0+241 No Activity	Day & Night F Ch.:0+241 No Activity Night F Ch.:0+241 No Activity	Day & Night F Ch.:0+241 No Activity Night F Ch.:0+241 No Activity	Day & Night F Ch.:0+241 No Activity Night F Ch.:0+241 No Activity	Day & Night F Ch.:0+241 No Activity Night F Ch.:0+241 No Activity	Day & Night F Ch.:0+241 No Activity Night F Ch.:0+241 No Activity	Day & Night F Ch.:0+241 No Activity Night F Ch.:0+241 No Activity
PH II-2(1) +PH II-2(2) (Left and Right)	Day II-2 RIGHT(1) Ch:0+138~0+133 08:20~15:40) Installation of 2nd layer rebar mesh Ch: 0+115~0+110.4 16:13~12:03) Grouting of rock dowels L=6m. (7 pcs, Used cement=150 kg) II-2 LEFT(1) CH:0+90~0+085 08:20~15:40) Installation of 1st layer rebar mesh CH:0+138~0+115.0 Grouting for 06m rock dowels (33 pcs) Used cement=400 kg NightII-2 RIGHT(1) Ch.:0+128.0~0+123.0 20:00~) Fixing of 2nd layer rebar mesh Ch.:0+220.80~239.20 Survey for tension rock bolts II-2 LEFT(2) Ch.:0+85.0~0+80.0 Fixing of 1st layer rebar mesh Ch.:0+217.0~204.00	Day F.Ch:0+241.0(D/S) 9:30~) Drilling for PS tendon Location: Ph97-7,97-4 Ch.: 0+133~0+150 Installation of supporting bars for PS tendon. Night Ch.: 0+241.0 I-1, I-2, I-3 Ch.:0+217.35~ Water pressure test for PS tendon Location: PH95-10(Permeability=8.5 5, Rejected due to leakage from packer) PH97-12(permeability=3.1 1, Rejected due to leakage from packer) PH96-10(permeability=8.8 ) PH99-12(permeability=3.3 8) PH-98-12(permeability=6.2 8) Ch.:0+221.95~0+231. Drilling for PS tendons is in progress Location: PH96-4 PH97-4	Day II-2 RIGHT(1) Ch:0+112.0~0+118.0 7:50-17:00 ) Installation of 2nd layer rebar mesh II-2 LEFT(2) CH:0+075~0+080 08:20~11:00) Rectification of First layer Rebar mesh Ch:0+189.0~0+204.0 8:00-15:00 ) Rectification of 2nd layer rebar mesh Ch.: 0+178~0+204 Inspection of rebar mesh has been carried out. Night II-2 RIGHT(1) Ch.:0+00.0 21:30~) Installation of wire mesh on face Ch:0+112.0~0+108.0 20:00~ ) Installation of 2nd layer rebar mesh II-2 LEFT(2) Ch.:0+0+63.0~0+68.0 20:00~) Fixing of 1st layer Rebar mesh Ch.:0+080.0~0+100.0	Day II-2 RIGHT(1) Ch:0+108~0+102 8:00~15:00) Installation of 2nd layer rebar mesh II-2 LEFT(2) CH:0+063~0+058 08:20~ 16:00) Fixing of First layer Rebar mesh Ch:0+160~0+178 8:00~15:10) Rectification of 2nd layer rebar mesh Ch.: 0+82.5~0+115 10:40~17:00) Drilling for rock dowels Night II-2 RIGHT(1) Ch:0+097.0~0+102.0 20:00~ ) Installation of 2nd layer rebar mesh Ch.:0+197.0~21:00~) Rectification of 2nd layer rebar mesh II-2 LEFT(2) Ch.:0+0+057.0~0+052.0 20:00~) Fixing of 1st layer Rebar mesh	Day II-2 Right side Rectification of rebar mesh. Drilling for rock dowels II-2 Left side Side excavation for drainage Night Survey for Missing rock dowel and rectification of support work was in progress	Day II-2 Right side Rectification of rebar mesh. Drilling for rock dowels II-2 Left side Side excavation for drainage Night Survey for Missing rock dowel and rectification of support work was in progress	Day II-2 Right side Rectification of rebar mesh. Drilling for rock dowels II-2 Left side Side excavation for drainage Night Survey for Missing rock dowel and rectification of support work was in progress

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**Appendix K [26/34]**

	Rectification of 2nd layer rebar mesh Ch.:0+204.70~0+239.20 Survey for tension rock bolts		20:50~02:10) 2nd layer shotcrete (PS Qty=16m3) Ch.:0+217.0~0+200.0 03:00~) 3rd layer shotcrete (PS Qty=16m3)				
Powerhouse Cavern Pilot tunnel (Left Crown portion) I-2	Day F.Ch:0+241.0~Approx No Activity Note: -Lighting & Ventilation problem in PH	Day & Night F.Ch:0+241.0~Approx. No Activity	Day No Activity Night No Activity	D Day & Night F.Ch:0+241.0~Approx. No Activity	Day & Night F.Ch:0+241.0~Approx. No Activity	Day & Night F.Ch:0+241.0~Approx. No Activity	Day & Night F.Ch:0+241.0~Approx. No Activity
Powerhouse Cavern Pilot (Crown Portion) PH-I-3 & I-1	Day PH I 1 F.Ch:0+241.0(D/S) 08:50~16:10) Installation of PS tendon Location: Ph54-6 Ph55-6,p54-5, p53-6, p52-5, p51-6  Ch.: 0+224 9:00~) Drilling for PS tendon is in progress.. Night Ch.: 0+241.0 I-1, I-2, I-3 Ch.:0+116.15~0+132.25 20:30~) Installation of PS tendon Location: PH58-5	Day PH i1 F.Ch:0+241.0(D/S) 9:30~) Drilling for PS tendon Location: Ph97-7,97-4  Ch.: 0+133~0+150 8:00~) Installation of supporting bars for PS tendon. Night Ch.: 0+241.0 I-1, I-2, I-3 Ch.:0+217.35~20:30~) Water pressure test for PS tendon Location: PH95-10(permeability=8.5 5,	Day PH I 3 No Activity PH I 1 Day F.Ch:0+241.0(D/S) 8:00-10:25) Drilling for PS tendon Location: PH99-5 9:45- 16:30) Packer Grouting for PS Tendon. ( 30 Pcs) Ch.: 0+241.0 I-1, I-2, I-3 Ch.:0+08. 70~20:30~) Installation of PS tendons Location: PH4-6 PH4-7	Day Ph I 1 Ch.: 0+241.0 I-1, I-2, I-3 Ch.: 111.55~21:00~) Grouting for PS tendons Location: PH49-9=199.0L PH50-9=186.0L Ch.:0+127.0~21:00~)Installation of supporting bars for PS tendons Ch.:0+228.85 21:00~)Drilling for PS tendon Location: PH100-7 PH I 3 No Activity	Day Installation of Ps Tendon Rectification of support work was in progress Night Installation of Ps Tendon Rectification of support work was in progress	Day Installation of Ps Tendon Rectification of support work was in progress Night Installation of Ps Tendon Rectification of support work was in progress	Day Installation of Ps Tendon Rectification of support work was in progress Night Installation of Ps Tendon Rectification of support work was in progress
01A Drain Tunnel Left Crown of PH I-2	Day F. Ch:0+041.5 No Activity  Night F. Ch.:0+41.5 No Activity	Day F. Ch:0+041.5 No Activity  Night F. Ch.:0+41.5 No Activity	Day F. Ch:0+041.5 No Activity  Night F. Ch.:0+41.5 No Activity	Day F. Ch:0+041.5 Mucking  Night F. Ch.:0+41.5 No Activity	Day F. Ch:0+041.5 No Activity  Night F. Ch.:0+41.5 No Activity	Day F. Ch:0+041.5 No Activity  Night F. Ch.:0+41.5 No Activity	Day F. Ch:0+041.5 No Activity  Night F. Ch.:0+41.5 No Activity
Service Tunnel A	Day F.Ch:0+567.5 STA PAT Junction 10:30 - ) Drilling for anchor bars for ventilation duct, Night F. Ch:0+567.5~No Activity due to resource limitations	Day F. Ch:0+567.5~No Activity due to resource limitations  Night F. Ch:0+567.5~No Activity due to resource limitations	Day F. Ch:0+567.5~No Activity due to resource limitations  Night F. Ch:0+567.5~No Activity due to resource limitations	Day F. Ch:0+567.5~No Activity due to resource limitations  Night F. Ch:0+567.5~No Activity due to resource limitations	Day F. Ch:0+567.5~No Activity due to resource limitations  Night F. Ch:0+567.5~No Activity due to resource limitations	Day F. Ch:0+567.5~No Activity due to resource limitations  Night F. Ch:0+567.5~No Activity due to resource limitations	Day F. Ch:0+567.5~No Activity due to resource limitations  Night F. Ch:0+567.5~No Activity due to resource limitations
Penstock Adit Tunnel towards Lower pressure Mani fold area Tunnel No 1	Day PAT- 01 Design Excavation Completed Manifold 0+047 No Activity due to unavailability of machinery and labors.  PAT-STA Junction. 8:30 - ) Replacement of ventilation fan Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Manifold. PAT 01 Plug	Day PAT- 01 Design Excavation Completed Manifold 0+047 No Activity due to unavailability of machinery and labors.  PAT-STA Junction. No Activity Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Manifold. PAT 01 Plug	Day PAT- 01 Design Excavation Completed Manifold 0+047 No Activity due to unavailability of machinery and labors. PAT-STA Junction. 9:00-16:00) Welding of rebars for ventilation fan. Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Manifold. PAT 01 Plug	Day PAT- 01 Design Excavation Completed Manifold 0+047 No Activity due to unavailability of machinery and labors. Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Manifold. PAT 01 Plug	Day PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area F.Ch. 0+019 Ch.: 0+016 - 019 08:30 - 15:00) Mucking scaling 15:05 - 15:45) Mapping Qv = 1.67 16:00 - ) Arrangements for Shotcrete Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Ch.:0+016~0+020 22:30-22:50) 1st layer shotcrete (3m³ PS) F. Ch.: 0+20	Day PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area F.Ch. 0+019 Ch.: 0+016 - 019 Mucking scaling Mapping Qv = 1.67 1Arrangements for Shotcrete Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Ch.:0+016~0+020 1st layer shotcrete (3m³ PS) F. Ch.: 0+20 Survey for blast Drilling for blast	Day PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area F.Ch. 0+019 Ch.: 0+016 - 019 Mucking scaling 15:05 - 15:45) Mapping Qv = 1 Arrangements for Shotcrete Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Ch.:0+016~0+020 ) 1st layer shotcrete (3m³ PS) F. Ch.: 0+20 Survey for blast 3:45- Charging for blast (Exp=75 kg)

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**Appendix K [27/34]**

					23:20-23:45) Survey for blast 23:55- 3:10) Drilling for blast 3:45- Charging for blast (Exp=75 kg)	3:45- Charging for blast (Exp=75 kg)	
Penstock Adit Tunnel towards Lower pressure Manifold area Tunnel No 2	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 Ch: 0+014.0~025.0 no activity PAT 2 Plug Area 8:00- Fixing of form work for concrete.  > Night PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) PAT 2 Plug Area No activity	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 Ch: 0+014.0~025.0 no activity PAT 2 Plug Area 8:00-16:00) Fixing of form work for concrete Bed.  Night PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) PAT 2 Plug Area No activity	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 Ch: 0+014.0~025.0 no activity PAT 2 Plug Area 8:00- ) Fixing of form work for concrete Bed. > Ventilation is not functional Night PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) PAT 2 Plug Area No activity	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 Ch: 0+014.0~025.0 no activity PAT 2 Plug Area 8:00-17:00) Fixing of formwork for Bed concrete Night PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) PAT 2 Plug Area No activity	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) Ch.: 0+240 - 250 08:30:00 - 17:00) invert washing & cleaning at plug area	Day Lower Pressure Tunnel 02 (towards manifold) Ch.: 0+240 - 250 invert cleaning at plug area	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) Ch.: 0+240 - 250 invert cleaning at plug area
GIS Cavern Access Tunnel from STA	Day F.CH:0+116 approx. No Activity  Night F.CH:0+116 approx. No Activity	Day F.CH:0+116 approx. No Activity  Night F.CH:0+116 approx. No Activity	Day F.CH:0+116 approx. No Activity  Night F.CH:0+116 approx. No Activity	Day F.CH:0+116 approx. No Activity  Night F.CH:0+116 approx. No Activity	Day F.CH:0+116 approx. No Activity  Night F.CH:0+116 approx. No Activity	Day F.CH:0+116 approx. No Activity  Night F.CH:0+116 approx. No Activity	Day F.CH:0+116 approx. No Activity  Night F.CH:0+116 approx. No Activity
Connection Tunnel to Powerhouse From STA	Day F. Ch:0+076 No Activity  Night F. Ch:0+076 No Activity	Day F. Ch:0+076 No Activity Night F. Ch:0+076 No Activity Due to lack of resources	Day F. Ch:0+076 No Activity  Night F. Ch:0+076 No Activity	Day F. Ch:0+076 No Activity  Night F. Ch:0+076 No Activity	Day F. Ch:0+076 No Activity  Night F. Ch:0+076 No Activity	Day F. Ch:0+076 No Activity  Night F. Ch:0+076 No Activity	Day F. Ch:0+076 No Activity  Night F. Ch:0+076 No Activity
STB from Powerhouse Connection Tunnel	Day F. Ch.:0+116.0 approx.~ 13:35~16:50) Repairing of ventilation fan.  Night F.Ch:0+116.0(A pprox) 20:00~22:30) Mucking & scaling	Day F. Ch.:0+116.0 approx.~ 10:00-16:00 ) Repairing of ventilation fan & Duct.  Night F.Ch:0+116.0(Approx) 22:00~02:45) 1st layer shotcrete (SF Qty=3m³)	Day F. Ch.:0+116.0 approx.~ 7:00-11:20) Drilling for blast 11:30-12:30) Charging for blast (Exp=60 kg) 12:54) Blast carried out 14:00-) Mucking and scaling Night F.Ch:0+117.50( Approx) 20:30~21:20) Mucking 21:40~22:40) Charging for additional 22:45-) Additional Blast carried out 02:00-) Mucking is in progress	Day F. Ch.:0+117.50 approx. 9:00- 14:00)Repairing of ventilation duct. Night F.Ch:0+118.50(Ap prox) Ch...:0+102.00~ 22:00-) Drilling for rock dowels is in progress	Day F. Ch.:0+117.50 approx. 9:00- 14:00)Repairing of ventilation duct. Night F.Ch:0+118.50(Approx) Ch...:0+102.00~ 22:00-) Drilling for rock dowels is in progress	Day F. Ch.:0+117.50 approx. 9:00- 14:00)Repairing of ventilation duct. Night F.Ch:0+118.50(A pprox) Ch...:0+102.00~ 22:00-) Drilling for rock dowels is in progress	Day F. Ch.:0+117.50 approx. 9:00- 14:00)Repairing of ventilation duct. Night F.Ch:0+118.50(Ap prox) Ch...:0+102.00~ 22:00-) Drilling for rock dowels is in progress
Surge Chamber Vault Access Tunnel	Day Towards Right side Chamber #02 Ch.:0+020.0 09:00~11:00) Joint thickness test of shotcrete No activity  Towards left side Chamber #01 F. Ch.: 0+067 (Approx)	Day Towards Right side Chamber #02 No activity  Towards left side Chamber #01 F. Ch.: 0+067 (Approx)  Night Junction Towards left side Chamber #01	Day Towards Right side Chamber #02 No activity Towards left side Chamber #01 F. Ch.: 0+067 (Approx) Ch.: 0+058~0+063 11:00-16:20) Fixing of wire mesh. (5 pcs) Night	Day Towards Right side Chamber #02 No activity Towards left side Chamber #01 F. Ch.: 0+067 (Approx) Ch.: 0+058~067 8:00-14:20) Fixing of wire mesh. (Qty=63m2) Night Junction Enlargement area	Day Towards Right side Chamber #02 No activity Towards left side Chamber #01 F. Ch.: 0+067 (Approx) Ch.: 0+058~067 8:00-14:20) Fixing of wire mesh. (Qty=63m2) Night Junction Enlargement area	Junction Enlargement area Towards left side Chamber #01 F. Ch.:0+067 (Approx) Towards Right side Chamber #02 F.Ch.:0+23.00 Ch...:0+03.0~0+06.0 21:30~01:40) Drilling for 2nd bench floor blast	Junction Enlargement area Towards left side Chamber #01 F. Ch.:0+067 (Approx) Towards Right side Chamber #02 F.Ch.:0+23.00 Ch...:0+03.0~0+06.0 21:30~01:40) Drilling for 2nd bench floor blast Note:

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	Night Junction Enlargement area Towards left side Chamber #01 F.Ch: 0+067.0 No activity  Towards Right side Chamber #02 F.Ch:0+25.0 No activity	F.Ch: 0+067.0 No activity  Towards Right side Chamber #02 F.Ch:0+25.0 Ch.:0+15.0~0+18.0 22:30~02:30) Drilling for missing rock dowels	Junction Enlargement area Towards left side Chamber #01 F.Ch: 0+067.0	Towards left side Chamber #01 F.Ch: 0+067.0~Ch.:0+59.0~0+65.0 22:00~01:30) Grouting of rock dowels(Grouted=20pcs) Note: > Grouting suspended due to grouting machine pressure is not satisfactory. > High temperature & ventilation problem. Towards Right side Chamber #02 F.Ch:0+25.0	Towards left side Chamber #01 F.Ch: 0+067.0~Ch.:0+59.0~0+65.0 22:00~01:30) Grouting of rock dowels(Grouted=20pcs) Note: > Grouting suspended due to grouting machine pressure is not satisfactory. > High temperature & ventilation problem. Towards Right side Chamber #02 F.Ch:0+25.0	Note: > Drilling for 2nd bench floor blast without approved AFI at site > High temperature & ventilation problem.	> Drilling for 2nd bench floor blast without approved AFI at site > High temperature & ventilation problem.
Drain Tunnel	Day F. Ch949.5 Design excavation is complete No activity  Night F. Ch949.5 Design excavation is complete No activity	Day F. Ch949.5 Design excavation is complete No activity  Night F. Ch949.5 Design excavation is complete No activity	Day F.Ch. 0+949.5.0 Design excavation is complete No Activity  Night Day F.Ch. 0+949.5.0 Design excavation is complete No Activity	Day F.Ch. 0+949.5.0 Design excavation is complete No Activity  Night Day F.Ch. 0+949.5.0 Design excavation is complete No Activity	Day F.Ch. 0+949.5.0 Design excavation is complete No Activity  Night Day F.Ch. 0+949.5.0 Design excavation is complete No Activity	Day F.Ch. 0+949.5.0 Design excavation is complete No Activity  Night Day F.Ch. 0+949.5.0 Design excavation is complete No Activity	Day F.Ch. 0+949.5.0 Design excavation is complete No Activity  Night Day F.Ch. 0+949.5.0 Design excavation is complete No Activity
Existing shaft tunnel from I1 drain tunnel	Day Vertical Existing shaft No Activity  Night No Activity	Day Vertical Existing shaft No Activity  Night No Activity	Day Vertical Existing shaft No Activity  Night No Activity		Day Vertical Existing shaft No Activity  Night No Activity	Day Vertical Existing shaft No Activity  Night No Activity	Day Vertical Existing shaft No Activity  Night No Activity
CR-5-1 Access road and LU-1 Intake Area	Day Intake area El:▼0+993.0~0+990.0 8:00~ 17:00) Excavation and mucking LU 1 No Activity	Day Intake El:▼0+993.0~0+990.0 07:40~17:00) Excavation and mucking LU I No Activity	Intake Area El:▼0+993.0~0+990.0 07:40~17:00) Excavation and mucking Night Lu 1 No Activity	Intake Area El:▼0+993.0~0+990.0 07:40~17:00) Excavation and mucking Night Lu 1 No Activity	Day Vertical Existing shaft No Activity  Night No Activity	Intake Area El:▼0+993.0~0+990.0 07:40~17:00) Excavation and mucking Night Lu 1 No Activity	Intake Area El:▼0+993.0~0+990.0 07:40~17:00) Excavation and mucking Night Lu 1 No Activity
CT-2	Day F.Ch.: 0+298.70~Ch. 0+296~0+298 07:10~08:40) Grouting and installation of rock dowels Qty= 36pcs Ch. 0+296~0+298 09:00~09:50) 2nd layer shotcrete Qty=5m³ Ch. 0+298~11:30~12:00) Survey for blast 12:20~15:30) Drilling for blast 15:30~17:00) Charging for blast (Exp=224kg) 17:08~ ) Blast carried out 17:30~) Mucking is in progress  Night	Night F.Ch.: 0+302.0~7:15~08:40) Drilling for blast Ch. 0+220~0+280 09:00~10:00) Drilling for weepholes Ch 0+302.0~10:30~12:00) Charging for blast (Exp=225kg) 12:20) Blast carried out 12:40~15:45) Mucking and scaling 15:45~16:10) Mapping (Qv=1.1) 16:45~17:40) 1st layer shotcrete  > Ventilation is not functional Night F.Ch: 0+304.0(Approx) 21:00~01:15)	Day F.Ch.: 0+304~0+307 07:30~08:10) Mapping Qv=1.67 08:40~09:00) 1st layer shotcrete PS Qty=3m3 Ch. 0+220~0+280 09:30~10:15) Thickness test of shotcrete has been done Ch. 0+299~0+305 11:00~15:20) Marking and Drilling for rock dowel 15:42~) Grouting and installation of rock dowels 3pcs done and in progress Night F.Ch: 0+307.0(Approx)	Day F.Ch.: 0+309.5 Ch.:0+200~0+280.0 8:30_9:00 Remedial Shotcrete Qty=2m3 10:00_10:30 Survey for blast 10:30_13:30 Drilling for blast 13:30_15:00 Charging for blast (Exp=224kg) 15:13 Blast carried out 15:30_18:00) Mucking & scaling 18:00~18:30) Mapping Night F.Ch: 0+312.50(Approx) 20:00~20:45) 1st layer shotcrete (PS Qty=3m3) Ch.:0+305.0~0+311.0 21:40~) Drilling for rock dowels is InProgress	Day F.Ch.: 0+312.5 Ch.:0+200~0+280.0 8:30_9:00 Remedial Shotcrete Qty=2m3 10:00_10:30 Survey for blast 10:30_13:30 Drilling for blast 13:30_15:00 Charging for blast (Exp=224kg) 15:13 Blast carried out 15:30_18:00) Mucking & scaling 18:00~18:30) Mapping Night F.Ch: 0+315.50(Approx) 20:00~20:45) 1st layer shotcrete (PS Qty=3m3) Ch.:0+305.0~0+311.0 21:40~) Drilling for rock dowels is InProgress	Day F.Ch.: 0+317~Blast Carried out. Night F.Ch: 0+315.00 (Approx) Mapping support work was in progress Night Ch.:0+315.0~0+314.0 Drilling for rock dowels Grouting for rock dowel.	Day F.Ch.: 0+320.0 (Approx.) Ch.:0+314.0~0+318 08:30~14:40) Drilling for rock dowels 15:00~) Grouting for rock dowels Qty=15Pcs Grouted & in progress Inlet portal 08:30~09:45) pouring of concrete for 'Ventilation fan' platform. Ch: 0+174.0~0+177.0 19:10-20:30) Charging for blast (Exp=220 kg) 20:45) Blast carried out 21:10-00:30) Mucking and scaling 1:20-1:40) Mapping (Qv=2.08)
Switch Yard Compound	Day EL▼970.0~960.0(5th layer left side) 13:00~14:30) Curing of shotcrete	Day EL▼970.0~960.0(5th layer left side) No activity EL▼960.0~950.0(5th layer right side) EL▼959.0	Day EL▼970.0~960.0(5th layer left side) No activity	Day EL▼970.0~960.0(5th layer left side) EL▼959.0~950.0(5th layer right side)	EL▼970.0~960.0(5th layer left side) EL▼959.0~950.0(5th layer right side) 11:00_17:00 Excavation & Mucking	EL▼970.0~960.0(5th layer left side) EL▼959.0~950.0(5th layer right side)	EL▼970.0~960.0(5th layer left side) EL▼959.0~950.0(5th layer right side)

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	EL▼970.0~960.0 (5th layer right side) 8:00~17:00) Drilling for blast 8:00~17:00) Excavation and mucking EL▼960+950.0 (4th layer left side) 11:40~12:10) Curing of shotcrete	14:25~17:00) Drilling for blast EL▼953.0 08:00~17:00) Excavation and mucking  EL▼950.0~947.0 (4th layer right side) 08:00~14:00) Excavation and mucking	EL▼960.0~950.0 (5th layer right side) EL▼959.0~953.0 08:00~12:00) Drilling for blast 13:30~16:00) Charging for blast (Exp=350kg) 16:30) Blast carried out (No. of holes 70. Depth of holes =2m~ 6m. Dia of hole=90mm. Spacing of	11:00_17:00 Excavation & Mucking EL▼956.0~958 (4th layer left side) 08:00~16:00) EL▼956.0~958 (4th layer left side) 15:00_17:00 Drilling for blast 08:00~16:00) EL▼945-942.0 (4th layer right side) 7:45_17:00 Excavation & Mucking EL▼960.0~956 (4th layer left side) 7:45_17:00 Excavation & Mucking 8:00_17:00 Installation of wire mesh EL▼960-956.0 13:00_14:20 Installation of Anchor bars 14pcs Installed	EL▼956.0~958 (4th layer left side) 08:00~16:00) 15:00_17:00 Drilling for blast EL▼945-942.0 (4th layer right side) 7:45_17:00 Excavation & Mucking EL▼960.0~956 (4th layer left side) 7:45_17:00 Excavation & Mucking 8:00_17:00 Installation of wire mesh EL▼960-956.0 13:00_14:20 Installation of Anchor bars 14pcs Installed	11:00_17:00 Excavation & Mucking EL▼956.0~958 (4th layer left side) Drilling for blast EL▼945-942.0 (4th layer right side) 7:45_17:00 Excavation & Mucking EL▼960.0~956 (4th layer left side) 7:45_17:00 Excavation & Mucking EL▼960.0~956 (4th layer left side) 13:00_14:20 Installation of wire mesh EL▼960-956.0 13:00_14:20 Installation of Anchor bars 14pcs Installed	11:00_17:00 Excavation & Mucking EL▼956.0~958 (4th layer left side) Drilling for blast EL▼945-942.0 (4th layer right side) Excavation & Mucking EL▼960.0~956 (4th layer left side) Installation of wire mesh EL▼960-956.0 14pcs Installed
Switch Yard Day Work	Day work order No Activity	Day work order No Activity	Day work order No Activity	Day work order No Activity	Day work order No Activity	Day work order No Activity	Day work order No Activity

ate/Day Location	22 Thursday	23 Friday	24 Saturday	25 Sunday
Main Access Tunnel	DAY F. Ch:0+963 No Activity due to Limited resources Design Excavation is completed. But support work is remaining.  NIGHT F. Ch:0+963 No Activity due to Limited resources Design Excavation is completed.	DAY F. Ch: 0+963 Design Excavation is completed. But support work is remaining.  NIGHT F. Ch: 0+963 Design Excavation is completed. But support work is remaining.	DAY F. Ch: 0+963 Design Excavation is completed. But support work is remaining.  NIGHT F. Ch: 0+963 Design Excavation is completed. But support work is remaining.	DAY F. Ch: 0+963 Design Excavation is completed. But support work is remaining.  NIGHT F. Ch: 0+963 Design Excavation is completed. But support work is remaining.
Draft Tunnel Towards Tailrace Tunnel No 2	Day Ch: K0+053.5 No Activity  Night Ch: K0+053.5 No Activity.	Day Ch: K0+053.5 No Activity  Night Ch: K0+053.5 No Activity.	Day Ch: K0+053.5 No Activity  Night Ch: K0+053.5 No Activity.	Day Ch: K0+053.5 No Activity  Night Ch: K0+053.5 No Activity.
Draft Tunnel Towards Tailrace Tunnel No 1	Day F ch:0+057.0 No Activity  Night F ch:0+057.0 No Activity	Day F ch:0+057.0 No Activity  Night F ch:0+057.0 No Activity	Day F ch:0+057.0 No Activity  Night F ch:0+057.0 No Activity	Day F ch:0+057.0 No Activity  Night F ch:0+057.0 No Activity
Exhaust Tunnel	Day F. Ch:0+193 Design excavation is completed only support work is remaining.  Night F. Ch:0+193 No Activity due to Limited resources Design excavation is completed only support work is remaining.	Day F. Ch:0+193 No Activity Design excavation is completed only support work is remaining.  Night F. Ch:0+193 No Activity Design excavation is completed only support work is remaining.	Day F. Ch:0+193 No Activity Design excavation is completed only support work is remaining.  Night F. Ch:0+193 No Activity Design excavation is completed only support work is remaining.	Day F. Ch:0+193 No Activity Design excavation is completed only support work is remaining.  Night F. Ch:0+193 No Activity Design excavation is completed only support work is remaining.
Service Tunnel C	Note: -Design Excavation (450 m) has been Completed. Ch.:0+341~0+359.0 Grouting for rock dowels	Note: -Design Excavation (450 m) has been Completed. No Activity regarding to Support work.	Note: -Design Excavation (450 m) has been Completed. No Activity regarding to Support work.	Note: -Design Excavation (450 m) has been Completed. No Activity regarding to Support work
Transformer Cavern Tunnel i-2	Day Rectification of support work was in progress Night Rectification of support work was in progress	Day Rectification of support work was in progress Night Rectification of support work was in progresses	Day Rectification of support work was in progress Night Rectification of support work was in progress	Day Rectification of support work was in progress Night Rectification of support work was in progress
Transformer Cavern Bench II-1	Day Rectification of support work was in progress Night Rectification of support work was in progress	Day Rectification of support work was in progress Night Rectification of support work was in progress	Day Rectification of support work was in progress Night Rectification of support work was in progress	Day Rectification of support work was in progress Night Rectification of support work was in progress

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TC II-2(1) +TCII-2(2) (Left and Right)	Day II-2 Right side Ch:0+071.25~0+054 8:40-) Grouting of rock dowels (61 pcs) Ch: 0+110~0+115 Drilling for rock dowels. II-2 Left side Ch:0+111~0+114 ) Grouting of rock dowels (3 Pcs) Ch.: 0+032~0+000.5 15:50-) Drilling for rock dowels (Bottom row only) Night F.ch:0+241.0 II-2 RIGHT (01) Ch.:0+59.5~0+48.0 ) Grouting for rock dowels (Grouted=23pcs, 1pcs Rejected due to leakage) II-2 LEFT (02) Ch:0+00.0~0+20.0 ~03:00-) Drilling for rock dowels Ch.:0+114.0~0+099.0 01:30-) Grouting for rock dowels (Grouted=16pcs, 1pcs rejected due to leakage)	Day II-2 Right side Ch:0+071.25~0+054 8:40-) Grouting of rock dowels (61 pcs) Ch: 0+110~0+115 Drilling for rock dowels. II-2 Left side Ch:0+111~0+114 ) Grouting of rock dowels (3 Pcs) Ch.: 0+032~0+000.5 15:50-) Drilling for rock dowels (Bottom row only) Night F.ch:0+241.0 II-2 RIGHT (01) Ch.:0+59.5~0+48.0 ) Grouting for rock dowels (Grouted=23pcs, 1pcs Rejected due to leakage) II-2 LEFT (02) Ch:0+00.0~0+20.0 ~03:00-) Drilling for rock dowels Ch.:0+114.0~0+099.0 01:30-) Grouting for rock dowels (Grouted=16pcs, 1pcs rejected due to leakage)	Day Rectification of support work was in progress Night Rectification of support work was in progress	Day Rectification of support work was in progress Night Rectification of support work was in progress
Transformer Cavern Pilot Tunnel I-1 and I-3	Day F. Ch:0+241.0~ (D/S) No Activity	Day F. Ch:0+241.0~ (D/S) Ch.: 0+000~0+010 08:30~17:00) excavation of drain by jack hammer from TC junction to Ph.	Day F. Ch:0+241.0~ (D/S) Ch.: 0+000~0+010 excavation of drain by jack hammer from TC junction to Ph. Night No Activity	
Powerhouse Cavern Pilot tunnel (Crown portion) I-2	Day Rectification of support work was in progress Night Rectification of support work was in progress	Day Rectification of support work was in progress Night Rectification of support work was in progress	Day Rectification of support work was in progress Night Rectification of support work was in progress	Day Rectification of support work was in progress Night Rectification of support work was in progress
Powerhouse Cavern Pilot tunnel Bench II-1	No Activity	No Activity	No Activity	
PH II-2(1) +Ph II-2(2) (Left and Right)	Day Rectification of support work was in progress Night Rectification of support work was in progress	Day Rectification of support work was in progress Grouting for rock dowels Drilling for rock dowels Night Rectification of support work was in progress	Day Rectification of support work was in progress Grouting for rock dowels Drilling for rock dowels Night Rectification of support work was in progress	Day Rectification of support work was in progress Grouting for rock dowels Drilling for rock dowels Night Rectification of support work was in progress
Powerhouse Cavern Pilot (Right Crown Portion) I-3 & I-1	Day Rectification of support work was in progress Night Rectification of support work was in progress	Day Rectification of support work was in progress Night Rectification of support work was in progress	Day Rectification of support work was in progress Night Rectification of support work was in progress	Day Rectification of support work was in progress Night Rectification of support work was in progress
01A Drain Tunnel Left Crown PH I-2	Day F.ch:0+046.0(Approx.) No activity	Day F.ch:0+046.0(Approx.) No activity Night F.ch:0+046.0(Approx.) No activity	Day F.ch:0+046.0(Approx.) No activity Night F.ch:0+046.0(Approx.) No activity	Day F.ch:0+046.0(Approx.) No activity
Service Tunnel A	Day F. Ch:0+567.5 No Activity due to resource limitations Night F. Ch:0+567.5 No Activity due to resource limitations	Day F. Ch:0+567.5 No Activity due to resource limitations Night F. Ch:0+567.5 No Activity due to resource limitations	Day F. Ch:0+567.5 No Activity due to resource limitations Night F. Ch:0+567.5 No Activity due to resource limitations	Day F. Ch:0+567.5 due to resource limitations Night F. Ch:0+567.5 No Activity due to resource limitations
Penstock Adit Tunnel towards Lower pressure Tunnel No 1	Day PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area F.Ch. 0+027 Approx (Pilot Tunnel) 07:45 - 08:45) Charging for blast (137 KG) 08:53 -) Blast PAT01 PAT02 junction Night	Day PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area F.Ch. 0+028 Approx (Pilot Tunnel) 08:30~10:00) Invert ramp excavation and levelling Night	Day PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area F.Ch. 0+028 Approx (Pilot Tunnel) 08:30~10:00) Invert ramp excavation and levelling Night	Day PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area F.Ch. 0+028 Approx (Pilot Tunnel) 08:30~10:00) Invert ramp excavation and levelling Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01

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	PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 F.Ch. 0+029.5 Approx. (Pilot Tunnel) 02:00-5:35) Mucking and scaling	PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Enlargement No Activity	PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Enlargement Fixing of Embedded plates for steel arches.	Enlargement Fixing of Embedded plates for steel arches.
Penstock Adit Tunnel towards Lower pressure Tunnel No 2	Lower Pressure Tunnel 02 (towards manifold) Ch.: 0+240 - 250 08:30 - 17:00) invert cleaning at plug area	Lower Pressure Tunnel 02 (towards manifold) Ch.: 0+240.0~0+250 08:30~17:00) invert cleaning at plug area	Lower Pressure Tunnel 02 (towards manifold) Ch.: 0+240.0~0+250 08:30~17:00) invert cleaning at plug area	
GIS Cavern Access Tunnel from STA	Day F.ch:0+116 No Activity Night F.ch:0+116 No Activity	Day F.ch:0+116 No Activity Night F.ch:0+116 No Activity	Day F.ch:0+116 No Activity Night F.ch:0+116 No Activity	Day F.ch:0+116 No Activity Night F.ch:0+116 No Activity
Connection Tunnel to Powerhouse From STA	Day F. Ch:0+076 No Activity due to lack of available resources. Night F. Ch: 0+076 No Activity due to lack of available resources.	Day F. Ch: 0+076 No Activity due to lack of available resources. Night F. Ch:0+076 No Activity due to lack of available resources.	Day F. Ch: 0+076 No Activity due to lack of available resources. Night F. Ch: 0+076 No Activity due to lack of available resources.	Day F. Ch: 0+076 No Activity due to lack of available resources. Night F. Ch: 0+076 No Activity due to lack of available resources.
Service Tunnel B	F. Ch.:0+117.50 approx. 08:15~09:00) Survey for blast 12:00- 17:00) Drilling for blast 17:20~18:30) Charging for blast 19:05~) Blast carried out	F. Ch.:0+119.50 approx. 08:15~09:00) Survey for blast 12:00- 17:00) Drilling for blast 17:20~18:30) Charging for blast 19:05~) Blast carried out	F. Ch.:0+119.50 approx. 08:15~09:00) Survey for blast 12:00- 17:00) Drilling for blast 17:20~18:30) Charging for blast 19:05~) Blast carried out.	
Surge Chamber Vault Access Tunnel	Towards Right side Chamber #02 Mucking of bench blast Ch.: 0+005~0+008 Survey for bench blast Drilling for bench blast Charging for blast (Exp=55 kg) 16:24) Blast carried out Towards left side Chamber #01 F. Ch.: 0+067 (Approx) No Activity Note: Ventilation problem.	Towards Right side Chamber #02 Mucking of bench blast Ch.: 0+005~0+008 Survey for bench blast Drilling for bench blast Charging for blast (Exp=55 kg) 16:24) Blast carried out Towards left side Chamber #01 F. Ch.: 0+067 (Approx) No Activity Note: Ventilation problem	Towards Right side Chamber #02 Survey for bench blast Drilling for bench blast Towards left side Chamber #01 F. Ch.: 0+067 (Approx) No Activity Note: Ventilation problem	
Existing shaft tunnel from I1 drain tunnel	No Activity	No Activity	No Activity	No Activity
Drain Tunnel	Day F.Ch. 0+949.5.0 Design excavation is complete No activity Night F.Ch. 0+949.5.0 Design excavation is complete No Activity	Day F.Ch. 0+949.5.0 Design excavation is complete No activity Night F.Ch. 0+949.5.0 Design excavation is complete No Activity	Day F.Ch. 0+949.5.0 Design excavation is complete No activity Night F.Ch. 0+949.5.0 Design excavation is complete No Activity	Day F.Ch. 0+949.5.0 Design excavation is complete No activity Night F.Ch. 0+949.5.0 Design excavation is complete No Activity
CR-5-1 Access road and LU-1 Intake Area	No Activity	No Activity	No Activity	No Activity
CT-2 Adit Tunnel	Day F.Ch.: 0+322.0~14:30~15:00) Survey for blast 15:00~18:30) Drilling for blast Ch.:0+319.0~0+320 07:00~08:30) Grouting for rock dowels Qty=15pcs Note: Contractor did grouting without 1st layer shotcrete. Night F.Ch: 0+322.00(Approx) 19:30~20:50) Charging for blast (Exp=224.0kg) 21:03) Blast carried out 21:35~1:00) Mucking & scaling 01:20~01:50) Mapping	Day F. Ch: 0+179.5 Ch.: 0+172~0+173 7:30-9:45) Grouting of rock dowels (18 pcs grouted, cement=400 kg) Ch.: 0+177~0+179.5 11:45-12:15) Shotcrete 1st layer (3m <sup>3</sup> PS) Ch.: 0+168~0+177 12:15-13:30) Shotcrete 2nd layer (9m <sup>3</sup> PS) Ch.: 0+179.5 17:15-18:00) Survey for blast 18:00-18:45) Drilling for blast Night F. Ch: 0+179.5 19:20-22:30) Drilling for blast Ch.: 0+174~0+175 22:45-00:50) Drilling for rock dowels. 1:20- Charging for blast	Day F. Ch: 0+182.5 8:00_9:40 Scaling And invert leveling 10:00_10:40 Mapping Qv=1.87 Ch:0+174.0~0+175.0 11:45_12:20 Grouting for rock dowels (Qty=12 pcs) Cement 250kg Ch:0+179.5~0+182.5 14:10_14:30 First layer PS shotcrete Qty=(3m <sup>3</sup> ) Ch:0+174.0~179.5 14:40_15:20 2nd layer PS shotcrete Qty=3m F. Ch: 0+182.5 19:30- 1:00) Drilling for blast Ch.: 0+176~0+177 1:00- 2:50) Drilling for rock dowels	



**Dasu Hydropower Project**  
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**Appendix K [32/34]**

			3:00-) Charging for blast (230 kg)	
Switch yard Compound	EL▼950.0~947 (5th layer right side) 07:30~17:00) Excavation and Slope cutting EL▼960.0~955 (5th layer left side) 12:30~13:15) Charging for blast at trench area (Exp=75kg) 25 hole, depth=2m~3.5m dia=90mm 14:45) Blast carried out EL▼960.0~947. (4th layer Left side) 09:00~13:00) 2nd layer shotcrete Qty=30m <sup>3</sup> EL▼945~942.0 (4th layer right side) 07:45_17:00) Rough Excavation & Mucking EL▼958.0~952 (4th layer left side) 13:30~14:30) Charging for blast (Exp=325kg) 45hole, depth=4m~6m dia=90mm 14:45) Blast carried out	EL▼950.0~947 (5th layer right side) 07:30~17:00) Excavation and Slope cutting EL▼960.0~955 (5th layer left side) Charging for blast at trench area) 25-hole, depth=2m~3.5m Blast carried out EL▼960.0~947. (4th layer Left side) EL▼945~942.0 (4th layer right side) Rough Excavation & Mucking EL▼958.0~952 (4th layer left side) Charging for blast	EL▼963 - 967 (5th layer) EL▼963 -967 8:00_) Fifth layer Rectification of wire mesh & installation of Steel pins. EL▼945 8:00_) Excavation & mucking	
Switch yard Day work order	Day work order No Activity	Day work order No Activity	Day work order No Activity	

### Daily Work Records of EM-01

The landowners/locals people agreed for the resumption of work on 29<sup>th</sup> November 2022 after work suspension on 10<sup>th</sup> of August 2022

S/No Structure	1 Thursday	2 Friday	3 Saturday	4 Sunday	4 Monday	6 Tuesday	7 Wednesday
Terrace #1	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Terrace #2	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Terrace #3	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Terrace #4	No activity	No activity	No activity	No activity	No activity	Construction of Retaining Wall	Construction of Retaining Wall
Terrace #6	No activity	No activity	No activity	No activity	No activity	No activity	Excavation and Levelling
Terrace #7	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Terrace #8	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Terrace #9	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Terrace #10	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Access road	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Roadside Boundary Wall	No activity	No activity	No activity	No activity	No activity	No activity	Formwork for Boundary wall Foundation
Side Boundary Wall	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Stone Hammering/ Rebar Cutting	Preparing Stone for Retaining Wall by using Jack Hammer	Preparing Stone for Retaining Wall by using Jack Hammer	Preparing Stone for Retaining Wall by using Jack Hammer	Preparing Stone for Retaining Wall by using Jack Hammer	Preparing Stone for Retaining Wall by using Jack Hammer	Preparing Stone for Retaining Wall by using Jack Hammer	Preparing Stone for Retaining Wall by using Jack Hammer
S/No Structure	8 Thursday	9 Friday	10 Saturday	11 Sunday	12 Monday	13 Tuesday	14 Wednesday
Terrace #1	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Terrace #2	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Terrace #3	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Terrace #4	Construction of Retaining Wall	Excavation for Retaining Wall Foundation	Construction of Retaining Wall	Construction of Retaining Wall	Construction of Retaining Wall	Concrete for Retaining Wall Foundation	Construction of Retaining Wall
Terrace #6	Excavation and Levelling	No activity	No activity	No activity	No activity	No activity	No activity
Terrace #7	No activity	Excavation for Retaining Wall Foundation	Compaction of Retaining Wall Foundation	No activity	No activity	No activity	No activity
Terrace #8	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Terrace #9	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Terrace #16	No activity	No activity	Excavation for Breast Wall Foundation	Compaction of Breast Wall Foundation	Construction of Breast Wall	Construction of Breast Wall	Construction of Breast Wall
Access road	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Roadside Boundary Wall	Formwork for Boundary wall Foundation	Formwork for Boundary wall Foundation	Formwork for Boundary wall Foundation	Formwork for Boundary wall Foundation	Formwork and Steel Fixing for Boundary wall Foundation	Formwork and Steel Fixing for Boundary wall Foundation	Formwork and Steel Fixing for Boundary wall Foundation
Side Boundary Wall	Excavation for Column Footing	Excavation for Column Footing	Formwork for Boundary wall Foundation	Foundation of Boundary Wall	Foundation of Boundary Wall	Foundation of Boundary Wall	Foundation of Boundary Wall
Stone Hammering/ Rebar Cutting	No activity	No activity	No activity	No activity	No activity	No activity	Rebar Cutting for Foundation
Store	No activity	No activity	Steel and Cement Unloading	No activity	No activity	No activity	No activity
S/No Structure	15 Thursday	16 Friday	17 Saturday	18 Sunday	19 Monday	20 Tuesday	21 Wednesday
Terrace #1	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Terrace #2	No activity	No activity	No activity	No activity	Finishing Work of Retaining Wall	Finishing Work of Retaining Wall	No activity
Terrace #3	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Terrace #4	Construction of Retaining Wall	Construction of Retaining Wall	Construction of Retaining Wall	Construction of Retaining Wall	Construction of Retaining Wall	Construction of Retaining Wall	Construction of Retaining Wall
Terrace #6	No activity	No activity	No activity	No activity	No activity	Excavation and Levelling	No activity
Terrace #7	No activity	No activity	No activity	Concrete for Retaining Wall Foundation	Construction of Retaining Wall	Construction of Retaining Wall	Construction of Retaining Wall
Terrace #8	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Terrace #9	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Terrace #10	Concrete for Retaining Wall Foundation	No activity	Construction of Retaining Wall	Construction of Retaining Wall	No activity	No activity	No activity
Terrace #16	Construction of Breast Wall	Construction of Breast Wall	No activity	No activity	No activity	No activity	No activity
Access road	No activity	No activity	No activity	No activity	No activity	No activity	No activity
Roadside Boundary Wall	Formwork and Steel Fixing for Boundary wall Foundation	Concrete for Boundary Wall Foundation	Concrete for Boundary Wall Foundation	Formwork and Steel Fixing for Boundary wall Foundation	Concrete for Boundary Wall Foundation	Concrete for Boundary Wall Foundation	Formwork and Steel Fixing for Boundary wall Foundation

