



# DASU HYDROPOWER CONSULTANTS

Dasu Hydropower Project

Joint Venture of



DOLSAR  
ENGINEERING

With sub-consultants



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Contract No: DHP-CSA01

Our Ref. No: DHC/Dasu/WAPDA/GEN/tm/22-833

Date: 15<sup>th</sup> December, 2022

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

**Subject: Dasu HPP - MPR No.100 for the Month of November 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,

FM

Project Manager  
Dasu Hydropower Consultants

**Attachment:** MPR No.100 (14 Copies)

**Copy to:**

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



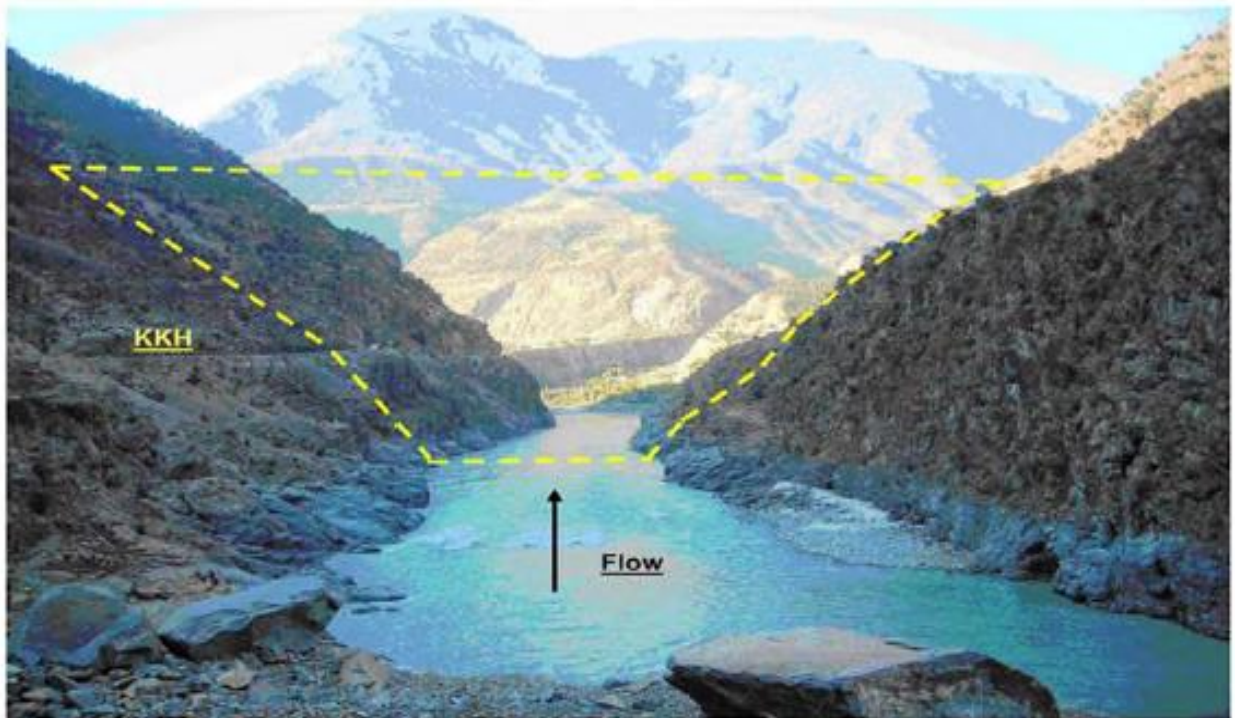




PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY

# 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. 100**

**November 2022**

**Dasu Hydropower Consultants (DHC)**

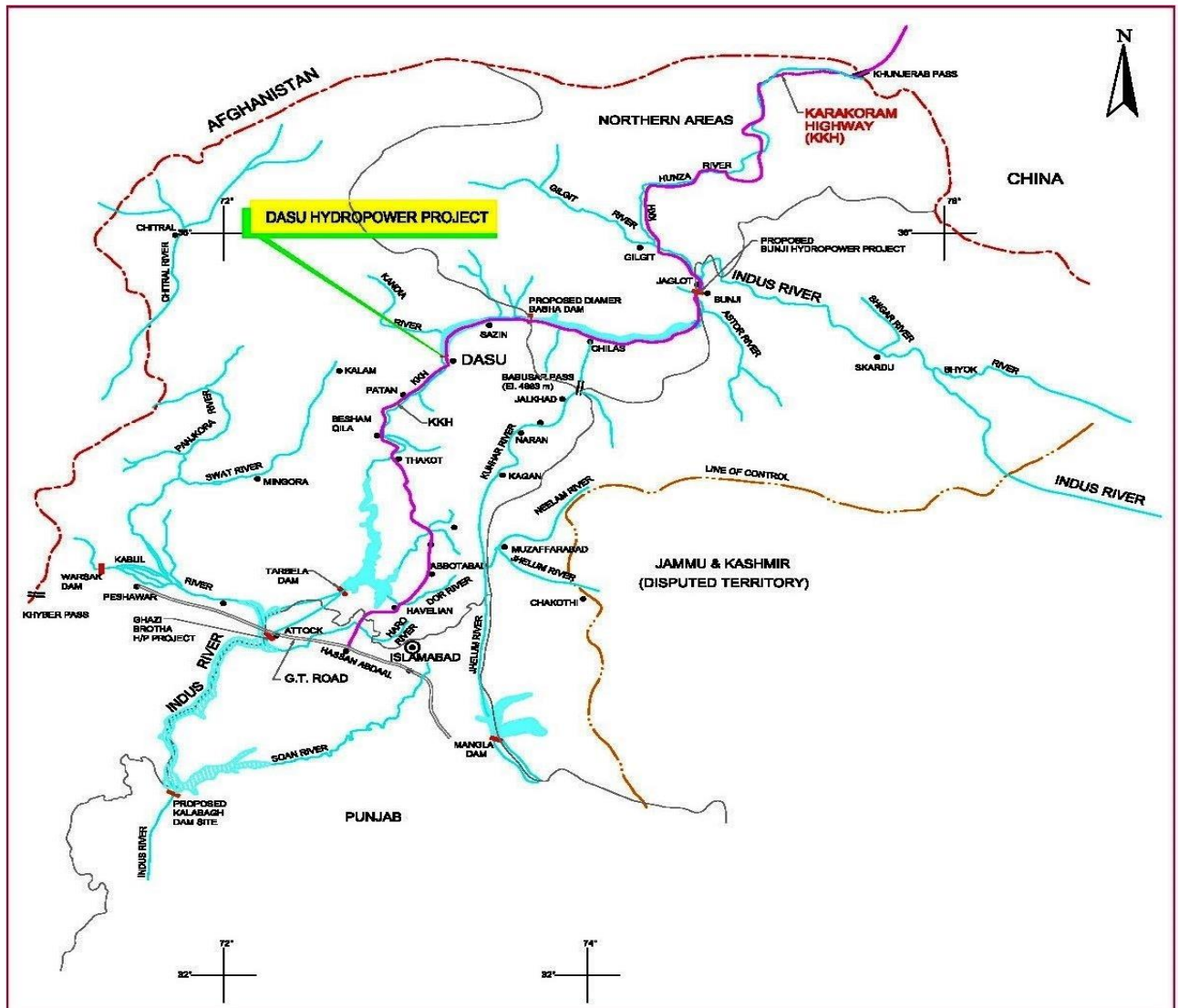
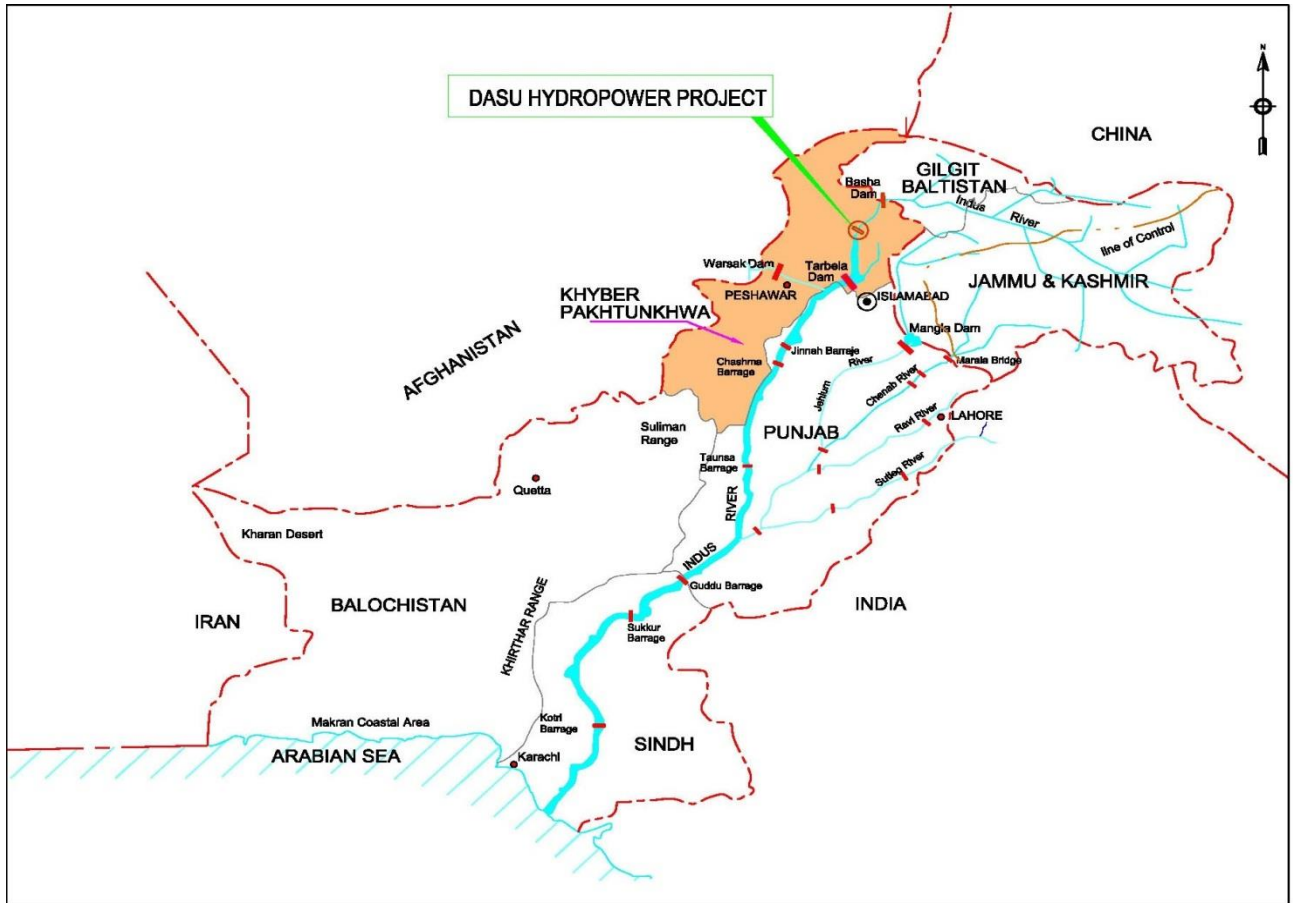
Joint Venture of



With Sub-Consultants









## 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) The 19<sup>th</sup> meeting of the Project Steering Committee was held in Islamabad on 16<sup>th</sup> November 2022. The main agenda of meeting was to review the proposal on ESMR cases on; (i) consideration of AHHS with CNIC address outside Kohistan; and (ii) consideration of AHHS having more than one shareholder in one Khasra, as was discussed in a meeting called by the Federal Minister Water for Resources on 16<sup>th</sup> June 2022.
- (2) The 19<sup>th</sup> PSC meeting was chaired by the Minister Water and all honorable members of Project Steering Committee participated, including the Chairman WAPDA, Advisor (Projects) WAPDA, Project Director DHPP, Director General DHPP, DHC Representative, Chief Secretary KPK, Secretary and Joint Secretary (Water), Commissioner Hazara Division, Deputy Commissioner (Kohistan Upper) and representatives of the World Bank.
- (3) The decisions on both the above points were given by the Project Steering Committee and the implementation of preparing ESMR files has been started accordingly.
- (4) Advisor Projects (Mr. Nasir Hanif) visited the site on 22<sup>nd</sup> November 2022. Detailed meetings regarding the progress and critical issues were held in the WAPDA's office with the Engineer and Contractors (CGGC, CCECC, PCCC, CGICOP) for ongoing contracts on 23<sup>rd</sup>, 24<sup>th</sup> and 25<sup>th</sup> November 2022.
- (5) By the end of November 2022, a total amount of PKR 19.25 billion was paid, including PKR 18.90 billion to 7,801 PAPs through 11,566 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 month of November 2022, DC office did not released compensation payment cheques to any PAP.

### 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

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Sr. No.	Contract No.	Date of Award	Date of Signing	Commencement Date	Original Completion Date	Name of Contractor
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
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	837.84	13.25	851.09
Dolsar	520.96	346.70	6.99	353.69
Locals	8,950.44	5,632.11	96.51	5,728.62

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	31	105	234	370
<b>Grand Total</b>					<b>395</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. Yuzo NAKANO	Construction Technical Advisor-2	19 <sup>th</sup> Nov 2022	NK
2	Mr Ali Murat Ozbek	Construction Technical Advisor-3	22 <sup>nd</sup> Nov 2022	Dolsar
3	Mr Naim Karaman	Deputy Project Manager/ AQ/QC Manager	22 <sup>nd</sup> Nov 2022	Dolsar
4	Mr Birol Murat Erdolu	Tunnel Technical Advisor	22 <sup>nd</sup> Nov 2022	Dolsar
5	Mr Fidencio Mendez	Project Manager	25 <sup>th</sup> Nov 2022	NK

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

Sr. No.	Name of Staff	Position/Designation	Date of Departure	Name of Firm
1.	Mr Fidencio Mendez	Project Manager	1 <sup>st</sup> Nov 2022	NK
2.	Mr Ali Murat Ozbek	Construction Technical Advisor-3	10 <sup>th</sup> Nov 2022	Dolsar
3.	Mr Naim Karaman	Deputy Project Manager/ AQ/QC Manager	10 <sup>th</sup> Nov 2022	Dolsar
4.	Mr Burhan ARIOZ	Transmission Line and Grid Station Specialist	4 <sup>th</sup> Nov 2022	Dolsar
5.	Mr Ali Onur Kuyucak	Bridge Design Engineer	4 <sup>th</sup> Nov 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 Javed	Jr Contract Engineer	9 <sup>th</sup> Nov 2022	NDC
2.	Mr Syed Sohaib Shah	Jr Site Engineer (PH-2)	10 <sup>th</sup> Nov 2022	PES
3.	Mr Hafiz Rana Azeem Sarwar	Jr Contract Engineer	19 <sup>th</sup> Nov 2022	NDC

**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 Zia Ullah	Sr Water Supply Design Engineer	29 <sup>th</sup> Nov 2022	NDC
2.	Mr Muhammad Haris	Assistant Engineer	29 <sup>th</sup> Nov 2022	DMC



### 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 requested the Contractor to proceed with the procurement of three diesel generators as per revised quotations. [MW-01]
- The Engineer instructed the Contractor to attend the meeting with CRRK and commercial bank officials arranged by the Employer. [MW-01 & MW-02].
- The Engineer advised the Employer to approve the Orient Energy system for procurement of generators. [MW-01]
- The Engineer instructed the Contractor to extend the advance payment guarantees as per the contract requirement. [MW-01 & MW-02].

- The Engineer provided his response to the Contractor on seating arrangement on rear body of the vehicle. [MW-01 & MW-02]
  - The Engineer provided his response to the Contractor on its issue of traffic situation of KKH and impact on CGGC's construction [MW-01]
  - The Engineer provided his response to the Contractor on its notice of claim due to nationwide shortage of oil supply. [MW-01 & MW-02]
  - The Engineer as per the Employer's approval, instructed the Contractor to proceed with the procurement of the generators from Orient Energy Systems. [MW-01]
  - The Engineer informed the Employer on the performance/progress of the Contractor on projects MW-01 and MW-02. [MW-01 & MW-02]
  - The Engineer instructed the Contractor to provide its progress and planned schedule for variation VO-006. [MW-01]
  - The Engineer provided his response on the Contractor's notice of claim due to inaccessibility of equipment and material due to road problems. [MW-01]
  - The Engineer provided his detailed response to the Employer on the request of re-establishing equity in the contracts MW-01 and MW-02. [MW-01 & MW-02]
  - The Engineer provided detailed response to the Contractor on its notice to claim regarding underground powerhouse ventilation systems. [MW-01]
  - The Engineer provided his response to the Contractor on its letter of inaccessibility of equipment and material due to road problems. [MW-02]
- b) Contract ICB No. Dasu-LBRV-11 & LBRV-12**
- The Engineer reminded the Contractor for the extension of Workmen Insurance Policy. [LBRV-11 & LBRV-12]
  - The Engineer provided his response to the Contractor regarding the Contractor's 3<sup>rd</sup> interim idle cost claim. [LBRV-11]
  - The Engineer instructed the Contractor to submit the performance security. [LBRV-11 & LBRV-12]
  - The Engineer instructed the Contractor to submit the original performance security to the Employer. [LBRV-11 & LBRV-12]
  - The Engineer issued the interim payment certificate IPC No. 10 for the Employer's approval. [LBRV-12]
  - The Engineer Informed the Employer on the Contractor's response about submitting the performance security within 10 days. [LBRV-12]
  - The Engineer provided his response to the Contractor on extension of workmen insurance policy. [LBRV-11 & LBRV-12]
- c) Contract ICB No. Dasu-PCI-01R**
- The Engineer provided his comments to the Contractor on the installation of solar power system for Project Office building, Cat-1 and Cat-2 houses at Project Colony.
  - The Engineer issued interim payment certificate IPC No. 35 for the Employer's approval.
- 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 conveyed the request of the Contractor to the Employer for approval to replace current bank guarantee with new bank guarantee.
  - The Engineer conveyed the Contractor's acceptance letter on the Engineer's determination on quantification of the Contractor's inflation claim, to the Employer.
  - The Engineer conveyed the Employer's approval letter to replace current bank guarantee with new bank guarantee, to the Contractor.
  - The Engineer instructed the Contractor to designate the Contractor's Pakistani and Chinese personnel in regard to the Contractor's management claim.
  - The Engineer responded to the Contractor regarding its claim for extension of workmen compensation policy.

**f) Contract ICB No. DASU-RAR-02:**

- The Engineer provided his response to the Contractor on seating arrangement on rear body of the vehicle.
- The Engineer provided his response to the Contractor on its notice of claim due to nationwide shortage of oil supply.
- The Engineer provided his response to the Contractor on its letter of inaccessibility of equipment and material due to road problems.

**g) Contract ICB No. TL-01**

- The Project Manager issued the Interim Payment Certificate IPC No.64 for the Employer's approval.
- The Project Manager instructed the Contractor to extend the performance guarantee as per the Contractual requirement.

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

- The Project Manager advised the Contractor to attend the meeting arranged by the Employer, with CRRK
- The Project Manager requested the Employer to expedite the process for the approval of temporary storage space at Ghazi Brotha.
- The Project Manager instructed the Contractor to submit the revised master sheet as per contractual requirement.
- The Project Manager instructed the Contractor to adjust the Contract Program as per the new Coordination Events, already intimated.
- The Project Manager instructed the Contractor to provide confirmation request for manufacturing and delivering schedule adjustment due to change of coordination events.
- The Project Manager instructed the Contractor to provide 6 No. of Vehicles for exclusive use of Employer and Project Manager's staff as per Contract Provision.
- The Project Manager acknowledged and registered the Contractor's Notice of claim due to change of Coordination events.
- The Project Manager provided clarification to the Employer regarding interim payment certificate IPC No.2
- The Project Manager issues the permission to the Contractor to deliver as per the Contractor's request and authorizes to proceed with the packaging and shipping.
- The Project Manager requested the Employer to issue "Employer's Inspection Certificate".
- The Project Manager suggested the Contractor to arrange a face to face meeting to discuss the matter of Labor index in the Contract Price Adjustment
- The Project Manager instructed the Contractor to develop record of Contractor's Personnel.
- The Project Manager requested the Employer to arrange meeting to assist the Contractor regarding deductions of taxes.
- The PM provided his response to the Contractor on his notice of claim EM-01/C-02.
- The Project Manager informed the Contractor on the approval of temporary storage space at Ghazi Brotha power complex.
- The PM provided details of Temporary Storage Space at Ghazi Brotha to the Contractor.
- The Project Manager conveyed the Employers correspondence to the Contractor regarding the addition of suppliers to the agreed schedule.
- The Project Manager provided the Contractor with the Employer's inspection certificate No.5 for pipes and accessories.
- The Project Manager provided detailed comments on the Contractor's request for the clarification on Communication Protocol

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

- The Engineer conveyed the request of the Contractor to the Employer to approve the replacement of current bank guarantee with new bank guarantee.
- The Engineer instructed the Contractor to proceed the formal submission of the Professional Indemnity Insurance.

- The Engineer conveyed the approval of the Employer for new bank guarantee to the Contractor to proceed further with the Insurance.
  - The Engineer provided his response to the Contractor on its submission of claim on extension of CAR Insurance policy.
- j) Contract ICB No. KKH-02**
- The Engineer provided his response to the Contractor on the seating arrangement in rear body of vehicles.
  - The Engineer provided response on the Contractor's notice of claim on notification of possible nationwide shortage of oil supply.
  - The Engineer provided his response on the Contractor's notice of claim due to inaccessibility of equipment and material due to road problems.
  - The Engineer requested the Employer to provide assistance to the Contractor regarding approvals from State Bank of Pakistan for shipments.
  - The Engineer advised the Contractor to arrange meeting with the Employer to discuss the nature of assistance required for approvals from SBP.
  - The Engineer requested the Employer to verify the CAR insurance policy submitted by the Contractor from the relevant insurance company.
  - The Engineer instructed the Contractor to provide evidence of premium paid to the insurer against the Contractor's CAR policy.
- 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.
  - The Engineer provided the ball park figures of anticipated claims to the Employer as a result of termination of the Contract.
- l) Contract ICB No. DASU RV**
- The Project Manager submitted the revised assessment of the Contractor's 1st interim claim of re-handling of excavated materials, to the Employer.
  - The Project Manager submitted the revised assessment of the Contractor's 1st interim claim of re-handling of excavated materials, to the Contractor.
  - The Project Manager instructed the Contractor to extend the Performance security for the period of 3 months.
  - The Project Manager submitted his response to Contractor on Price Adjustment Formula.
  - The Project Manager submitted his response to the Contractor regarding changes in the Contract price-clause 37.
  - The Project Manager instructed the Contractor to extend insurance policies as per Contract.

### **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**

- Regarding the Variation order for the improvement of Khushe Bypass road, it has been instructed to the Contractor to submit the plan for the construction of Khushe By pass and complete the related activities by December 31, 2022.
- Engineer instructed the Contractor to avoid dumping of excavated material below the Dasu-02 Tunnel and construct the barrier for the security personals and traffic below the tunnel outlet on existing KKH.
- Engineer has approved the revised Method statement submitted by the Contractor for Logro-A Tunnel.

##### **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
07-Oct-22	CCECC/DASU-KKH-01/DASU-02/RFDA/202	Submission of Shop Drawings for Dasu-02 Tunnel (K4+580~K4+635)	18-Oct-22	Approved
11-Oct-22	CCECC/DASU-KKH-01/IPC-28-X-Section/RFA/236	Submission of work done cross sections for IPC 28 of KKH-01 K1+406.25 to K1+956.25 KKH-01	02-Nov-22	Approved Except as Noted
02-Nov-22	CCECC/DASU-KKH-/K4 Tunnel/RFA/237	Submission of Method Statement for Construction of Dasu-02 (K4) Tunnel of KKH-01	02-Nov-22	Approved
02-Nov-22	CCECC/DASU-KKH-/K4 Tunnel/RFA/238	Submission of Method Statement for Construction of Logro-A (K9) Tunnel of KKH-01	02-Nov-22	Approved
03-Nov-22	CCECC/DASU-KKH-01/Pipe culvert/RFDA/10R	Resubmission of detail shop Drawing for pipe culvert for uchar nullah access road KKH-01	07-Nov-22	Not Approved
04-Nov-22	CCECC/DASU-KKH-01/Slope Protection Shop D/RFDA/193R	Resubmission of Typical sections for Slope Protection at KKH-01	04-Nov-22	Approved
08-Nov-22	CCECC/DASU-KKH-01/S.P X-Section/RFA/237R	Resubmission of work done cross sections for slope protection of KKH-01 K1+606.25 to K1+775.00	10-Nov-22	Approved Except as Noted
19-Nov-22	CCECC/DASU-KKH-01/DOGAH/RFDA/212	submission shop drawing of Dogah tunnel entrance & exit portal (K22+413.22 ~ k23+655)	20-Nov-22	Revise and Resubmit
20-Nov-22	CCECC/DASU-KKH-01/M.S/RFA/081	submission of method statement for RCCP (Roller compacted concrete pavement ) for khushee access road improvement	24-Nov-22	Revise and Resubmit
23-Nov-22	CCECC/DASU-KKH-01/DASU-02/RFDA/206R	Revised and submission work done drawing of LOGRO-A tunnel entrance (K9+140 ~ K9+152)	25-Nov-22	Approved Except as Noted
23-Nov-22	CCECC/DASU-KKH-01/DASU-02/RFDA/208R	Revised and submission work done drawings for front slope protection & advance supporting work dasu-02 tunnel (K4+624)	25-Nov-22	Approved Except as Noted
23-Nov-22	CCECC/DASU-KKH-01/DASU-02/RFDA/213	submission of shop drawings for dasu-02 tunnel (K4+500 ~ K4+580)	26-Nov-22	Approved
28-Nov-22	CCECC/DASU-KKH-01/M.S/RFA/081R	Submission of Method Statement for R.C.C.P (Roller Compacted Concrete Pavement) for Khushee Access Road Improvement	28-Nov-22	Revise and Resubmit
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)		Under review
30-Nov-22	CCECC/DASU-KKH-01/LOGRO-A/RFDA/214	Submission of shop Drawings for LOGRO-B Tunnel (K11+880-K11+925)		Under review

## B) KKH-02

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

### 1) Major Activities

- Excavation and blasting at K47 access road.
- Excavation works at K31, K28, K34 and K36 access roads have been completed and Contractor is caring out the excavation works of main KKH-02 alignment.
- Area for temporary spoil dumps and temporary facilities at Looter has been identified and handed over to the Contractor.
- Request for removal of houses inside and below the KKH-02 has been forwarded to the Employer.
- Security Check Post has been completed and ready for hand over 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 workdone 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.

## C) RAR-01 Team

### 1) Major Activities

- Joint inspection for excavation and preparation rooms for contractor's camp at zaal area.
- Joint inspection with RE, ARE & Employer to Komila bypass inspection and social issue regarding protection at K1+860.
- Joint inspection with RE, Employer for structure and protection works for local house around K1+700 & K1+800 etc dated November 12, 2022.



- Engineer instruction issued to Contractor for end point junction komila Bypass dated November 23, 2022.
- Site inspection sliding material on B/wall at Komila bypass start section dated Nov 25, 2022.
- Letter issued to Employer regarding completion of Komila bypass dated Nov 25, 2022.
- Letter issued to Contractor regarding Joint site visit to Komila bypass dated Nov 28, 2022.
- Letter issued to Contractor regarding Uncontrolled blasting at Komila end section dated November 29, 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
01-Nov-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/53R	Resubmission of retaining wall shop drawing along with plan and elevation from K1+958.70 to K1+987.50	07/Nov/2022	Approved Except as Noted
01-Nov-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/49R	submission of revised alignment along with plan profile and x section from K1+693.75 to K1+787.50	02/Nov/2022	Approved
02-Nov-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/55	Submission of Breast wall Shop Drawing from K0+075.00 to K0+150.00	06/Nov/2022	Approved Except as Noted
03-Nov-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/54R	Submission of Revised x-section At K0+000 Area Along With Plan.	10/Nov/2022	Approved Except as Noted
04-Nov-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/56	Submission of Causeway Shop Drawing Along with Plan and Elevation From K0+925 to K0+950	06/Nov/2022	Revise and Resubmit
07-Nov-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/57	Submission of Retaining wall shop Drawing along with Plan And Elevation from K0+290.79 To K0+297.46	07/Nov/2022	Approved
14-Nov-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/53R	Resubmission of retaining wall shop drawing along with plan and Elevation from K1+958.70 to K1+987.50	23/Nov/2022	Approved Except as Noted
18-Nov-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/43R	resubmission of X-section along with plan & profile from K2+325.00 to K2+287.50	26/Nov/2022	Approved
18-Nov-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/56R	Resubmission of causeway shop drawing along with plan and elevation form K0+925 to K0+950	20/Nov/2022	Not Approved
18-Nov-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/58	resubmission of X-section along with plan & profile from K2+181.25 to K2+325.00	26/Nov/2022	Approved
19-Nov-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/59	submission of retaining wall shop drawing along with plan and elevation from K0+354.50 to K0+373.70	22/Nov/2022	Approved
20-Nov-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/60	submission of typical for short create from K1+725 to K1+950	22/Nov/2022	Approved Except as Noted
22-Nov-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/56R1	Resubmission of causeway shop drawing along with plan and elevation form K0+925 to K0+950	23/Nov/2022	Approved Except as Noted
24-Nov-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/56R2	Resubmission of causeway shop drawing along with plan and elevation form K0+925 to K0+950	24/Nov/2022	Approved
24-Nov-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/61	submission of retaining wall shop drawing along with plan and elevation from K0+928.48 to K0+939.00	24/Nov/2022	Approved
24-Nov-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/54R1	submission of revised shop drawing at K0+000 area along with plan and X-section	24/Nov/2022	Approved Except as Noted
25-Nov-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/53R2	resubmission of retaining wall shop drawing along with plan and elevation from K1+958.70 to K1+987.50	25/Nov/2022	Approved Except as Noted
28-Nov-22	CCECC/DASU-RAR-01/Komila bypass/RFDA/62	Submission of Retaining wall Shop Drawing Along with Plan and Elevation from K0+062.50 To K0+093.75	28/Nov/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 at K32+800 and access roads in Kandia.
- 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 provision of coordinates and GIS imaginary of tower locations T-109 and T-111A.
- Prepared the letter regarding invitation for meeting with NTDC on terminal tower location.
- Prepared the letter regarding construction of boundary wall (Block Masonry) around Grid Station.
- Prepared the letter regarding slow progress at Grid Station.
- Prepared the letter regarding preliminary report on Neelum Jhelum Generators.
- Prepared the letter regarding commercial proposal of power supply system for Uchar 1 # batching plant and 1 # crushing plant.
- Prepared the letter regarding request for Cables manufacturer approval of MS Newage cables for WAPDA project colony PCI-01R.
- Prepared the letter regarding request for Switches Supplier Approval of MS TJ Switches Manufacturer & Supplier PCI-01R.
- Prepared the letter regarding submission of Engineer's Estimate - Diesel Generator Set for Project Office PCI-01.
- Prepared the letter regarding procurement of Cables and Conductors for the Wapda Project Colony.
- Prepared the letter regarding delay in External Electrification work for the Wapda Project Colony.
- Prepared the letter regarding submission of Engineer's Estimate and Technical Specifications (Solar Power supply).
- Prepared the letter regarding request for Cables Supplier Approval of MS Allied Cables Manufacturer & Supplier for the WAPDA Project Colony PCI-01R.

**2) Meetings:**

- Weekly Progress Review meeting with Contractor and Employer held on 23<sup>rd</sup> November, 2022.
- Overall Progress review meeting of TL-01 with WAPDA Advisor and Contractor held on 24<sup>th</sup> November, 2022.
- Attended meeting in Neelum Jhelum project for shifting HFO plant to Dasu site held on 2<sup>nd</sup> and 3<sup>rd</sup> November, 2022.

**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
4-Nov-22	CGGC/MW-01/RFDA/DHC-463	A3-2 Adit Tunnel Blasting Design-(D1)	18-Nov-22
5-Nov-22	CGGC/MW-01/RFDA/DHC-464	The Typical Section Drawing of Upstream Starter Dam-(D3)	7-Nov-22
12-Nov-22	CGGC/MW-01/RFDA/DHC-465	The Typical Section Drawing of Upstream Starter Dam-(D4)	14-Nov-22
12-Nov-22	CGGC/MW-01/RFDA/DHC-466	Flushing Tunnel LB Traffic Diversion Scheme D/S Portal Concrete Outline-(D2)	
18-Nov-22	CGGC/MW-01/RFDA/DHC-467	The Typical Section Drawing of Upstream Starter Dam-(D5)	21-Nov-22
25-Nov-22	CGGC/MW-01/RFDA/DHC-468	The Electrical Layout Plan & Fire Alarm System & Earthing system Design Dwg of Uchar Power Station	

**Method Statement**

Received Date	Letter Number	Title	Reply Date
23-Nov-2022	CGGC/MW-01/TD/DHC-2639	Submission of MS of the pouring of the Diversion Tunnel Embedded Sill Second Stage Concrete	November-25-2022
11-Nov-2022	CGGC/MW-01/TD/DHC-2610	Submission of the A3-2 Construction Adit Excavation and Supporting Method Statement	

**NCR**

NO NCR issued during the Month of October-2022

### Engineer's Instruction

Received Date	Letter Number	Title	Reply Date
25-Nov-2022	DHC/Dasu/MW-01/EI/22-024	Revision Wall Located Downstream Gate Slot	
12-Nov-2022	DHC/Dasu/MW-01/EI/22-023	Fence Construction around the Disputed areas of Kass Camp	

#### b) MW-02

##### 1) General

- The Engineer reviewed the mix design and test result reports for CVC Concrete and Shotcrete with Low Alkali Cement and Sobute WRA and commented accordingly.
- The Contractor was responded that if the vehicle is owned by the Contractor, then the cost of installing of seat in the rear body of vehicle would be at the Contractor expense, Pursuant to subclause 11.3, 11.9 and 14.9 of Chapter 10; General Requirement; General and Environmental Specifications.
- The Contractor was reminded that the Contractor must have to improve the ventilation system within the underground powerhouse complex and should submitted a detail ventilation plan as per Engineer Comments.
- The Contractor was advised to extent the advance payment Guarantee up to 18th June 2026 as per subclause 14.2 [advance payment] (GC).
- The Engineer issued the GIL Tunnel excavation and support drawing.
- The Contractor was informed regarding claim for additional ventilation equipment that should deem necessary to improve the air conditions in the underground powerhouse complex has no merit due to defects and failures to provide an adequate system as advised and instructed by the Engineer.
- The Contractor was instructed to review the report and should ensure all the details are correctly recorded and should resubmit for the Engineer review.
- The Contractor was requested to review the comments and resubmit the Contract Programme R5 -D11 based on Engineer Comments until 23rd November 2022.
- The Contractor was instructed to submit the proposal of approvable laboratory for the Engineer Consideration.
- The Interim Payment Certificate No # 32 was issued by the Engineer.
- The Engineer issued the Switchyard Compound and Embankment excavation and support drawing.

##### 2) 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-421	Surge Chamber Dome Blasting Design	EAC-22-051	19-Nov-22
CGGC/MW-02/RFDA/DHC-422	CT2 Adit Tunnel Niche Excavation Supporting Details	EAC-22-052	21-Nov-22
CGGC/MW-02/RFDA/DHC-423	Tailrace Tunnel No. 1 & 2 Transition Excavation and Supporting Drawings (D1)	EAC-22-053	23-Nov-22
CGGC/MW-02/RFDA/DHC-424	No.1 Surge Chamber Excavation and Support (D4)	EAC-22-054	25-Nov-22
CGGC/MW-02/RFDA/DHC-425	Junction of Tailrace Tunnel No.1 & 2 Transition and Adit Tunnel CT1 Excavation and Support (D1)	EAC-22-055	25-Nov-22
CGGC/MW-02/RFDA/DHC-426	Blasting Design of Exhaust Shaft (D4)	EAC-22-056	26-Nov-22

##### 3) Issued Engineer Instruction

The Engineer issued the following Site Instructions (SIs).

Location	Subject	EI No.	Issue Date
Transformer Cavern	Transformer cavern crown (I-1, I-2,I,-3)Reinstalment of detached shotcrete support ch.0+08~0+35,0+60~0+85,0 0+150~0+180	22-072	24-Nov-2022
Switchyard Compound	Switchyard Compound Re-execution of Damaged Shotcrete Support Left & Right Side of Drainage Channel EI: 970.0~960.0	22-073	26-Nov-2022

##### 4) NCR Issued by Engineer

The Engineer issued the following NCR.

Location	Subject	NCR No.	Issue Date
Nil	Nil	Nil	Nil



**5) Site Supervision for Construction Activities**

- Installation of Rebar Mesh for Additional Support within Powerhouse Cavern
- Excavation for 2nd Bench Central portion of Powerhouse Cavern. (Commenced 25 Sep. 2022).
- Excavation for 2nd Bench (Central portion including both and Left side walls Enlargements) of Powerhouse Cavern was Completed on 28th November 2022.
- Excavation for 2nd Bench Central portion of Transformer Cavern was in progress. (Commenced 25 Sep. 2022).
- Excavation for 2nd Bench (Central portion including both and Left side walls Enlargements) of Transformer Cavern was Completed on 21st November 2022.
- Installation of Rebar Mesh for Additional Support within Transformer Cavern.
- Installation of PS Tendon within Powerhouse Cavern was in progress.
- Trail Test for PS Tendon was in progress in Transformer Cavern with different bond length.
- 5th Bench slope Excavation and Support work of both left and Right Side at EL.970m to 957m 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 and manual Mucking 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 23rd November 2022.
- SCVAT 1 and SCVAT 2 Gallery Excavation and Support was in progress.

**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 responded Extension of Workmen Insurance Policy LBRV-11 dated 1<sup>st</sup> Nov 22.
- The Engineer responded regarding the Claim LBRV-11-C-10-The Engineers Response to Contractors 3<sup>rd</sup> Interim Idle Cost Claim (March 2022-October 2022).LBRV-11 dated 7<sup>th</sup> Nov 22.
- The Engineer responded regarding the Extension of Performance Security LBRV-11 date 13<sup>th</sup> November 2022.
- The Engineer Responded regarding the Second Extension of Time for LBRV-11 Contract dated 15<sup>th</sup> November 2022.
- The Engineer responded regarding Extension of Workmen Insurance Policy dated 16<sup>th</sup> Nov 22.
- The Engineer responded regarding the Extension of Performance Security dated 20<sup>th</sup> Nov 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 responded regarding the Extension of Performance Security.LBRV-12 dated 7<sup>th</sup> November 2022.
- The Engineer responded regarding the Second Extension of Time for LBRV-12 Contract dated 15<sup>th</sup> November 2022.
- The Engineer Responded regarding the Extension of Workmen Insurance Policy dated 18<sup>th</sup> November 2022.
- The Engineer responded regarding Extension of Performance Security dated 20<sup>th</sup> Nov 2022.

**c) RV**

- The Engineer responded to the Request for Extension of performance Security Guarantee date 1<sup>st</sup> November 2022.
- The Engineer instructed the contractor regarding Development of Plots and Road from 0+280 to 0+413.RV date 11<sup>th</sup> November 2022.

- The Engineer informed the contractor regarding the Price Adjustment Formula dated 16<sup>th</sup> November 2022.
- The Engineer responded regarding the Changes in the Contract Price - Clause 37 dated 16<sup>th</sup> November 2022.
- The Engineer responded to the Extension of the Contractor's Insurance Policies dated 24<sup>th</sup> November 2022.
- The Engineer responded regarding the Extension of the Contractor's Insurance Policies dated 26<sup>th</sup> November 2022.

**d) Project Colony – PCI-01R**

- The Engineer instructed the contractor for Resumption of Construction Work at Main Septic Tank-A in Project Colony Near KKH-01 dated 3<sup>th</sup> November 2022.
- The Engineer verified Interim Payment Certificate No.35 (Revised).PCI-01R dated 4<sup>th</sup> Nov 2022.
- The Engineer made Approval of Base Course Material PCI-01R dated 2<sup>nd</sup> November 2022.
- The Engineer responded regarding the Approval of Sand from M-S ZKF Enterprise Limited.PCI-01R dated 2<sup>nd</sup> November 2022.
- The Engineer instructed the contractor regarding installation of Window Safety Grills in Colony Buildings.PCI-01R dated 5<sup>th</sup> November 2022.
- The Engineer instructed the contractor regarding the Provision of Railings Channels for Drawers of Wardrobe (Woodwork) for Residence Category-1 Buildings.PCI-01R dated 6<sup>th</sup> Nov 2022.
- The Engineer made Approval of Shop Drawings for Boundary Wall in Residence Category-2 and Cat-3 Buildings.PCI-01R dated 6<sup>th</sup> November 2022.
- The Engineer asked the Employer regarding Replacing Asphalt Surface with Concrete Surface for Main Road and Steep-Gradient Roads of Project Colony.PCI-01R dated 10<sup>th</sup> Nov 22.
- The Engineer responded regarding the Slow Progress and Insufficient Resources at Available Work Fronts to Complete the Project Colony.PCI-01R dated 9<sup>th</sup> November 2022.
- The Engineer responded to the contractor, s Request for Cables Manufacture Approval of MS NEWAGE CABLES for the WAPDA Project Colony.PCI-01R dated 9<sup>th</sup> November 2022.
- The Engineer responded regarding the Delay in Provision of Color Shade Codes for All MS Works and Boundary Wall of All Remaining Buildings.PCI-01R dated 9<sup>th</sup> November 2022.
- The Engineer Replied to Notice for Delay in Provision of Additional Rainwater Drainage System Drawings for the Residence Category-2.PCI-01R dated 10<sup>th</sup> November 2022.
- The Engineer Replied to Instructions to Commence the Varied Works for Slope Protection at Choochang-1 Resettlement Village dated 11<sup>th</sup> November 2022.
- The Engineer responded regarding the Provision of Elevators I Lifts in Project Office and Installation of MS Grill at Back Side of Residence Category-1 for Privacy Dated 12<sup>th</sup> Nov 22.
- The Engineer responded regarding the Erosion of Areas between the Colony Boundary Wall and the KKH-01 Dated 12<sup>th</sup> November 2022.
- The Engineer responded Contractor's Cost Proposal for Temporary Water Supply Arrangement for Project Office and Residence Category-01 Dated 13<sup>th</sup> November 2022.
- The Engineer responded made Approval of Sub Base Material, PCI-01 R dated 14<sup>th</sup> Nov 22.
- The Engineer responded regarding the Spoil Dumping Area for Excavated Material of Slope Protection Works at RV Choochang 01 site PCI-01R dated 17<sup>th</sup> November 2022.
- The Engineer issued Notice of Force Majeure under GCC Sub-Clause 19.2 for Blockage of Main KKH dated 20<sup>th</sup> November 2022.
- The Engineer responded to contractor's Request for Switches Supplier Approval of MS TJ SWITCHES Manufacturer & Supplier PCI-01R dated 21<sup>th</sup> November 2022.
- The Engineer Comments on 2<sup>nd</sup> Extension of Time (EoT -2) of PCI-01 R Contract Dated 22<sup>nd</sup> Nov 22.
- The Engineer responded to Submission of Engineer's Estimate - Diesel Generator Set for Project Office PCI-01 Dated 22<sup>th</sup> November 2022.
- The Engineer reminded the contractor regarding the Procurement of Cables and Conductors for the Wapda Project Colony Dated 23<sup>th</sup> November 2022.
- The Engineer responded regarding the Delay in External Electrification work for the Wapda Project Colony Dated 24<sup>th</sup> November 2022.
- The Engineer informed the Employer regarding the Submission of Engineer's Estimate and Technical Specifications (Solar Power Supply) Dated 24<sup>th</sup> November 2022.

- The Engineer asked the Employer regarding the Khyber Pakhtunkhwa Provincial Sales Tax on Services Adjustment for Changes in legislation dated 25th November 2022.
- The Engineer Noticed of Force Majeure under GCC Sub-Clause 19.2 for Blockage of Main KKH dated 26th November 2022.
- The Engineer responded to Request for Cables Supplier Approval of Ms Allied Cables Manufacturer & supplier for the WAPDA Project Colony PCI-01R dated 26th Nov 2022.
- The Engineer responded to Use of Immature Concrete Blocks in Masonry Works PCI-01R dated 28th November 2022.
- The Engineer Responded to Contractors Notice of force Majeure Under Sub-Clause 19.2 Due to Non-Availability of Diesel in the Market Under Sub-Clauses 8.3 8.4 19 and 20.1.PCI-01R Dated 29th November 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
1-Nov	CGICOP/DASU/PCI-01R/RFDA/654 Rev.01	Submission of the shop drawing for the underground box culvert at main gate area of the P1 Road	5/11/2022	approved
2-Nov	CGICOP/DASU/PCI-01R/RFDA/659	Submission of the Revised Res Cat 2 underground service cable general layout plan with & cable trenches	5/11/2022	approved
3-Nov	CGICOP/DASU/PCI-01R/RFDA/660	shop drawing for the supportive boundary wall at p1 ROAD SIDE	6/11/2022	approved
3-Nov	CGICOP/DASU/PCI-01R/RFDA/303. R4	submission of water supply system P1 road main water supply line for hospital rest house and security office	7/11/2022	approved as noted
5-Nov	CGICOP/DASU/PCI-01R/RFDA/658 R.01	Submission of the proposed shop drawing for the strip footing for boundary wall around the Res Cat 2B	20-11-2022	Approved
8-Nov	CGICOP/DASU/PCI-01R/RFDA/661	submission of typical drawing of sewerage system internal manholes for security guard rooms check post building	16-11-2022	Approved
11-Nov	CGICOP/DASU/PCI-01R/RFDA/662	submission of the proposed drawing of the strip footing for the boundary wall around the residence cat-2C	13-11-2022	approved
14-Nov	CGICOP/DASU/PCI-01R/RFDA/663	Submission of shop drawing of S1a road level slope change toward transport pool area in order to avoid ramp slop for main entrance of the transport pool area	15-11-2022	approved
14-Nov	CGICOP/DASU/PCI-01R/RFDA/664	bar bending schedule for strip footing +plinth beam+columns of boundary wall cat-2A		
16-Nov	CGICOP/DASU/PCI-01R/RFDA/665	submission of the shop drawing of the kerbstone at wapda project office outer plot and transport pool area along with side slopes	16-11-2022	approved as noted
17-Nov	CGICOP/DASU/PCI-01R/RFDA/666	Submission of the shop drawing of the outer plote level of the Residence cat-1 and 2 (phase A) Area	20-11-2022	approved as noted
19-Nov	CGICOP/DASU/PCI-01R/RFDA/667	Submission of the shop drawing of the sluice valve chamber reinforcement detail	20-11-2022	approved as noted
20-Nov	CGICOP/DASU/PCI-01R/RFDA/668	Request of shop drawing for the layout of outside stairs detail for the residence cat-2 and 2A	21-11-2022	approved as noted
21-Nov	CGICOP/DASU/PCI-01R/RFDA/669	Submission of the shop drawing for the layout outside stairs detail for the Res Cat 2B 2C & 2D	21-11-2022	Approved
21-Nov	CGICOP/DASU/PCI-01R/RFDA/670	Submission of the shop drawing for the internal electrification for security	30-11-2022	Approved
26-Nov	CGICOP/DASU/PCI-01R/RFDA/671	Submission of the shop drawing for the proposed of the striar footing for the boundary wall around the Res Cat 2D	30-11-2022	Approved
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		
29-Nov	CGICOP/DASU/PCI-01R/RFDA/672	Submission of the bar bending schedule for Res cat 2B		
29-Nov	CGICOP/DASU/PCI-01R/RFDA/673	Submission of the bar bending schedule for Res cat 2C		
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		

### 3.4.7 EM-01

The major activities undertaken during this month were:

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

##### i. General

- The Work was suspended due to local disruption as the per datum of the diem dated 10<sup>th</sup> August 2022 to till Date.

##### 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 November 2022 become 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 November, 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 will correspond to 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 transport 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 deign. At this moment the design work of transmission line protection system has been suspended.

**iv. Review of Inspection Report**

The Contractor has submitted the inspection report on miscellaneous materials. DHC will issue the inspection certificates for verification of payment requirements.

**v. 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.

**vi. 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, ME-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) Independ 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 advise 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.

**vii. 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
21-Oct-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0403	General technical description for equipment earthing	01-Nov-22	
27-Sep-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0322	Modification the doc. Status of generators PID.	01-Nov-22	
02-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0422	Clarification of applicable contract provision for changing coordination events.	04-Nov-22	
17-Oct-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0398	Generator collector ring cover and carbon dust suction cover.	01-Nov-22	
24-Oct-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0397	Confirmation request for manufacturing and delivery schedule adjustment and way forward due to change of coordination events.	03-Nov-22	
02-Sep-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0331	Mechanical drawing of 440t/60t powerhouse overhead crane.	04-Nov-22	
03-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0420	Notice for claim due to change of coordination events.	05-Nov-22	
03-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0426	Permission to deliver pipes and accessories.	08-Nov-22	
03-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0410	Further clarification on labor index in the Contract price adjustment.	08-Nov-22	
08-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0432	Deduction of taxes from Contactor's invoices	09-Nov-22	
10-Jun-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2021-0195	Claim No. EM-01/C-02 Contractor's final claim report for delayed handing over of camp area (4.442 ha).	10-Nov-22	
23-Sep-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0357	Revised 11kV single line diagram (Rev. B).	10-Nov-22	
02-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0424	Reply on No. 0424 and operator console layout.	12-Nov-22	
07-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0416	Clarification of unit cooling water system.	11-Nov-22	
02-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0424	Turbine auxiliary panel and shaft seal water filter layout.	12-Nov-22	
10-Oct-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0385	Approval of temporary storage space at Gazi Barotha power complex for E&M equipment of Dasu HPP.	14-Nov-22	
03-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0425	Employer's inspection certificate No.5 for pipes and accessories.	16-Nov-22	
04-Nov-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0428			
06-Sep-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0335	Request for clarification on communication protocol.	16-Nov-22	
08-Sep-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0343	Dasu Submission for technical measures for installation	18-Nov-22	
		Design drawings of turbine embedded and exposed piping	22-Nov-22	
26-Sep-22	Dasu-EM-01-LET-JV-WAPDA/DHC-2022-0362	Spare parts list of CSCS system.	24-Nov-22	

Received Date	Letter/Reference Number	Title	Reply Date	Remarks
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) Meetings with Contractors

Monthly meeting for month of October on 2<sup>nd</sup> of November 2022. "The Engineers" instructions were discussed in detail and new points regarding non-compliances were added to the Minutes of meeting and WTEIR.

##### ii) Meeting with MSC Consultants

A meeting was called upon by Project Manager MSC on 14<sup>th</sup> November 2022 in their office regarding Formats of the reports by the DHC, the formats of the contractors. The effect monitoring should be added to

##### iii) Meeting with CGGC

A meeting was conducted with CGGC HSE staff dated: 28<sup>th</sup> of represented by Mr. Izhar and Mr. Asad to discuss the status of pending environmental issues. Deadline was provided to the contractor for compliance.

##### iv) 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 November 2022, was held on 30<sup>th</sup> November 2022 with all contractors except TL-01. Pending issues were discussed and new environmental non-compliances were also part of the discussion. Minutes of Meeting was prepared and issued to all contractors.

##### v) Letter sent to contractors and WAPDA

Sr. No.	Subject	Date
1	Letter to KKH-01 contractor on Water Quality Monitoring Resumption	16-11-2022
2	Letter to SGS for getting Quotations for Additional parameters	11-11-2022
3	Letter to contractor regarding training on communicable diseases especial focus on HIV	10-11-2022
4	Letter to WAPDA regarding Sedimentation Tank at CT-02	09-11-2022
5	Reviewed CEAP and Comments sent on of RAR-02	21-11-2022

#### 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 November, 2022.

(b) **Environmental supervision:** Environmental supervision were conducted for both contracts of CCECC. At KKH-01 the environmental non-compliances like inadequate housekeeping, littering, minor Oil spill, improper washrooms facility for labours, dust and

improper spoil 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 October was conducted on 30<sup>th</sup> November 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 on the submission of the monthly progress report format as well as how to induct tables on the RAR-02 Monthly Progress Report dated 25<sup>th</sup> of November 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 main 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 for rectification of the non-compliances i.e. Toilet Commodes with Flushing system and Septic tanks are still missing in Kandia site labor camp, minor oil spill, littering, 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 02<sup>nd</sup> November 2022. All issues relating to previous months agreed actions as well as environmental non-compliances identified WTEIR's were discussed in monthly meeting.

## **2.3. TL-01**

- (a) **Environmental supervision:** The construction work is currently 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 30<sup>th</sup> November 2022. The contractor did not showed 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 some pending issues on which 9 NCR's has

**Environmental supervision:** Daily supervisions were conducted to ensure been issued in the month of November 2022 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 30<sup>th</sup> November 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 24<sup>th</sup> November 2022. All agreed parameters of wastewater were within NEQS limits except the pH values at some wastewater ponds. The pH value at Uchaar crushing plant sedimentation pond was 11.1, at Uchaar Batching plant sedimentation pond was 11.4, outlet of CT-02 was 11.7, at adit-1 was 10.8, CR-09 Batching plant sedimentation pond was 11.2. The Spot Monitoring was not conducted at MAT sedimentation pond because it was full of sediments and cleaning was required. 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 addition of dilute acid to lower the pH.

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

Air dispersion modelling team was mobilized at the Seo crusher plant's proposed site in Seo village and started monitoring for air dispersal modelling from 1st November 2022 which continued up till 22<sup>nd</sup> of November 2022. Air diffusion tubes have been installed on 22<sup>nd</sup> November 2022 at the locations where Air quality monitoring have been conducted. The diffusion tubes will be installed for two weeks' time and after removing the tubes will be sent to England for analyzing. This process will be completed by end of December 2022 of beginning of January 2023.

**2.5. LBRV-11 and LBRV-12**

(a) **Environmental supervision:** The Construction activities are meager i.e., Slope stabilization, Water Tank Boundary Demarcation. The status is still as it is due to recent floods as all of the LBRV contractor Zhongmei Camp was washed away in the floods of July & Aug 2022.

**2.6. PCI-01R**

(a) **Environmental supervision:** Environmental supervisions were carried out during the month and environmental observations were noted which were sent to the contractor through walkthrough environmental inspection reports. Non-compliances regarding use of fuel wood by FC staff, minor oil spills, solid waste littering and inadequate housekeeping issues were discussed with the contractor.

(b) **Monthly meetings:** The monthly environmental progress review meeting was conducted on 30<sup>th</sup> November 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. Joint Inspection of EHS Teams of WAPDA and DHC**

In the month of November it was mutually agreed between EHS Teams of WAPDA and DHC on 11<sup>th</sup> of Nov 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	MW-01	15 Nov 2022	Done
02	MW-02	22 Nov 2022	Done
03	KKH-01	29 <sup>th</sup> Nov 2022	Done

All Non-compliance were noted at site and immediately conveyed to the relevant contractor EHS Managers who were accompanying the inspection team. If some issues were long time pending then those issues were conveyed through the WTEIR.

**4. Non-Conformance Report (NCR) Issued in Month of November 2022**

There were 13 NCR's issued to different Contractors in this month of November 2022.

Following Table shows the status of the NCR issued with date.

Sr. No.	Contract	Subject	Issuance Date
1	MW-01	Failure to Hire & Mobilize Environmental Officer	06/11/2022
2	MW-02	Failure to Hire & Mobilize Environmental Officer	06/11/2022
3	MW-01	Failure to Keep Conformance with NEQS of Waste Water	07/11/2022
4	MW-02	Failure to Keep Conformance with NEQS of Waste Water	07/11/2022
5	MW-02	Use of Chemical Drums for storage of Water & Onward Human Consumption	07/11/2022
6	PCI-01R	Failure to produce License for Fuel Storage	07/11/2022
7	KKH-02	Failure to Hire & Mobilize Environmental Officer	08/11/2022
8	TL-01	Failure to Hire & Mobilize Environmental Officer	10/11/2022
9	MW-01	Failure to submit remaining CEAP Plans	12/11/2022
10	MW-02	Failure to submit remaining CEAP Plans	12/11/2022
11	MW-02	Modification in sedimentation tank Near Adit-03	19/11/2022
12	KKH-01	Improper spoil disposal at Uchaar Nullah area.	20/11/2022
13	MW-01	Delay in Quarterly Water Quality Monitoring	22/11/2022

**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:

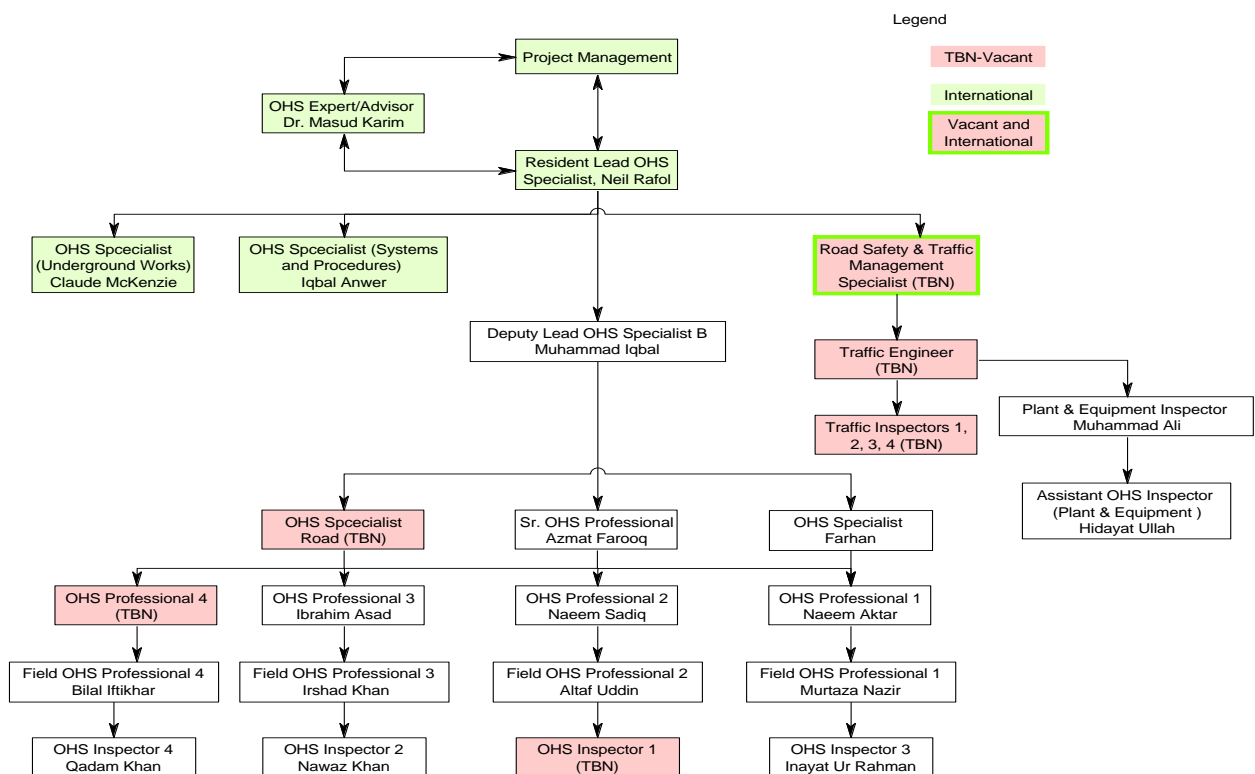


1. Advise the Contractors in finalization of an effective OHSMP in compliance with additional provisions in EMAP;
2. Enhanced OHS supervision of all Contractors OHSMP implementation;
3. Implementation of gap analysis tool for underground works;
4. Finalization of Project level Emergency Response and 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

Figure below presents the organization chart of DHC OHS section. A number of positions are vacant and in the process of filling them.



**Figure: OHS organization diagram**

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 (November 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 November 2022. However, no land was acquired during the reporting month (November 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 (November 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 November 2022). No cheque was paid during November 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 November 2022, a total amount of PKR 78,884,437/- has been paid as TRP to 288 AHHs of 13 components. In addition to HHHs, 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 November 2022, an amount of Rs. 2,554.70 Million have been paid as ESMR allowance to 731 Affected Households.
  - v. File preparation work remained in progress. The SMR Working Team remained engage in preparing the remaining files of priority villages during the reporting month.
  - vi. By the end of reporting month (November 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 engage 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 involve 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. The case for the purchase of two ambulances for health department Kohistan (upper) has approved by the Authority in its meeting held on November 18, 2021. Total Budget is 20 Million PKR.
  - ii. 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.
  - iii. Gender Specialist finalized the Gender Awareness and Sensitization Handbook to be used in upcoming workshops for approval.
  - iv. 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.
  - v. The Communication Team remained engage in public dealing and sharing information regarding Dasu HPP with local community and general public through Public Information Centre (PIC) continued.
  - vi. Distribution of already published information material continued among the affected communities in the project area.
  - vii. The IGRC team updated the GRC status for the month and carried out meetings for resolving the pending complaints,
  - viii. The IMM team organized workforce data received from all contractors and other stakeholders. A total 4,164 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 involve to keep record of Kass 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 85 % of MIS Development work has been completed by October 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. The Contractor [China Gezhouba Group co., Ltd.] submitted the updated schedule R4D13 for MW-01 works, which is under review with the Engineer. The Engineer is also examining the Revised Schedule of Diversion Tunnel and Starter Dam R1-D1 for MW-01 works.
- ii. The Contractor [China Gezhouba Group co., Ltd.] submitted the updated schedule R5D12 for MW-01 which is under review with the Engineer.
- iii. The revised scope of works were prepared considering the omission of non-handed over sites of LBRV-11,12 and Dasu RV Contracts.
- iv. Extension of Time (EoT-2) for MW-02 contract has been prepared and is under finalization sage. The EoT will be submitted to the Employer soon.
- v. The Contractor (CGICOP) of the Project Colony submitted a 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.
- vi. Progress updates and reasons of delay in the construction of all contracts were prepared for the revision of the Planning Commission Report (PC1).
- vii. Gantt Charts of critical activities and weights of each Contract was prepared for the Employer.
- viii. Presentations regarding progress updates and project issues were prepared 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.
- ii. **Approval of the material sources and manufacturers:** The submitted documents and certificates 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 petrographic **analysis** and Alkali contents have been measured in the third-party laboratory. The evaluation of the test results of the Pozzolan is ongoing. In the scope of Colony construction work, the approval process of the proposed source for the sub-base has been completed. A rock sampling from the traffic diversion tunnel in the scope of the main works has been performed. KB steel and Frontier Foundry manufacturers has been evaluated for Main Works and KKH-01, respectively. Shangdong Tianren Tunnel Material Company has also been evaluated for rubber, plastic pipes and Geo-synthetic material in the scope of KKH-01&RAR-01 works. The Gabion Sack Manufacturer has been commented again during this month. A Natural Processing plant inspection has also been performed in the scope of main works.



- 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 November month. In the scope of KKH-01 works, the CCECC Contractor has been requested again (during the above-mentioned meeting) to improve its quality control organization and submit periodic quality control reports per the contract.
- 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 mixes with different admixture products are being tested at the site in the scope of Main Works. The aggregate production rate measurement has been performed at the Uchar crushing plant (MW-01&MW-02). The proposed field trial test method for execution of the Starter Dam has been performed again, and relevant staffs are being trained to perform the field density test as per ASTM D 5030 Standard in the scope of MW-01 work. The uniformity test of the concrete production has been done at the field to control the adequacy of the mixing time of the batching plant.
- 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 3<sup>rd</sup> party laboratory test results are regularly being evaluated for Main works. The petrographic analysis and the latest test results of the proposed natural pozzolan performance (56 days) have been evaluated. 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. Weight calibration of CR9 batching plant has been performed this month. The Contractor (CGGC) should hire a well-experienced laboratory technician and Engineer 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, taken Rock and aggregate samples (for petrographic analysis and Alkali-Silica Reactivity Tests) from the traffic diversion Tunnel, 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.
- 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 method statement of RCC Field Trail Placement (FTP) has been sent and is under review of the Engineer (The QA/QC section comments have been submitted to the MW-01 section). 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 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. For execution of FTP the completion of crushing plant is needed. The aggregates should be crushed with permanent crushing plant.

- 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 completed during this month. The Self Compacted Concrete (SCC) mix trials are ongoing. The L-Box, u-Box apparatuses have been made at the site laboratory and started to use in SCC mix trials. In KKH-01 works, the RCC mix design investigation of the access road pavement improvement to the Project Colony is ongoing. Finding suitable aggregate sources and other design parameters are being studied. The CCECC Contractor has proposed three sources for the RCC pavement aggregates. The CCECC is requested to send a test plan for the KKH-01 Bridges high-strength concrete mix design. The CCECC took some positive steps in empowering the QC staff but the coordination between Contractor departments should be improved. Ready-mix high strength grout/mortar evaluation from approved manufacturers has been performed.

- 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. the Engineer instructed the Contractor to make some improvements at the laboratory. In the scope of the MW-01&MW-02 works, Improvement has been carried out for the moisture cabinet and mortar mixing apparatus. In the scope of the KKH-01 works, the CCECC contractor is mobilizing its ZAL camp laboratory with afresh purchased apparatuses. In the scope of KKH-02 and the relevant Variation Order, the required additional laboratory equipment for execution of bridges and tunnels is being 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 +031           to Km 1+862  
Km 0+062       to Km 0+075  
Km+066         to Km 0+075.25

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

Km 0+00       to Km 0+018  
Km 0+062.5   to Km 0+081.25  
Km 0+125     to Km 0+135  
Km 0+290     to Km 0+297  
Km 0+299     to Km 0+297  
Km 0+825     to Km 0+9102.1

Km 1+039 to Km 1+056  
Km 1+081 to Km 1+083  
Km k 1+500. to Km 1+520  
Km 1+712.25 to Km 1+712.1  
Km 1+800 to Km 1+825  
Km 1+958 to Km 1+987

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

Km 0+075 to Km 0+150  
Km 0+350(Around)

- **Rock fill Embankment komila Bypass at:**

Km1+318.75 to Km1+356.25

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

- Joint Survey for shallow-hole and split blasting of access road RAR-02 left side KANDIA RD 0+070 to RD 0+190
- Joint Survey for shallow-hole blasting of main road RAR-02 at (RD 13+610 to RD 13+620
- Joint Survey for shallow-Hole and split Blasting for cable crossing foundation for RAR-02 at (Km 20+590.0) (DOGAH Right Bank)
- Joint Survey for shallow-Hole and split Blasting for cable crossing foundation for RAR-02 at (RD 20+590.0) EL825.0-842.0m (DOGAH Right Bank)
- Joint Survey for shallow-Hole and split Blasting at RAR-02 Ch.(RD 13+600.0-RD 13+610.0
- Joint Survey for shallow-Hole and split Blasting at temporary Access Road (Local) to RAR-02 (Km33+800.0~Km 33+830.0) Right side from KANDIA bridge
- Joint Survey for Boulder Measurement at Temporary Access Road (TR-01) to RAR-02 at Km 33+000
- Joint Survey for shallow-hole and split blasting of access road RAR-02 Right side KANDIA RD 0+040 to RD 0+060
- Joint Survey for shallow-hole blasting of RAR-02 main road RD13+570 to RD 13+580
- Demarcation of ROW RAR-02 at KANDIA nallah Km 32+400 to Km 32+600)
- Demarcation of ROW RAR-02 at KANDIA nallah Km 32+600 to Km 32+800)
- Joint Survey for shallow-hole and split blasting of access road RAR-02 Right side KANDIA Km 34+680 to Km 34+700
- Joint Survey for shallow-hole split blasting of RAR-02 Km13+600 to Km 13+610
- Joint Survey for shallow-hole and split blasting of access road RAR-02 left side KANDIA RD 0+540 to RD 0+580
- Joint Survey for shallow-hole and split blasting of access road RAR-02 left side KANDIA RD 0+360 to RD 0+370
- Joint Survey for shallow-hole and split blasting of access road RAR-02 Right side KANDIA Km 34+100 to Km 34+180
- Demarcation of tunnel 2 inlet and outlet at SHORI nallah for Geology investigation
- Joint Topographic Survey of access road RAR-02 Km 32+500 to Km 33+500 at KANDIA nallah
- Established Control Points at KANDIA nallah for RAR-02
- Joint Survey for shallow-hole split blasting of RAR-02 Km 13+580 to Km 13+590
- Joint Topographic Survey of access road RAR-02 Km 34+400 to Km 35+300 at KANDIA
- Joint Survey for shallow-hole split blasting of RAR-02 Km 13+590 to Km 13+600

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

- **Joint Survey Activities At K-4 Tunnel**

KM 9+178 to Km 9+ 179.2  
Km 9 +202 to Km 9+ 203

- **Joint Survey of Convergence points at**

LOGRO-A tunnel - A

- **Joint Survey Activities At K- 4 Tunnel**

Km 4+599 to Km 4+616.6

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

- Joint Survey for shallow-hole and split blasting of access road NO1 at RD 1+050 to RD 1+100 KKH-02



- Joint topographic Survey of KKH-02 access road Km 28+800 RD0+450 to RD1+430
- Joint Survey for shallow-hole blasting of main road KKH-02 at (Km 28+330 Km 28+360)
- Demarcation of tunnel inlet and outlet at SUMMER nallah for Geology investigation
- Joint Survey for shallow-hole split blasting of KKH-02 main road Km 36+400 to Km 36+460
- Joint Survey for shallow-hole split blasting of KKH-02 main road Km 33+550 to Km 33+545
- Joint Survey for shallow-hole blasting of KKH-02 main road Km 36+220 to Km 36+230
- Joint Survey for shallow-hole blasting of KKH-02 access road RD 0+012 to RD 0+023
- Joint Survey for shallow-hole blasting of KKH-02 main road Km 33+780 to Km 33+800
- Joint Survey for shallow-hole blasting of KKH-02 main road Km 33+520 to Km 33+540
- Joint Survey for shallow-hole & split blasting of KKH-02 main road Km 28+320 to Km 28+330
- Joint Survey for shallow-hole split blasting of KKH-02 main road Km 28+360 to Km 28+380)
- Joint Survey for shallow-hole blasting of KKH-02 main road Km 36+470 to Km 36+480
- Joint Survey for shallow-hole blasting of KKH-02 main road Km 28+320 to Km 28+360
- Joint Survey for shallow-hole blasting of KKH-02 main road Km 31+300
- Joint Survey for shallow-hole blasting of main road KKH-02 at (Km 36+460 Km 36+480)
- Joint Survey for shallow-hole blasting of main road KKH-02 at (Km 33+780 Km 33+810)
- Joint Survey for shallow-hole blasting of main road KKH-02 at (Km 36+480)
- Joint Survey for shallow-hole blasting of KKH-02 main road Km 28+350 to m 28+370
- Joint Survey for shallow-hole blasting of main road KKH-02 at (Km 31+060 to Km 31+120)
- Joint Survey for shallow-hole blasting of KKH-02 main road Km 28+630 to Km 28+800
- Joint Survey for shallow-hole blasting of KKH-02 main road Km 30+600 to Km 33+780
- Joint Survey for shallow-hole & split blasting of KKH-02 main road Km 28+330 to Km 28+370
- Joint Survey for shallow-hole & split blasting of KKH-02 main road Km 28+320 to Km 28+330
- Joint Survey for shallow-hole & split blasting of KKH-02 main road Km 33+520 to Km 33+540
- Joint Survey for shallow-hole blasting of main road KKH-02 at (Km 36+170 Km 36+180)
- Joint survey for shallow-hole & split blasting of access road at RD 0+055 to RD 0+060 at KKH02
- Joint Survey for shallow-hole blasting of main road KKH-02 at (Km 33+640 to Km 33+740)
- Joint Survey for boulder blasting of access road at RD 0+040 to RD 0+060 at KKH02
- Joint Survey for shallow-hole & split blasting of KKH-02 main road Km 33+770 to Km 33+785
- Joint Survey for shallow-hole & split blasting of KKH-02 main road Km 36+370 to Km 36+440
- Joint Survey for shallow-hole & split blasting of KKH-02 main road Km 28+290 to Km 28+310
- Marking of tunnel 2 inlet design elevation at SHORI nallah for Geology investigation

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

- Joint layout and excavation of internal septic tanks at category 2 part 1 and 2
- Joint layout and excavation of drain at S-1 road RD 0+010 to 0+160
- Joint layout and excavation of internal septic tanks at category 2 part 3 and 4
- Joint survey bed level of drain at S-1 road RD 0+010 to 0+160
- Joint layout and excavation of internal septic tanks at category 2 part 5 and 6
- Joint survey lean top level of drain at S-1 road RD 0+010 to 0+160
- Joint layout and excavation of internal septic tanks at category 2 part 7 and 8
- Joint survey class B top level of drain at S-1 road RD 0+010 to 0+160
- Joint survey bed level of internal septic tanks at category 2 part 1 and 2
- Joint layout and excavation of boundary wall category 2-A part 1 and 2
- Joint survey bed level of internal septic tanks at category 2 part 3 and 4
- Joint layout and excavation of boundary wall category 2-A part 3 and 4
- Joint survey bed level of internal septic tanks at category 2 part 5 and 6
- Joint layout and excavation of boundary wall category 2-A part 5 and 6
- Joint survey bed level of internal septic tanks at category 2 part 7 and 8
- Joint layout and excavation of boundary wall category 2-A part 7 and 8
- Joint survey lean top level of internal septic tanks at category 2 part 1 and 2
- Joint layout of open drain at transport pool area left side
- Joint survey lean top level of internal septic tanks at category 2 part 3 and 4
- Joint layout of open drain at transport pool area right side
- Joint survey lean top level of internal septic tanks at category 2 part 5 and 6

- Joint survey bed level of open drain at transport pool area left side
- Joint survey lean top level of internal septic tanks at category 2 part 7 and 8
- Joint survey bed level of open drain at transport pool area right side
- Joint survey class B top level of internal septic tanks at category 2 part 1 and 2
- Joint survey lean top level of open drain at transport pool area left side
- Joint survey class B top level of internal septic tanks at category 2 part 3 and 4
- Joint survey lean top level of open drain at transport pool area right side
- Joint survey class B top level of internal septic tanks at category 2 part 5 and 6
- Joint survey class B top level of internal septic tanks at category 2 part 7 and 8

**vi. MW-01 & MW-02**

- Joint topographic survey at Dam site intake area
- Joint formwork verification for 1m concrete at Diversion Tunnel B CH: 0+254 to 0+266
- Joint formwork verification for 1m concrete at Diversion Tunnel A CH: 0+345 to 0+357
- Joint survey for invert foundation at DT-A CH: 0+357 to 0+369 before pouring concrete
- Observed River Water levels at CR-2, CR-9 steel truss bridge and steel KASS bridge
- Joint demarcation point for starter dam area for Main works-01
- Observed River Water levels at CR-2, CR-9 steel truss bridge and steel KASS bridge
- Joint survey for excavation traffic tunnel outlet area
- Joint as built survey at traffic tunnel outlet portal El: 841 to 838
- Verification of water table data of KASS truss bridge provided by CGGC
- Joint formwork verification for 1m concrete at Diversion Tunnel A CH: 0+765 to 0+777
- Joint formwork verification for 1m concrete at Diversion Tunnel A CH: 0+777 to 0+789
- Joint measurement for convergence at Power House CH: 0+220, 0+225, 0+230, 0+235, 0+240
- Observed river water elevations at KKASS truss bridge and CR-2
- Joint formwork verification for 1m concrete at Diversion Tunnel A CH: 0+813 to 0+825
- Joint formwork verification for 1m concrete at Diversion Tunnel A CH: 0+141 to 0+153
- Joint formwork verification for 1m concrete at Diversion Tunnel A CH:
- Joint topographic survey at Diversion Tunnel-A and B outside area
- Revenue Survey at GUMMU NULLAH
- Joint formwork verification for 1m concrete at Diversion Tunnel A CH: 0+153 to 1+165
- Joint demarcation at SEGLO for batching plant-2 for main works-01
- Revenue Survey at GUMMU NULLAH
- Joint survey for excavation traffic tunnel outlet area current situation
- Joint survey for convergence points installation at Power House Cavern
- Joint survey for convergence points installation at Transformer Cavern
- Verification of backfill material quantity behind the gabions for rerouted KKH road at CT-2
- Verification of as built cross sections of Power intake excavation slope above EL: 1041m
- Verification of as built cross sections of TDT outlet portal EL: 847m to 845m
- Joint topographic survey of excavation at LBTT EL: 844 to 841 outlet area
- Verification of as built cross sections of Power intake excavation slope above EL: 993m
- Joint as built survey at cable crane area right bank
- Verification of Geological over break quantity of Adit tunnel CT-2 CH: 0+202 to 0+206
- Joint formwork survey at Diversion Tunnel-B CH: 0+018.7 to 0+033 before pouring concrete
- Verification of as built cross section of Cable Crane area right bank EL: 1062m to
- Verification of as built cross sections of TDT outlet portal EL: 844m to 841m
- Verification of survey control network at LBTT
- Joint as built survey at traffic tunnel outlet portal El: 841 to 838
- Joint topographic survey at UCHAR NULLAH for quantity calculation of deposited material
- Joint topographic survey at KHUSHI dumping area for quantity calculation of dumped material
- Joint survey for convergence measurements at Power House Cavern CH : 0+150 to 0+200
- Joint topographic survey of excavation at switchyard 5th layer right side EL: 963-959
- Joint topographic survey at BARSEEN dumping area for quantity calculation of dumped material
- Observed river edge boundary at KASS for MW02 section
- Joint topographic survey at UCHAR CGGC dumping material for MW-01

- Joint checked elevation at Diversion Tunnel-B for Diversion Gate foundation steel Plate downstream
- Joint checked elevation at Diversion Tunnel-B for Diversion Gate foundation Sill beam downstream
- Joint survey for excavation at Traffic Tunnel Outlet area EL: 838 to 836
- Joint checked elevation at Diversion Tunnel-B for Diversion Gate foundation steel Plate Upstream
- Joint checked elevation at Diversion Tunnel-B for Diversion Gate foundation Sill beam Upstream
- Joint topographic survey at switchyard area for current situation
- Joint Demarcation at SIGLO area for Batching plant-2 Main Works-01
- Observed River Water Level at KASS Steel KASS bridge
- Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+333 to 0+345
- Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+069 to 0+081
- Joint as built survey at switchyard 5th layer
- Demarcation catch points at switchyard for excavation 5th layer
- Joint survey for invert foundation at DT-A CH: 0+369 to 0+381 before pouring concrete
- Jointly demarcation survey points for excavation at Diversion Tunnel-B CH: 1+000
- Joint survey for invert foundation at DT-A CH: 0+381 to 0+393 before pouring concrete
- Observed River Water Level at KASS Steel KASS bridge
- Joint survey for invert foundation at DT-A CH: 0+093 to 0+098 before pouring concrete
- Joint measurement for convergence at Power House CH: 0+220,0+225,0+230,0+235,0+240
- Joint verification of Geological over break at Traffic Tunnel
- Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+098 to 0+110
- Joint survey for geological over break at Transformer cavern
- Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+110 to 0+122
- Joint verification survey for geological over break at Transformer cavern
- Joint formwork verification of adit-3 plug area Ch: 0+641 to 0+644
- Joint formwork verification for 1m concrete at Diversion Tunnel A CH: 0+801 to 0+813
- Joint formwork verification for 1m concrete at Diversion Tunnel A CH: 0+849 to 0+861
- Revenue survey at GUMMU for Reservoir area
- Joint formwork verification for 1m concrete at Diversion Tunnel A CH:897 to 0+909
- Joint topographic survey at River Water Channel area for Current situation
- Joint formwork verification for 1m concrete at Diversion Tunnel A CH: 0+201 to 0+213
- Joint survey and geological mapping at switchyard 5th layer left portion
- Joint survey and geological mapping at switchyard 5th layer center portion
- joint verification as built survey at left bank traffic tunnel
- Joint topographic survey at SIGLO right bank for starter DAM before filling
- Joint formwork verification for 1m invert concrete at Diversion Tunnel B CH: 0+230 to 0+254
- Joint topographic survey for Traffic Tunnel outlet area for Main works-01
- Joint measurement for convergence at power House CH: 0+220, 0+225, 0+230 .....0+240
- Joint survey for invert at Diversion Tunnel-A CH: 0+081 to 0+093 before pouring concrete
- Joint survey for formwork at diversion Tunnel-B inlet Part 4 before Steel fixing
- Joint formwork verification before reinforcement DTB sheer zone part 1 crown area
- Joint formwork verification for plug area in adit tunnel 03 before pouring concrete
- Joint survey for invert foundation at DT-B CH: 0+242 to 0+254 before pouring concrete left side
- Joint survey for excavation at Switchyard area for current situation
- Verification of survey control points network at CT-2 Tunnel
- Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+153 to 0+825
- Joint formwork verification for plug area in adit tunnel 03
- Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+753 to 0+765
- Joint topographic survey at Diversion Tunnel-A and B Outlet area for Current situation
- Joint layout boundary points at switch area CGGC and CCECC
- Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+134 to 0+141
- Joint as built survey at Left bank traffic Tunnel outlet EL: 838 to 835
- Joint checked formwork at Diversion Tunnel-B inlet CH: 0+000 to 0-035 before pouring concrete
- Joint survey for Geological over break at CT-2 tunnel CH:0+244
- Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+837 to 0+849

- Joint formwork verification at Diversion tunnel-B Part1 and part2 before pouring concrete
  - Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+177 to 0+189
  - Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+477 to 0+489
  - Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+873 to 0+885
  - Joint demarcation at SIGLO area for Revenue department
  - Joint formwork verification for 1m invert concrete at Diversion Tunnel A CH: 0+213 to 0+225
  - Joint survey of excavation and mapping at LU-1 road for main works-02
- vii. Revenue Survey Activity**
- Revenue Survey of Crush plant Seo
  - Revenue Verification of SHATIAL Reservoir
- d) Geology and Geotechnical Section Activities**
- i. Dasu-MW-01**
- **Traffic Diversion Tunnel**  
Carried out subsurface geological mapping/data collected up to 0+808m.  
Geological mapping at portal area from elevation 838.0 to 834.0
  - **Additional Drilling investigation**  
**Borehole COR-3 (Target depth 100m):**  
Drilling progress is 64.50m, drilled from 64.50m to 100m  
Bed rock encountered at **71.30m**.  
Borehole target 100m depth is completed.  
**Borehole COR-4(Target depth 50m):**  
Drilling progress is 50.0mm drilled from 0.00m to 50m.  
From 0.00m to 1.50 overburden. Bed rock encountered at 1.50m.  
Borehole target 50m depth is completed.
  - **Reservoir Area**  
Reservoir landslide investigation is in progress.
  - **Diversion Tunnels A**  
Additional geological survey and joint analysis of outlet area is in progress.
  - **Diversion Tunnels B**  
Additional geological survey and joint analysis of outlet is in progress.
  - **Cable Crane Plate form (Right side)**  
Carried out geological mapping at elevation 1062-1059.0
- ii. Dasu-MW-02**
- **In-Situ Overcuring Test (GIST):**  
Meeting with IVCC & CGGC for Over-coring at DHC office. Method statement not submitted by the contractor.
  - **Penstock Manifold-01 (PM-01)**  
Geological mapping & collection of discontinuity data from 0+045m to onwards will continue after support works.
  - **Penstock Manifold-01 Right (PM-01-R)**  
Geological mapping & collection of discontinuity data from 0+023m to onwards will continue after support works
  - **Penstock Manifold-01 Right (PM-01-L)**  
Geological mapping & collection of discontinuity data from 0+023m to onwards will continue after support works
  - **Service Tunnel-B (ST-B)**  
Carried out subsurface geological mapping/data collected up to 0+109.5m.
  - **Connection Tunnel-02 (CT-02)**  
Carried out subsurface geological mapping/data collected up to 0+255m.
  - **Vault Gallery Tunnel-Left (VGT-L)**  
Carried out subsurface geological mapping/data collection up to 0+062m.

- **Intake Area**  
Field survey for estimation of bed rock sliding is in progress.
- **Switchyard**  
Geological mapping of 5<sup>th</sup> layer center portion left side (Elevation 963-959.0).
- iii. **KKH-01**
  - **Logro Tunnel-A (K9+159)**  
Carried out subsurface geological mapping/data collected up to K9+208.
  - **K-4 Tunnel (K4+621)**  
Carried out subsurface geological mapping/data collected up to K4+586.
- iv. **KKH-02**
  - Carried out Geological rock classification at K45 access road from 0+000 to 0+182.460m
  - Carried out Geological rock classification at K41+340 to K42+780
  - Carried out Geological rock classification at K46+370 access road from K0+000-K0+192.874.

**Shori Tunnel-01&02:**

  - Carried out a joint survey for geotechnical investigation of proposed tunnel inlet/outlet. Prepared a platform for drilling at Shori Tunnel-02. Shifting of Rig machine is in progress.
- v. **RAR-02**
  - Geotechnical comments for field survey is in progress.
  - Carried out geological rock classification of temporary access road (TR-01) at K33+000m
  - Carried out geological rock classification at K12+061-K12+666, K32+655-K33+645 & K33+645-K33+945.
- vi. **Infrastructure**

**Project Colony (PCI-01):**

  - Carried out geological inspection for connection line of Septic tank to Main Sewerage line at S2 Road category 2A part 5, 6 & 7.
  - Geological inspection for Service Cable from Electric Pole to category 2A part 4.
  - Reclassification of hard rock at S1 A road from K0+000 to K0+043.
  - Geological inspection for boundary wall footing at category 2A Part 5, 6 & 7.

#### 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 KKH-02	24-08-15 15-05-20	13-12-19 13-05-22	1,572 728	14,539 16,265	4.96% 5.55%	EOT-3 in Progress. In Progress
	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%	
			Dismantling 2 bridges at Kandia and Largani	01-01-21	31-12-21	364	1,000	0.34%	
	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	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>	40.8	36.7
Actual	15.1	11.6

- 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	87.3	169.0	32.4	-	0.05	100.0	32.5

- Gantt chart and S-Curves of DASU-KKH-01 based on EOT-2 are shown in Figure-8 & 9 respectively
- Scheduled progress of KKH-01 is based on EOT-2. Revised Schedule (EOT-3) for re-alignment (Tunnels & Bridges) in progress.

#### 4.1.3 Major Activities of KKH-01

The major activities undertaken during this month were:

- **Limited Construction Activities in this month.**
- Batching plant erection and installation at K6+400 continued during the month.
- Excavation works of Logro-A tunnel RD=K9+206 continued during the month 54m completed.
- Excavation works and primary support works of K-4 Tunnel outlet RD=K4+590 continued during the month 37m completed.
- Camp construction at K5+100 completed during the month.
- Slope protection works at Zero-point third bench continued during the month.
- Removal of flood material and recovery of buried equipment's & machinery from Camp/workshop/plant areas in progress. Rehabilitation/modification of access roads for Logro-B tunnel and Uchar Bridge in Uchar Nullah during the month continued.

#### 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 & rehabilitation of access roads works in progress.
		Stoppage of excavation at K20+500 due to additional land acquisition to remove the unstable rock slope. (Barseen to Uchar).	Revised location of Barseen bridge is proposed.	Preparatory works and mobilization in progress.
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.	Preparatory works and mobilization in progress.

## 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	6.6	27.5	1.1	3.37	0.05	14.6	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:

- Excavation work has been completed at access roads on K28 Kaigah and K34, K 31 and K36 access Road. The work on new access road at K45 has been started.
- 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.

### 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	87.3	148.5	98.1	-	0.10	100.0	98.2

- Gantt chart and S-Curves is based on EOT-2 are shown in Figure-11 & 12 respectively.
- Elapsed time and Scheduled progress based on EOT-3. Revised programme for EoT-4 is in progress.

#### 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 & drilling for blasting around K1+500 to 1+650 and end section Komila Bypass 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.
- Excavation & levelling for R/wall foundation around K0+800 in progress and completed.
- Stone masonry R/wall around K0+800 and K1+800 in progress.
- Stone masonry R/wall around K0+200 in progress.
- Excavation for R.wall foundation around K1+958 in progress and completed.
- RCC breast wall left # 4 concrete in progress and completed.
- RCC B/wall concrete left # 2 at komila bypass in progress & completed.
- Stone masonry B/wall work in progress at Komila bypass start section K0+000.
- Stone masonry B/wall work in progress around 0+050 and K0+140 at Komila bypass.
- Stone masonry, dormitory work for new labor camp at K5+400 (RAR-01-zaal area) 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 (2nd) 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 August 03, 2022.
- Uchar concrete batching plant not functional yet due to huge flood in Nullah (many times) i.e July 2022 to August 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	18.6	77.7	1.2	5.13	0.02	81.1	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 work continue from K13+200 to K13+700. Backfill with gabion work is going on at K13+250.
- The Contractor has completed new access road at K32+800 and now started the work at RAR02 alignment (K32+800).

**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

Item	Data
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	85.0	155.9	90.4	-	0.30	100.0	90.7

- Gantt chart and S-Curves of Dasu-TL-01 based on EOT-2 are shown in Figure 14 and Figure 15, respectively.
- Elapsed time & Scheduled progress of TL-01 is based on EoT-3. Revised program for EoT-4 in progress.

#### 4.5.3 Major Activities of TL-01

##### Activities carried during the month:

- Block masonry work and Plaster work at Grid Station completed.
- Preparatory works for electrification of Control house building at Grid Station is in progress.
- Excavation/cutting of access road to Grid Station is in progress.
- Foundation work for switchgear equipment on upper and lower terraces of Grid Station completed.
- Foundation work for Gantries at Grid Station 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	
7	T-37	JKD	Not started	Not started	Not started	Not started	Not started	Not started	The Employer instructed the Contractor to carry out the design work for JKD towers. However, the Contractor mobilized his team for subsoil investigation but the landowners stopped the work.
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	

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S.no	Tower	Type	Excavation	Grounding	Concrete	Backfilling	Errection	Stringing	Remarks
								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	Completed	
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	Not started	
24	T-54	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
25	T-55A	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Not started	Work has been stopped by local committee of Pattan and Palas. (T-43B ~ T-143A)
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	Completed	
29	T-60A	ZM-60 Modify	Completed	Completed	Completed	Completed	Completed	Not started	
30	T-61A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
31	T-62A	ZM-60 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
32	T-63A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
33	T-64A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
34	T-65A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
35	T-66A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Not started	
36	T-67A	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed	Completed	
37	T-67M	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
38	T-68A	ZM-60 Standard	Completed	Completed	Completed	Completed	Completed	Completed	
39	T-68M	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed	Completed	

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

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S.no	Tower	Type	Excavation	Grounding	Concrete	Backfilling	Errection	Stringing	Remarks	
								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		
83	T-109A	ED-24	Completed	Not started	Not started	Not started	Not started	Not started		
84	T-110A	EG-24	Completed	Not started	Not started	Not started	Not started	Not started		The Landowner of T-113B is demanding high price for foundation work.
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		Work has been stopped by local committee of Pattan and Palas. (T-43B ~ T-143A)
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		

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S.no	Tower	Type	Excavation	Grounding	Concrete	Backfilling	Errection	Stringing	Remarks
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		
								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		



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S.no	Tower	Type	Excavation	Grounding	Concrete	Backfilling	Errection	Stringing	Remarks
								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	Completed	
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	
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	

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S.no	Tower	Type	Excavation	Grounding	Concrete	Backfilling	Errection	Stringing	Remarks
142	T-172	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		Not started
143	T-173A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		
144	T-174	ZM-60 Standard	Completed	Completed	Completed	Completed	Completed		Not started
145	T-175A	ZM-60 Standard	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		
148	T-178A	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		Completed
149	T-179B	ZM-30 Standard	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		
152	T-181M	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		Completed
153	T-182	ZM-30 Standard	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		
156	T-185	ZM-30 Standard	Completed	Completed	Completed	Completed	Completed		Not started
157	T-186	ZM-30 Modify	Completed	Completed	Completed	Completed	Completed		
158	T-188A	ZM-60 Modify	Completed	Completed	Completed	Completed	Completed		Not started
159	T-189A	ZM-60 Standard	Completed	Completed	Completed	Completed	Completed		
160	T-190B	ZM-60 Modify	Completed	Completed	Completed	Completed	Completed		Completed
161	T-191B	ZM-60 Modify	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		
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		
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		

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S.no	Tower	Type	Excavation	Grounding	Concrete	Backfilling	Errection	Stringing	Remarks
								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	Not started	
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	Not started	
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	
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 uptil 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</b>	<b>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 Errection	156	0	0	156	
5	Stringing (Spans)	59	0	0	59	
<b>B</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 carry out 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 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 and Palas. (T-43B ~ T-143A)		The Project Manager requested the Employer to resolve the issue in Weekly Progress Meetings and by letter as well.

#### 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	65.3	57.8	18.8	1.98	0.32	33.9	19.1

- 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 following Contractor's camps have been constructed and are operating.

- Construction of Barseen Camp located on the mountain side from existing KKH completed on June 9<sup>th</sup>, 2019.
- Construction of Pakistani Camp located in Uchar area completed on November 3<sup>rd</sup>, 2019.
- Construction of Chinese Labour Camp located in Uchar Area on January 5<sup>th</sup>, 2020.

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

- Ground leveling for the Contractor's main camp-64.70%
- Building foundation of the prefabricated house- 63.60%
- Prefabricated house hoisting- 87%
- Chinese Canteen- 30%
- Pool Construction-60%
- Stone Masonry for Retaining Wall-45.90%
- Installation of precast fence- 30%

###### (2) Steel Truss Bridge at Seo

Construction of steel truss bridge at Seo completed on April 10<sup>th</sup>, 2022.

###### (3) 1# Batching Plant and 1# Crushing Plant at Uchar Area

- Stone Masonry for retaining wall- 94.10%
- Power Plant Ground Levelling-100%
- Power Plant Foundation- 0%
- Fencing Wall- 0%

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

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

###### (5) Additional Measures for Security Enhancement

The Contractor has worked on establishing of security measures i.e. Installation of watch tower at Uchar and Barseen, installation of Prefabricated Cabins with accessories at Barseen, Uchar, CR9 & Chochang Area and fixing of blind sheet along CR2 & CR9.

###### (6) Damage of Temporary Facility caused by Debris Flow in the Uchar Nalluh on 24<sup>th</sup>, 27<sup>th</sup> July, 1<sup>st</sup>, 12<sup>th</sup>, 16<sup>th</sup>, 20<sup>th</sup>, 24<sup>th</sup> & 26<sup>th</sup> August 2022

The Contractor's Water Supply Pipeline & pumps installed along the Uchar Nullah was washed out by debris flow in the Uchar Nalluh which results in stoppage of concrete/shotcrete works for Diversion Tunnel.

Backfill below Chinese and Local Dormitories at River side of Uchar Camp eroded due to debris flow in the Uchar Nalluh which result damage to the Chinese Canteen. Other buildings at river side is also in danger if further severe flood occurs in future.

###### (7) Suspension of Construction Activities inside Diversion Tunnel

- Due to overtopping of the Indus River water from the Diversion Tunnel Inlet Dyke, all the excavation and concrete activities suspended inside the Tunnel since August 16, 2022.
- Dewatering inside the Diversion Tunnel started from August 30<sup>th</sup>, 2022 and remaining continued during the month of September.
- De silting from DT-A started from night of 24<sup>th</sup> September, 2022.
- Cleaning of mud inside the Diversion Tunnel remained continue during the month of the October.

#### 4.6.3.2 Diversion Tunnel

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

###### i) Adit Tunnels

- 3# Adit tunnel underground excavation completed (804.3m) on 2<sup>nd</sup> April 2020.
- 1-2# Adit tunnel work started from 23<sup>rd</sup> September and completed at 804.6 m on April 18, 2021.
- 3-1# Adit tunnel underground excavation (244m) was completed on Dec 13, 2020.

###### ii) Diversion Tunnels

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

###### Diversion Tunnel A

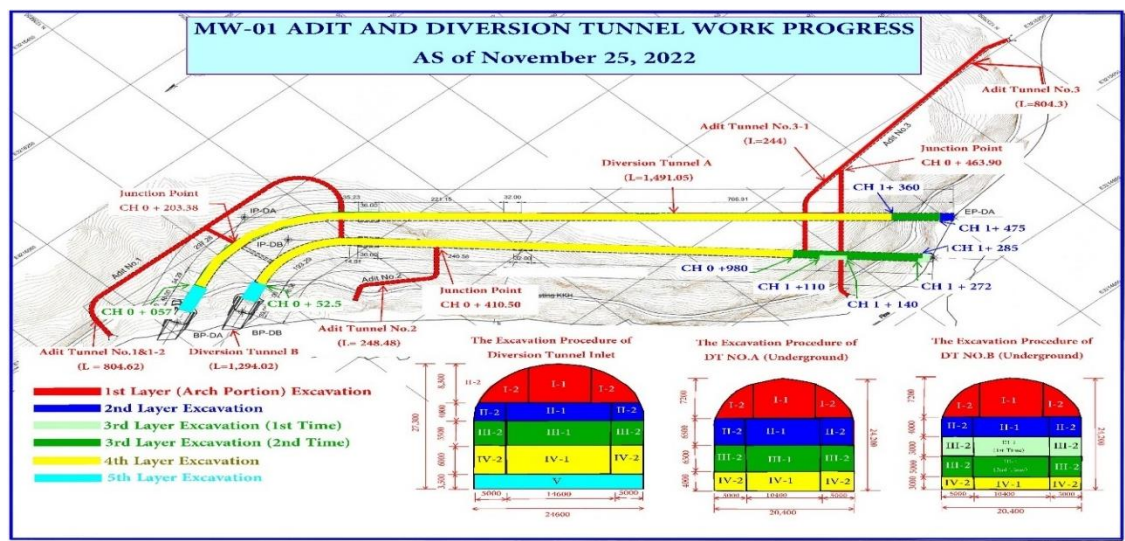
43,620/43,620m<sup>3</sup> (100%) open excavation completed at the end of December 2020.

###### 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 November 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.



<b>DIVERSION TUNNEL B (EXCAVATION PROGRESS)</b>			
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	1,253	97
3 <sup>rd</sup> (Part-2)	1,294	1,253	97
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+263). The excavated length is **1,263m/1,294m (97%)**.
- 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 November is **656,680m<sup>3</sup>/ 670,000m<sup>3</sup> (98%)**.

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

### Diversion Tunnel A

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

- 11,462m<sup>3</sup> / 21,515m<sup>3</sup> (53%) completed till end of November 2022.

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

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

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

- L/S- 1,183m / 1,502m (79%)
- R/S- 1,203m/1,502m (80%)

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

- L/S- 558m / 1,502m (37%)
- R/S- 955m/1,502m (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)

- 17,500m<sup>3</sup>/ 21,600m<sup>3</sup> (81%) completed till end of November, 2022.

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

- 7,443m<sup>3</sup> / 10,418m<sup>3</sup> (71%) completed till end of November, 2022.

#### 3) Shear Zone Area

- **Concrete Works:** 7,547m<sup>3</sup> / 9,045m<sup>3</sup> (83%) completed till end of November, 2022.

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

- L/S- 1,013m / 1,309m (77%)
- R/S- 1,013m/1,309m (77%)

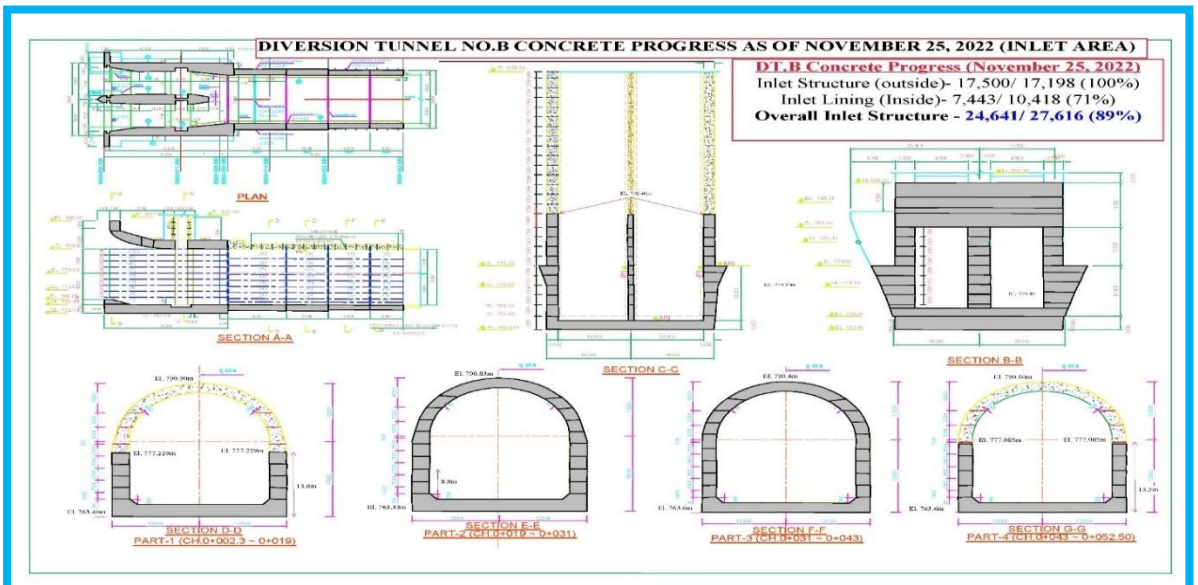
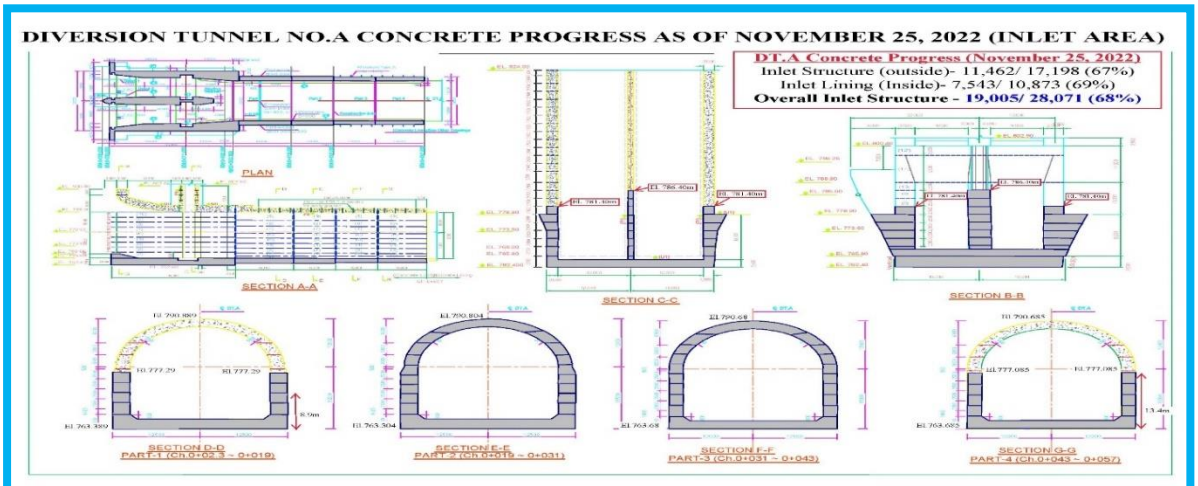
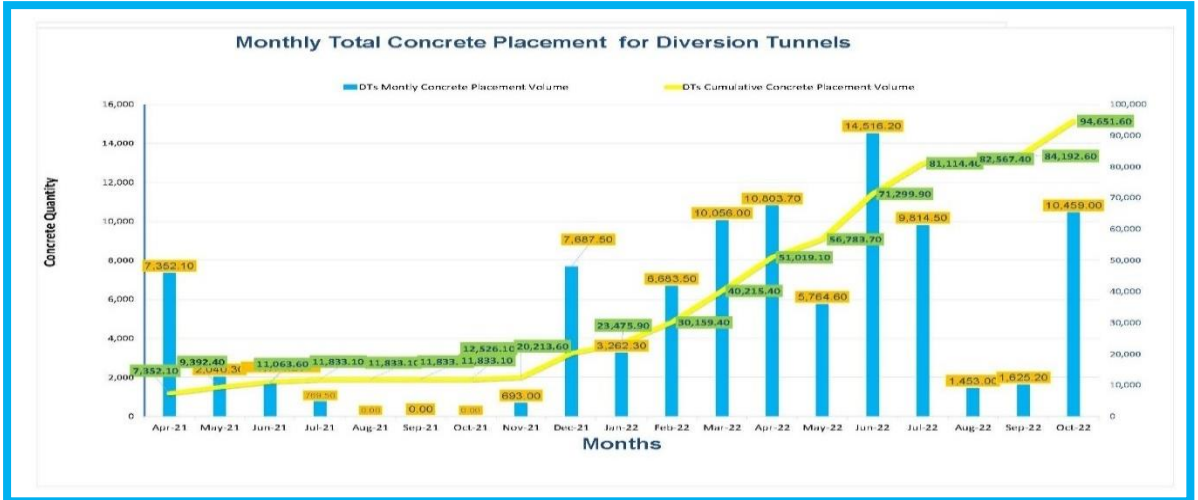
**5) Invert Structural Concrete (A25)**

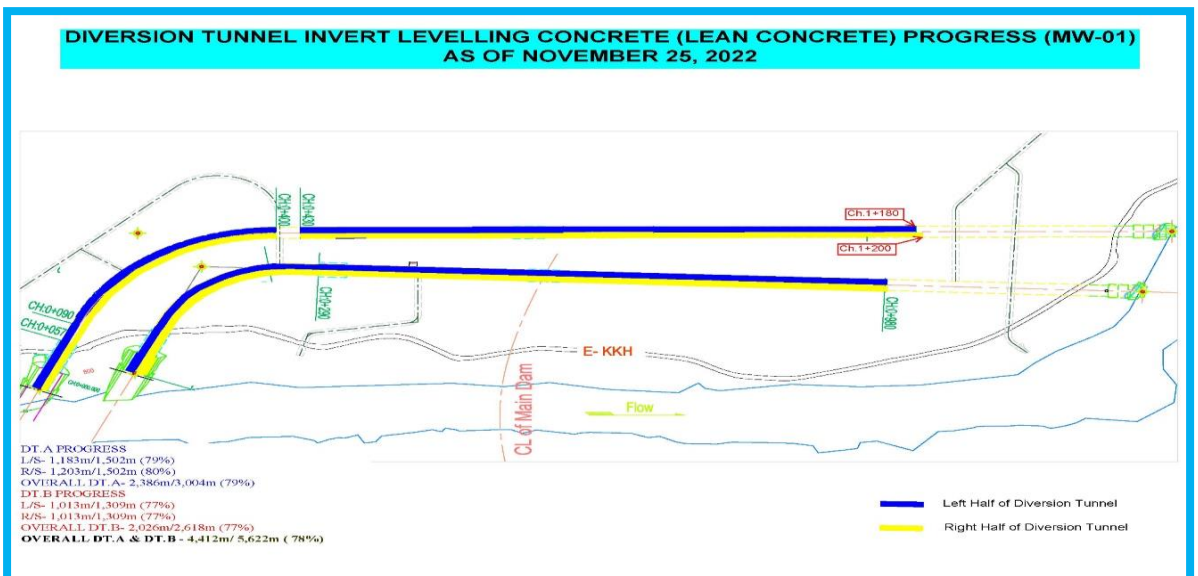
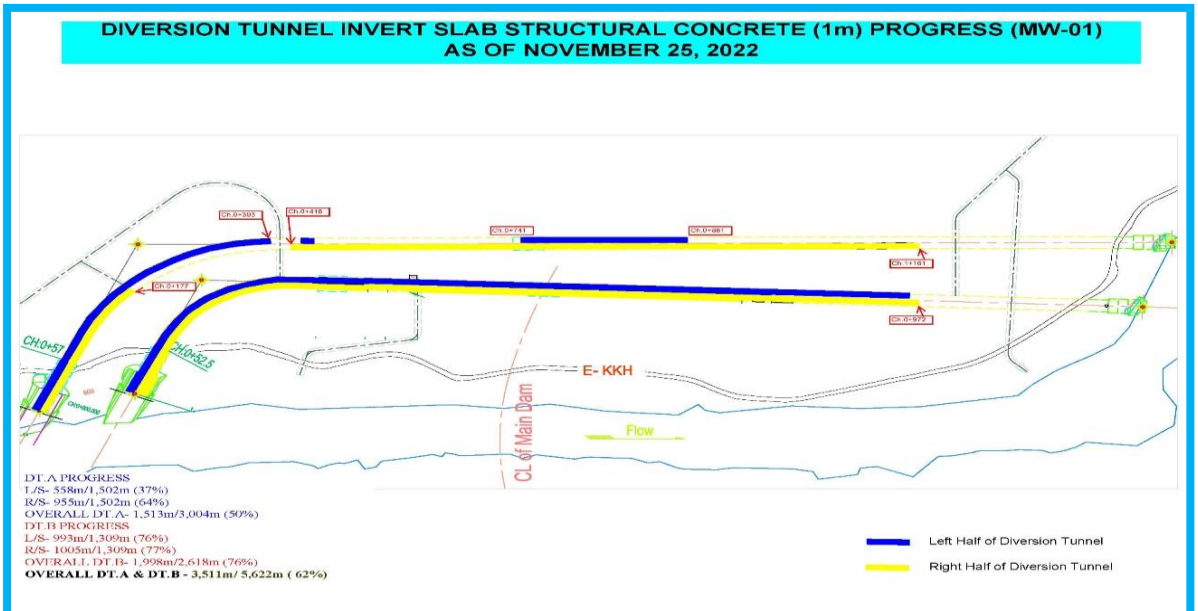
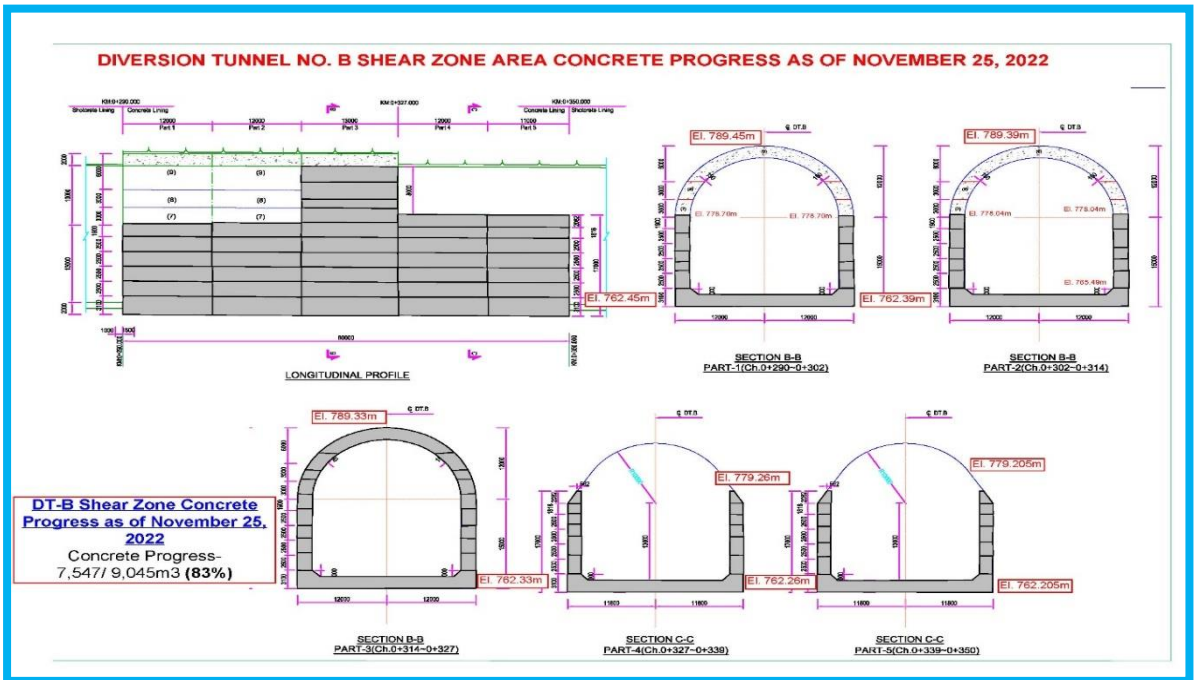
- L/S- 993m / 1,309m (76%)
- R/S- 1,005m/1,309m (77%)

**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.

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







**1) 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.

**2) 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.

**3) 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)**

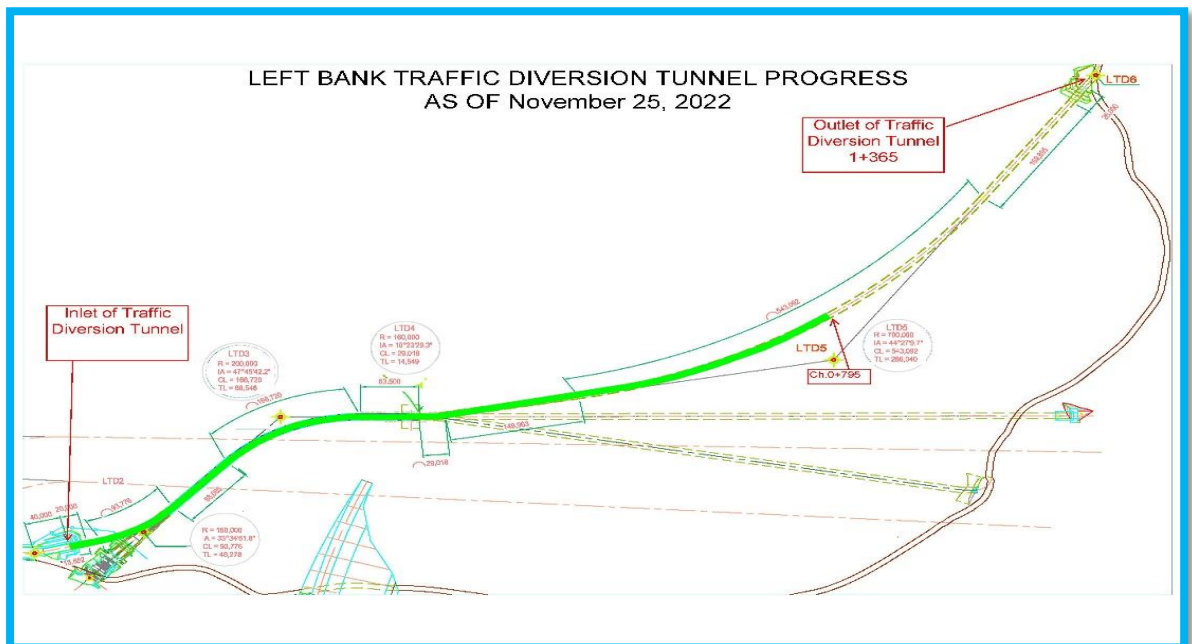
- Gabion protection for CR2 Road river side 100%

➤ **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- 795m / 1,365m (58%)
- Excavation of the Slope for Outlet- 91%
- Support of the slope for outlet- 91%
- Canopy tube drilling and installation- 69.50%



**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- 72%
- Excavation and support of Right Bank Cable crane Platform slope El. 1065m to El. 1050m- 50%

**(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-10%

**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		WAPDA is discussing the matter with the FWO
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>Diversion Tunnel Excavation of Diversion Tunnels</b>  <b>Underground Excavation of 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 November is <b>747,942m<sup>3</sup>/ 760,000m<sup>3</sup> (98.41%)</b> . <b>Diversion Tunnel B</b> The top bench excavation broke through on August 23, 2020. Enlargement at the outlet part is remaining for less than 10 m. Open			

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No.	Location	Works Completed	Current Status	Current Issues	Possible Further Issues	Action Currently Undertaken
		<p><b>Inlet dyke</b> Concrete: completed on July 4, 2019.</p> <p><b>Temporary facilities (Diversion tunnel outlet side)</b> Air supply station 100% Power station 100%</p> <p><b>Diversion Tunnel Outlet dyke Construction Works</b> <b>Concrete Works:</b> for DT-A 100% completed on June 11, 2021 for DT-B 100% completed on June 13, 2021</p> <p><b>Reconstruction of DT Outlet Dyke-</b> A Dyke completed on June 13, 2022 Reconstruction of DT-B Dyke completed on June 6, 2022</p> <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>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 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+263). The excavated length is <b>1,263m/1,294m (97%)</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. Overall Excavation progress for DT.B at the end of November is <b>656,680m<sup>3</sup>/ 670,000m<sup>3</sup> (98%)</b>.</p> <p><b>Concrete Work of Diversion and Adit Tunnels</b> <b>Diversion Tunnel A</b> <b>Inlet Structure Works (Outside)</b> 11,462m<sup>3</sup> / 21,515m<sup>3</sup> (53%) completed till end of November 2022. <b>Inlet Lining Works (Inside)</b> <b>Concrete Works:</b> 7,543m<sup>3</sup> / 10,873m<sup>3</sup> (69%) completed till end of November 2022. <b>Invert Levelling Concrete (C20)</b> L/S- 1,183m / 1,502m (79%) R/S- 1,203m/1,502m (80%) <b>Invert Structural Concrete (A25)</b> L/S- 558m / 1,502m (37%) R/S- 955m/1,502m (64%)</p> <p><b>Diversion Tunnel No. B</b> <b>Inlet Structure Works (Outside)</b> 17,500m<sup>3</sup>/ 21,600m<sup>3</sup> (81%) completed till end of November, 2022. <b>Inlet Lining Works (Inside)</b> 7,443m<sup>3</sup> / 10,418m<sup>3</sup> (71%) completed till end of November, 2022. <b>Shear Zone Area</b> <b>Concrete Works:</b> 7,547m<sup>3</sup> / 9,045m<sup>3</sup> (83%) completed till end of November, 2022. <b>Invert Levelling Concrete (C20)</b> L/S- 1,013m / 1,309m (77%) R/S- 1,013m/1,309m (77%) <b>Invert Structural Concrete (A25)</b> L/S- 993m / 1,309m (76%) R/S- 1,005m/1,309m (77%)</p>			
7	Left Bank Traffic Diversion Tunnel	Upstream Surface Excavation for Inlet Portal– 100%	<ul style="list-style-type: none"> <li>- Underground Excavation Work- 795m / 1,365m (58%)</li> <li>- Excavation of the Slope for Outlet- 91%</li> <li>- Support of the slope for outlet- 91%</li> <li>- Canopy tube drilling and installation- 69.50%</li> <li>-</li> </ul>	Slow progress observed at U/G and D/S Portal of LBTDT.		The Engineer repeatedly instructed the Contractor to expedite the work in Progress Review meetings.
8	Steel Truss Bridge at Seo	<b>Steel Truss Bridge at Seo Right side Abutment construction</b>				



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No.	Location	Works Completed	Current Status	Current Issues	Possible Further Issues	Action Currently Undertaken
		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%	<b>Left Bank Abutment</b> - Excavation of the second layer of CR5-2 Road- 27% - Additional Berm excavation and support- 45%			
10	Right Bank Abutment (Siglo Area)		<b>Right Bank Abutment (Siglo Area)</b> - 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- 72% - Excavation and support of Right Bank Cable crane Platform slope El. 1065m to El. 1050m- 50%			
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%	1. Stone Masonry for retaining wall- 94.10% 2. Power Plant Ground Levelling-100% 3. Power Plant Foundation- 0% 4. Fencing Wall- 0%			
12	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.			
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-64.70% - Building foundation of the prefabricated house- 63.60% - Prefabricated house hoisting- 87% - Chinese Canteen- 30% - Pool Construction-60% - Stone Masonry for Retaining Wall- 45.90% - Installation of precast fence- 30%	The Employer handed over 63% land to the Contractor. There is dispute area remaining 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%	- Backfilling of upstream starter dam- 10%			
17	RCC Batching Plant at Siglo Area	Demolishing of houses at siglo area for construction of RCC Batching Plant remained continued during the month of November, 2022		Woods, blocks, water supply pipe line, electric cable from the vacant area needs		Assistant Commissioner visited the siglo area on November 30, 2022 and discussed with the

No.	Location	Works Completed	Current Status	Current Issues	Possible Further Issues	Action Currently Undertaken
				to be removed		locals to evacuate that area as soon as possible.

#### 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 Purina Ago-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

#### 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 Gezhouba 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	65.3	60.5	7.6	2.05	0.14	45.6	7.7

- 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 for 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. 2022).
- 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 for Additional Support within Transformer Cavern.
- Installation of PS Tendon within Powerhouse Cavern was in progress.
- Trail Test for PS Tendon was in progress in Transformer Cavern with different bond length.
- 5<sup>th</sup> Bench slope Excavation and Support work of both left and Right Side at EL.970m to 957m 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 and manual Mucking 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.

#### **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**

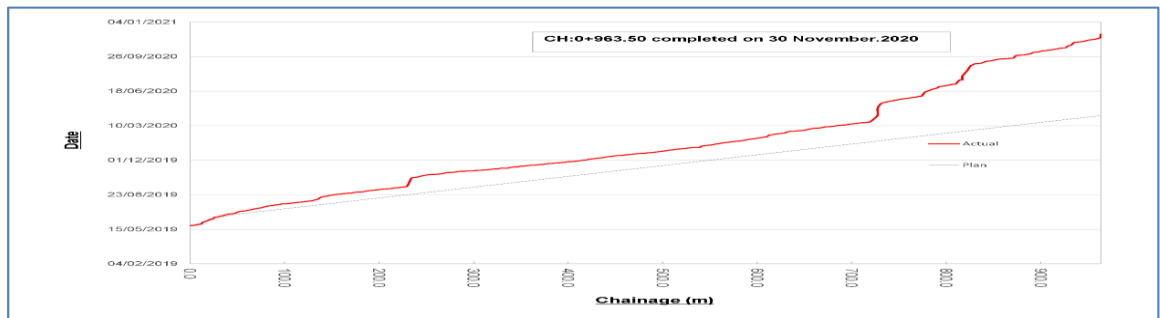
- A part of the Logro 1 area (0.53 ha) was handed over on 13<sup>th</sup> of March 2020.
- 1<sup>st</sup> Blasting of CR4 was executed on 17 March 2020.
- Pilot road excavation of CR4 Road was completed.
- Pilot Road excavation for LU1 Road has been commenced.
- Access road of Power Intake Protection Fence Platform was commenced on 27<sup>th</sup> of October 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)
- Surfacer Boulders blasting was in Progress (June 2022)
- Surfacer 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).



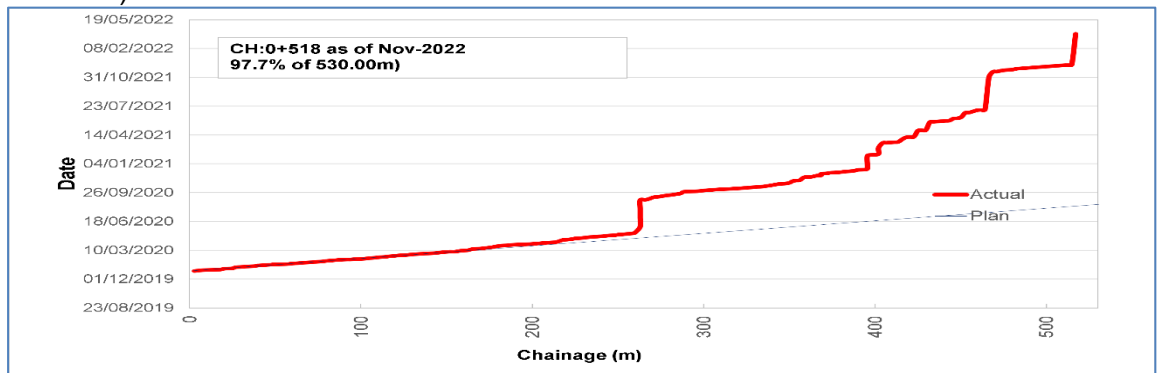
**Figure: Work Progress of Main Access Tunnel**

**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**

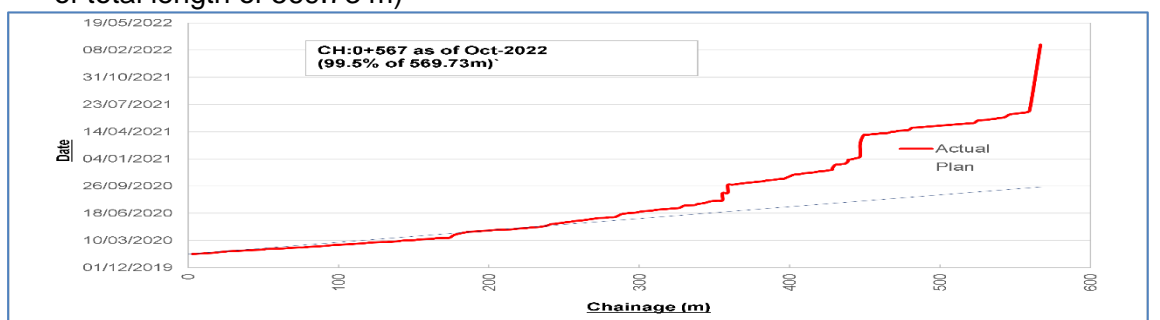
- Excavation of Surge Chamber Vault Access Tunnel was started on 29 Dec 2019.
- Work progress of Surge Chamber Vault Access Tunnel in Oct 2022: 0.00 m (518.00 m in total, 97.7 % of total length of 530.0 m)
- Crown enlargement and support work Towards Galleries was in progress (Aug 2022)
- Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+59 m (25 Nov. 2022)
- Support of SCVAT #2 Gallery was in Progress (Current chainage 0+026 m (25 Nov. 2022)



**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)

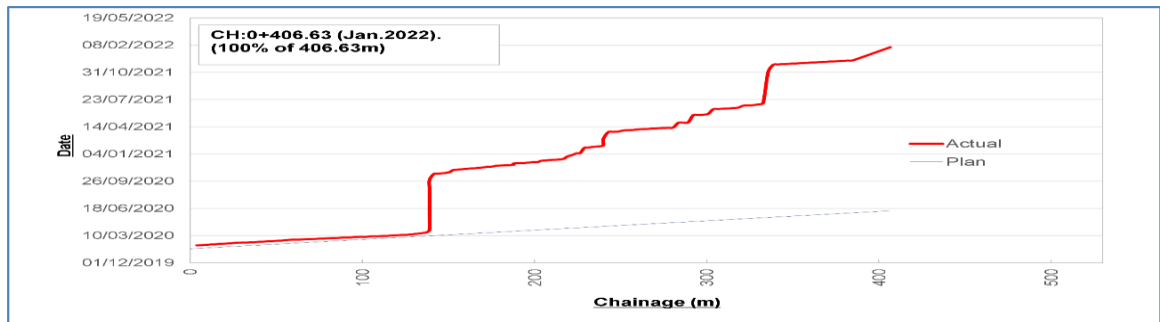


**Figure: Work Progress of Service Tunnel A**

**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+110 approx. (25 November 2022)

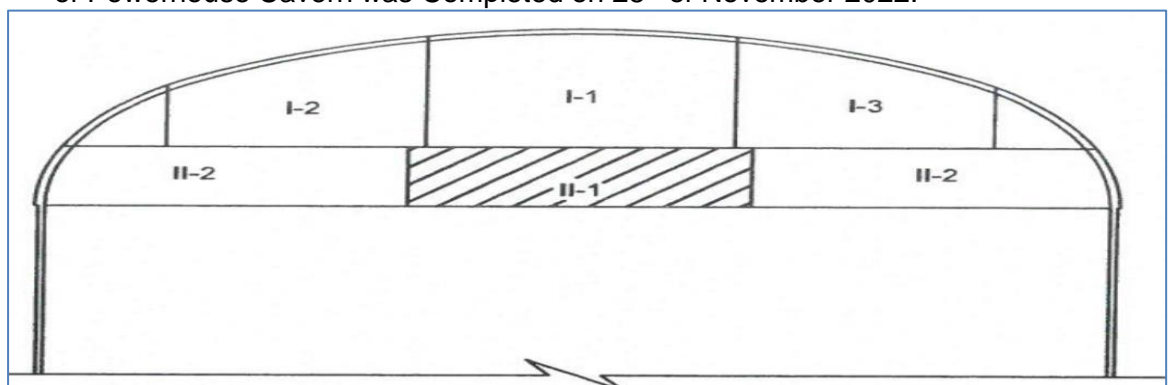
#### 4.7.3.9 Exhaust Tunnel

- 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 is in progress from the drain Tunnel (25<sup>th</sup> Nov 2022)

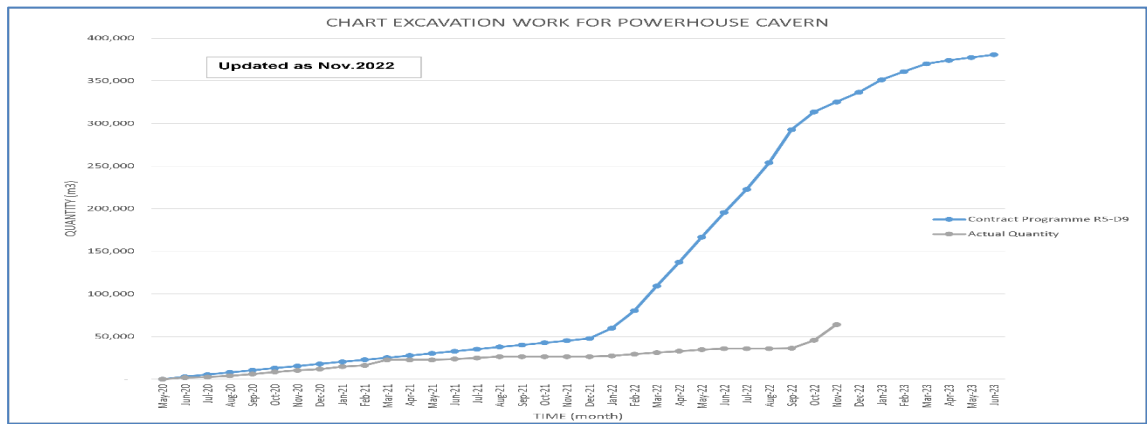
#### 4.7.3.10 Underground Powerhouse

##### 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 (Nov.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.



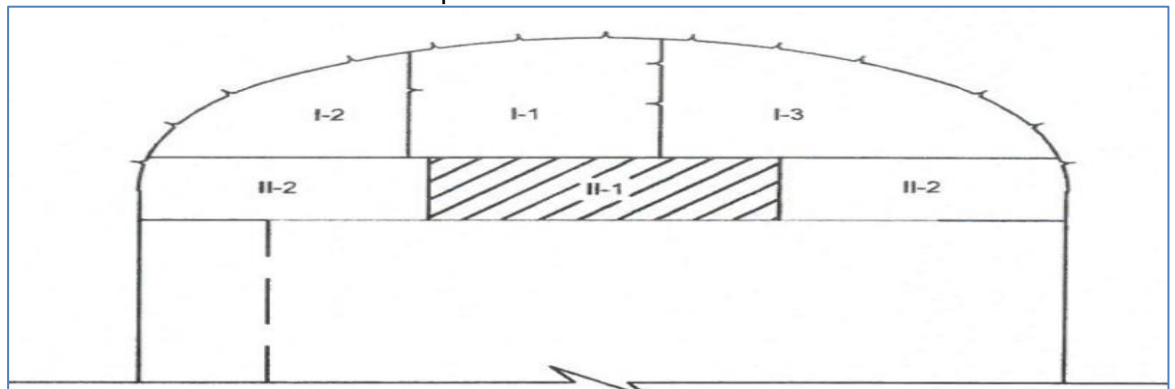
**Figure: Section of Powerhouse Cavern 2<sup>nd</sup> Bench**



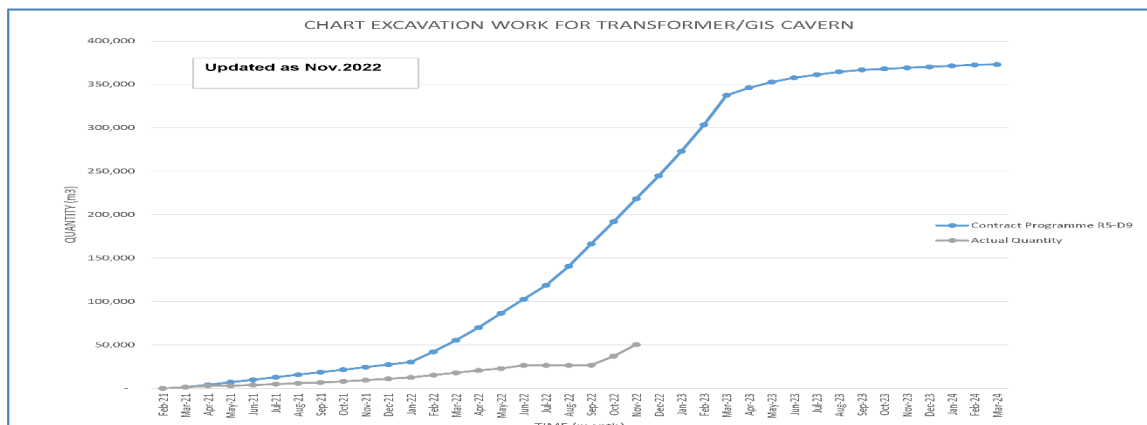
**Figure Work Progress of Powerhouse Cavern 2<sup>nd</sup> Bench**

**4.7.3.11 Underground Transformer Cavern**

- Excavation of Bench 1 of Crown Portion (Pilot Tunnel I-1) was commenced on 04 June 2020.
- 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 November. 2022 is 50508.7of Total Transformer Cavern Excavation Volume of 234,829.30 m<sup>3</sup> which is the progress of **21.5%** in total.
- PS Tendon Installation was in progress (November2022)
- Excavation for 2<sup>nd</sup> Bench (Central portion and Both Left /Right Side walls Opening) Commenced on 25 Sep. 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 2<sup>nd</sup> Bench**

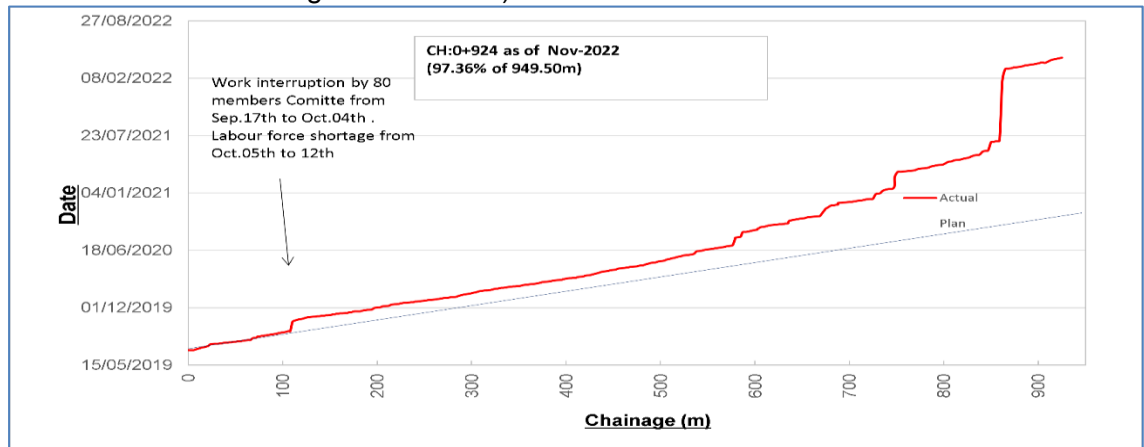


**Figure: Work Progress of Transformer/GIS Cavern 2<sup>nd</sup> Bench Diagram**



#### 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)

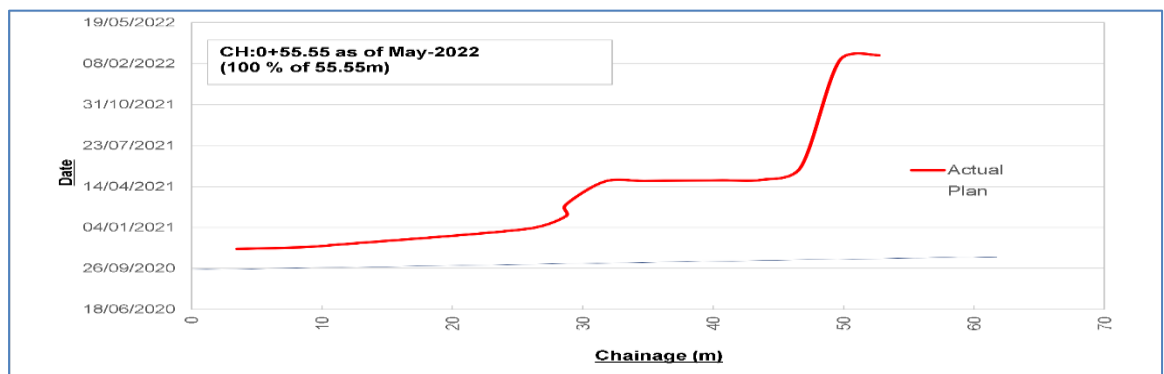
- Tunnel was commenced on 06 May 2020.
- Tunnel has been completed on 21 May 2020.

#### 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 was 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 # 1excavation was Started 08/05/2022.
- Lower pressure tunnel # 1 Crown enlargement was in progress Current Chainage 0+44m (November.2022)

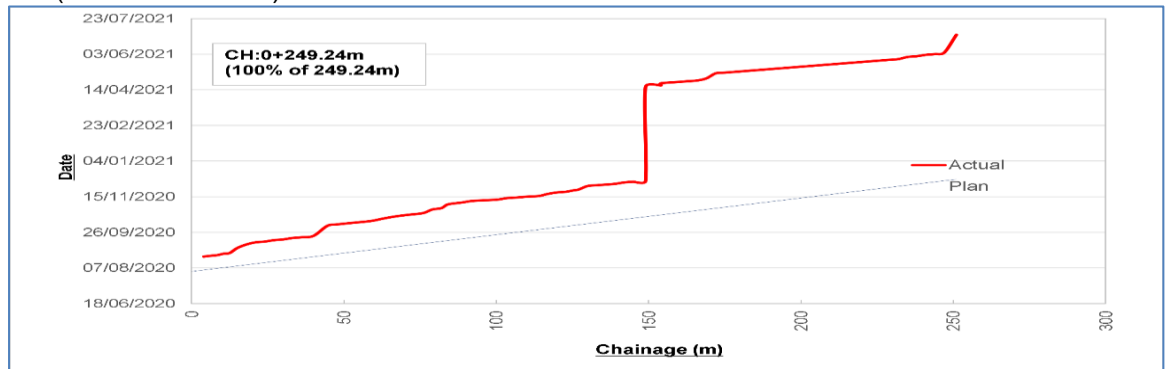


**Figure: Work Progress of Penstock Adit Tunnel No.01**

#### 4.7.3.17 Penstock Adit Tunnel No.02

- Tunnel excavation was 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.
- Lower pressure#2 Tunnel excavation was Commenced (21/05/2022).
- Lower pressure tunnel # 2 Invert Cleaning and manual Mucking was in progress (November.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 2022).
- Side slope protection at Ch.0+630-0+572 below El.800 was in progress (June 2022).
- No Activity in the month of November 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 1st, 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)

#### 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 started. 30 Dec. 2018 Main bridge CB450 was moved at the designated position.  07Jan. 2019: Move down of CB450 at the designated position. 11 Jan. 2019: CB450 has been completed. 24 Feb. 2019 CB200 on RB has been completed	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 coordination is required.  LEI N/A	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.  LEI N/A	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 resulting in delay(s).)  LEI N/A	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 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 relocate 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 above 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	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) 7) (InProgress May 2022) 8) 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	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.	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.

**Dasu Hydropower Project**  
**Monthly Progress Report No. 100 (November 2022)**

No.	Location	Works Completed	Current Status	Current Issues	Possible Further Issues	Action Currently Undertaken
			Land issues has been resolved on 16 December 2019	However, due to the slow progress of self-relocation, the demolishing work has not been completed		<ol style="list-style-type: none"> <li>5) Engineer issued a daywork order for demolishing houses on 08 March 2019 and the work has been started on 14 March 2019.</li> <li>6) Engineer issued daywork order to demolish houses on 03 August 2019</li> <li>7) The Engineer requested the Employer to enhance self-relocation</li> <li>8) Khushi Labour Camp is Completed in June 2021</li> </ol>
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	<ol style="list-style-type: none"> <li>1) Employer suggested to use phase -2 of colony area. The Engineer is coordinating with Zonghmi Contractor.</li> <li>2) Engineer informed the Employer to solve landowner issue ASAP</li> </ol>
10	Khushi Spoil Bank and Batching Plant	Left Empty Intentionally  LEI NA	The Employer coordinated with C&W to relocate his bridge girders from Batching plant area  LEI NA	The Contractor proposed new layout of spoil bank and batching plant in Khushi.  LEI NA	His proposal requires to shift CCECC's spoil bank and coordination with local bridge contractor in Khushi.  LEI NA	<ol style="list-style-type: none"> <li>1) The Engineer is conducting justification study of the proposal and request the Contractor to provide supporting document.</li> <li>2) The Engineer coordinates the contractors to arrange relocation area of the girders</li> <li>3) The Engineer continuously conducts coordination of 2) above.</li> <li>4) The remaining part of Khushi Batching Plant site was handed over on 02 March 2020</li> </ol>
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	<ol style="list-style-type: none"> <li>1) Contractor requested hand over of switchyard area to start vent tunnel</li> <li>2) Contractor requested to hand over the whole area of the switchyard.</li> <li>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.</li> </ol>	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 May2019.</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) Preoperatory 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> </ol>

**Dasu Hydropower Project**  
**Monthly Progress Report No. 100 (November 2022)**

No.	Location	Works Completed	Current Status	Current Issues	Possible Further Issues	Action Currently Undertaken
						23) 5th Bench Excavation above EI.960 was in progress (September 2022)
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	1) The Engineer informed the Employer the land should be handed over in the middle of June by letter in May 2019. 2) The Engineer reminded the Employer in Sep. 2019. 3) The Engineer confirmed status with the Employer in Oct.2019 4) The Engineer suggested the Contractor to change temporary road alignment to avoid excavating graveyard 5) Engineer replied that the Contractor shall secure and protect the handed over area. 6) Engineer is instructed to relocate timber upstream of Logro1 Area on 20 February 2020. 7) A part of the Logro 1 area (0.53 ha) was handed over on 13 March 2020. Power intake protection fence excavation was commenced on the 28 <sup>th</sup> of October 2021 and still is in progress. 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)
	LEI N/A	LEI N/A	LEI N/A	LEI N/A	LEI N/A.	
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	47.2	202.5	94.0	-	0.30	100.0	94.3

- 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	47.2	210.6	96.0	-	0.20	100.0	96.2

- 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	42.4	102.5	57.0	-	0.80	100.0	57.8

- 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:

- Doors installation in progress at project office building.
- Door polishing in progress at project office building.
- 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 2B, 2C is in progress.
- Boundary wall construction at residence cat -2 & cat -2A in progress.
- Kuphrail tile fixing on roof of residence cat -2 and 2A in progress.
- Manhole cover concreting at residence cat -2B in progress.
- Sand filling in kitchens abd bathrooms at residence cat-2A 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 -2 in progress.
- Repair work is in progress at residence cat -1.
- Doors fixing 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.
- Fixing of slab formwork and reinforcement at residence cat- 3 remaining units in progress.
- Plastering at residence cat -3 and residence cat-4 in progress.
- Flooring concreting at residence cat-3 and 4 in progress.
- Laying of aggregates on floor at residence cat -3 and cat -4 in progress.
- Electrical conduiting at residence cat -3 and evidence cat -4 in progress.
- Plastering at hostel cat -2A & hostel cat -2B.
- Painting (primer coat) at hostel cat-2B in progress.
- 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.

#### 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 Choochang	<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 porecilain tile work completed .Aluminum 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</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.</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: Farm structure and block masonry completed.</p> <p>Cat-3A: frame structure completed.</p>	<p>Doors installation in progress at project office building.</p> <p>-Door polishing in progress at project office building.</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 2B, 2C is in progress.</p> <p>Boundary wall construction at residence cat -2 &amp; cat -2A in progress.</p> <p>Kuphrail tile fixing on roof of residence cat -2 and 2A in progress.</p> <p>Manhole cover concreting at residence cat -2B in progress.</p> <p>Sand filling in kitchens abd bathrooms at residence cat-2A 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 -2 in progress.</p> <p>Repair work is in progress at residence cat -1.</p> <p>Doors fixing 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>Fixing of slab formwork and reinforcement at residence cat- 3 remaining units in progress.</p> <p>Plastering at residence cat -3 and residence cat-4 in progress.</p> <p>Flooring concreting at residence cat-3 and 4 in progress.</p> <p>Laying of aggregates on floor at residence cat -3 and cat -4 in progress.</p> <p>Electrical conduiting at residence cat -3 and evidence cat -4 in progress.</p> <p>Plastering at hostel cat -2A &amp; hostel cat -2B.</p>			

Sr. No.	Section/ Location	Work completed	Current Status	Current Issues	Possible Further Issues	Action Currently undertaken
		Cat-3B: frame structure completed except part 1, 2 f/f. 3C: ground floor slabs completed. Cat-3D: Footing, g/f columns & RCC retaining walls completed Cat-4A: frame structure completed. 4B: frame structure completed. Stone masonry & RCC retaining walls completed. Cat-4C: frame structure completed except f/f slab part 1, 2 and 3. P1 Road-RCC retaining Wall concrete, backfilling and stone masonry parapet wall is completed. Community Center block masonry under plinth completed.	Painting (primer coat) at hostel cat-2B in progress. 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.			

#### 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	41.5	231.1	53.1	-	0.92	100.0	54.0

- 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 column conceding in progress.
- RCC retaining wall construction in progress.
- Levelling of access road in progress.

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

- No activity

###### (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.	PCC road concreting is in progress.	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 lower portion & upper portion	Excavation for plot is completed at lower Kuz Choochang	Breast wall construction in progress.	Nil	Nil	PAR is decided and Layout drawing 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	30.4	49.8	5.0	0.41	0.40	12.7	5.4

- 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

**Terrace # 8 Backfilling / Compacting, leveling was completed. On August 6, 2022.**



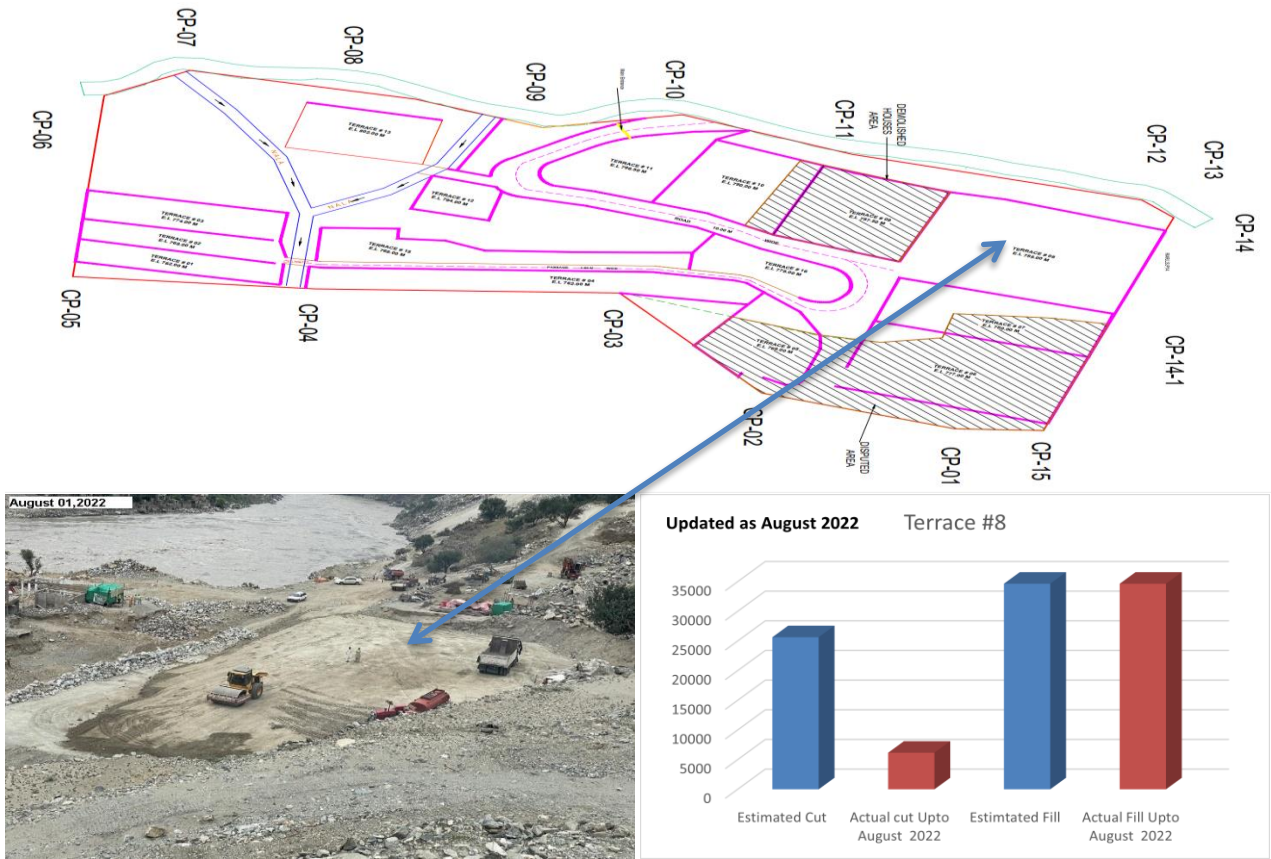


Figure: Terrace # 8 Cut and Fill

**Terrace#11 Excavation was in progress.**

The Work was suspended due to local disruption as the per datum of the diem dated 10<sup>th</sup> August 2022 to till Date.

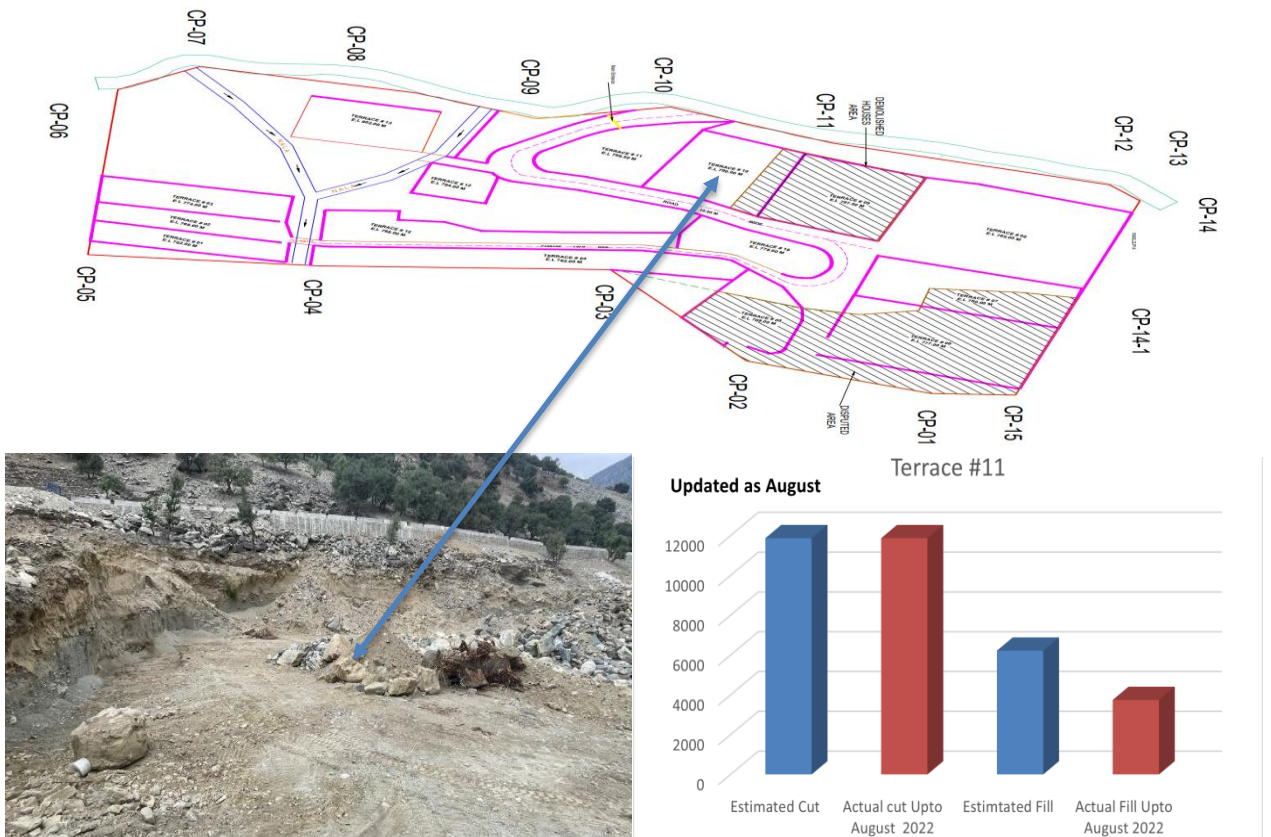


Figure: Terrace # 11 Cut and Fill

**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)

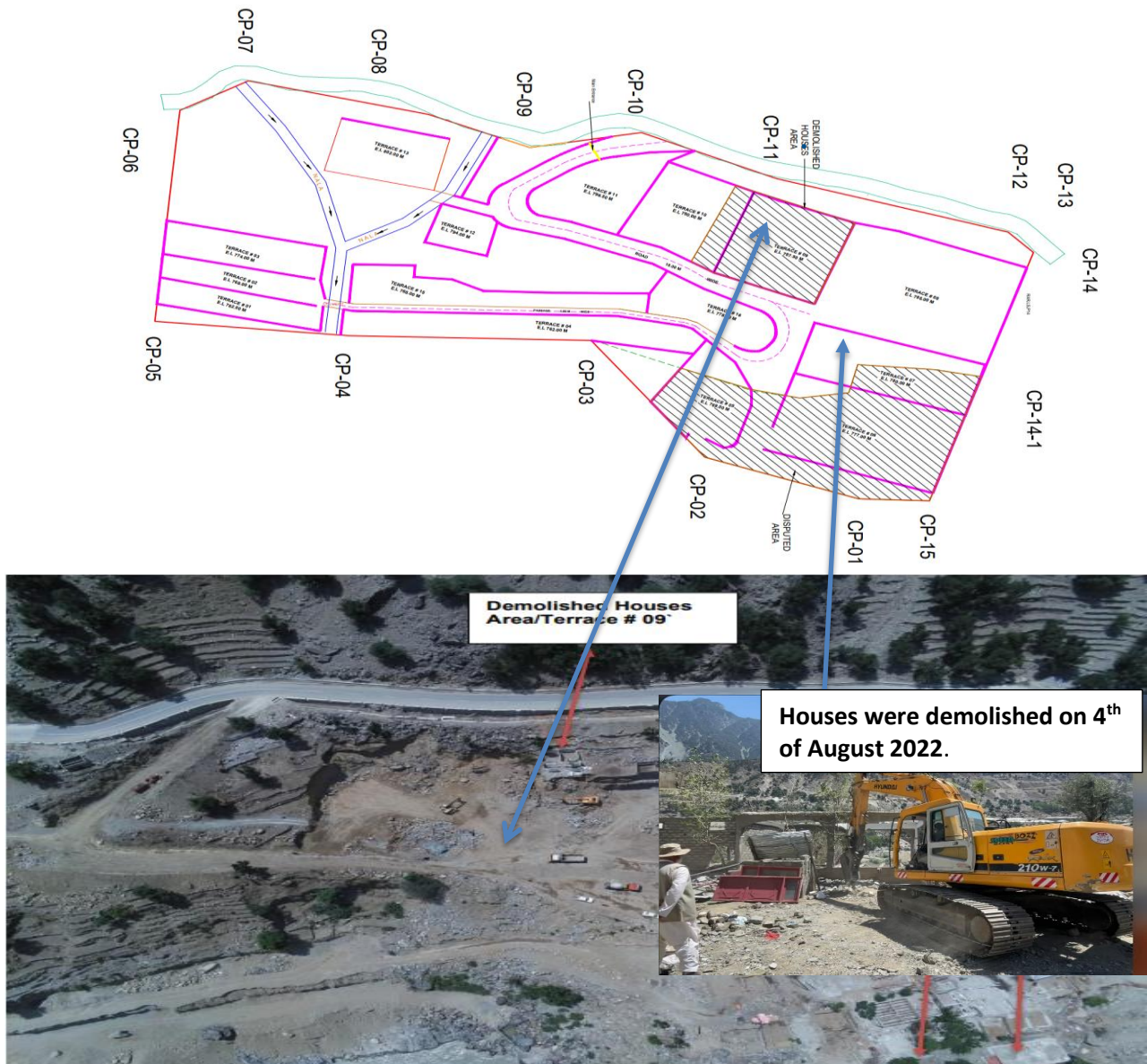
**FDT Tests.**

EM-01(s) Work suspended on 10<sup>th</sup> of August 2022 by locals due to demanding of a subcontract from the Main Contractor

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

The Work was suspended due to local disruption as the per datum of the diem dated 10<sup>th</sup> August 2022 to till Date.

**Demolishing of Locals residential houses**



**Figure: Demolishing of Locals residential houses**



Terrace # 12 was completed on 5<sup>th</sup> of August 2022.

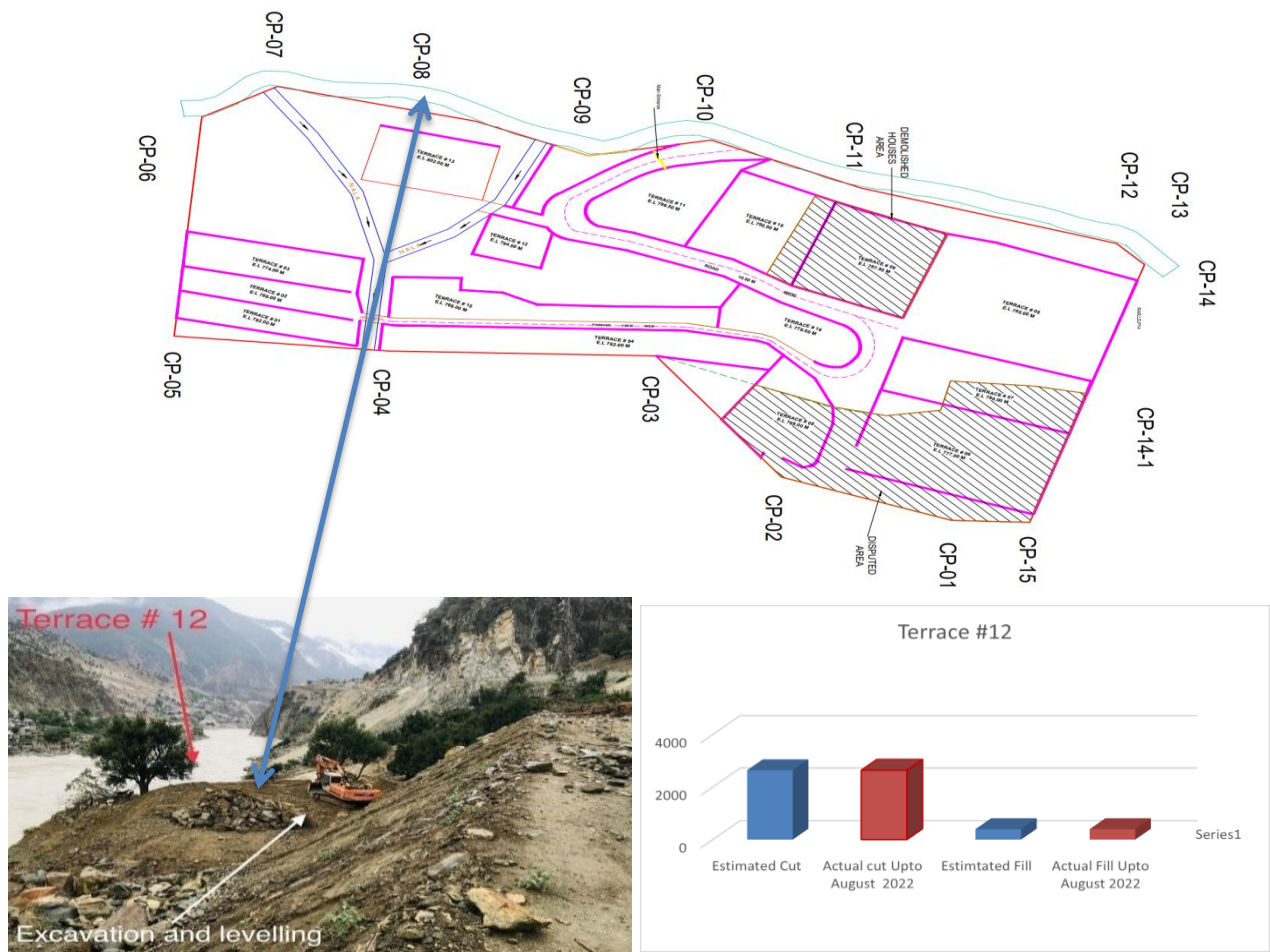
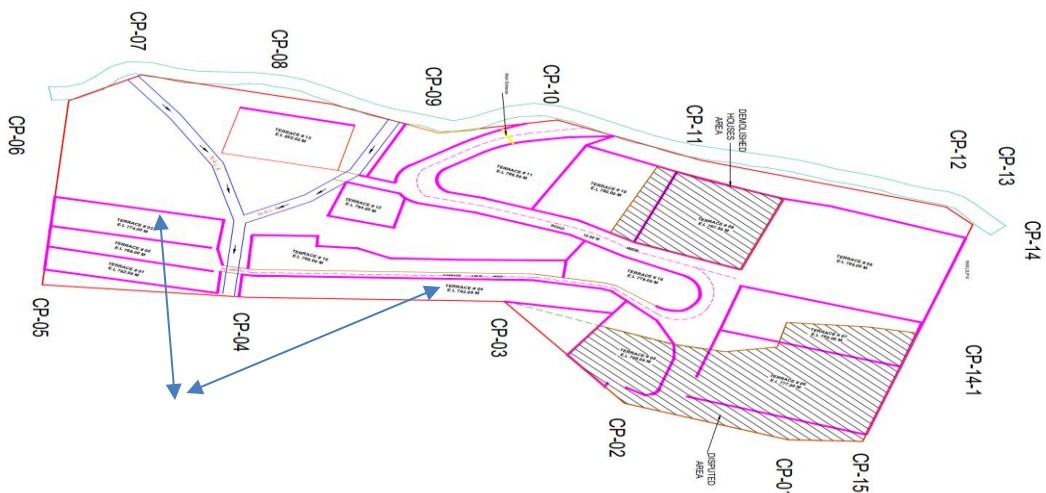


Figure: Terrace 12 Cut and Fill

Terrace #2 Terrace#4



Terrace # 2 boundary wall stone masonry, was suspended on the 10<sup>th</sup> of August 2022 by locals due to demanding of a subcontract from the Main Contractor.

#### 4.12.3.2 Preparatory Works

The Work was suspended due to local disruption as the per datum of the diem dated 10th August 2022 to till Date.

- 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



#### 4.12.4 Equipment Detail

S/No.	Description	List of Machinery/ Equipment		
		Type	Quantity	After suspension of work
1	Excavator Volvo	Tyre	01	01
2	Excavator Hitachi	Chain	01	00
3	Excavator Hyundai	Chain	01	00
4	Dozer	Chain	01	01
5	Roller	Tyre	01	00
6	Tractor	Tyre	02	02
7	Dumper		02	00
8	Water Bowser	Tyre	02	02
9	Concrete Mixer	Automated	01	01
10	Pick up	Suzuki	01	00
11	Car	Corolla	01	00
12	Total Station	Nikon	01	00

The Work was suspended due to local disruption as the per datum of the diem dated 10th August 2022 to till Date.

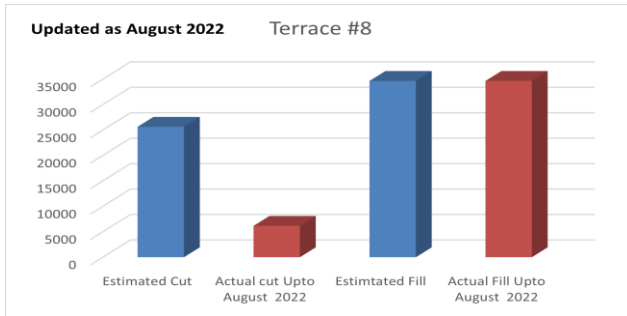
#### 4.12.5 Workforce

B	Manpower			
1	Site Manager		01	00
2	Civil Engineer		01	01
3	Site Supervisor		01	01
4	Surveyor		01	00
5	Survey Assistant		01	00
6	Excavator Operator		04	01
7	Excavator Operator Helper		04	00
8	Roller Operator		01	00
9	Dozer Operator		01	00
10	Driver		04	00
11	Skilled Labor		05	00
12	Unskilled Labor		05	00

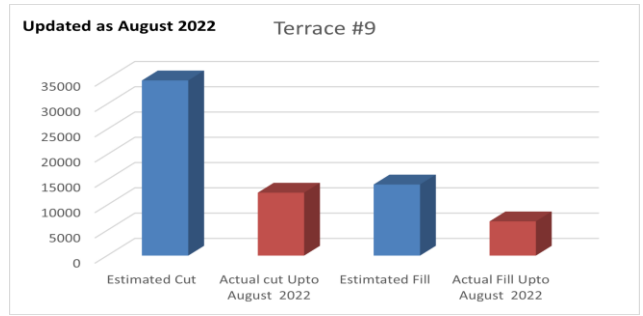
The Work was suspended due to local disruption as the per datum of the diem dated 10th August 2022 to till Date.

#### 4.12.6 Graphs

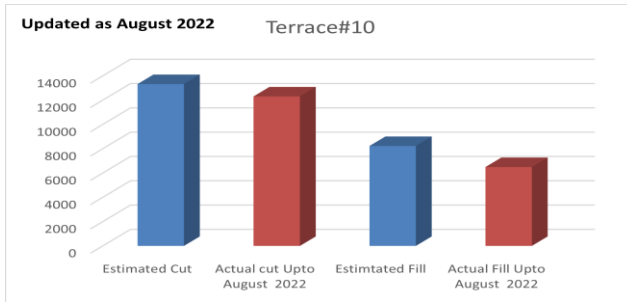
The Work was suspended due to local disruption as the per datum of the diem dated 10th August 2022 to till Date.



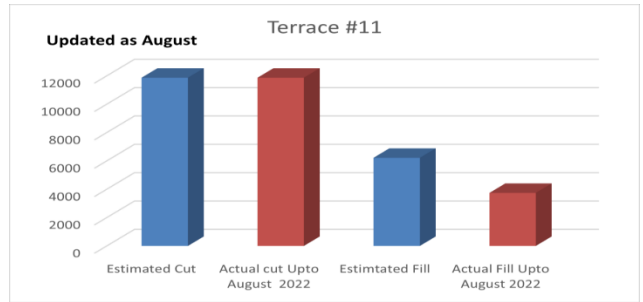
**Figure: Terrace # 8**



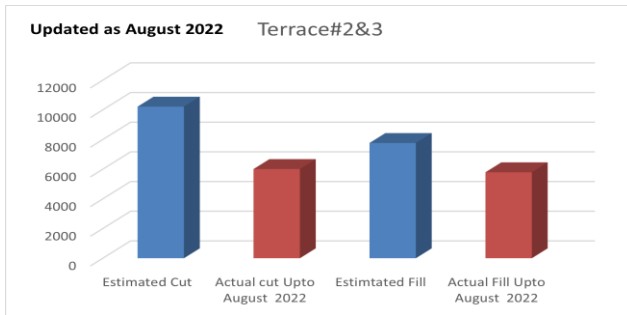
**Figure: Terrace # 9**



**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	Date	JPY	EURO	PKR		
		3,765,402,844	8,628,984	2,726,702,454						
Sr. No.	Inv. No.	Description	Date	JPY	EURO	PKR	Date	JPY	EURO	PKR
1		Mobilization Advance		-	-	-	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 JPY 19.01.2018 & EURO Reimbursable 29.01.2018	32,079,999	44,725	18,701,410
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
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	JPY & EURO 19.07.2019 & 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	43,393,521	180,538	29,659,115
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			30,969,490
136	098	Sep-22	PKR Remuneration 28.10.2022 & JPY & EURO 02.11.2022	51,434,187	189,634	37,806,715				
137	099	Oct-22	PKR Remuneration 15.11.2022 & JPY & EURO 28.11.2022	50,692,917	291,294	37,900,554				
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										
Total				3,539,297,509	10,876,172	5,039,106,174		2,454,585,493	7,822,077	3,527,599,393

**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	Ucher 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	Ucher 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	Gandeeer 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	Bailey 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 Nullah 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 Nullah	2020-21	773,035
593	28/06/2021	Milar to Dogah Nullah 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 Nullah (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 Nullah 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 Nullah 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 Nullah 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 Nullah 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 Nullah 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	0	0	17
KKH-02	0	0	0	0	0	0	0	0	0
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	45	4	51	0	3	0	3	54
MW-02	1	16	4	21	0	1	0	1	22
LBRV-11 &12	2	1	1	4	0	0	0	0	4
PCI-01R	3	7	1	11	0	0	0	0	11
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>97</b>	<b>25</b>	<b>136</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>140</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	0	1	0	0	1	1	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	0	0	1	0	3	0	3*	4
MW-02	1	0	0	1	0	1	0	1**	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>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>4</b>	<b>1</b>	<b>5</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	12	29	0	1	1	30
KKH-02	0	0	0	0	0	0	0
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>56</b>	<b>90</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>91</b>

\*1 Denotes serious potential/act to cause major accident associated with damage to structures/plant/environment or human health systems  
# Denotes damage associated with financial/insurance requirements

#### 6.1.1 Description of Incidents/Accidents

Date of Incident	Location of Incident	Contract	Description of Incident	Category	Corrective Action	Status
28 <sup>th</sup> Nov, 2022	Shear Zone, CR-02, Uchar Camp, Khushi Camp, CR09	MW-01 MW-02	On 28 <sup>th</sup> November, 2022 during 9am to 1:30pm, series of workplace violence incidents happened in between local and non-local workers of CGGC. The violent events started from Shear Zone – DTB, then at Uchar Camp, and escalated to Khushi Camp and finally at CR09. A total of 10 persons were injured and 4 of them were referred to Abbottabad for treatment.	6 LTIs	Detailed RCA report and CAP pending	Open



### 6.1.2 Description of Incidents/Accidents (Non-Work Related)

Date of Incident	Location	Contract	Description of Incident	Category	Reporting/ Corrective Action	Status
12 <sup>th</sup> Nov, 2022	Komila Bypass	RAR-01	On 12 <sup>th</sup> Nov, 2022 at about 4:15pm, a small girl (approximate 9 year old) from local community was passing through an existing access at the back slope of RD K1+700. She tripped and fell down towards the existing path of RAR-01 bypass and received injuries on the right leg thigh. The location, from where the girl fell down was built and used by local community and there was no work on existing RAR-01 bypass	1 MTC	NA	NA

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

Date of Incident	Location of Incident	Contract	Description of Incident	Category	Corrective Action	Status
2 <sup>nd</sup> Nov, 2022	Uchar	CCECC	On 2 <sup>nd</sup> Nov, 2022 at about 9:42 am, While traveling on KKH, a CCECC Vigo turned on the access road to Uchar Crusher Plant and struck against an oncoming CGGC oil tanker vehicle resulting in damage to front bumpers of both vehicles	Minor	NA	Closed

### 6.1.4 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	467 <sup>1</sup>	92	315	28	1160	1236	254	0	100	156	14	4131	
Recordable Injuries & Illness (RI)	0	0	0	0	0	3	1	0	0	0	0	0	4	
Incidence Rate (TRIR, monthly) *	0	0	0	0	0	0.21	0.07	0	0	0	0	0	0.08	
TRIR (Year-to-date)														1.25 <sup>1</sup>
Fatality Case	0	0	0	0	0	0	0	0	0	0	0	0	0	
Fatality Frequency Rate (FFR)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lost time injuries (LTI)	0	0	0	0	0	3	1	0	0	0	0	0	4	
LTI Frequency Rate (LTIFR monthly) **	0	0	0	0	0	0.21	0.07	0	0	0	0	0	0.08	1.0 <sup>2</sup>
First-Aid Cases (FAC)	0	0	0	4	0	2	4	1	0	0	0	0	11	
FAC frequency rate (FACFR, monthly)	0	0	0	1.05	0	0.14	0.3	0.3	0	0	0	0	0.22	
Medical Treatment Cases (MTC)	0	0	0	0	0	0	0	0	0	0	0	0	0	
MTC frequency rate (MTCFR, monthly)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Near-miss Incidence (NMI, monthly)	0	0	0	2	0	4	2	3	0	2	0	0	13	
NMI Investigated & corrective actions taken	0	0	0	2	0	4	2	3	0	2	0	0	13	
% NMI closed	0	0	0	100	0	100	100	100	0	100	0	0	100	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	0	3	0	7	7	2	0	0	1	0	20	
No. of AFI approved	0	0	0	1	0	7	7	1	0	0	0	0	16	
No. of OHS EI issued by DHC	0	0	2	2	2	2	2	2	0	2	2	2	18	
NO of EI Closed	0	0	0	0	0	1	0	0	0	0	0	0	1	
% of OHS EI closed	0	0	0	0	0	50	0	0	0	0	0	0	5.56	
No. of OHS Training	0	0	4	18	4	152	117	2	0	31	5	6	339	
Training (No. Attendees)	0	0	49	291	55	2428	1125	35	0	305	47	38	4373	
No. of OHS NCR issued	0	0	0	1	0	0	1	1	0	0	0	0	3	
No. of OHS NCR closed	0	0	0	1	0	1	1	0	0	1	0	0	4	
% of NCR Closed	0	0	0	100	0	0	100	0	0	0	0	0	133.3	
No. of Toolbox Talks (TBT) by Contractors	0	0	33	41	28	480	480	12	0	70	162	0	1306	
TBT Participants of Contractors	0	0	412	243	275	14400	14400	280	0	859	20742	0	51611	
No of OHS walk-through-Inspections by														
Contractor Management/ Senior Staffs	0	0	0	12	0	5	5	3	0	5	12	0	42	
DHC Management/ Senior Staffs	0	0	0	1	0	1	0	0	0	1	0	0	3	
DHC Supervisors	0	0	0	9	3	18	14	4	0	6	8	0	62	
Contractor Supervisors	0	0	0	67	2	30	30	7	0	25	0	0	161	
Unsafe Acts identified by DHC	0	0	0	7	6	39	11	2	0	4	5	0	74	
Unsafe Conditions identified by DHC	0	0	0	45	15	60	63	20	0	10	13	0	226	
No of Joint Inspections Conducted	0	0	0	1	0	1	0	0	0	1	0	0	3	
<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.

<sup>1</sup> DHC regular employees=356, employees with daily wages=90, Total=446

## 6.2 Safety Performance

In November 2022, 4 LTIs and 11 first aid cases were recorded.

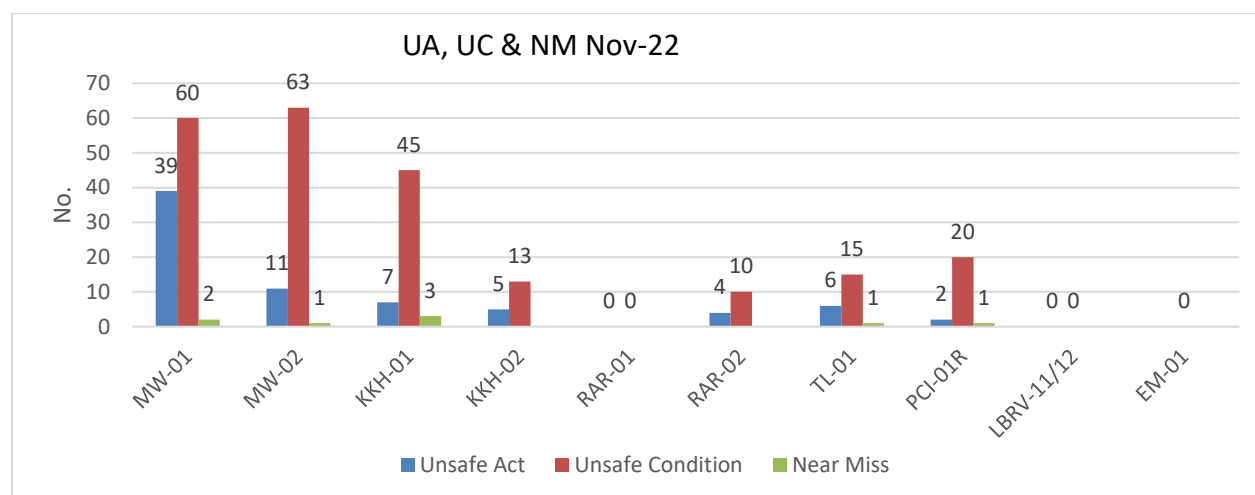
### 6.2.1 Injuries and Illness Performance

Total recordable injury and illness during the reporting month were four and first aid case were eleven. Out of which, three LTI at MW-01, and one LTI was reported by MW-02 contract. As a consequence, monthly TRIR, LTIFR & FACFR of DHPP for November 2022 are estimated as 0.08, 0.08 and 0.22, respectively.

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

74 unsafe acts, 226 unsafe conditions and 6 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.

Below table presents contract wise unsafe acts, conditions and near misses during 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 Nov 2022. All Contractors were instructed to close the remaining issues as soon as possible.

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

Sl.	Contract	OHS MoM Status in Nov-22				
		Total	Open	Partially closed	Closed	New Items added
1.	MW-01/02	18	6	0	7	5
2.	RAR-01	11	3	2	4	2
3.	RAR-02	10	3	0	5	2
4.	KKH-01	16	7	0	3	6
5.	KKH-02	13	4	1	4	4
6.	PCI-01	10	2	2	5	1
7.	TL-01	15	4	0	6	5
8.	LBRV 11/12(Ref Sep-22 MOM)	2	1	0	1	0
	<b>Total</b>	<b>95</b>	<b>30</b>	<b>5</b>	<b>35</b>	<b>25</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	0	1	3	1	5
RAR-01	1	0	6	0	7
TL-01	1	0	2	0	3
MW-01/02	2	1	39	2	44
PCI-01R	1	1	15	0	17
LBRV-11/12	0	0	2	0	2
RAR-02	0	0	1	1	2
LADP SA-01	1	0	0	0	1
LADP JMK	0	0	0	1	1
<b>Total</b>	<b>6</b>	<b>3</b>	<b>68</b>	<b>5</b>	<b>82</b>

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

OHS team of DHC conducted six 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	1	0	1
2.	RAR-01	0	0	0
3.	RAR-02	1	0	1
4.	KKH-01	1	0	1
5.	KKH-02	0	0	0
6.	PCI-01	0	0	0
7.	TL-01	0	0	0
8.	LBRV 11/12	0	0	0
9.	EM-01	0	0	0
10.	LADP	0	0	0
<b>Total</b>		<b>3</b>	<b>0</b>	<b>3</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.	November 20, 2022	Communicable Diseases	Mr. Muhammad Iqbal (Dep. Lead OHS)	DHC & Contractor OHS Staff	17
<b>Total</b>					<b>17</b>

### 6.2.7 Plant and equipment Inspection

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

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	7	4	0	0	2	0	1	0	0	0	0	0	0	0	1	0	0	10	5
KKH-02	0	0	0	2	2	1	13	0	3	0	0	0	5	1	3	0	0	26	4
RAR-01	20	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	21	4
RAR-02	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	1
132kV TL	12	1	2	0	3	2	1	0	0	0	0	0	0	0	0	0	0	18	3
MW-01	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
MW-02	75	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	76	6
LBRV-11/12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PCI-01R	10	0	1	0	0	0	0	0	0	0	0	0	2	0	1	0	0	14	0
EM01	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1
LADP-IKAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LADP-KGL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DHC	41	8	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	48	9
<b>Total</b>	<b>170</b>	<b>24</b>	<b>10</b>	<b>3</b>	<b>7</b>	<b>3</b>	<b>17</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>3</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>219</b>	<b>33</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	467	84	0	0	84
3.	MW-01 and MW-02, KKH-02, RAR-02	2652	124	0	0	124
4.	KKH-01 & RAR-01	407	24	0	0	24
5.	PCI-01R	254	16	0	0	16
6.	LBRV-11&12	0	0	0	0	0
7.	TL-01	28	0	0	0	0
8.	EM-01	14	0	0	0	0
9.	Total	<b>4131</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 Oct-22	No. of Participants
1.	RAR-01	4	49
2.	RAR-02	31	305
3.	KKH-01	18	291
4.	KKH-02	5	47
5.	TL-01	4	55
6.	MW-01	152	2428
7.	MW-02	117	1125
8.	PCI-01	2	35
9.	LBRV 11/12	0	0
10.	EM-01	6	38
<b>Total</b>		<b>339</b>	<b>4373</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 Sep-22	No. of Participants
1.	RAR-01	33	412
2.	RAR-02	70	859
3.	KKH-01	41	243
4.	KKH-02	162	20742
5.	TL-01	28	275
6.	MW-01	480	14400
7.	MW-02	480	14400
8.	PCI-01	12	280
9.	LBRV 11/12	0	0
10.	EM-01	0	0
<b>Total</b>		<b>1306</b>	<b>51611</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,

- Prepare OHS budget for the revised PC1,
- Review and edit November 2022 monthly report and Quarterly report (July-September 2022),
- Review Method Statement of Stringing Operation of TL01 and make comments on risk assessment, responsible person, emergency response measures,
- Review Inception Report of External OHS Auditor and prepare comments for PMU,
- Review MW01 Contract for Blaster Experience and advise DHC field team about the contractual requirements, and
- Review various letters and engineer's instruction and provide input to finalize them.

#### **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 November 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 reporting month, a total amount of PKR 19.25 billion was paid, including PKR 18.90 billion to 7,801 PAPs through 11,566 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 month of November 2022, DC office did not released compensation payment cheques to any PAP.

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

S. No.	Component	PAPs	Cheques	Amount
1	-	-	-	-
	Total	-	-	-

##### 7.1.3 Land Revenue Survey:

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

- Revenue Survey of Gumoon file-2: All process have been completed and we have received Revenue Record. But during process in GIS section, some observations were noticed and the case sent back to DC office for rectification which is still awaited.
- Revenue Survey of Shatial file-4: During record processing at GIS section, some observations were noticed and the case sent back to DC office for rectification which is still awaited.
- Revenue Survey of CGGC Crush Plant Seo. We have received Revenue Record and case is under process in GIS section for verification

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	LOR Shatial Limits to Shatial Nallah Area-2	17.10.2022	19.11.2022
2	LOR Shatial Limits to Shatial Nallah Area-3 Part-A	17.10.2022	19.11.2022
3	LOR Shatial Limits to Shatial Nallah Area-3 Part-B	17.10.2022	19.11.2022
4	LOR Shatial Limits to Shatial Nallah Area-4	17.10.2022	21.11.2022
5	Rectified ROR Dogah end point to GAYAL Nala Area-1	24.10.2022	18.11.2022
6	RAR-01 Add Land Zaal Area-3	30.10.2022	04.11.2022
7	LoR Shatial Limits to Shatial Nullah Area-05	04.11.2022	23.11.2022
8	Rectified Revenue Record of RoR Dogah End point to Gayal Nullah Area-01	22.11.2022	30.22.2022

### 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	RAR-01 Additional Land (Zaal-03)	19.11.2022	21.11.2022	225,022.00
<b>Non-Fruit Trees</b>				
1	Bailey Bridge Gumoon Looter Right Side Area-1	01.11.2022	12.11.2022	3,307,491.00
2	RAR-01 Additional Land (Zaal-03)	19.11.2022	21.11.2022	17,080.00
<b>Fruit Trees</b>				
1	Bailey Bridge Gumoon Looter Right Side Area-1	01.11.2022	12.11.2022	18,992,510.00
2	Bailey Bridge Gumoon Right Side Area-02	25.11.2022	29.11.2022	1,078,410.00

### 7.1.5 Draft Sections/Corrigendum issued.

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

### 7.1.6 Meeting of Compensation Disbursement Committee (Attended) October, 2022.

No CDC meeting during the month of November, 2022

### 7.1.7 GIS Verification

The GIS Team processed the GIS verification of 14 received components (with an estimated area of 1631.4 Kanals / 204 acres) during the reporting months, out of which GIS Certificate was issued for three components (388.25 Kanals / 48.53 acres), while GIS verification of one component (122 Kanals / 15.26 acres) was returned back to LAC/DC Office with observations for further rectification and ten components (1121 Kanals / 140 acres) are with GIS section in progress, Details are given in the Table below;

S. No.	Component	Area			Remarks
		Kanal	Marla	Sarsai	
1	Uchar Nullah Additional land Access Road to Logro Tunnel Outlet Portal	9	9	6	Observations sent to LA section dated 05-11-2021. Rectified Record Received 12-11-2021. Certificate issued at SI-2019 dated 15-11-2021.
2	RAR-01 Additional Land Zaal Area-3	0	8	0	GIS Certificate issued at SI-2019 dated 03-11-2022.
3	Dogah Nallah to Gayal Nallah File-1	378	7	7	GIS observation sent to LAC at SI-2019 Dated 07-10-2022 Rectified revenue record received dated 02-11-2022 and again on LAC order site visited, and 2nd observation sent to LAC office. Rectified record received 25-11-2022 and GIS certificate issued dated 29-11-2022.
4	Shatila limits to Shatila Nullah file-4	122	2	3	GIS letter for masavi correction sent to LAC office dated 21-11-2022.
5	Shatila limits to Shatila Nullah file-2	116	8	8	GIS observation sent to LAC office dated 19-11-2022 and rectified record received 23-11-2022. but survey data awaited.
6	Shatila limits to Shatila Nullah file-3 (Part-A)	68	9	3	GIS observation sent to LAC office dated 19-11-2022 and rectified record received 23-11-2022. but survey data awaited.
7	Shatila limits to Shatila Nullah file-3 (Part-B)	5	4	3	GIS observation sent to LAC office dated 19-11-2022 and rectified record received 23-11-2022. but survey data awaited.
8	Shatila limits to Shatila Nullah file-1	162	4	4	GIS work done on record and survey data awaited from DHC Survey Section
9	Shatial Nallah to End of Reservoir File-1	45	9	5	GIS work done on record and survey data awaited from DHC Survey Section

S. No.	Component	Area			Remarks
		Kanal	Marla	Sarsai	
10	Shatial Nallah to End of Reservoir File-2	38	7	6	GIS work done on record and survey data awaited from DHC Survey Section
11	Shatial Nallah to End of Reservoir File-3	49	10	0	GIS work done on record and survey data awaited from DHC Survey Section
12	Shatial Nallah to End of Reservoir File-4	44	11	4	GIS work done on record and survey data awaited from DHC Survey Section
13	Shatial Nallah to End of Reservoir File-5	542	1	0	GIS work done on record and survey data awaited from DHC Survey Section
14	Shatial Nallah to (Harban) End of Reservoir File-6	48	12	5	GIS work done on record and survey data awaited from DHC Survey Section

The GIS Team has completed following activities during the reporting month:

- i. Shatil Limit to Shatial Nallah Area five Revenue component's five Masavi Clipped, Geo referenced, Parcel Digitized and Attribute data entered for GIS land verification. Following is the Component name.
  - Shatil Limit to Shatial Nallah Area-1
  - Shatil Limit to Shatial Nallah Area-2
  - Shatil Limit to Shatial Nallah Area-3A&B
  - Shatil Limit to Shatial Nallah Area-4
  - Shatil Limit to Shatial Nallah Area-5
- ii. Satellite Imagery 2019 is Clipped and Rectified according to the Shatial area masavi and Georeferenced.
- iii. Contour data prepared from survey point data and Survey of Pakistan (SOP) contour compared of different elevation like 950m, 955m 960m and 970m of Shatial Area.
- iv. Seer Gayal site visited of Dogah End Point to Dogah Nullah File-1 Revenue component for land verification with line departments.
- v. Prepared education facility map for WAPDA and World Bank of Chuchang and Khoshi Area. Distance measured from relocated sites and from existing villages (Khoshi and Chuchang) sites to Government schools of GPS, GGPS and GHS.
- vi. Prepared maps of KKH-2 with RDs and all priority areas with built-up structures for further road construction progress.
- vii. Appeared in Dasu Civil Court for submission of data of "Meera Jan" Case on Chairman WAPDA and on others including GIS team.
- viii. Map prepared for checking Transmission line overlapping / crossing of two power lines 132kva and 765Kva. The map was made for NTDC meeting.
- ix. Demarcated slide areas from Dasu Dam site to Basha Dam Axis for Geology section.
  - 16 Sheets Digitized.
  - Referenced files (DWG) produced for Major(50m) & Minor(10m) Contour Mapping.
  - Prepared (16) Drawings on 6km interval of Existing Karakoram Highway to El.2000m.
- x. Prepared Drawings of KKH-02 tunnels and bridges start point to End point with longitudinal sections and cross sections about 28 Sheets.
- xi. KKH-02 tunnels and bridges start and end point longitudinal cross sections prepared for sub surface geology marking for Geology Section.
- xii. Prepared drawing for checking progress of underground works like tunnels, powerhouse & transformer cavern for MW-02 Section.
- xiii. Built-up structure map of Khoshi access road area prepared for analysing structures where amount paid and rejected structures.
- xiv. Built-up structure map of KKH-01 area prepared for analysing structures where amount paid and rejected structures.
- xv. Relocated KKH-02 Construction phase revised plan, profile and section 94 drawings prepared from km 24+710 to km 55+950.
- xvi. KKH-02 Construction phase Prepared Maps with SI-2019(22 Sheets) Priority wise House hold data as per required Contractor.
- xvii. Prepared road Location plan of Relocated KKH-02 after change in alignment and road design.

### **7.1.8 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.

### **7.2 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 November 2022 are given below:

#### **7.2.1 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 November 2022, the following activities were carried out:

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

During the reporting month, 21 files of Special Project Allowances have been prepared for the RV Nasirabad-01 and 14 files of special project allowances have been prepared for RV Nasirabad-02 including all admissible allowances. While preparing the project allowances files S&R team faced the issue of revenue & C&W record of Gul e Bagh reservoir area which is not yet finalized as majority of the affected households resettling in both RVs are affecting from Gul e Bagh reservoir area. Moreover finishing work is in progress on the mentioned RV by the contractor.

**b) Resettlement Site Khushi-1**

During the reporting month S&R team completed files of 79 AHHs relocating to Khushi-01 for payment of the Special Project Allowances. The handing taking over documents and certificates have also been prepared and printed. Moreover finishing work on the mentioned RV is in progress by the contractor.

**c) Resettlement Site Uchar -1**

During the reporting month S&R team prepared files of 17 AHHs relocating to Resettlement Site Uchar – 01 for payment of Resettlement Allowances and Special Project Allowance of PKR 500,000/AHH, the resettlement allowances including relocation grant @Rs.100/ per square meter and reconstruction grant @Rs.250/ per square meter of the existed house.

The cutoff date for Temporary Relocation Package (TRP) payment has been proposed 31st October, 2022 for all AHHs getting TRP. WAPDA will also pay Temporary Relocation Package (TRP) to RVs Affected households from the cutoff date (31st October, 2022) for upcoming 6 month (1st November 2022 to 30th April, 2023) during this period the AHHs will complete their construction process.

Handing taking documents has been prepared/ finalized and submitted to WAPDA office on 12-10-2022 for onward arrangement of funds so that the completed RV could be handed over to the AHHs for timely initiation of their houses construction.

As WAPDA office decided to postponed handing taking of RS Uchar-01, due installments of TRP will be paid to AHHs till further decision. S&R team collected all files from WAPDA office and working on preparation of files for TRP payment process.

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

There are three links (Groups) in Khushi resettlement site-2. In Khushi -2 Link-1 there are 07 AHHs having nine plots as WAPDA also paying Temporary Relocation Package (TRP) up to 31st October 2022 which is the cutoff date for all seven RVs.

S&R team also prepared resettlement handing taking documents of 7 files of AHHs and submitted to WAPDA office on 20-10-2022 including;

- Handing-over documents/Signed Statement, including all project allowances of 07 HHs
- Handing over certificates for each AHHs;
- Sheet of Resettlement Site Development Issues with Remarks of RE Infrastructure

The remaining TRP installments ahead from the cutoff date will be paid at the time of handing over site. The detail case has been submitted to WAPDA on 20-10-2022 for further funds arrangements. Moreover, finishing works are also in progress on the mentioned RV.

As WAPDA office decided to postponed handing taking of RS Khushi, due installments of TRP will be paid to AHHs till further decision. S&R team collected all files from WAPDA office and working on preparation of files for TRP payment process.



**e) Resettlement Site Chuchang-01**

There are three main blocks/ groups in this RV including Chuchang -1, Passand Khan and Additional, work on two blocks are in progress while Chuchang additional block has completed in all respect except electricity and water supply scheme.

S&R Team prepared the resettlement documents including, handing over signed statement, AHHs certificates, project allowances sheets and field visit report for 24 AHHs for payment of all due allowances to WAPDA on 11-10-2022. WAPDA office decided to postponed handing taking of RS Chuchang 01, due installments of TRP will be paid to AHHs till further decision. S&R team collected all files from WAPDA office and working on preparation of files for TRP payment process.

**f) Resettlement Site Chuchang-04**

S&R Team prepared the resettlement documents including, handing over signed statement, AHHs certificates, project allowances sheets and field visit report for 30 AHHs for payment of all due allowances. WAPDA office decided to postponed handing taking of RS Chuchang 04, due installments of TRP will be paid to AHHs till further decision. S&R team is working on preparation of files for TRP payment process.

**g) SMR Implementation Progress**

- i. By the end of November 2022, an amount of Rs. 2,554.70 Million have been paid to 731 Affected Households. So far, 882 cases have been approved after field verification and Review process. ESMR Cheques of remaining 199 have also been prepared and the payment is in progress.
- ii. The progress of receiving cheque remained slow as the community is not coming to receive their cheques mainly due to their rejected cases. 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 as early as possible.
- iii. The SMR Working Committee have almost completed all targeted files (1878) while Field Verification Committee remained busy in field verification of remaining villages. Field verification of 1,776 cases was completed by end November 2022.
- iv. The Field Verification Team verified about 476 AHHs during the reporting month and completed verification in Kandia (Thuti, Sluch, and Kotgal), Nutbail, Warisabad Summar Nullah, Lachi Nullah, and Sazeen areas while the Review & Scrutiny Committee reviewed all the forwarded cases and about 882 cases were recommended and approved by RSC and SMR-IC for ESMR payments.
- v. The SMR Committees also kept engage in revising the referred back files as per the comments of Review & Scrutiny Committee (RSC) and Payment Committee (PC).
- vi. 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.
- vii. 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.
- viii. The team completed the list of 79 additional households and submitted to WAPDA for approval. WAPDA office has approved 28 cases from Kuz Chuchang village and provided list to Working Committee for preparation of ESMR files.
- 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 40 houses from 8 priority villages.

**h) Status of TRP Payment**

At the end of November 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 Coloney 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	<b>448,784</b>
2	Khushi Access Road	10	638,938	0	0	<b>638,938</b>
3	Tailrace Area Kuz Chuchang	13	1,555,708	0	0	<b>1,555,708</b>
4	Barseen	12	1,282,790	0	0	<b>1,282,790</b>
<b>Total</b>		<b>43</b>	<b>3,926,220</b>	<b>0</b>	<b>0</b>	<b>3,926,220</b>

**i) Other Major Activities Carried Out by R&R Team**

The following other major activities were carried out by R&R team during October 2022:

- i. Prepared Project Allowance sheet of 24 files and reviewed missing documents of referred back files
- ii. On 1st and 2nd November, the S&R team visited Kaigah dumping Area, Gadeer Reservoir Area-01, Pani bah Access road, Pani bah Reservoir Area, Chilashi to looter reservoir area 1& 2 Looter Reservoir Area, Gobar Nullah Access Road, Dumping Area Summar and Shukrait to Shuri Nullah Reservoir Area and verified the commercial structures. Many discrepancies in revenue, C&W and GIS record were notices. A detailed report on all identified commercial structure within the jurisdiction on mentioned components was prepared and shared for further necessary actions.
- iii. Reviewed TRP Files of Nasirabad 1&2 Resettlement village and prepared handing taking documents including allowance sheet and Certificates
- iv. Attended 48th meeting of Review & Scrutiny Committee (RSC), reviewed and scrutinized 48 ESMR files pertaining to various components of Kotgal area. Completed files have been furnished to SMR-IC, the doubt full files are referred back to Working Committee (WC) for further needful actions.
- v. The S&R team visited Chuchang Resettlement Site-01 to inspect the backfilling of Mr. Haroon Khan plots as he has excavated his plots by himself and sold the sand crush to CGICOP. It has been found that major portion of Haroon & brother plots have been filled by them and a small portion is yet to be done. It is worth mentioning here that these backfilled materials have not been compacted by the plot owners.
- vi. Meeting regarding relocation of AHHs on TRP with Chuchang Community has been done as per instructions of Chief S&R. All the AHHs were not present in this meeting, so another meeting was scheduled with the community to take any appropriate decision.

- vii. On 28-11-2022 S&R team arranged a consultation meeting with the resettling households of RV Chuchang-01. The agenda of this meeting was to make them convinced for early relocation/vacation of their houses as needed by the contractor. They have been told that on need basis you have to vacate your houses as your resettlement site is yet not completed so the project shall pay you the Temporary Relocation package (TRP) @ 15000 PKR per households. After detailed discussion the AHHs asked for more time for their mutual discussion and reorganize meeting on same agenda points on Nov 30, 2022. On 30-11-2022 the second round of meeting was organized. The representatives of the community excused to vacate their houses before March 31<sup>st</sup> 2023 as it is difficult for them to relocate their families in harsh winter season, secondly, they argued that due to high demand of houses in Komila/Dasu town as a result of seasonal migration they are not able to find suitable dwellings for their relocation

### **7.3 Public Consultation and Participation**

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

#### **7.3.1 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. Mr. Hajat Nabi from Khushi 2 Link 1 has submitted an application for the construction of the Masjid at his Resettlement Site. In this regard, after detailed discussion with technical and design team, a meeting was convened with Mr. Hajat Nabi to identify a suitable land for the purpose. The applicant suggested two pieces of land earlier but that was rejected by Infrastructure section. Lately, he was asked to show other piece of land, if he wanted to have a masjid in the RV. Mr. Hajat Nabi said that he has another land available for masjid. The Survey section was instructed to get the coordinates and hand over to design team of Infrastructure section for further assessment of the land and finalize the masjid for Resettlement Site.
- ii. During the month of October, a meeting was held with DG (SS) in his office regarding the work stoppage by Mr. Haroon on his plots at Chuchang 1 RV, it was decided that Mr. Haroon will provide an affidavit that he will not create any interruption to work by any mean. Mr. Haroon visited the office to submit the required affidavit. He raised the issue that his plots level is not as per requirement, for which he was told that the design of the plots was revised on his request for three times and it was caused by those alterations. Currently design team cannot change the levels of plots due to road and sewerage line has been already finalized. The issue was resolved.
- iii. A meeting was held with Mr. Madad Khan regarding the stoppage of work at PCI-01 (WAPDA Offices and Colony). According to Mr. Madad Khan, the sewerage disposal of the colony will affect the houses beneath the proposed designed disposal. His concerns were discussed with Design Engineer of infrastructure section. According to him, the disposal design is finalized by keeping such reservations in mind and its secure to be leaked and as it is a concrete tank so there will be no chance of smell or leakage. The same was conveyed to Mr. Madad khan and he was convinced for this detailed reply. He agreed to resume the work. The issue was resolved.

#### **7.3.2 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.

- i. The contractor contacted DHC regarding the work stoppage on RAR – 02 at Kandia Bridge near Seer Gayal. The PC & P team consulted with the person in this regard. The felon told that during the GIS Verification of his land, some of the land category was changed. For which he has submitted the application. He was told that the land on which contractor is currently working has been acquired and all the dues (compensation, land payments etc.) are paid. He also told that you should follow up your application and get the issue resolved in the office. He was convinced and agreed to resume the work. The issue was resolved.

### 7.3.3 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.

### 7.4 Income and Livelihood Restoration

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

#### 7.4.1 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**

Sr. No	Village Name	Component Name	Submitted on
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	
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	

Sr. No	Village Name	Component Name	Submitted on
		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.

#### 7.4.2 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.

##### 7.1.1. Other Major Activities carried out during the Month

- i. Visited deferent villages such as Pani Bah, Gadeer, Chillasi, Looter, Shori Nallah and Summar Nallah for verification of Commercial Structures.
- ii. Meeting with Health Department Officials along with Gender Specialist regarding LHVs selectin criteria and proposal for LHV course. For LHV course candidates must have at least matric in Science.
- iii. During the month prepared 136 files and Handing taking Certificates of which includes 79 files of Khushi-1, 24 files of Chuchang 1 and 33 files of Chuchang site 04 for payment of Special and resettlement project allowances
- iv. During the month, total 60 SMR paid files received from DC office for project allowance and document scanning for office record. Prepared duplicate copies of paid files and submitted to WAPDA office for payment of project allowances.

#### 7.5 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.</li> <li>➤ 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>



**Dasu Hydropower Project**  
**Monthly Progress Report No. 100 (November 2022)**

Sr. No	ID	Scheme	Description of Scheme	Tentative Cost (Million PKR)	Status By Reporting Month
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 Nulah 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> <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>

## 7.6 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). Following major activities were carried out during the reporting month (November 2022);

- i. The case for the purchase of two ambulances for health department Kohistan (upper) has approved by the Authority in its meeting held on November 18, 2021. Total Budget is 20 Million PKR. Bidding has been completed. Bids were opened on 12<sup>th</sup> September 2022 and purchase order has been issued to winner bidder.
- ii. Held meeting with DG Health Office Khyber Pakhtunkhwa Peshawar on September 28, 2022 for collecting Health data of the health centers of Upper Kohistan for Health Surveys of Upper Kohistan by Dasu HPP.
- 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.

### **7.7 Gender Implementation Plan (GIP)**

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

- i. A qualified and experienced matured teacher has been identified; appropriate to Kohistan culture for the skill development course in Kuz Chuchung Village. A contract for the identified teachers has been developed, documentation and CVs were collected and shared with WAPDA office for approval. Procurement of approved items in the approved proposal has been started as per WAPDA SOPs.
- ii. Gender Sensitive communication messages are reviewed for girls education promotion.
- iii. A coaching session with district Khateeb has been carried out and various issues and their redressal mechanisms were discussed. After a detailed discussion District Khateeb made a strong commitment to cover the subjects of girls education and forced marriages during his Friday Sermons and will launch a campaign with the help of local Kohistan Media for a wider outreach and also extend their support in this relation.
- iv. Informal coaching sessions with local staff members is a continue process and impacting positively. Two Local staff members have facilitated identification; family agreement for LHV two years course; provided their documents and consent of elders.
- v. A formal Letter of Understanding (LOU) with National Commission on Human Development (NCHD) has been developed and reviewed for running 1 10 months Literacy Course for the women and girls of Bari Rango village; where there is no school and other educational opportunities.

### **7.8 Implementation of Communication Plan**

Following major activities were carried out during the reporting month

- i. Public dealing in the Public Information Centre and sharing information regarding Dasu HPP with local community and general public (continuous activity).
- ii. Preparation of Content for Digital Display Screen (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).
- 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. Displayed ICC T20 world cup matches between Pakistan vs South Africa and Pakistan vs New Zealand on SMD screen installed on Jamil Plaza in Komila Bazar.
- ix. 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.
- x. 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.

### **7.9 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.

### **7.10 Migration Management**

The In-migrant Management Specialist of DHC resigned and left the job during February 2022. Major activities related to In-migration Management were carried out by the Assistant Director In-migrant Management during the reporting month (October, 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 (October, 2022). Based on the workforce data received from various contractors and other organizations a total of 4,023 workers / staff were estimated. Out of total (4,023); 1,793 (45%) were locals, 1,641 (40%) were non-local national, while 589 (15%) were foreigners. A total of 26 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 November, 2022:

In-migrants at Dasu Site Data, As on Reporting Month									
Sr. No	Components	Contracts	Locals	Non-Locals		Foreigners		Component wise Total	Total
			Male	Male	Female	Male	Female		
1	WAPDA/LA&AU	WAPDA-DHHP	190	166	0	0	0	356	356
2	Dasu HPP Consultants	DHC-DHPP	217	124	2	22	0	365	365
3	M/s PCCC	MW-01	586	395	0	164	7	1152	2387
4	M/s ZEGL	MW-02	415	229	0	213	14	871	84
5	M/s CCECC	RAR-02	43	41	0	21	0	105	405
		KKH-02	146	65	0	48	0	259	
6	M/s CGGC	RAR-01	66	26	0	5	0	97	399 193 79
		KKH-01	51	186	0	63	2	302	
		PCI-01R	27	156	0	9	1	193	
		DASU-RV	12	67	0		0	79	
7	M/s CGICOP	TL-01	20	85	0	14	0	119	119
8	M/s KGL	LBRV-11&12	5	52	0	5	0	62	62
9	Management Support Consultants	LADP	4	40	0	0	0	44	44
10	IKAN	Consultant	11	7	0	1	0	19	19
<b>Total</b>			<b>1793</b>	<b>1639</b>	<b>2</b>	<b>565</b>	<b>24</b>	<b>4023</b>	<b>4023</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).

### 7.10.1 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. Field inspection of contractor M/s CGGC construction sites at RAR-02 start point (K-13), CR-09, DT-A and Dasu regarding monitoring of workers accommodation, facilities provided by the contractor and non-compliances at construction site and meeting with Management to facilitate workers for upcoming winter season.
- iii. Visits to contractor's M/s CCECC camp at Chuchang, Dasu and Zero Point regarding monitoring of workers accommodation, facilities provided by the contractor at camp and site as well and non-compliances and meeting with Management to facilitate workers for upcoming winter season.
- iv. Field visit to CGICOP Chuchang colony inspection regarding monitoring of workers accommodation, facilities provided by the contractor and non-compliances at construction site.
- v. Collection of data from M/s PCCCL (TL-01), CGICOP, CGGC, CCECC, IKAN and KGL and update in monthly data sheet.
- vi. Meeting with admin section of LAAU staff for updating their data.
- vii. Meeting with S&R team (DHC) regarding data collection and sharing of updated and accurate data.
- viii. Drafting letter subjected "provision of Minimum Wages Rates as per Government of Khyber Pakhtunkhwa" and submitted to DHC for further circulation and necessary actions.
- ix. Drafting letter subjected "Employment of Local drivers with contractors" on complaint received from Deputy Commissioner by local drivers in M/s CGGC contractors and submitted to DHC for comments from CGGC and necessary actions.
- x. Drafting letter subjected "Medical Health screening test and certificate" and submitted to DHC for further circulation and necessary actions.
- xi. Preparation of Assistant Director and Supervisor Migration management working assignment and performance presentation for DG(SS) and submit the presentation to DD (R&R).

- xii. Meeting with Mr. Muhammad Shah complainant of M/s ZEGL regarding salary issue. Contractors' stance that he was terminated after flood because ZEGL shifted to Colony while Complainant says that ZEGL didn't give any notice. The meeting will be held again next week.

### 7.11 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.

#### 7.11.1 Monitoring of Compensation Payment Process at DC Office

During the month of November 2022, DC office did not released compensation payment cheques to any PAP. By the end of reporting month, a total amount of PKR 19.25 billion was paid, including PKR 18.90 billion to 7,801 PAPs through 11,566 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.

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	7656	11566	18.74	145	217	0.16	18.90

#### 7.11.2 Monitoring of Lease and Compensation Payment Process for Kass Area at WAPDA Office

During November 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>

#### 7.11.3 Accounts Adjustment Submissions to WAPDA

Preparation and submission of summaries and supporting documents for Accounts Adjustment remained in progress. M&E Team remained engaged with WAPDA account team for verification of accounts adjustment summaries with supporting booklets and submitted 810.6 million as an account adjustment against 52 components.

S. No.	Components	Status by Previous Month	Status during Reporting Month	Grand Total
		Amount	Amount	Amount
1	Final Summaries Submitted to WAPDA	16,864,016,575	1,146,804,819	18,010,821,394
2	Preparation of Summaries and Supporting Booklets	18,145,309,884	1,015,427,209	19,160,737,093

#### 7.11.4 Monitoring of Temporary Relocation Payment (TRP) and Allowances to Affected Households

At the end of November 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.

Since, August 2022, S&R team engaged in preparation of files for payment of resettlement allowance. By end of reporting month, resettlement allowances released to 180 AHHs who already received their ESMR Package. A total amount of PKR 4.897/- million is paid on account of resettlement allowances

During November 2022, resettlement allowances were paid to 08 AHHs, total amount of PKR 196,591/- 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	143	4,070,258	7	154,972	150	4,225,230
2	Priority II Villages	29	630,830	1	41,619	30	672,448
3	Priority III Villages	0	-	0	-	0	-
	<b>Total</b>	<b>172</b>	<b>4,701,087</b>	<b>8</b>	<b>196,591</b>	<b>180</b>	<b>4,897,678</b>

### 7.11.5 Preparation and Review of Files and Payment of ESMR Package

During November 2022, a total amount of PKR 168.0 million paid as ESMR package to 48 AHHs. By the end of reporting month ESMR package was paid to 731 AHHs of batch-1, 2, 3 and 4, total amount paid on account of ESMR is PKR 2,554.70 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	305	1067.50	16	56.00	321	1123.50
3	Batch-3	966	275	962.50	32	112.00	307	1074.50
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>683</b>	<b>2386.70</b>	<b>48</b>	<b>168.00</b>	<b>731</b>	<b>2554.70</b>

### 7.11.6 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 10,495 (92% of total cheques/Qabzul Wasools) have been entered in MIS. Data entry of remaining Qabzul Wasools is in progress, a backlog of 899 Qabzul Wasools recorded by end of the reporting period.
- Total 48 SMR cheques issued to AHHs by Nov 30, 2022, all issued cheques were entered in MS Excel Database and MIS.
- Resettlement allowances cheques were issue to 08 AHHs by end of reporting period, all these issue cheques entered in MS Excel database and updated summary tables.
- Compensation Payments Summary tables & progress reports were updated during the reporting month.

## 7.12 Development of Management Information System

The following activities were carried out by MIS team during the reporting month:

### 7.12.1 Development of Communication Module

During the month under reporting, the downstream fishing community impact assessment module 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 activities, 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 downstream Input System,
- Identification and development of input modules submodules
- Development of input web forms and database
- Development system's security and access control system

### 7.12.2 Understanding and analysis of OHS MIS

During the month under reporting, the modules for occupational health and safety were identified and analyzed as per project requirements provided by the OHS section.

Following activities were completed during the reporting period

- Understanding and design of Accidents/Incidents modules,



- Understanding contract wise indicators and loss calculations
- Understanding of UA, UC & NM and contract wise values
- Understanding of progress review system
- Understanding of trainings, inspections, out spread diseases, communication and document management system

### 7.12.3 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.

### 7.13 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 October 2022	Progress during November 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)	183	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
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)	683	48	
8	New ESMR paid (RS Million)	2386.70	168.00	
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	791	05	Various meetings were conducted regarding ESMR Package.
2	Percent issues / disputes resolved	40	87	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)	83	90	% PAPs from related villages presented during the meetings
4	Percentage of their suggestions taken into account	71	78	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	10	01	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 5 <sup>th</sup> & 6 <sup>th</sup> batch
				45 Youth 37 Youth

**Dasu Hydropower Project**  
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Sr. No	Key Performance Indicator (KPI)	Status by October 2022	Progress during November 2022	Remarks
				7 <sup>th</sup> batch 26 Youth
				8 <sup>th</sup> batch 86 Youth
				Fisheries (7days) 24 Youth
				Journalist (10 days) 10 Journalist
<b>➤ 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>➤ 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>➤ 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	20		-
3.	Number of Gender Sensitization Sessions Conducted with Various Target Groups (PMU, DHC, Contractor, and other stakeholders)	5	01	Gender Sensitization coaching sessions have been undertaken with local DHC staff 4 staff members
4.	Number of VTCs established	01	.	A highly experienced teacher has been selected for the course.
5.	Number of GIP Information Centers Identified	01		06 locations identified in Shatial and Sazeen in consultations with health department
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		Proposal for health and hygiene kit has been developed and sent to WAPDA Office for approval A meeting was also held with the Principle of Government Girls' High School and she appreciated the idea and is ready to have such sessions in their schools
8.	Number of Project Staff (including Contractor's staff) Benefited from sensitization trainings	83	2	Three staff members are sensitized and generated needs and promoted keen interest in their respective communities for literacy center for women in their village
9.	Number of Trainings Sessions / Exposure Visits of Ulemas Conducted	02	02	Two (2) coaching session has been conducted with key Ulema for seeking their support in media campaigns in local language about girls' education, women health issues and income generation etc. in the context of Islam
10.	Number of Ulemas Benefited	93	1	

**Dasu Hydropower Project**  
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Sr. No	Key Performance Indicator (KPI)	Status by October 2022	Progress during November 2022	Remarks
11.	Percent of women using health facilities in project area	25	5	Figure is updated from the field experience, in Shityal, where a private lady doctor has started her clinic and women are easily accessing the health services.
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>➤ In-Migrant Management Plan / Management Plan for Construction Related Impacts (IMMP)</b>				
1	Total Staff working on DHPP	4154	4,023	Workforce data includes staff (including labor) of all contractors, DHC, and WAPDA
2	Local Staff working on DHPP	2,164	1793	
3	Non-local Staff working on DHPP	1,475	1,641	
4	Foreigner Staff working on DHPP	556	589	
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	57	02	One awareness session has been conducted during the reporting month with the labor and staff of CGICOP and PCCL.
8	Number of Total Participants in Labor Awareness Sessions	1,097	20	
9	Number of visits for Camp Inspection	85	08	Continuous activity
<b>➤ 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>➤ 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>➤ Downstream Impact Management Plan of Fishing Communities (DIMP)</b>				
1	MoU signed with the Provincial Fisheries Department	Under Process	Under Process	MoM of last meeting with Fisheries Deptt are under discussion
2	Updating of Baseline Survey Started	Draft Report Completed	Final Report Completed	The Consultancy will be completed in April 2022
3	Number of IEC Material (Brochures / Pamphlets) prepared printed & distributed	-	-	Reviewed by Communication section, shared with Fisheries Deptt; KPK for technical review and will be published soon
4	Number of Awareness Sessions conducted with Community	-	-	Awareness sessions regarding illegal fish catch and conserving local fish will be carried out through Fisheries Department after MoU
5	Number of Awareness Sessions conducted in Schools / Colleges	-	-	
<b>➤ Internal Monitoring and Evaluation(M&amp;E)</b>				
1	Compensation Payments (in Billion)	18.90	0	
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)	2,386.70	168.0	
5	ESMR Payment Data Entry in MIS	683	48	

**Dasu Hydropower Project**  
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Sr. No	Key Performance Indicator (KPI)	Status by October 2022	Progress during November 2022	Remarks
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)	18.01	0.810	
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	
<b>&gt; Development of Management Information System (MIS)</b>				
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	11	12	Land Acquisition, Resettlement, IGRC, LADP, IMM, PH, Reporting System, Web Portal, Lease, Gender, PC&P, Communication
3	Number of Modules Partially Completed	01	02	Environment, Downstream Reports
4	Number of Modules in Progress / Up-grades	2	2	Environment, Downstream
5	Number of Remaining Modules (Development yet to be started)	2	1	Ecology
6	MIS Development Work Completed (%)	82	85	This percentage is for MIS development activities.

#### 7.14 Implantation Plan of S&R Teams for Next Month

Sr. No	Activity	Timeline	Status / Remarks
<b>&gt; 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>&gt; 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>&gt; 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>&gt; 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	Verification is in progress	Verification is in progress

**Dasu Hydropower Project**  
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Sr. No	Activity	Timeline	Status / Remarks
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>&gt; 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>&gt; Public Health Implementation Plan (PHIP)</b>			
1	Finalization of PH schemes (under PHIP) in consultation with Provincial Health Department	Delayed In progress	List of priority PH schemes have been finalized for implementation
2	Procurement of 02 well equipped Ambulances to be handed over to Health Department Kohistan (Upper)	Delayed	Under Process
3	Holding Medical Camps	Continuous	
<b>&gt; Gender Implementation Plan (GIP)</b>			
1.	Third Meeting of Gender Core Workgroup	Process will be initiated in December for the 3rd 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 December	Pilot Phase Training center in Kuz Chuchang Village will be started in December, WAPDA complete the purchases required. Contract for teacher will be approved and the course will be started.
3.	Follow-Up sessions with selected Ullema, for the third batch of trainings to have their feedback for an updated course in future.	2nd Week of December.	
4.	Gender Sensitization Session With CBGT/ WVCs in selected Villages	last Week of December	Awareness sessions with women group in Kuz Chuchang and Rango villages will be conducted
5.	Gender Sensitization session held with Various Target Group (PMU, DHC, Contractor and other Stakeholders)	2nd week of December 2022	-
6.	Preparation of Implementing Plan on SH&HP for further villages and follow ups with the existing villages	-	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 December, 2022	Process of engaging with E & SEF is in right direction and the department agreed to collaborate and take over the schools after two years.
8.	Number of Trainings Sessions / Exposure Visits of Ulemas Conducted	3rd Week of December	Preparations of 3rd batch of Ullema workshop in Islamabad Preparations for a Follow-up and progress tracking workshop.
<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.



**Dasu Hydropower Project**  
**Monthly Progress Report No. 100 (November 2022)**

<b>Sr. No</b>	<b>Activity</b>	<b>Timeline</b>	<b>Status / Remarks</b>
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	03-12-2022	
2	Preparation of Compensation Payment Summaries/Submissions	31-12-2022	
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)	25-12-2022	
<b>&gt; Development of Management Information System (MIS)</b>			
1	Development Downstream impacts on Fisheries Reporting Modules.	December 2022	Development of all features of Downstream impacts on Fisheries output modules and sub modules
2	Development of OHS cure modules	December 2022	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	December 2022	Maintenance of developed and operational modules. It can include improvements in existing systems, addition of new features in existing modules as per requirements



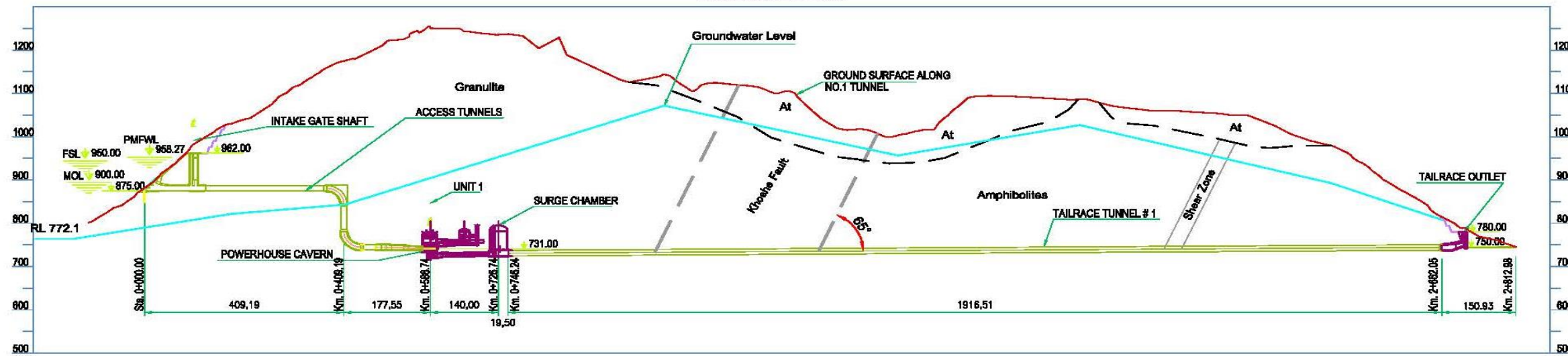
# FIGURES



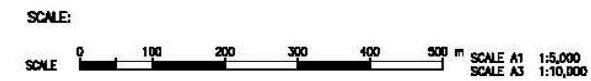




LAYOUT PLAN



WATERWAY PROFILE



**DASU HYDROPOWER PROJECT**



**CONSTRUCTION DRAWING FOR No. DASU-MW-01  
 Dam and Appurtenant Structures**

**DRAWING TITLE:  
 GENERAL  
 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 KAIKI 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



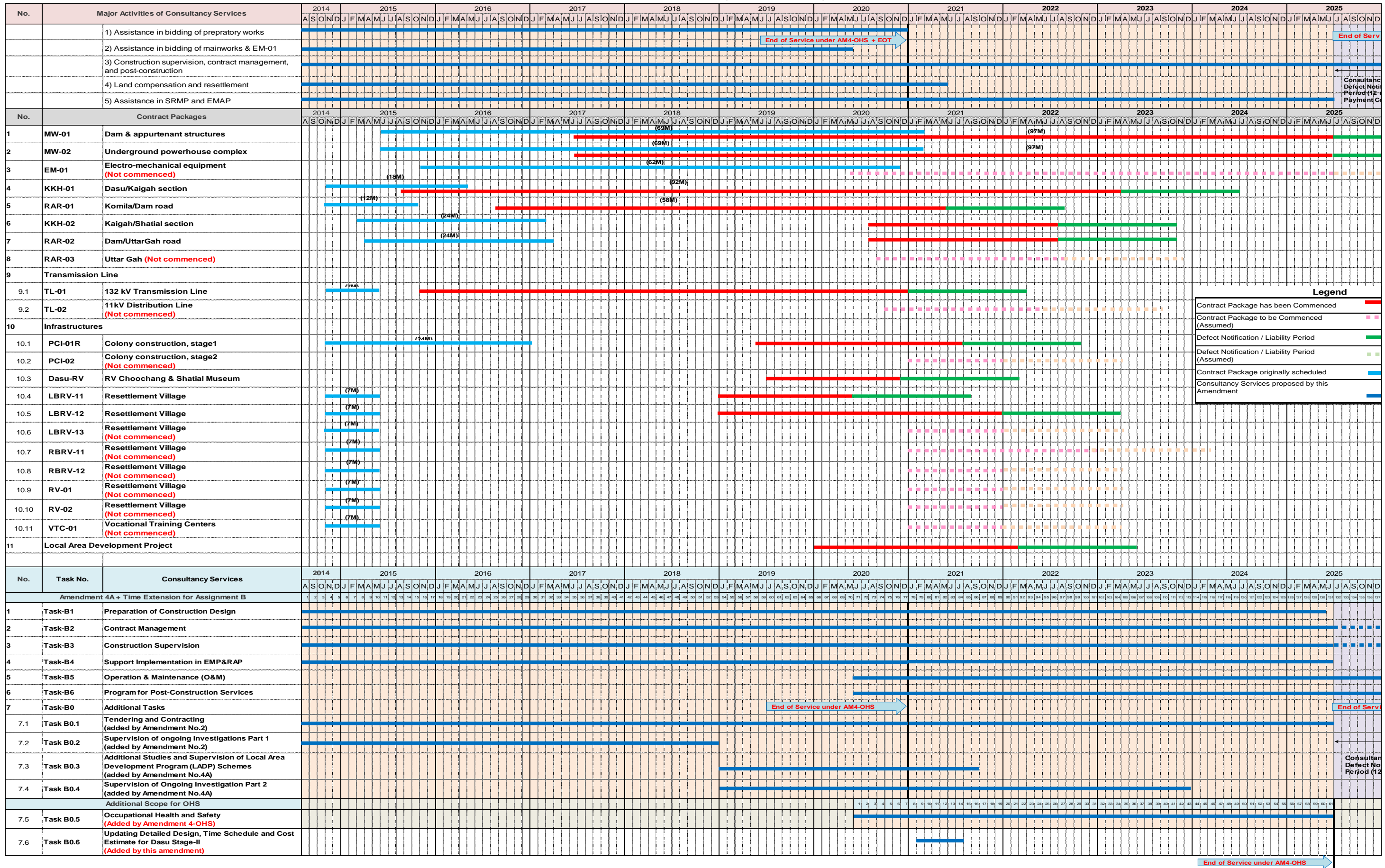


Figure 2: Implementation Schedule

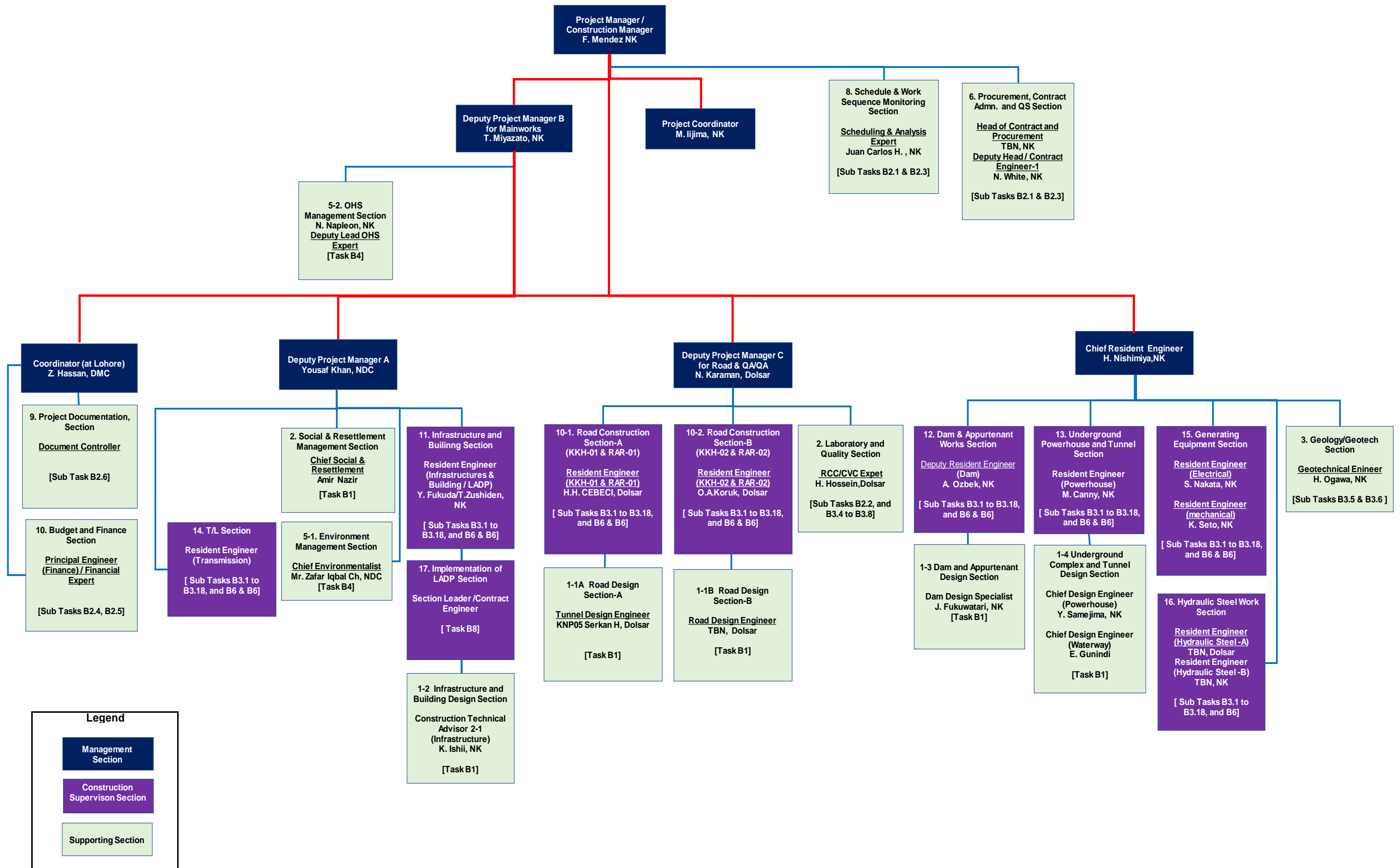


Figure 3: Organization for Consultant Team of Dasu Hydropower Project for Assignment-B





**DASU CONTRACTS PROCUREMENT SCHEDULE (November, 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**



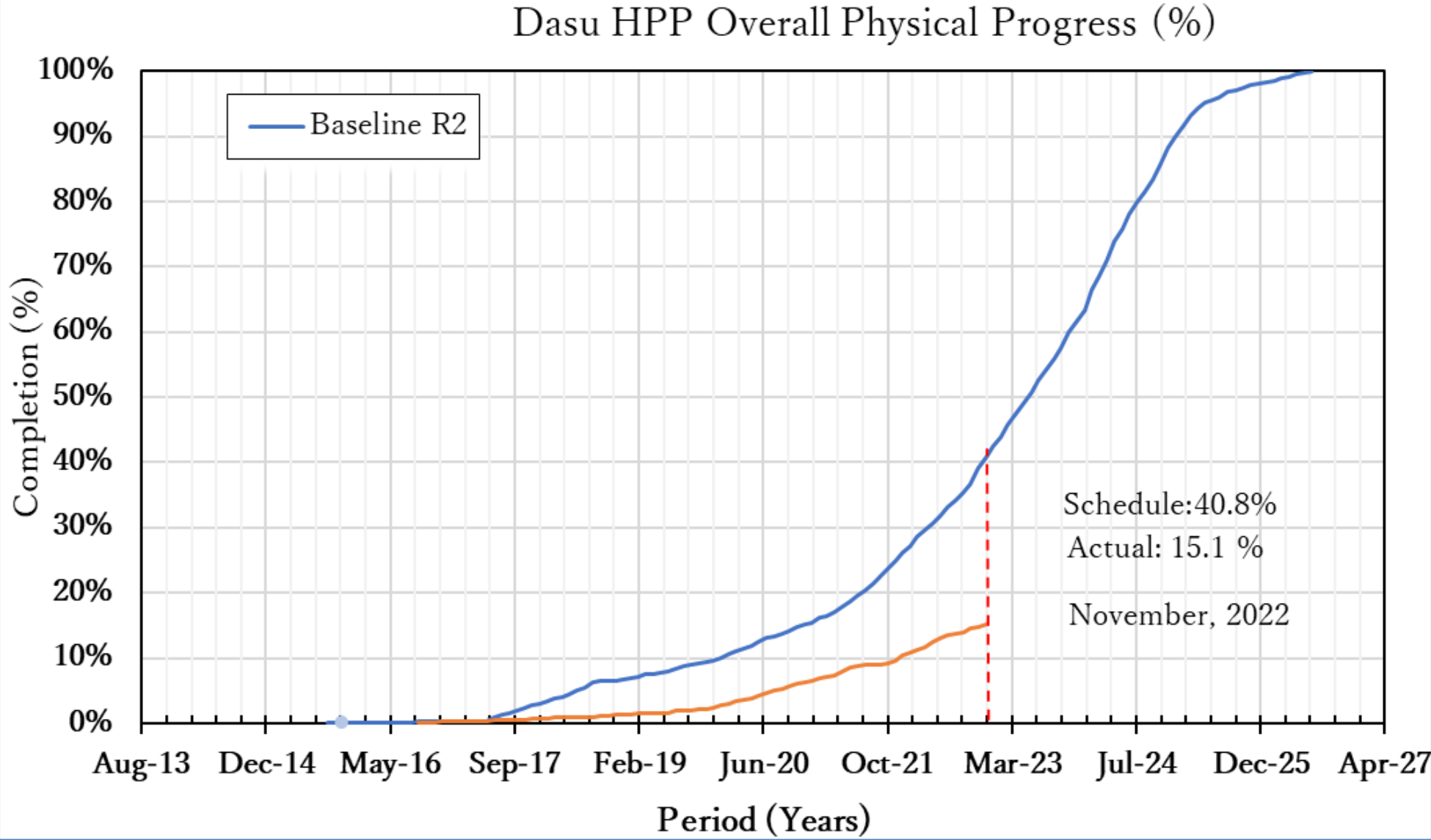


Figure 6: Dasu HPP Overall Progress (Physical Progress)

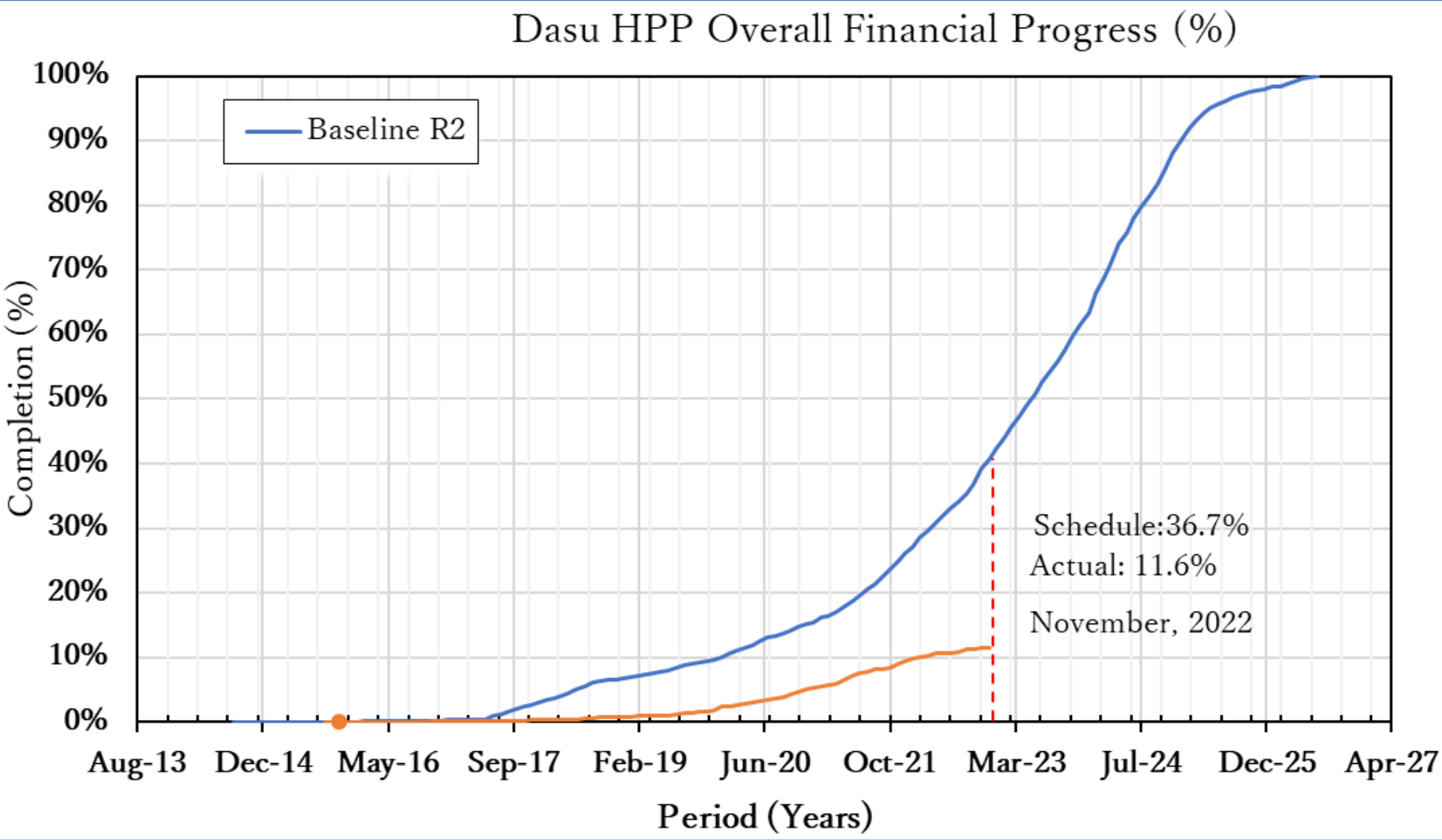


Figure 7: Dasu HPP Overall Progress (Financial Progress)















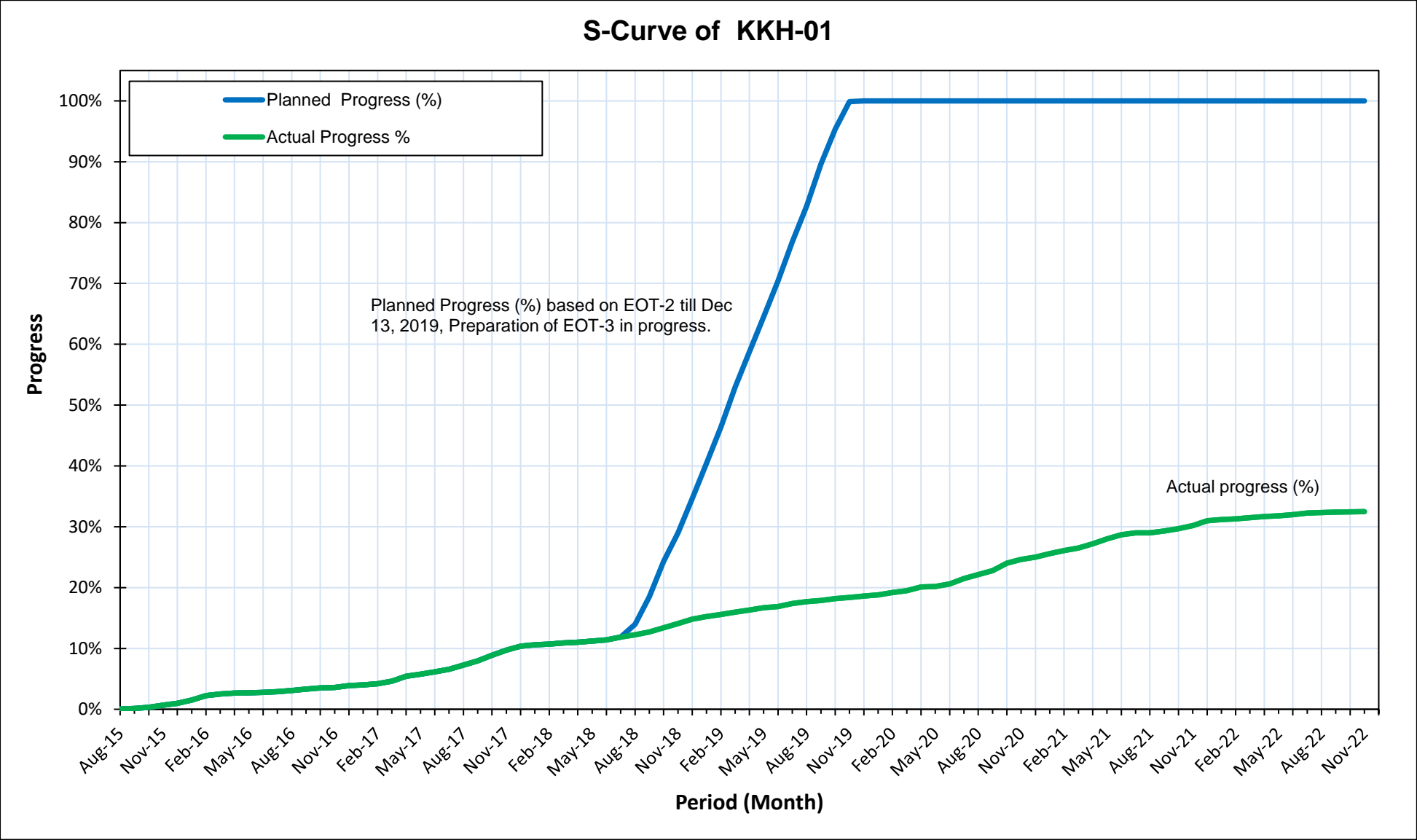


Figure 9: S Curve for Dasu-KKH-01

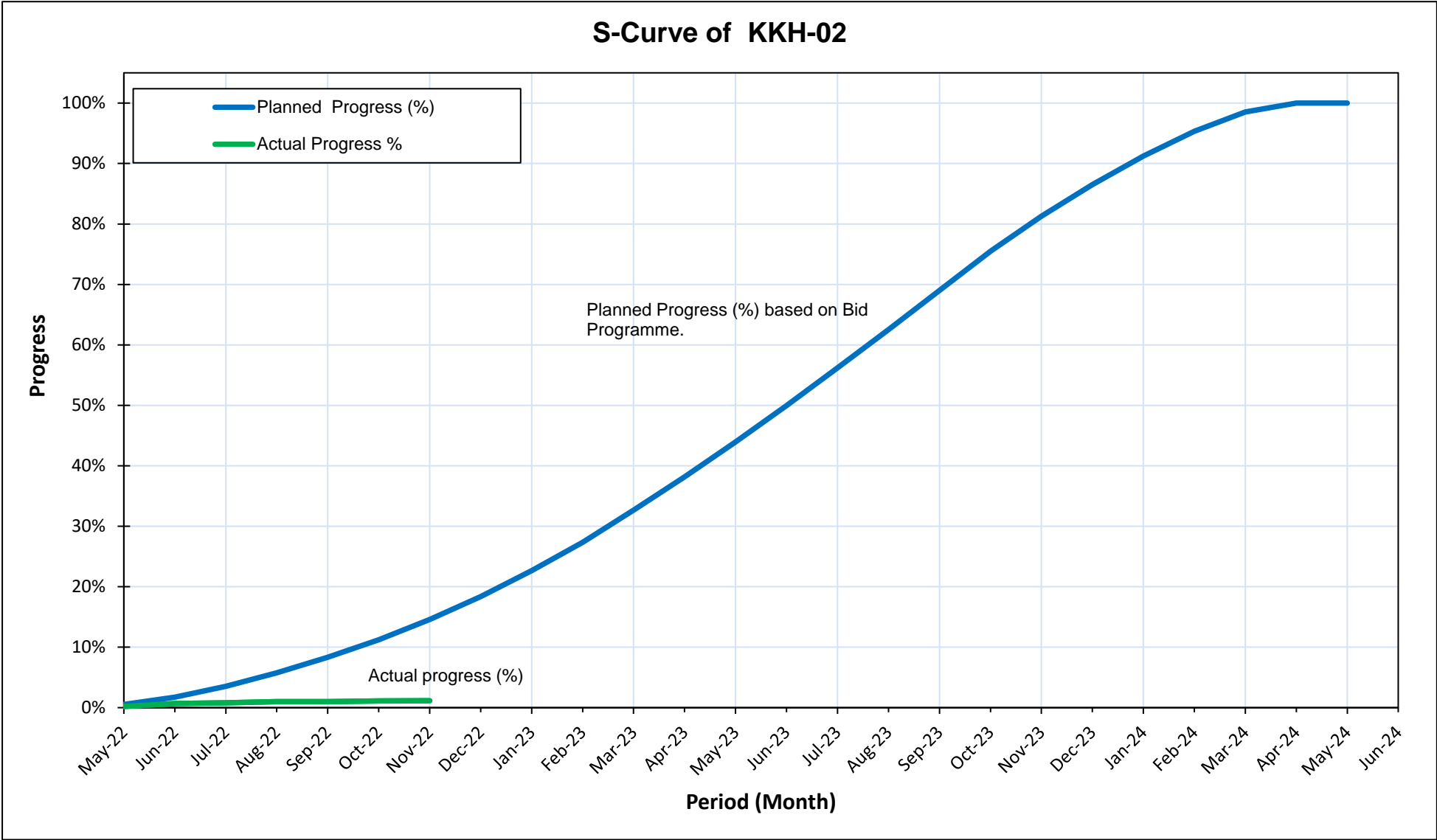


Figure 10: S Curve for Dasu-KKH-02



Figure 11 [1/6]

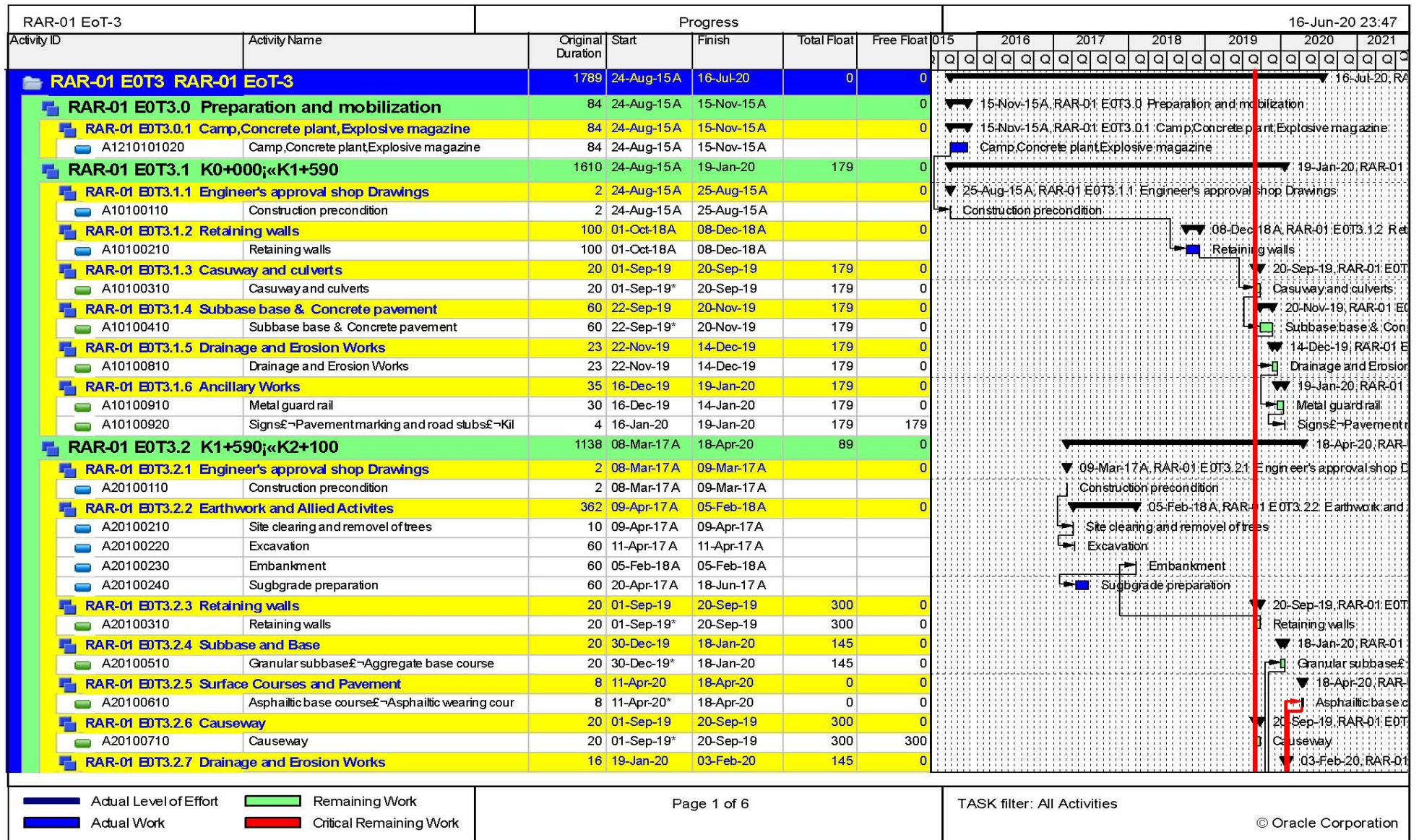
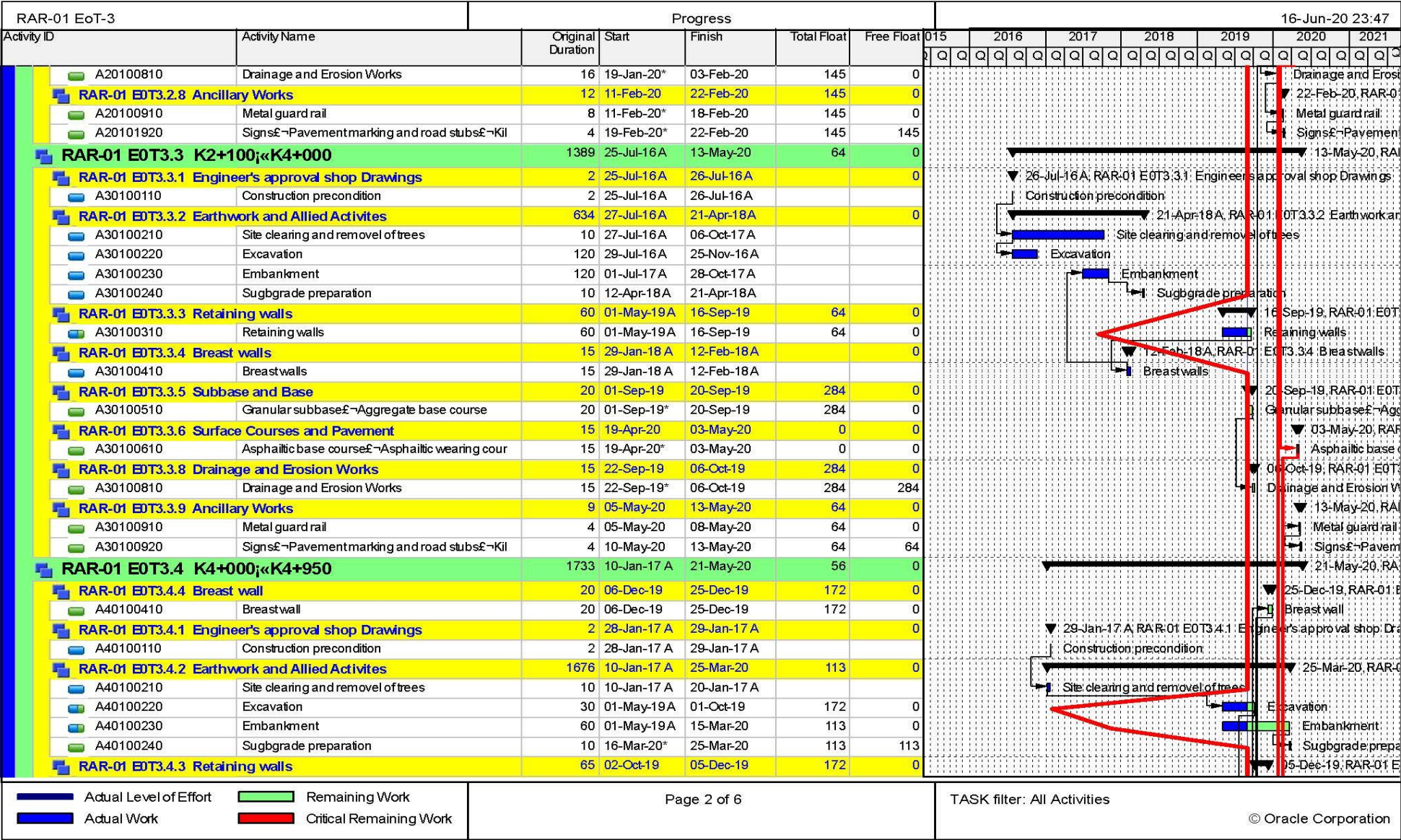


Figure 11: Gantt Chart of Dasu-RAR-01 (1 of 6)



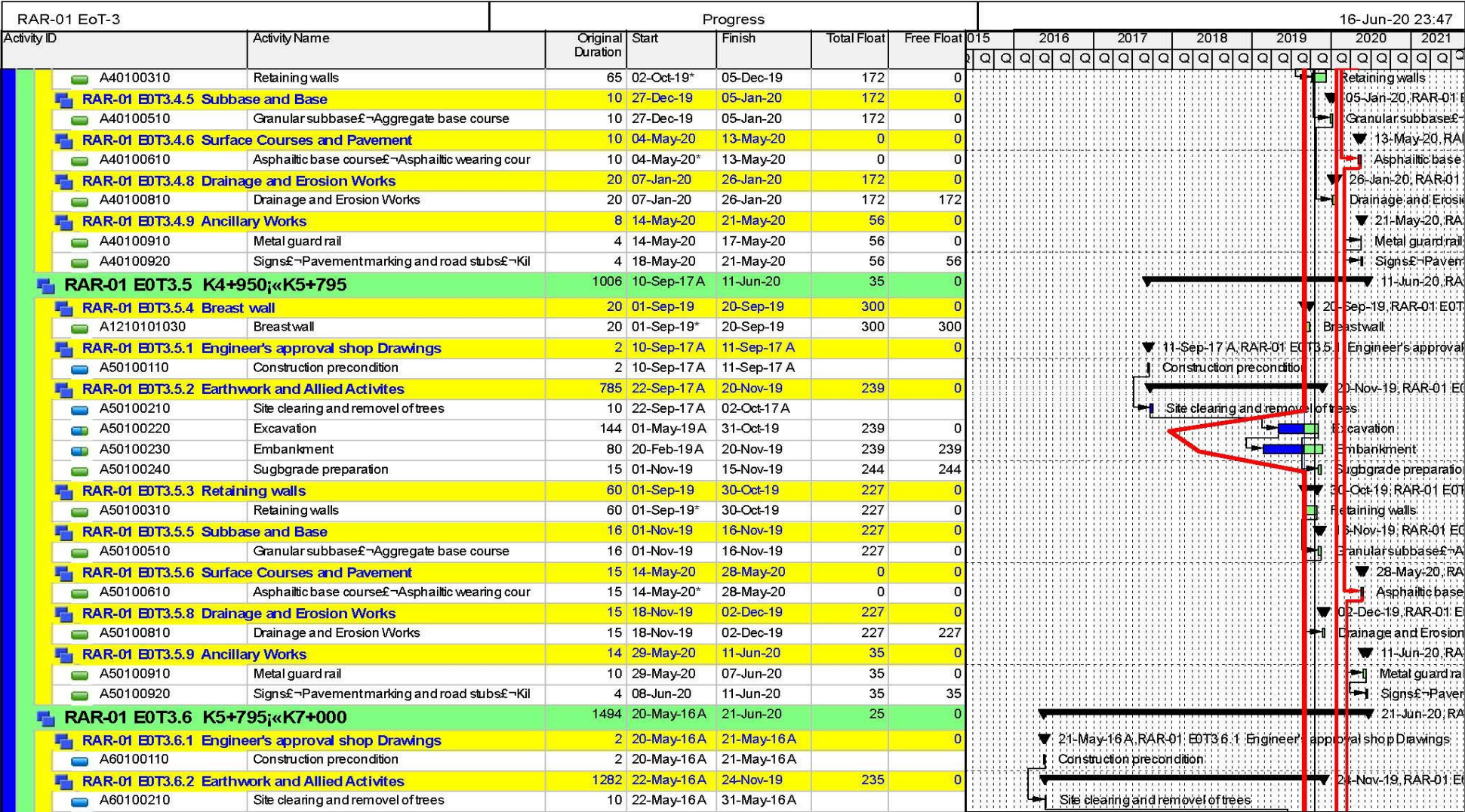
Figure 11 [2/6]



Gantt Chart of Dasu-RAR-01 (2 of 6)



Figure 11 [3/6]

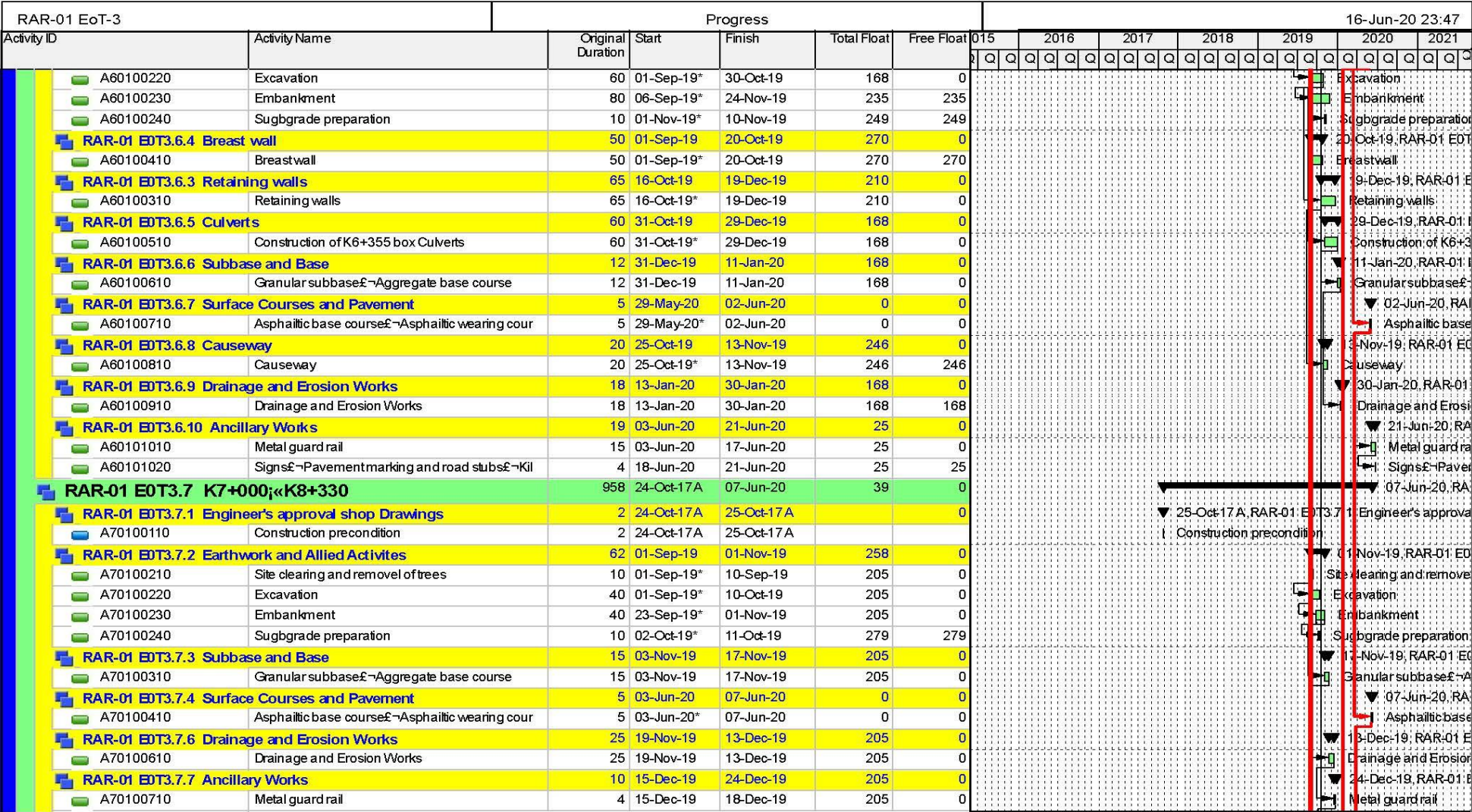


█ Actual Level of Effort    █ Remaining Work  
█ Actual Work                █ Critical Remaining Work

Gantt Chart of Dasu-RAR-01 (3 of 6)



Figure 11 [4/6]

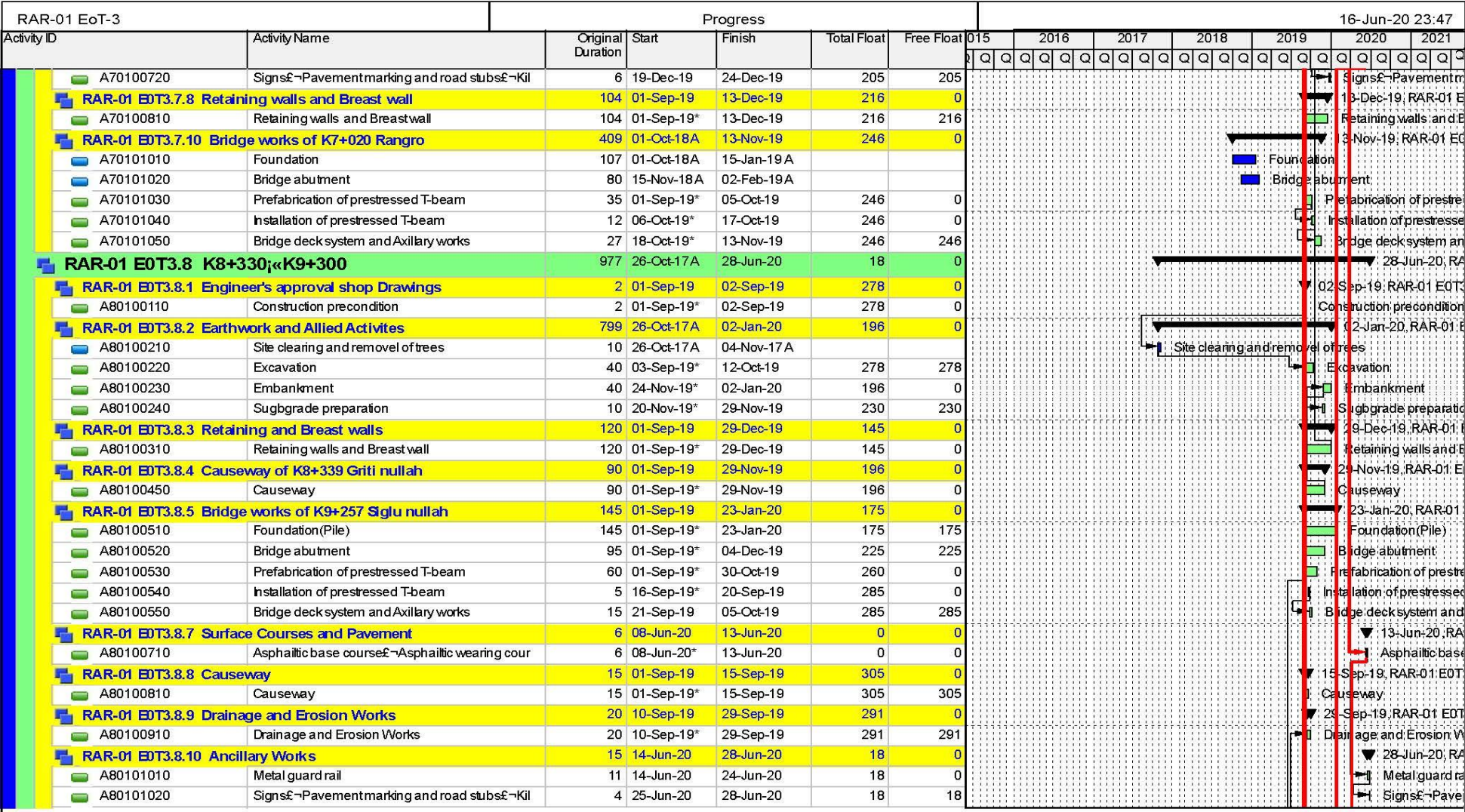


█ Actual Level of Effort    █ Remaining Work  
█ Actual Work                █ Critical Remaining Work

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
<b>RAR-01 EDT3.8.6</b>	<b>Subbase and Base</b>	9	01-Sep-19	09-Sep-19	291	0												
A80100610	Granular subbase-Aggregate base course	9	01-Sep-19	09-Sep-19	291	0												
<b>RAR-01 EOT3.9</b>	<b>K9+300;K12+071</b>	315	01-Sep-19	11-Jul-20	5	0												
<b>RAR-01 EDT3.9.1</b>	<b>Land issue solved</b>	1	01-Sep-19	01-Sep-19	0	0												
A1210101050	land issues solved (assumed)	1	01-Sep-19*	01-Sep-19	0	0												
<b>RAR-01 EDT3.9.2</b>	<b>Bypass Construction</b>	29	01-Sep-19	29-Sep-19	291	0												
A90100210	Bypass Construction	29	01-Sep-19*	29-Sep-19	291	291												
<b>RAR-01 EDT3.9.3</b>	<b>Earthwork and Allied Activities</b>	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												
<b>RAR-01 EDT3.9.4</b>	<b>Retaining walls</b>	261	19-Sep-19	05-Jun-20	0	0												
A90100410	Retaining walls	261	19-Sep-19	05-Jun-20	0	0												
<b>RAR-01 EDT3.9.5</b>	<b>Breast walls</b>	261	19-Sep-19	05-Jun-20	0	0												
A90100510	Breastwalls	261	19-Sep-19	05-Jun-20	0	0												
<b>RAR-01 EDT3.9.6</b>	<b>Culverts</b>	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												
<b>RAR-01 EDT3.9.7</b>	<b>Subbase and Base</b>	10	10-Jun-20	19-Jun-20	0	0												
A90100710	Granular subbase-Aggregate base course	10	10-Jun-20	19-Jun-20	0	0												
<b>RAR-01 EDT3.9.8</b>	<b>Surface Courses and Pavement</b>	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												
<b>RAR-01 EDT3.9.9</b>	<b>Causeway</b>	10	01-Sep-19	10-Sep-19	310	0												
A90100910	Causeway	10	01-Sep-19*	10-Sep-19	310	310												
<b>RAR-01 EDT3.9.10</b>	<b>Drainage and Erosion Works</b>	11	21-Jun-20	01-Jul-20	0	0												
A90101010	Drainage and Erosion Works	11	21-Jun-20	01-Jul-20	0	0												
<b>RAR-01 EDT3.9.11</b>	<b>Andillary Works</b>	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												
<b>RAR-01 EOT3.10</b>	<b>Submit Completion drawing</b>	2	13-Jul-20	14-Jul-20	0	0												
A1010101010	Submit complete drawing	2	13-Jul-20	14-Jul-20	0	0												
<b>RAR-01 EOT3.11</b>	<b>Inspection after completion</b>	1	15-Jul-20	15-Jul-20	0	0												
A1110101010	Inspection after completion	1	15-Jul-20	15-Jul-20	0	0												
<b>RAR-01 EOT3.12</b>	<b>Hand over</b>	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)



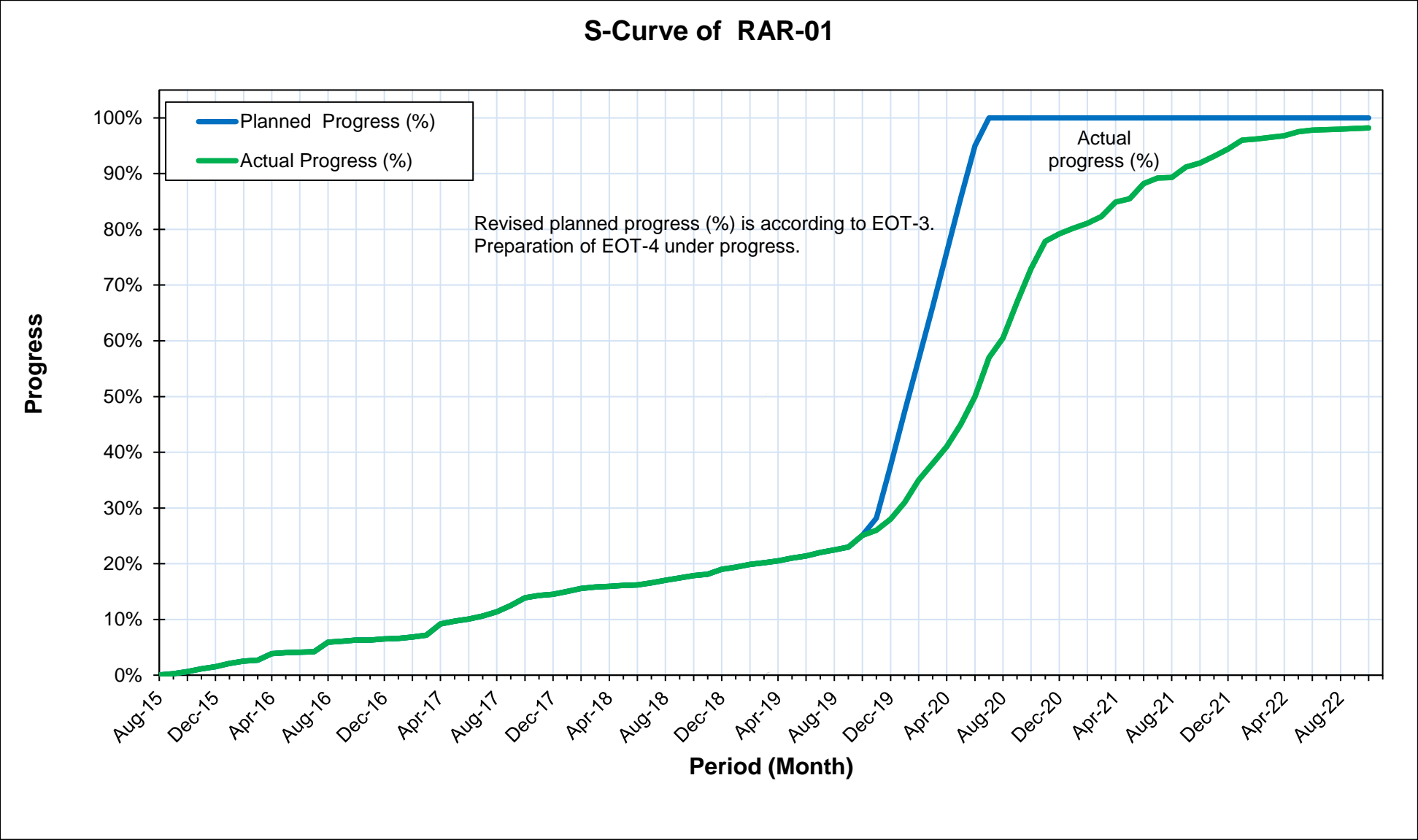


Figure 12: S Curve for Dasu-RAR-01

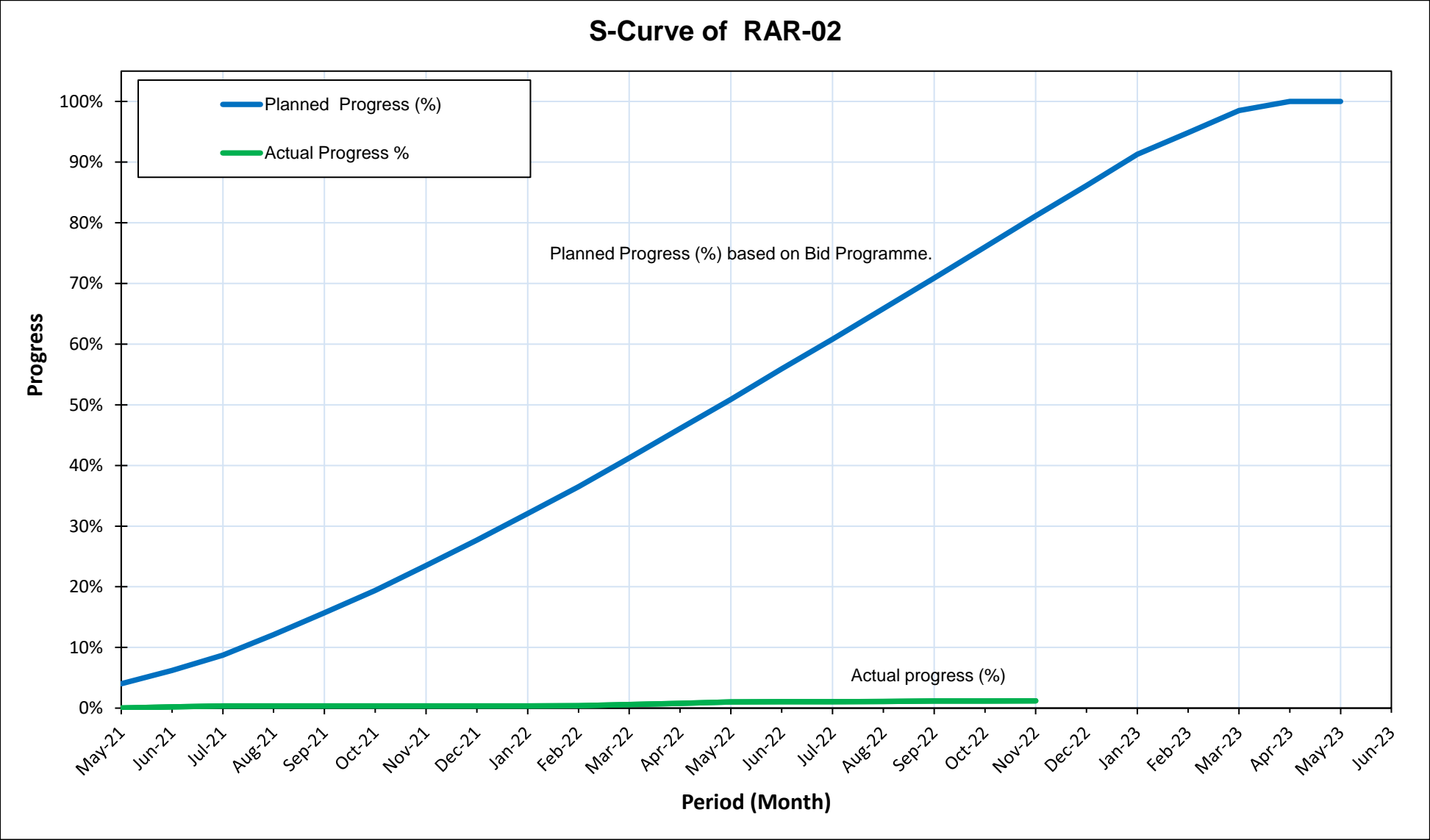


Figure 13: S Curve for Dasu-RAR-02











Figure 14 [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)

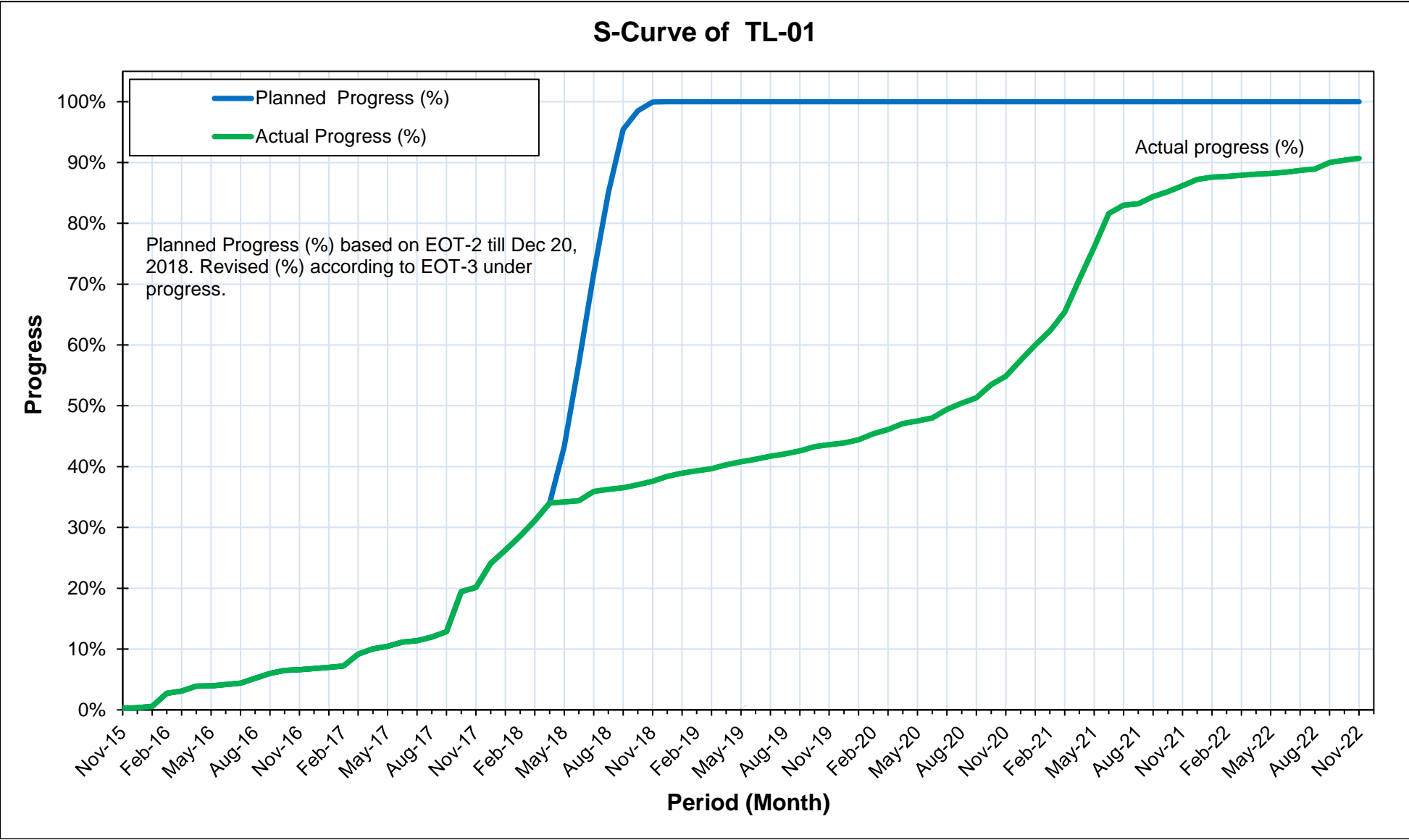


Figure 15: S Curve for Dasu-TL-01

Figure 16 [1/6]

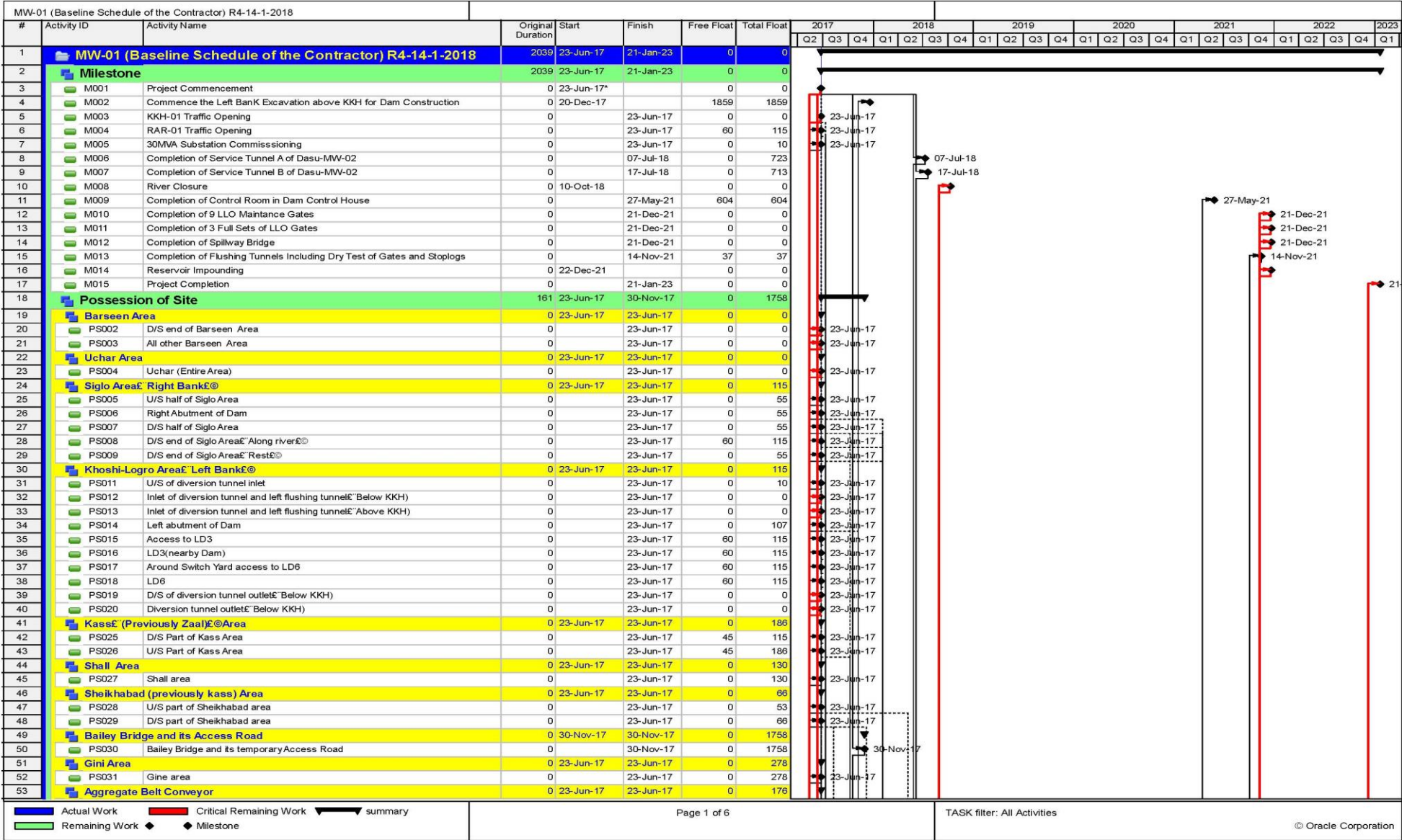
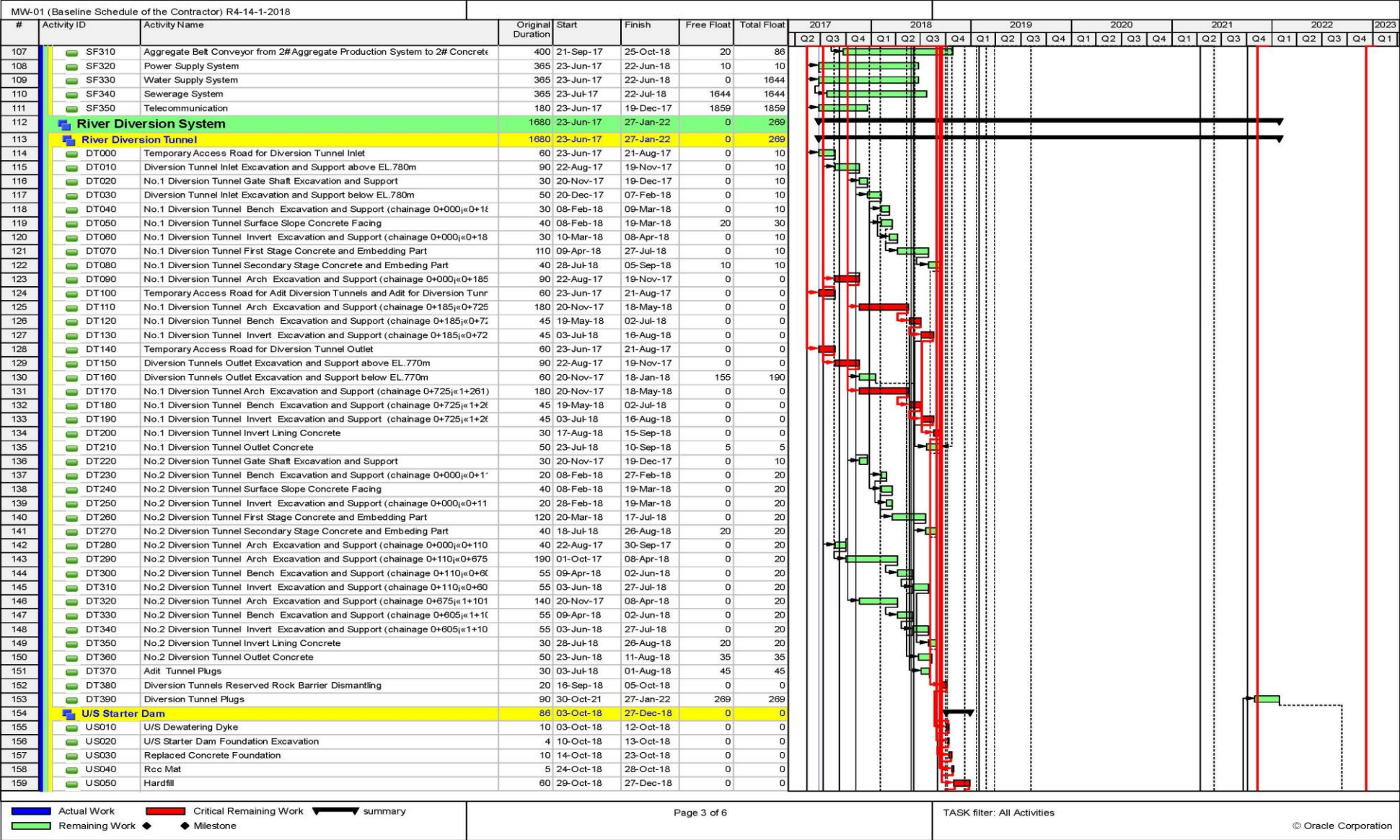


Figure 16: Gantt Chart of Dasu-MW-01 (1 of 6)





Figure 16 [3/6]



Gantt Chart of Dasu-MW-01 (3 of 6)

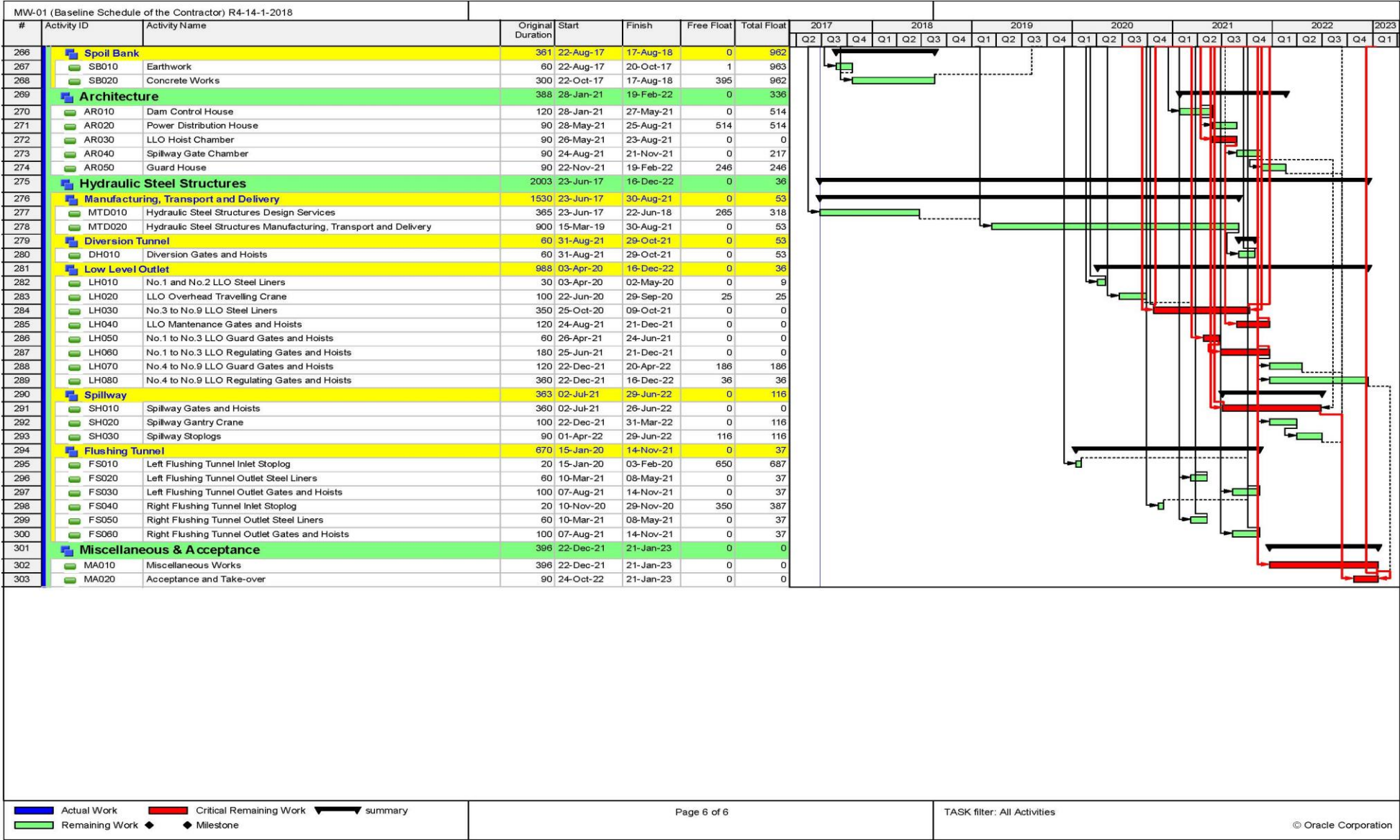








Figure 16 [6/6]



Gantt Chart of Dasu-MW-01 (6 of 6)

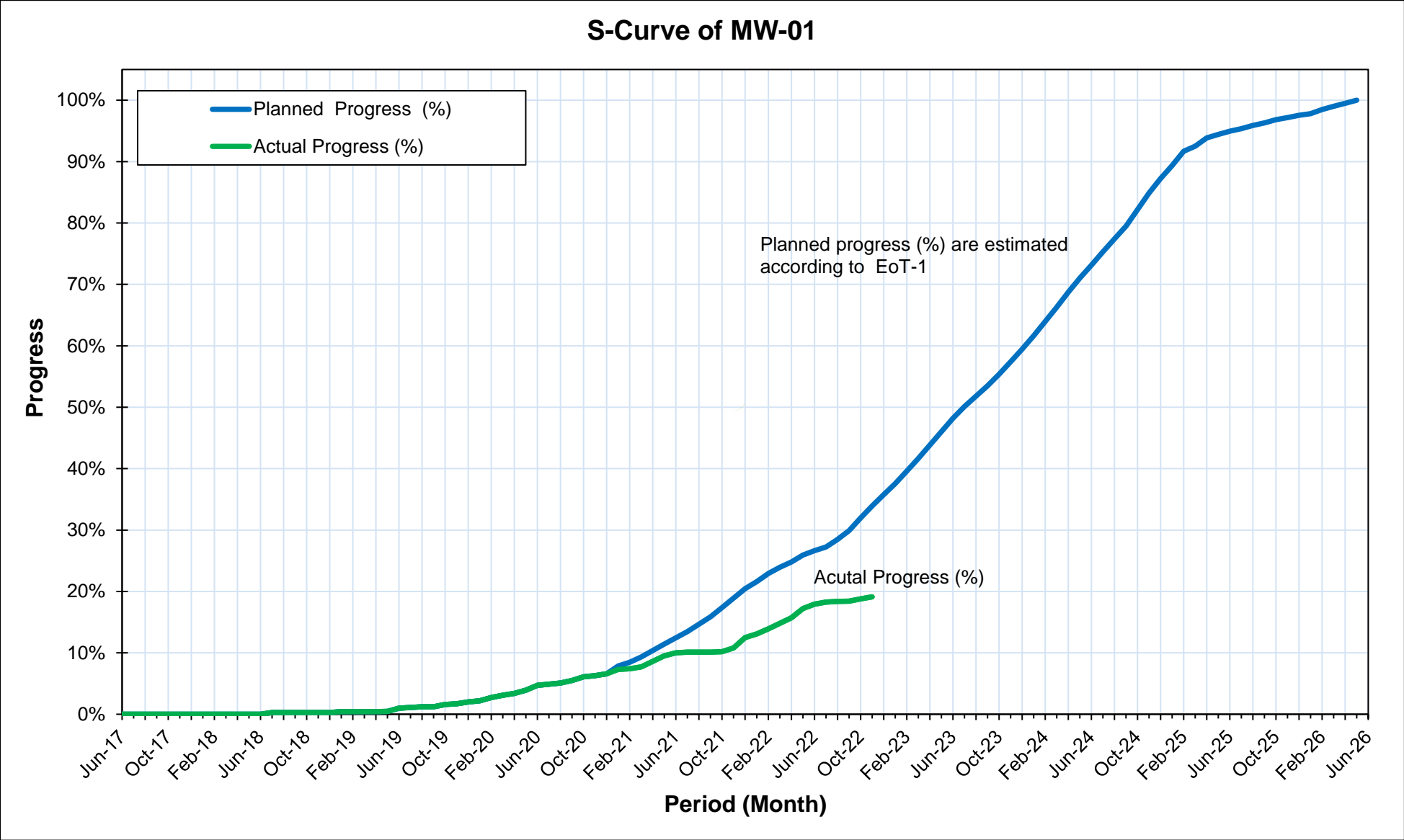


Figure 17: S-Curve for MW-01

Figure 18 [1/8]

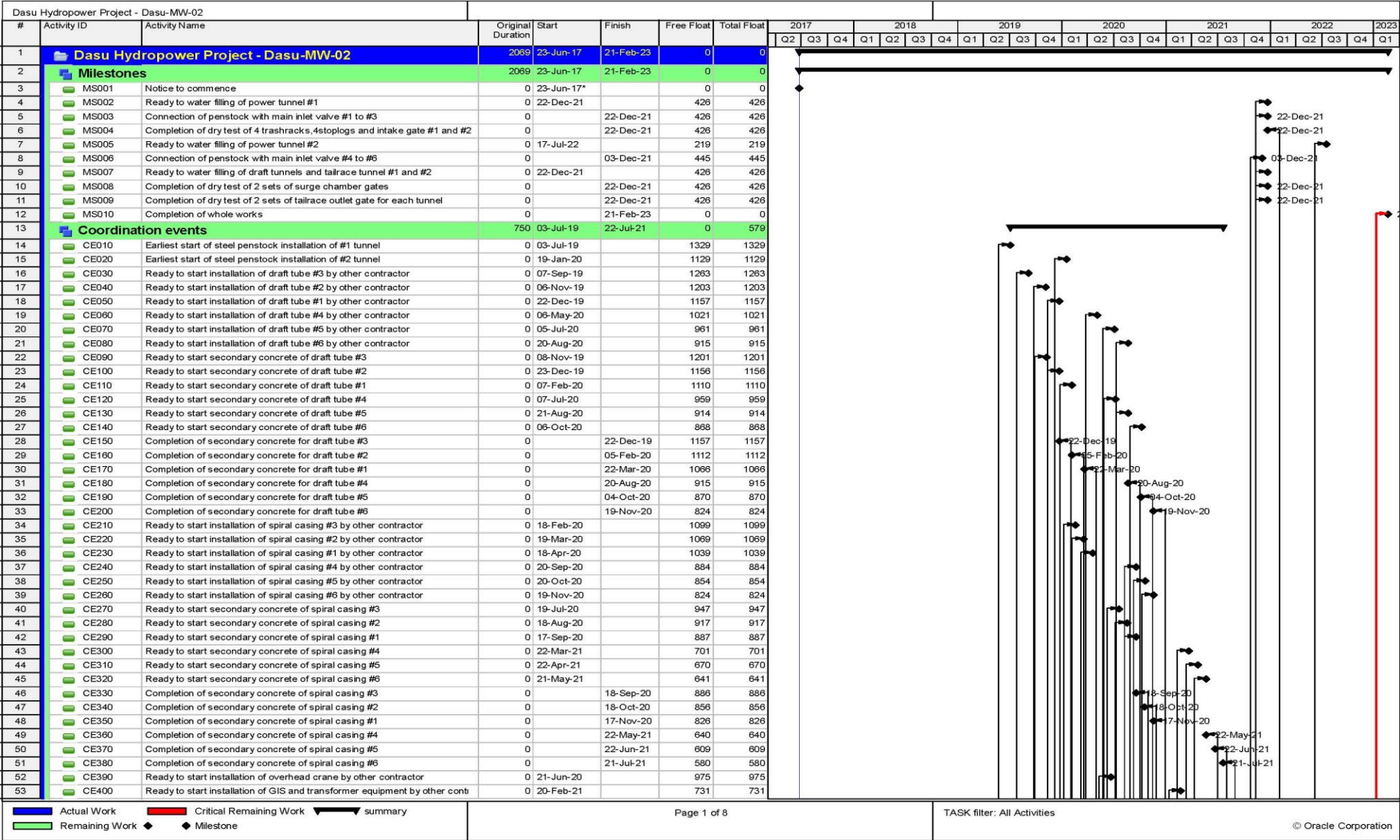
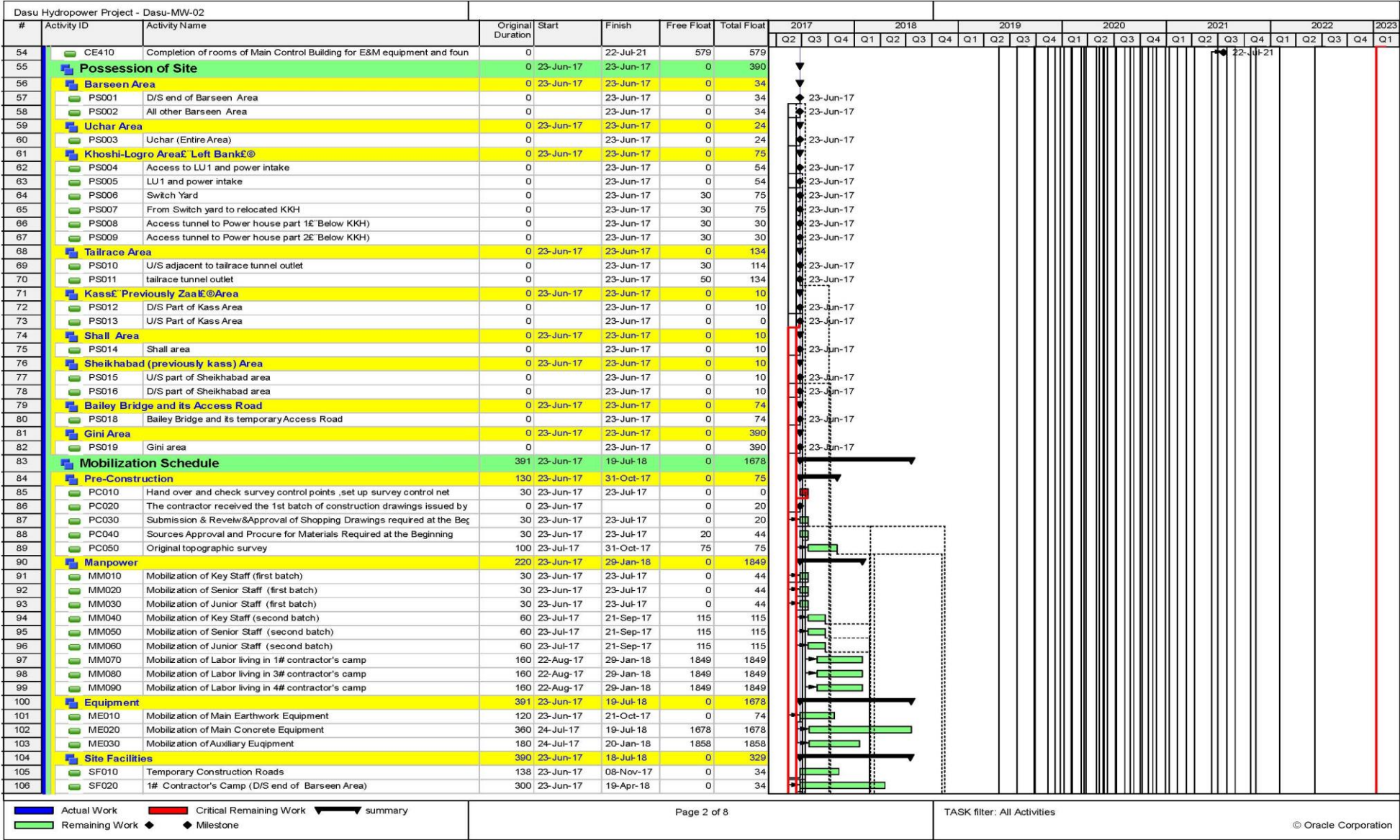


Figure 18: Gantt Chart of Dasu-MW-02 (1 of 8)



Figure 18 [2/8]



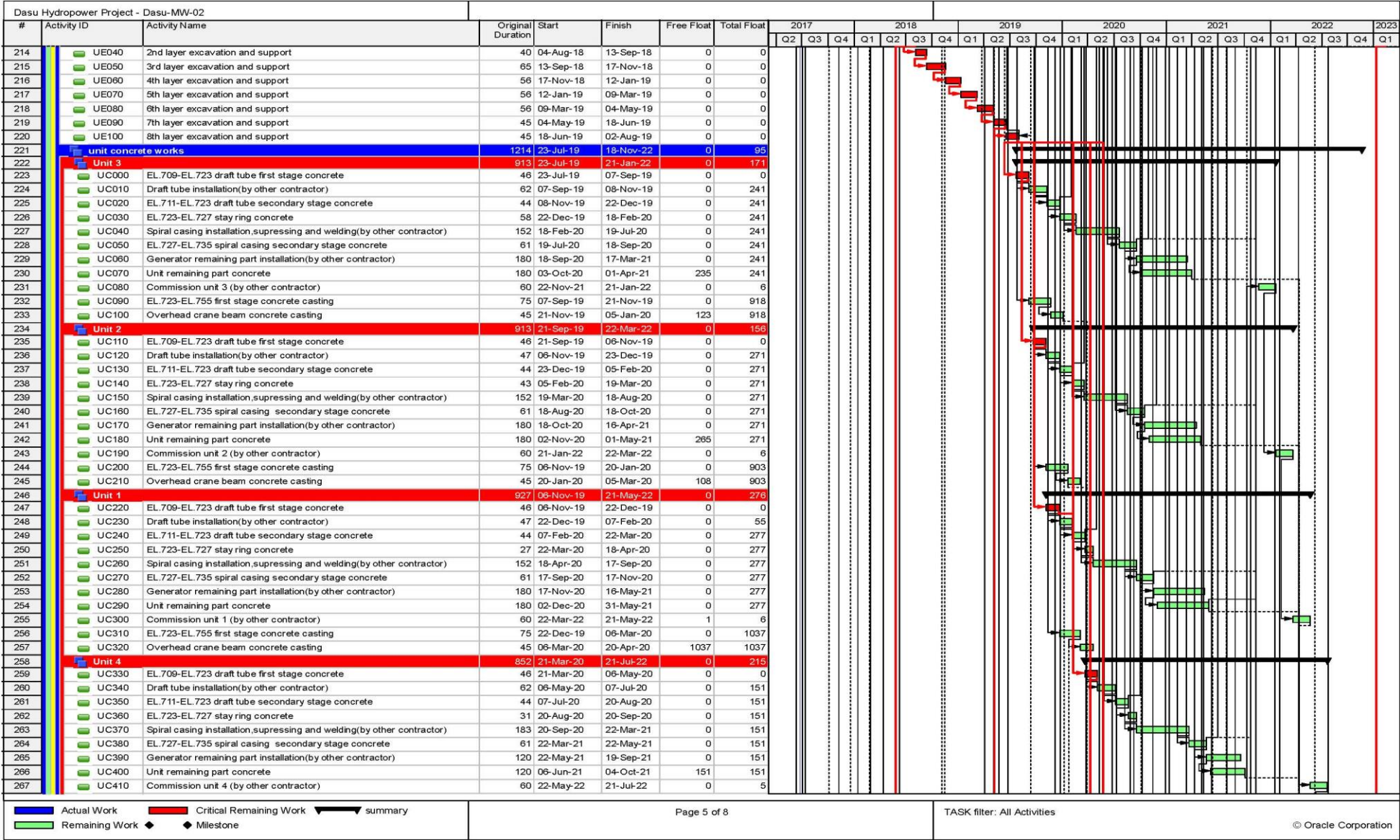
Gantt Chart of Dasu-MW-02 (2 of 8)







Figure 18 [5/8]

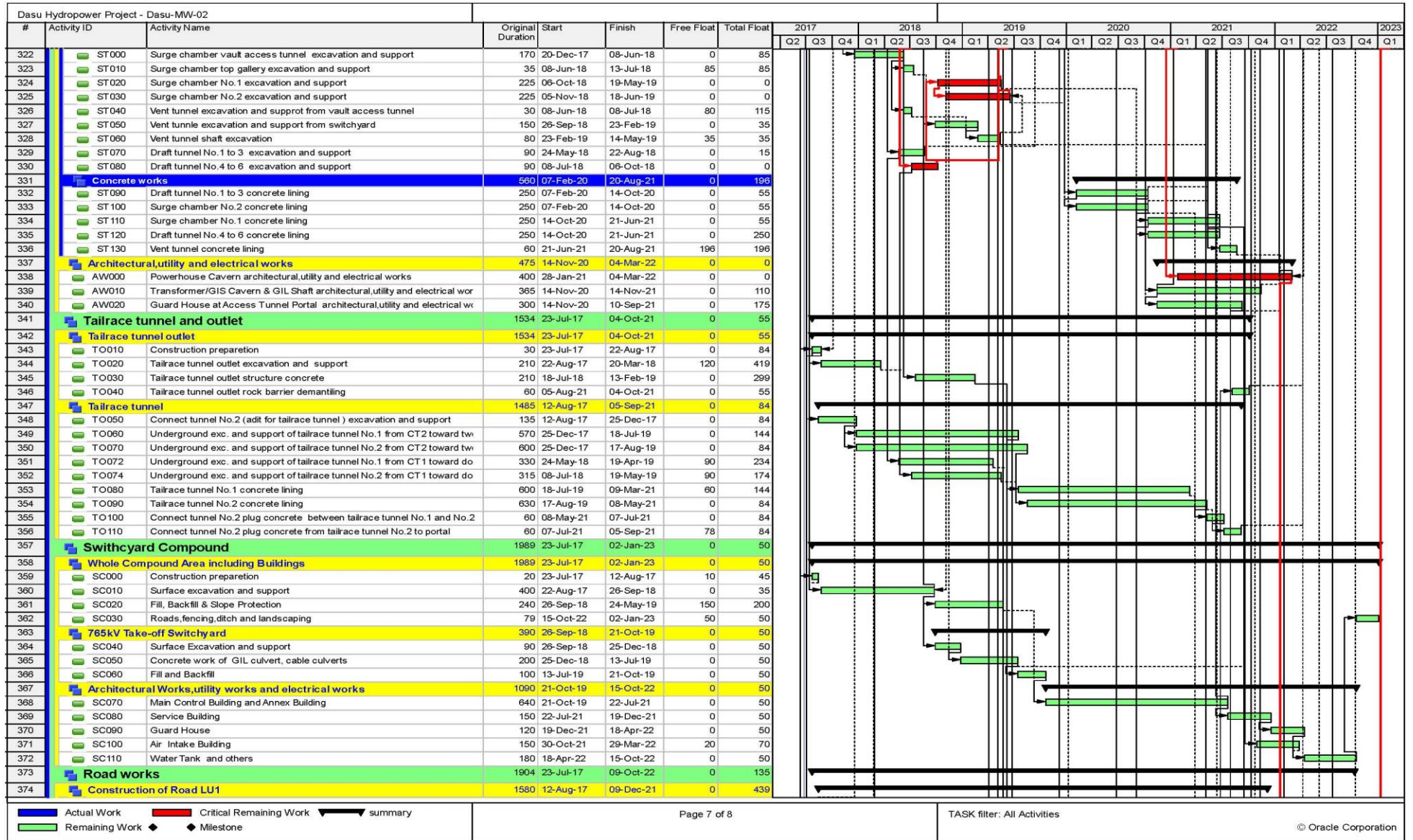


Gantt Chart of Dasu-MW-02 (5 of 8)





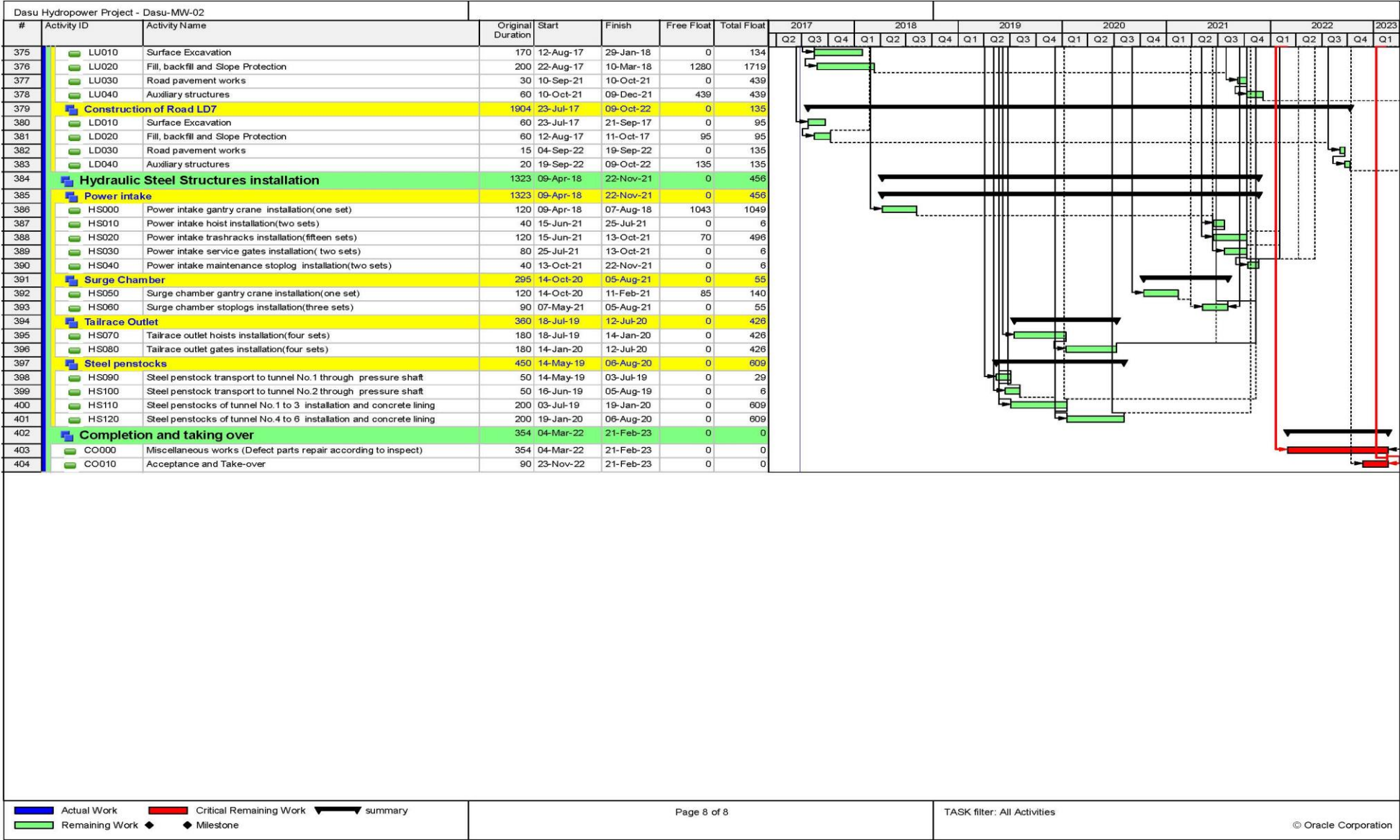
Figure 18 [7/8]



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)

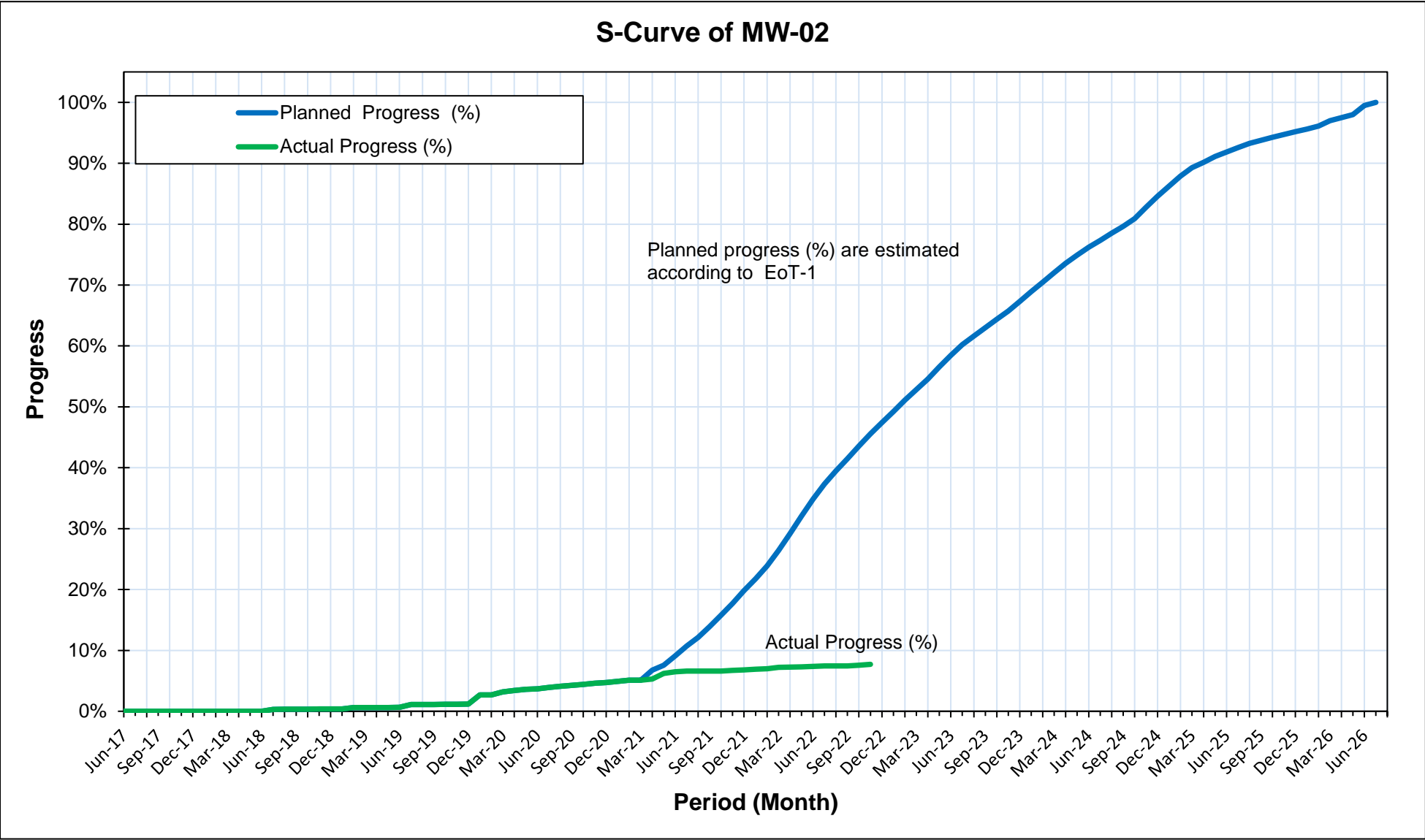


Figure 19: S-Curve for MW-02



Figure 20 [1/14]

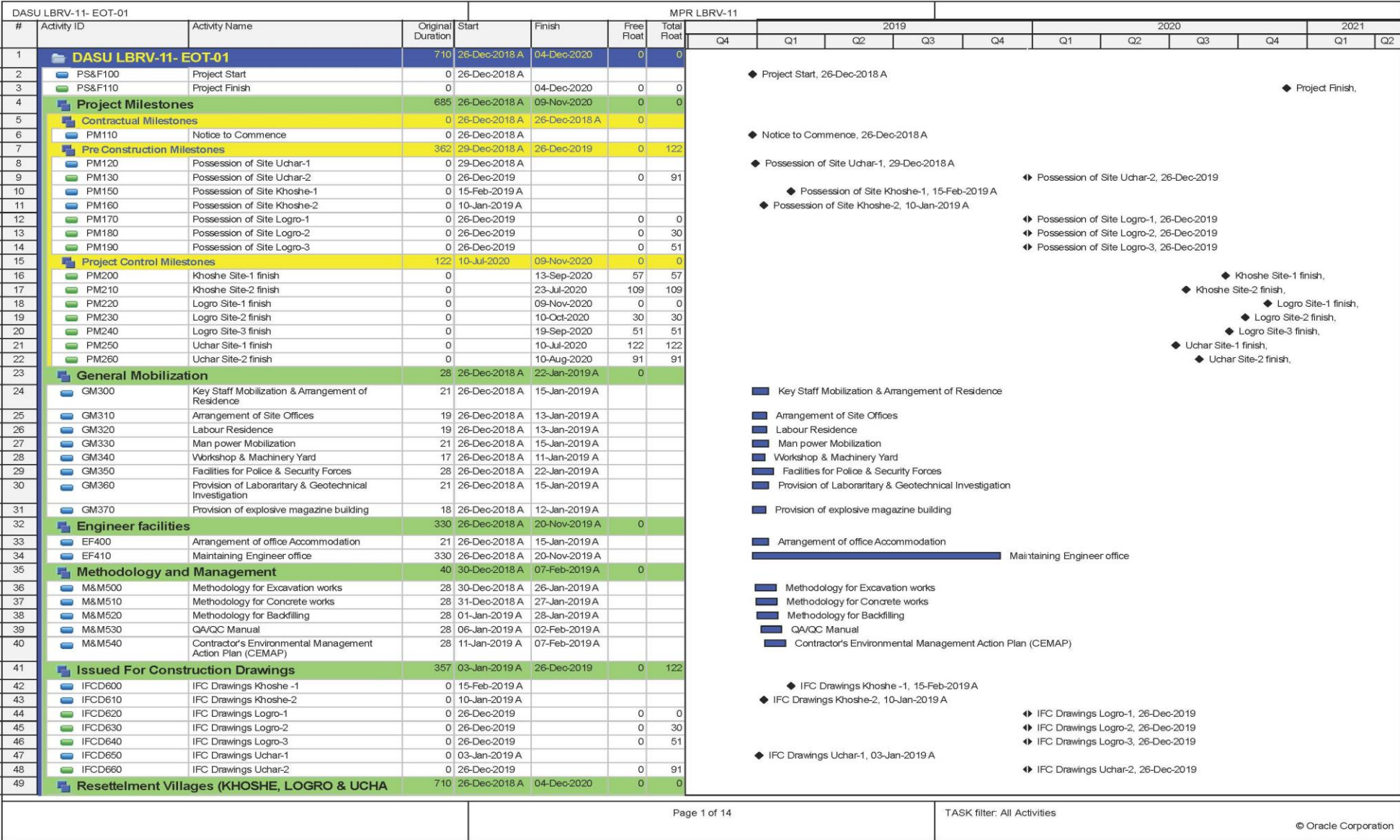
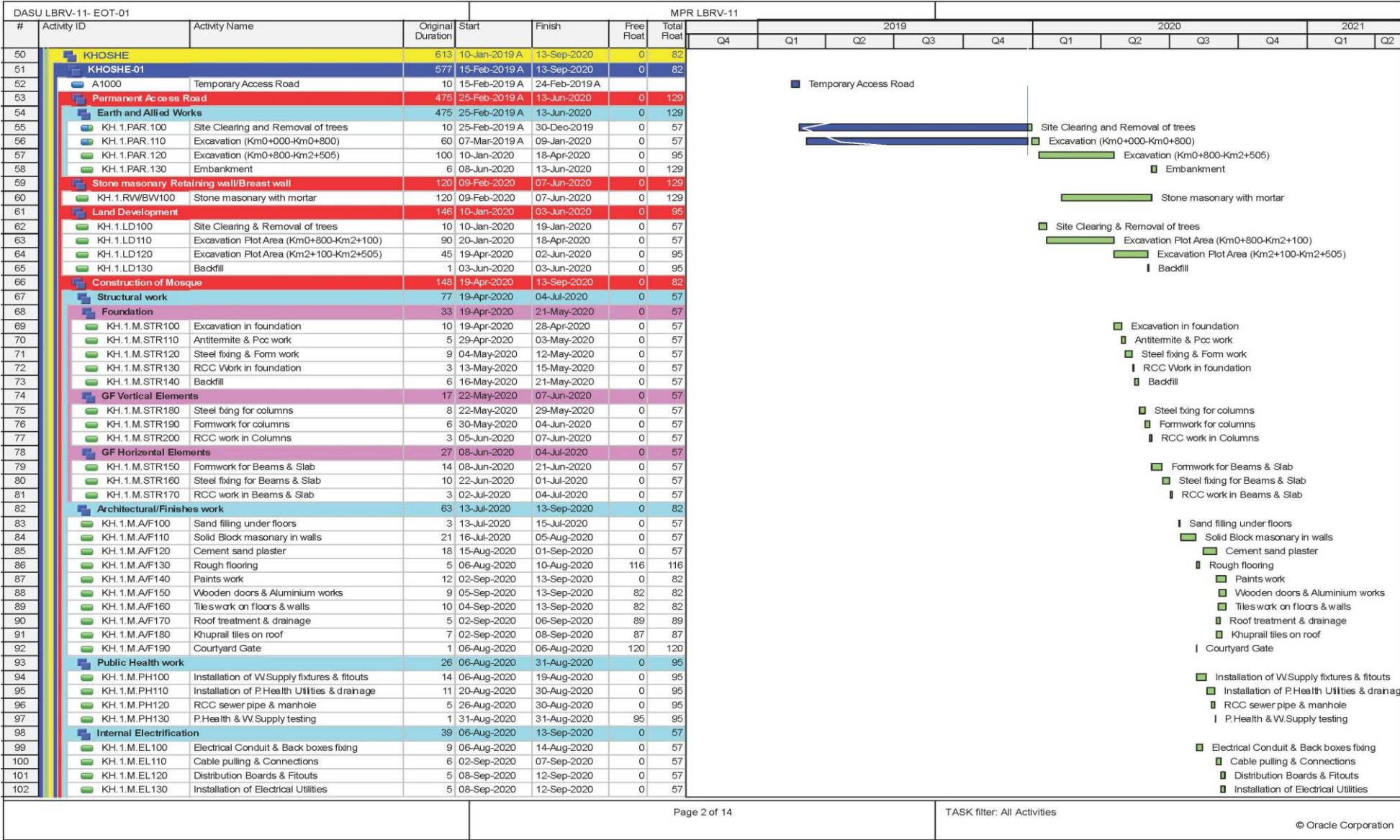


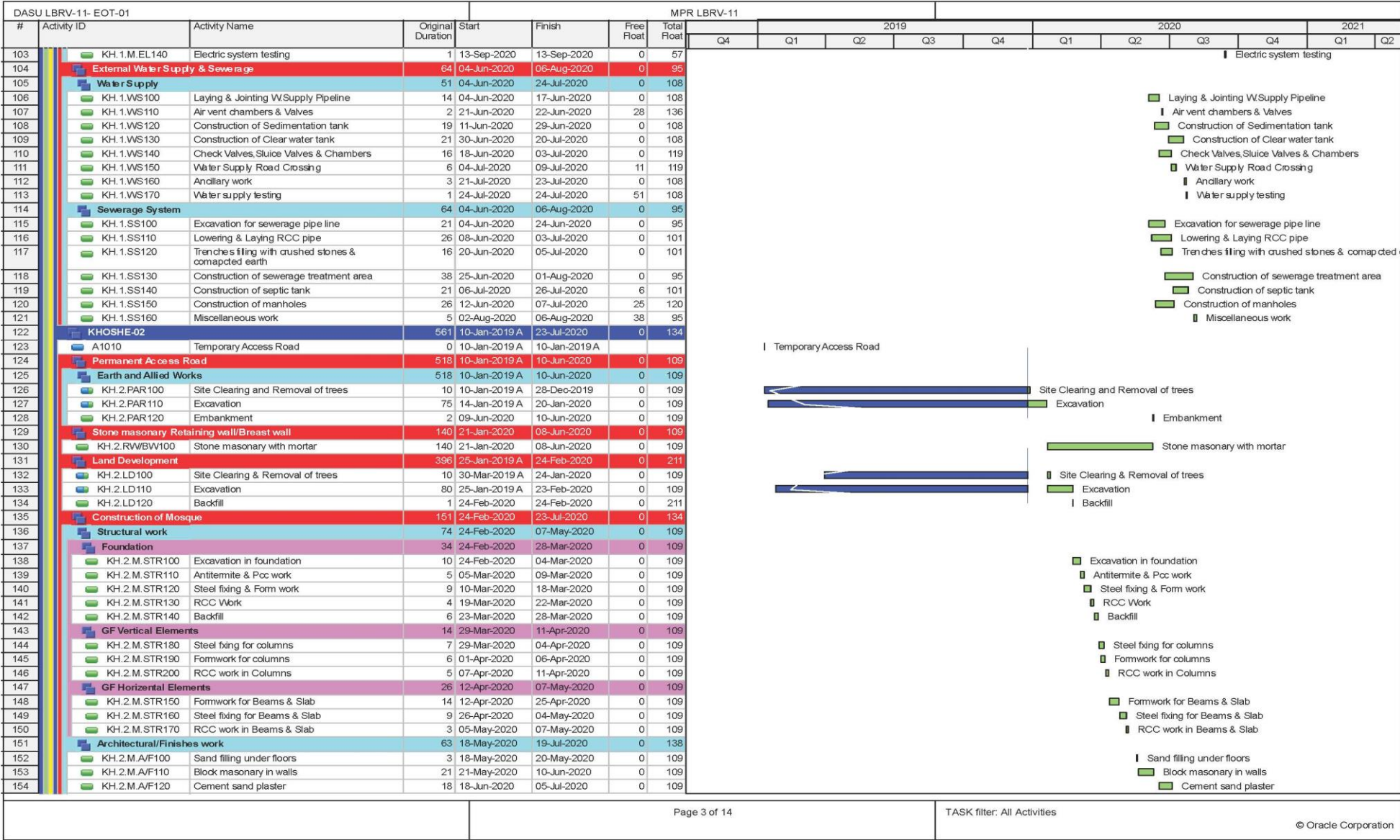
Figure 20: Gantt Chart of Dasu-LBRV-11 (1 of 14)

Figure 20 [2/14]



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	<b>Public Health work</b>		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	<b>Internal Electrification</b>		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	<b>External Water Supply &amp; Sewerage</b>		48	25-Feb-2020	12-Apr-2020	0	211												
174	<b>Water Supply</b>		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	<b>Sewerage System</b>		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	<b>LOGRO</b>		320	26-Dec-2019	09-Nov-2020	0	25												
192	<b>LOGRO-01</b>		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	<b>Permanent Access Road</b>		234	13-Jan-2020	02-Sep-2020	0	53												
195	<b>Earth and Allied Works</b>		234	13-Jan-2020	02-Sep-2020	0	53												
196	LG.1.PAR100	Site Clearing and Removal of trees	10	13-Jan-2020	22-Jan-2020	0	0												
197	LG.1.PAR110	Excavation Link-1	65	16-Jan-2020	20-Mar-2020	0	0												
198	LG.1.PAR130	Excavation Link-2	45	21-Mar-2020	04-May-2020	0	40												
199	LG.1.PAR140	Excavation Link-3	35	05-May-2020	08-Jun-2020	0	40												
200	LG.1.PAR150	Embankment	6	28-Aug-2020	02-Sep-2020	0	53												
201	<b>Stone masonry Retaining wall/Breast wall</b>		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	<b>Land Development</b>		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																	
#	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	
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	Khuprail 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 & Poc 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 P.Heath 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	P.Heath & 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]

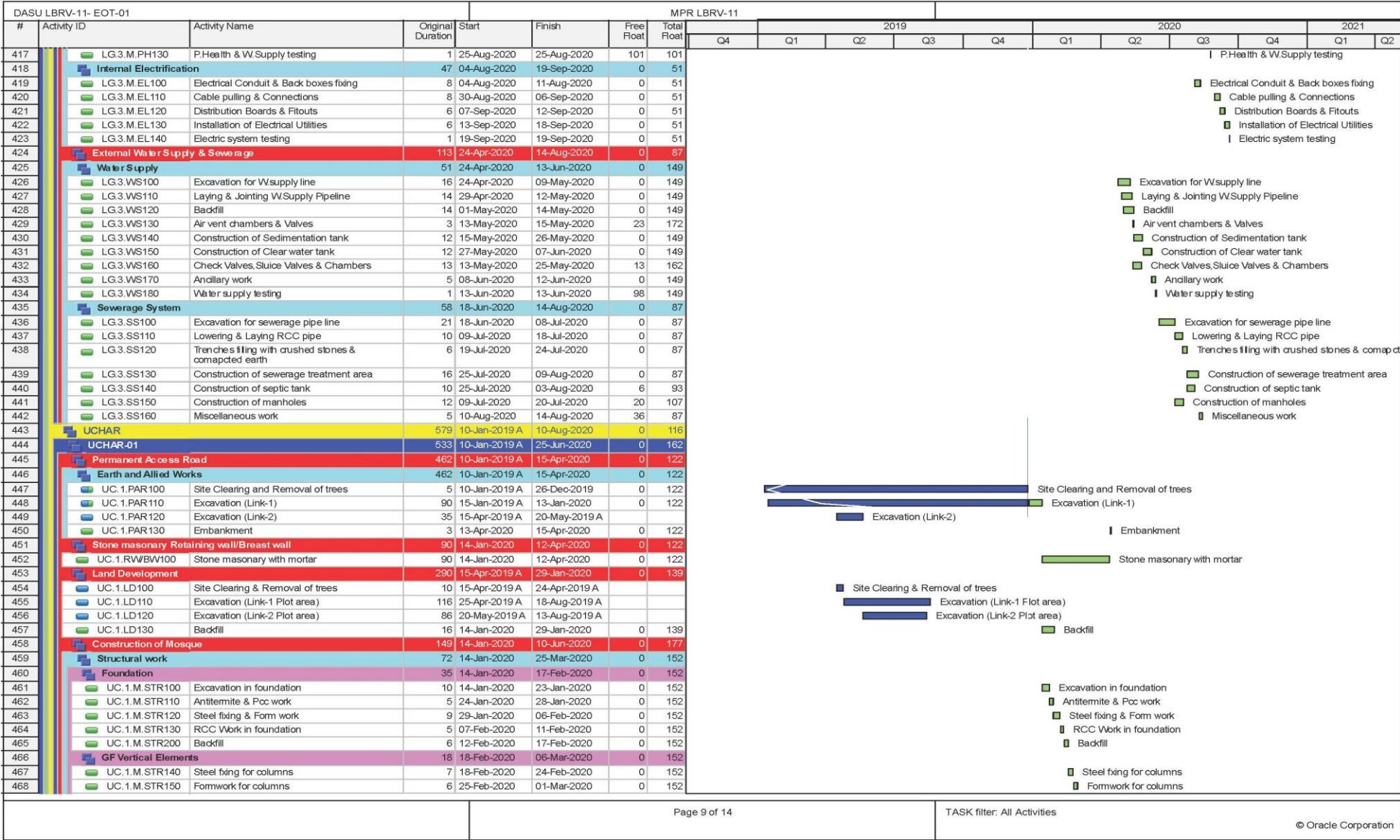
DASU LBRV-11- EOT-01							MPR LBRV-11											
#	Activity ID	Activity Name	Original Duration	Start	Finish	Free Float	Total Float	2019				2020				2021		
								Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
365	LG.2.SS100	Excavation for sewerage pipe line	17	18-Jun-2020	04-Jul-2020	0	93											
366	LG.2.SS110	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											

- Excavation for sewerage pipe line
- Lowering & Laying RCC pipe
- Trenches filling with crushed stones & compacted earth
- Construction of sewerage treatment area
- Construction of septic tanks
- Construction of manholes
- Miscellaneous work
- Site Clearing and Removal of trees
- Excavation (Km0+000-Km0+300)
- Excavation (Km0+300-Km0+698)
- Embankment
- Stone masonry with mortar
- Site Clearing & Removal of trees
- Excavation (Km0+300-Km0+400) Plot Area
- Excavation (Km0+600-Km0+700) Plot Area
- 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 & Slab
- Sand filling under floors
- Solid Block masonry in walls
- Cement sand plaster
- Rough flooring
- Paints work
- Wooden doors & Aluminium works
- Tiles work on floors & walls
- Khuprail tiles on roof
- Roof treatment & drainage
- Courtyard Gate
- Installation of WSupply fixtures & fitouts
- Installation of P Health Utilities & drainage
- RCC sewer pipe & manhole

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	06-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)**



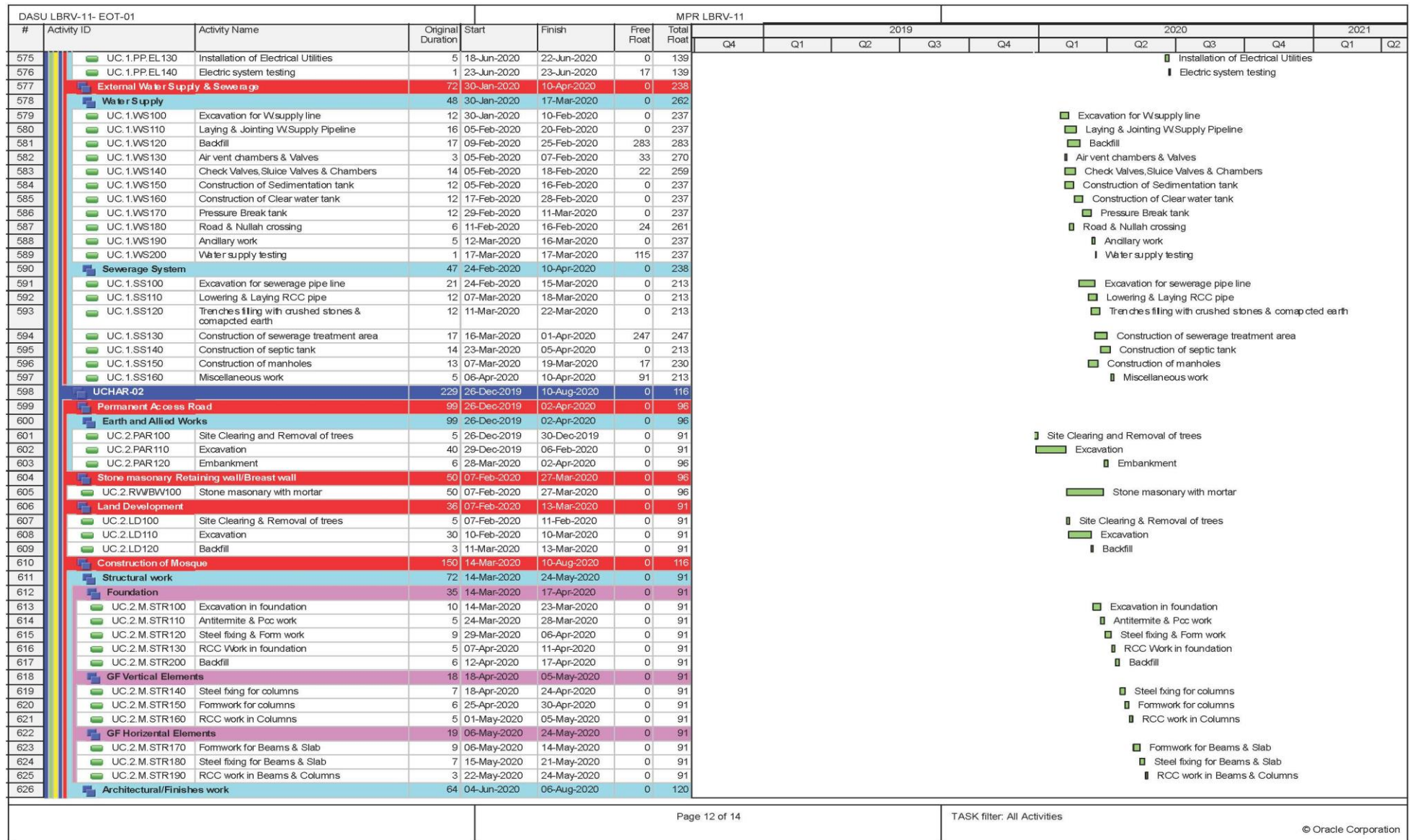
**Dasu Hydropower Project**  
**Monthly Progress Report No. 100 (November 2022)**

**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]



Gantt Chart of Dasu-LBRV-11 (12 of 14)



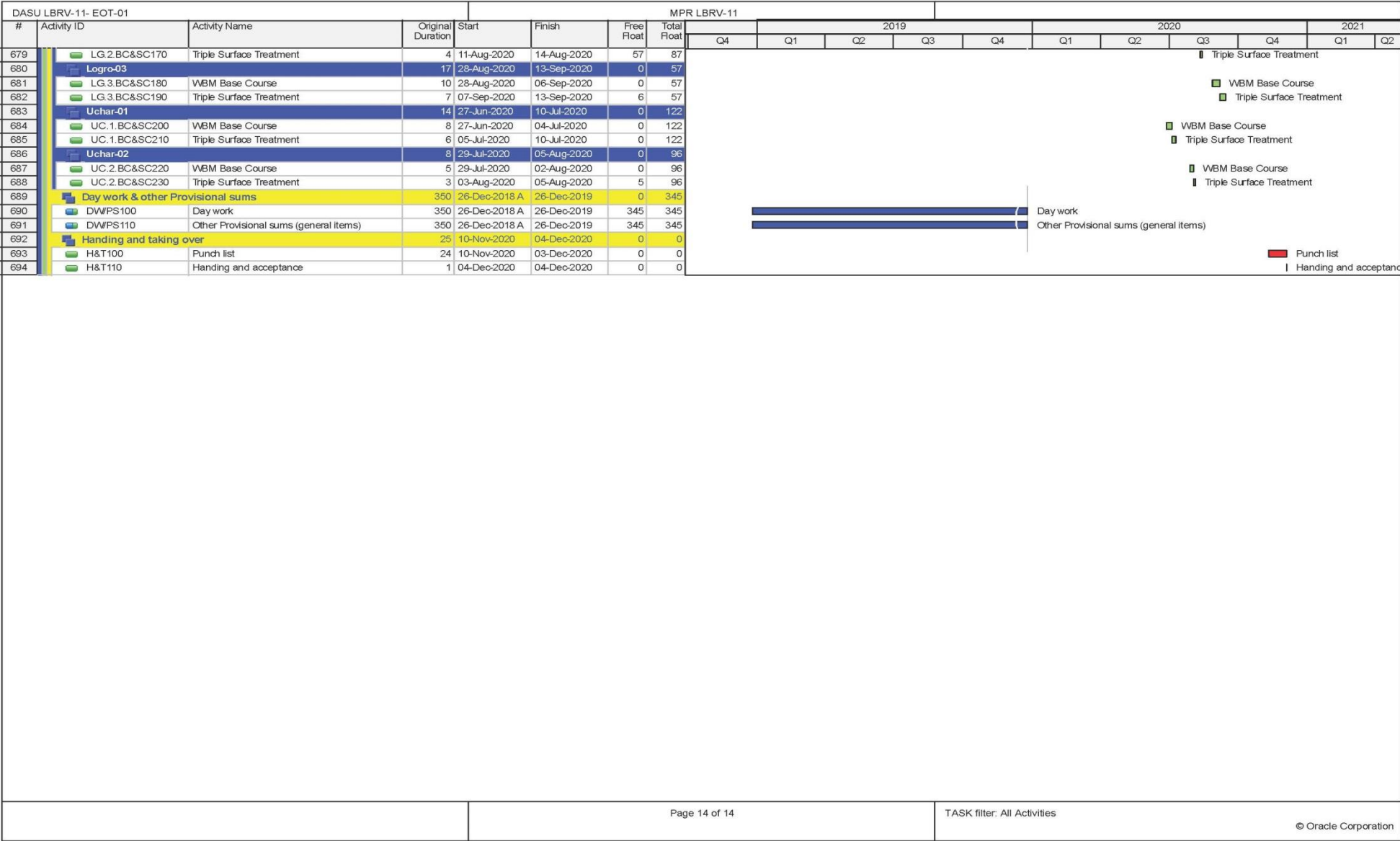
**Figure 20 [13/14]**

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	<b>Public Health work</b>		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	<b>Internal Electrification</b>		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	<b>External Water Supply &amp; Sewerage</b>		72	03-Apr-2020	13-Jun-2020	0	149												
649	<b>Water Supply</b>		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	<b>Sewerage System</b>		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	<b>Base Course &amp; Surface Course</b>		96	14-Jun-2020	17-Sep-2020	0	53												
668	<b>Khoshhe-01</b>		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	<b>Khoshhe-02</b>		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	<b>Logro-1</b>		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	<b>Logro-02</b>		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)**

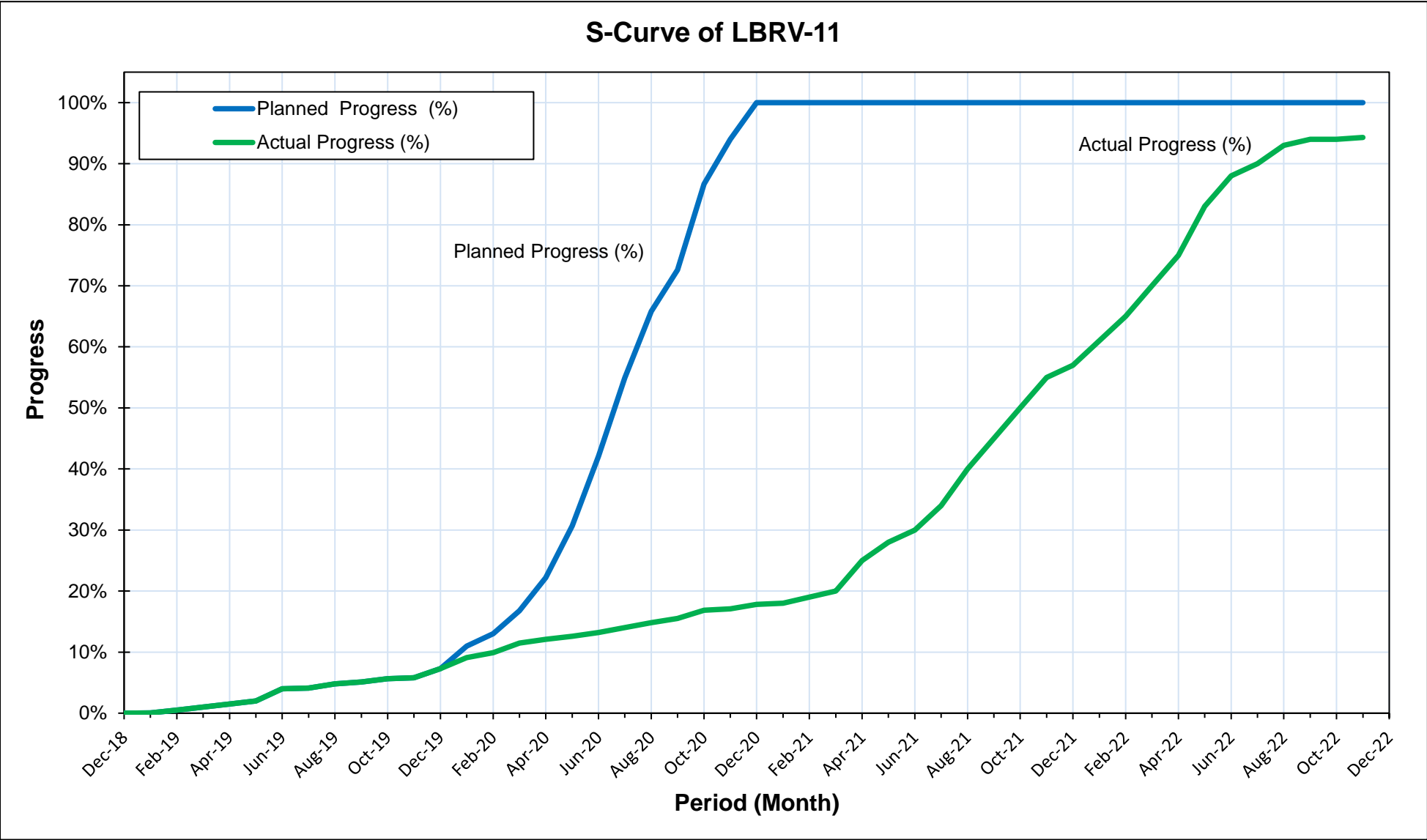
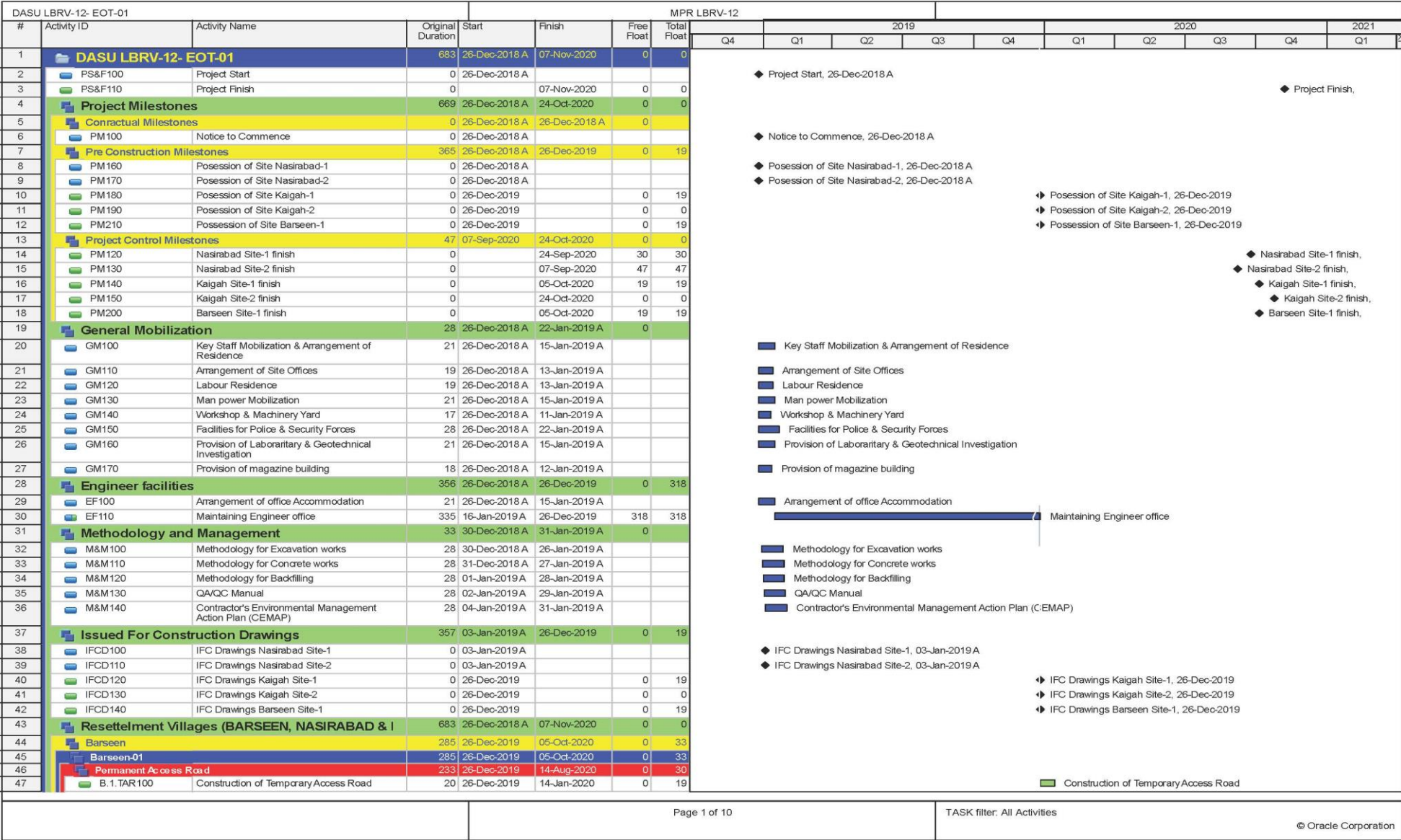


Figure 21: S-Curve for LBRV-11

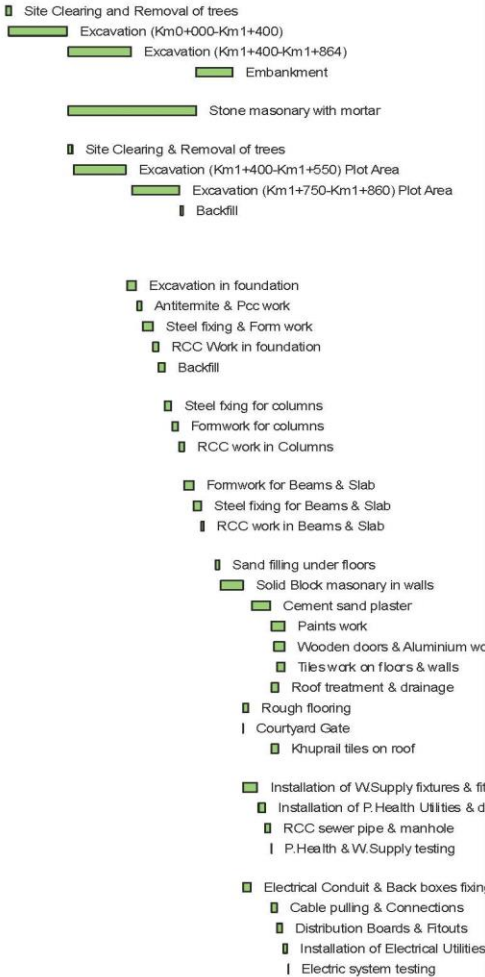
**Figure 22 [1/10]**



**Figure 22: Gantt Chart of Dasu-LBRV-12 (1 of 10)**

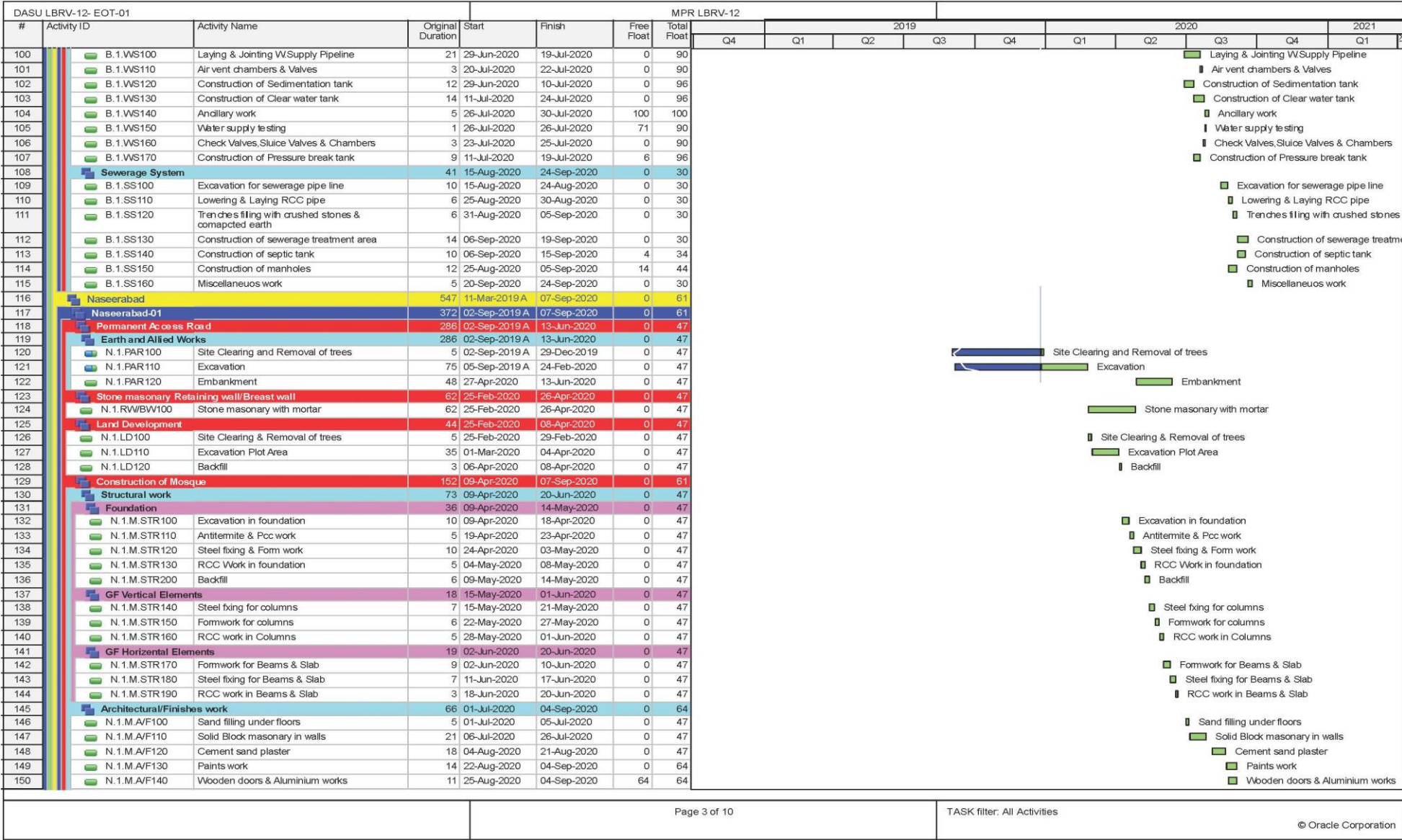


DASU LBRV-12- EOT-01		MPR LBRV-12																
#	Activity ID	Activity Name	Original Duration	Start	Finish	Free Float	Total Float	2019				2020				2021		
								Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	
48		<b>Earth and Allied Works</b>	213	15-Jan-2020	14-Aug-2020	0	30											
49	B.1.PAR100	Site Clearing and 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											



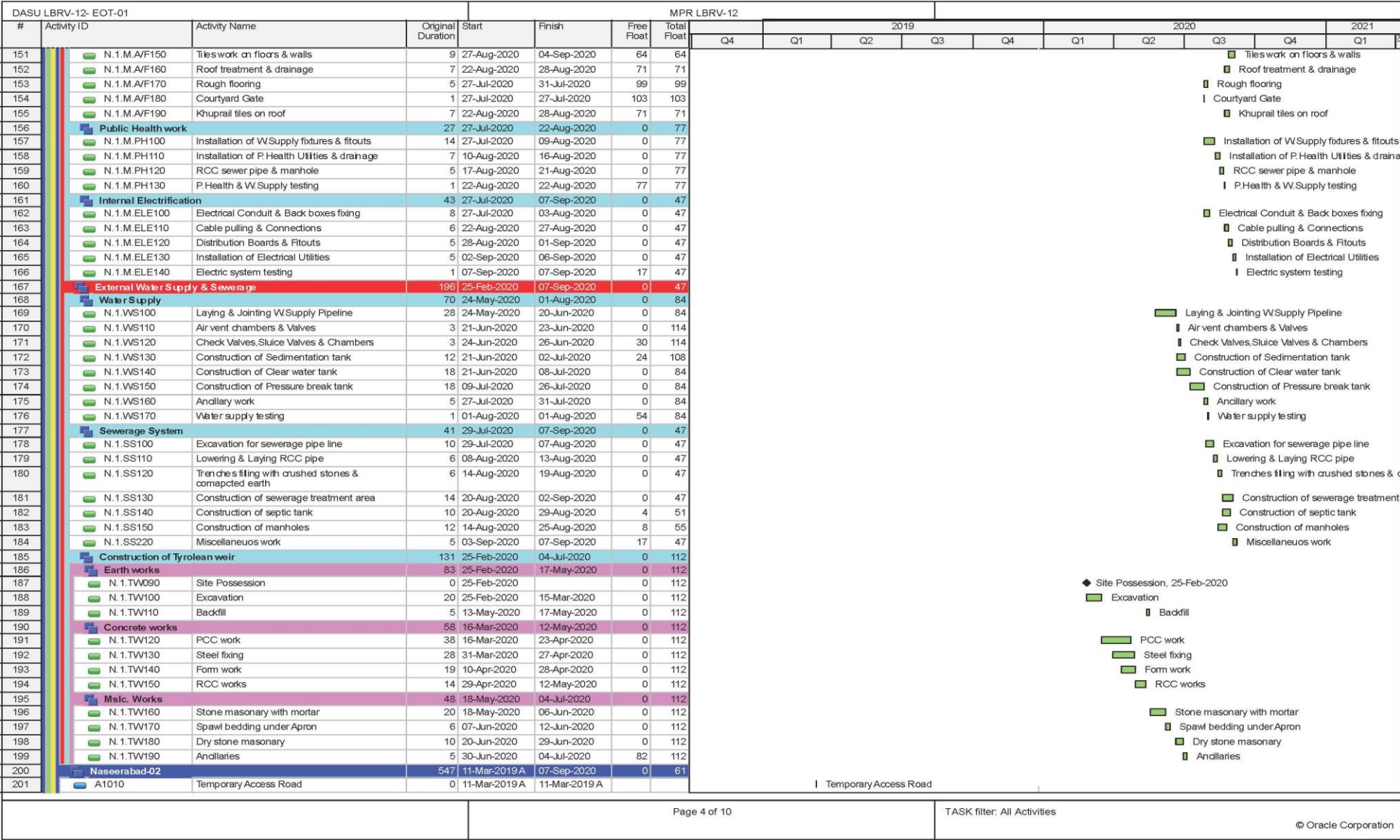
Gantt Chart of Dasu-LBRV-12 (2 of 10)

Figure 22 [3/10]



Gantt Chart of Dasu-LBRV-12 (3 of 10)





Gantt Chart of Dasu-LBRV-12 (4 of 10)

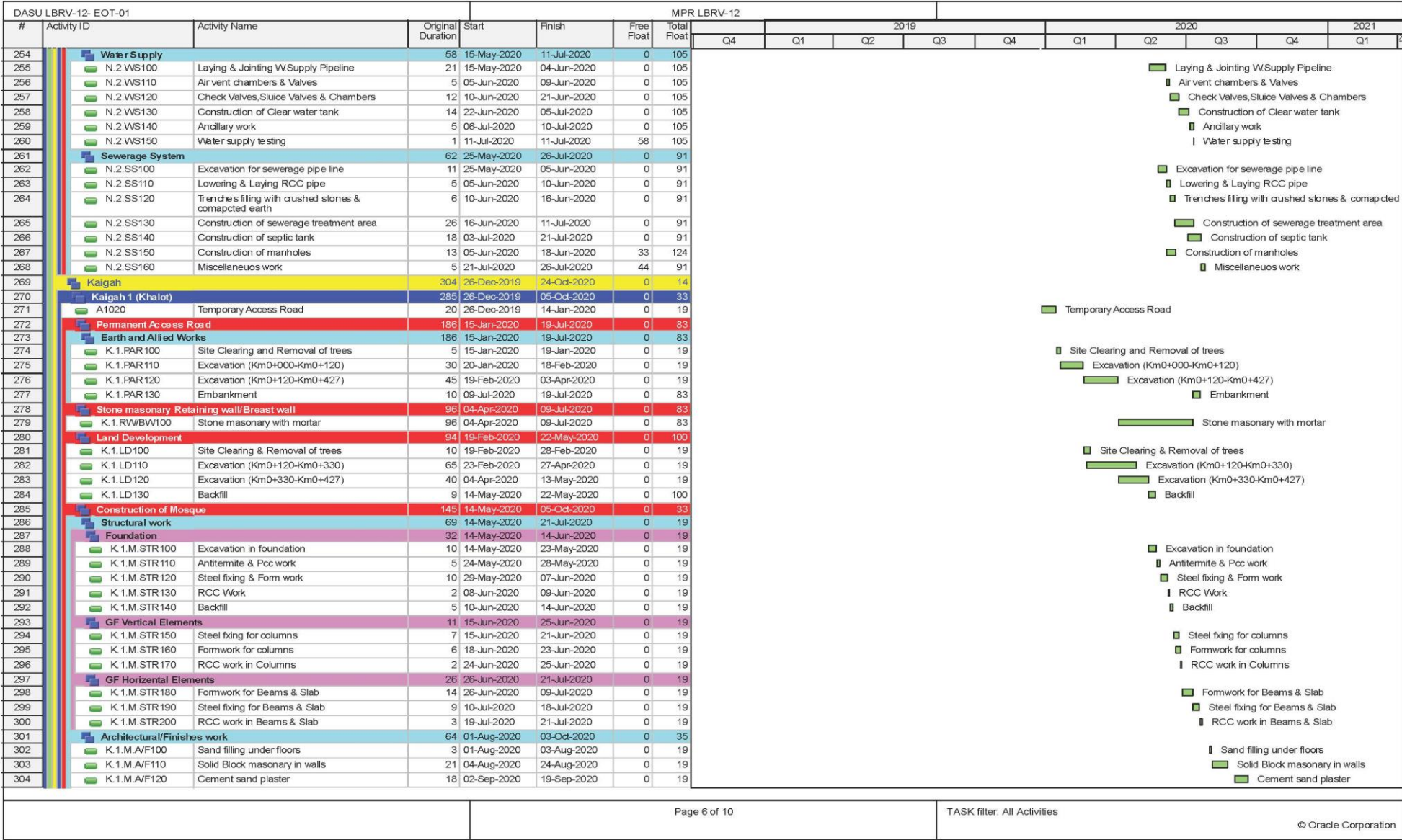
Figure 22 [5/10]

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)

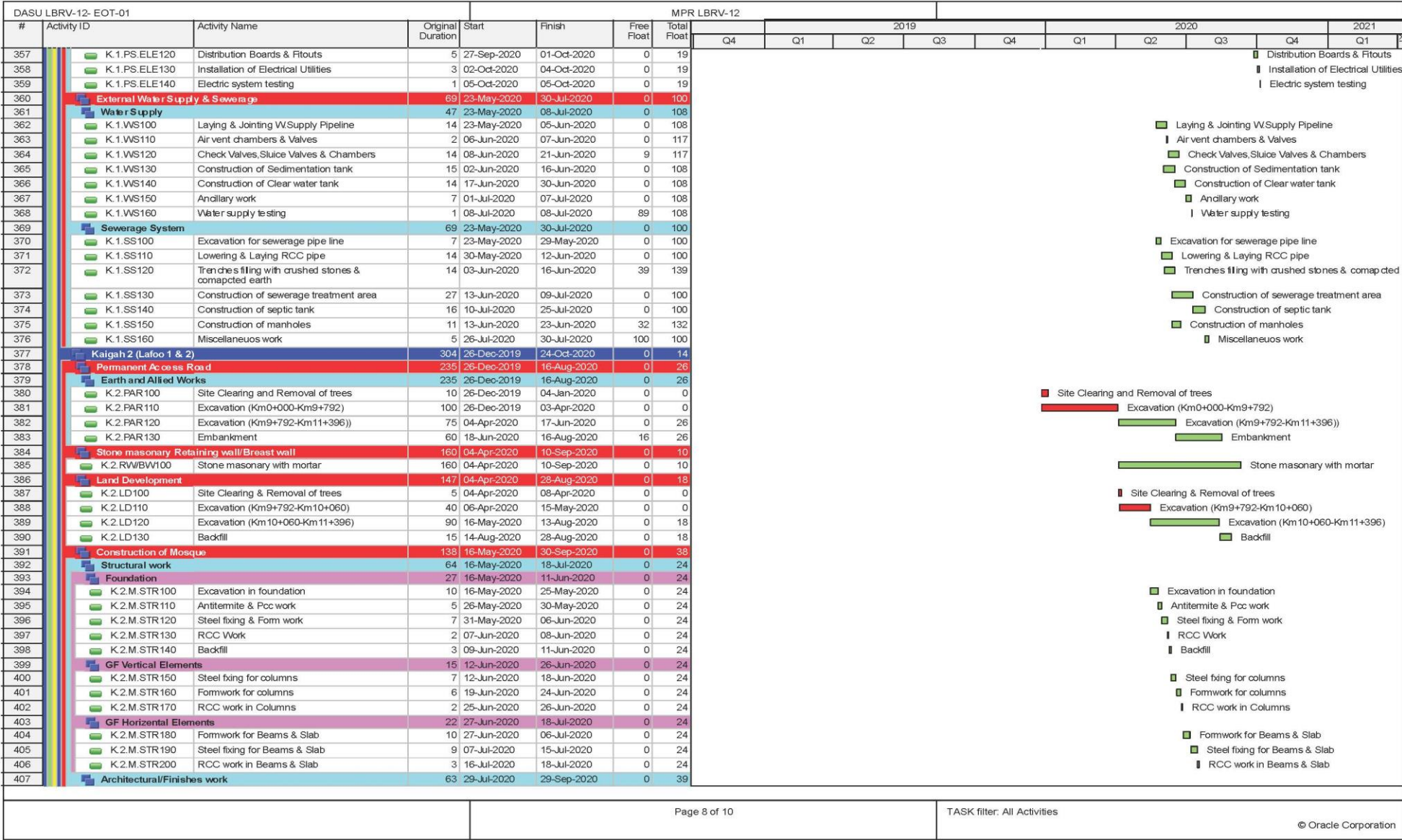
Figure 22 [7/10]

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)

Figure 22 [9/10]

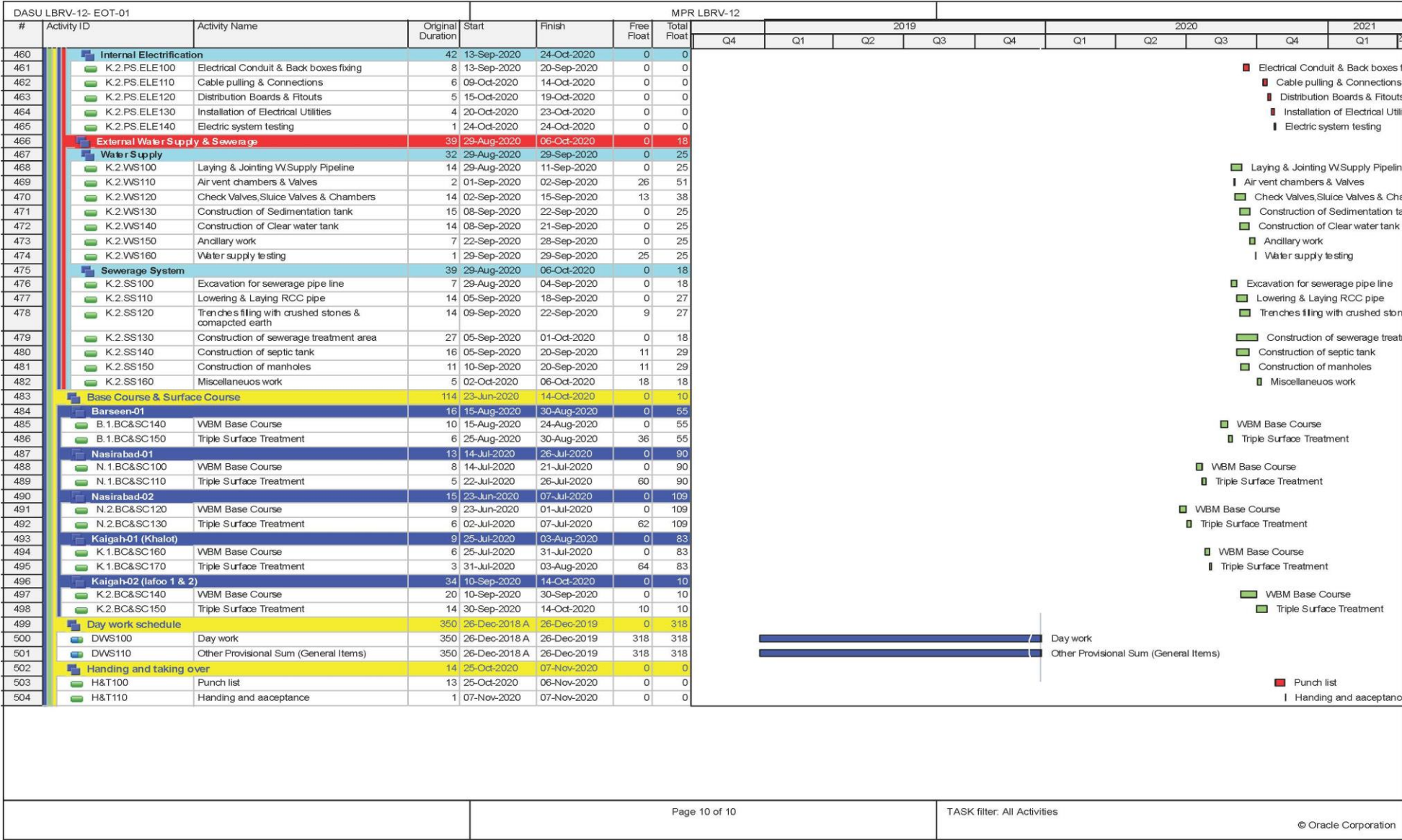
DASU LBRV-12- EOT-01				MPR LBRV-12														
#	Activity ID	Activity Name	Original Duration	Start	Finish	Free Float	Total Float	2019				2020				2021		
								Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	
408	K.2.M.A/F100	Sand filling under floors	3	29-Jul-2020	31-Jul-2020	0	24											
409	K.2.M.A/F110	Solid Block masonry in walls	21	01-Aug-2020	21-Aug-2020	0	24											
410	K.2.M.A/F120	Cement sand plaster	18	29-Aug-2020	15-Sep-2020	0	24											
411	K.2.M.A/F130	Paints work	14	16-Sep-2020	29-Sep-2020	0	39											
412	K.2.M.A/F140	Wooden doors & Aluminium works	9	21-Sep-2020	29-Sep-2020	0	39											
413	K.2.M.A/F150	Tiles work on floors & walls	10	20-Sep-2020	29-Sep-2020	39	39											
414	K.2.M.A/F160	Roof treatment & drainage	5	16-Sep-2020	20-Sep-2020	48	48											
415	K.2.M.A/F170	Rough flooring	4	22-Aug-2020	25-Aug-2020	74	74											
416	K.2.M.A/F180	Courtyard Gate	1	22-Aug-2020	22-Aug-2020	77	77											
417	K.2.M.A/F190	Khuprail tiles on roof	5	16-Sep-2020	20-Sep-2020	48	48											
418	Public Health work		20	22-Aug-2020	10-Sep-2020	0	58											
419	K.2.M.PH100	Installation of W.Supply fixtures & fitouts	8	22-Aug-2020	29-Aug-2020	0	58											
420	K.2.M.PH110	Installation of P Health Utilities & drainage	8	30-Aug-2020	06-Sep-2020	0	58											
421	K.2.M.PH120	RCC sewer pipe & manhole	3	07-Sep-2020	09-Sep-2020	0	58											
422	K.2.M.PH130	P Health & W.Supply testing	1	10-Sep-2020	10-Sep-2020	58	58											
423	Internal Electrification		40	22-Aug-2020	30-Sep-2020	0	24											
424	K.2.M.ELE100	Electrical Conduit & Back boxes fixing	7	22-Aug-2020	28-Aug-2020	0	24											
425	K.2.M.ELE110	Cable pulling & Connections	5	16-Sep-2020	20-Sep-2020	0	24											
426	K.2.M.ELE120	Distribution Boards & Fitouts	5	21-Sep-2020	25-Sep-2020	0	24											
427	K.2.M.ELE130	Installation of Electrical Utilities	4	26-Sep-2020	29-Sep-2020	0	24											
428	K.2.M.ELE140	Electric system testing	1	30-Sep-2020	30-Sep-2020	24	24											
429	Construction of Primary/Middle School		162	16-May-2020	24-Oct-2020	0	14											
430	Structural work		86	16-May-2020	09-Aug-2020	0	0											
431	Foundation		34	16-May-2020	18-Jun-2020	0	0											
432	K.2.PS.STR100	Excavation in foundation	10	16-May-2020	25-May-2020	0	0											
433	K.2.PS.STR110	Antitermite & Pcc work	6	26-May-2020	31-May-2020	0	0											
434	K.2.PS.STR120	Steel fixing & Form work	9	01-Jun-2020	09-Jun-2020	0	0											
435	K.2.PS.STR130	RCC Work	3	10-Jun-2020	12-Jun-2020	0	0											
436	K.2.PS.STR140	Backfill	6	13-Jun-2020	18-Jun-2020	0	0											
437	GF Vertical Elements		20	19-Jun-2020	08-Jul-2020	0	0											
438	K.2.PS.STR150	Steel fixing for columns	10	19-Jun-2020	28-Jun-2020	0	0											
439	K.2.PS.STR160	Formwork for columns	7	29-Jun-2020	05-Jul-2020	0	0											
440	K.2.PS.STR170	RCC work in Columns	3	06-Jul-2020	08-Jul-2020	0	0											
441	GF Horizontal Elements		32	09-Jul-2020	09-Aug-2020	0	0											
442	K.2.PS.STR180	Formwork for Beams & Slab	16	09-Jul-2020	24-Jul-2020	0	0											
443	K.2.PS.STR190	Steel fixing for Beams & Slab	14	25-Jul-2020	07-Aug-2020	0	0											
444	K.2.PS.STR200	RCC work Beams & Slab	2	08-Aug-2020	09-Aug-2020	0	0											
445	Architectural/Finishes work		64	20-Aug-2020	22-Oct-2020	0	16											
446	K.2.PS.A/F100	Sand filling under floors	3	20-Aug-2020	22-Aug-2020	0	0											
447	K.2.PS.A/F110	Block masonry in walls	21	23-Aug-2020	12-Sep-2020	0	0											
448	K.2.PS.A/F120	Cement sand plaster	18	21-Sep-2020	08-Oct-2020	0	0											
449	K.2.PS.A/F130	Paints work	14	09-Oct-2020	22-Oct-2020	0	16											
450	K.2.PS.A/F140	Wooden doors & Aluminium works	10	13-Oct-2020	22-Oct-2020	0	16											
451	K.2.PS.A/F150	Tiles work on floors & walls	9	14-Oct-2020	22-Oct-2020	16	16											
452	K.2.PS.A/F160	Rough flooring	4	13-Sep-2020	16-Sep-2020	52	52											
453	K.2.PS.A/F170	Main entrance Gate	2	13-Sep-2020	14-Sep-2020	54	54											
454	K.2.PS.A/F180	Khuprail tiles on roof	3	09-Oct-2020	11-Oct-2020	27	27											
455	Public Health work		19	13-Sep-2020	01-Oct-2020	0	37											
456	K.2.PS.PH100	Installation of W.Supply fixtures & fitouts	8	13-Sep-2020	20-Sep-2020	0	37											
457	K.2.PS.PH110	Installation of P Health Utilities & drainage	6	21-Sep-2020	26-Sep-2020	0	37											
458	K.2.PS.PH120	RCC sewer pipe & manhole	4	27-Sep-2020	30-Sep-2020	0	37											
459	K.2.PS.PH130	P Health & W.Supply testing	1	01-Oct-2020	01-Oct-2020	37	37											

- Sand filling under floors
- █ Solid Block masonry in walls
- █ Cement sand plaster
- █ Paints work
- █ Wooden doors & Aluminium works
- █ Tiles work on floors & walls
- █ Roof treatment & drainage
- █ Rough flooring
- █ 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 Beams & Slab
- █ Sand filling under floors
- █ Block masonry in walls
- █ Cement sand plaster
- █ Paints work
- █ Wooden doors & Aluminium works
- █ Tiles work on floors & walls
- █ Rough flooring
- █ Main entrance 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

Gantt Chart of Dasu-LBRV-12 (9 of 10)



Figure 22 [10/10]



Gantt Chart of Dasu-LBRV-12 (10 of 10)

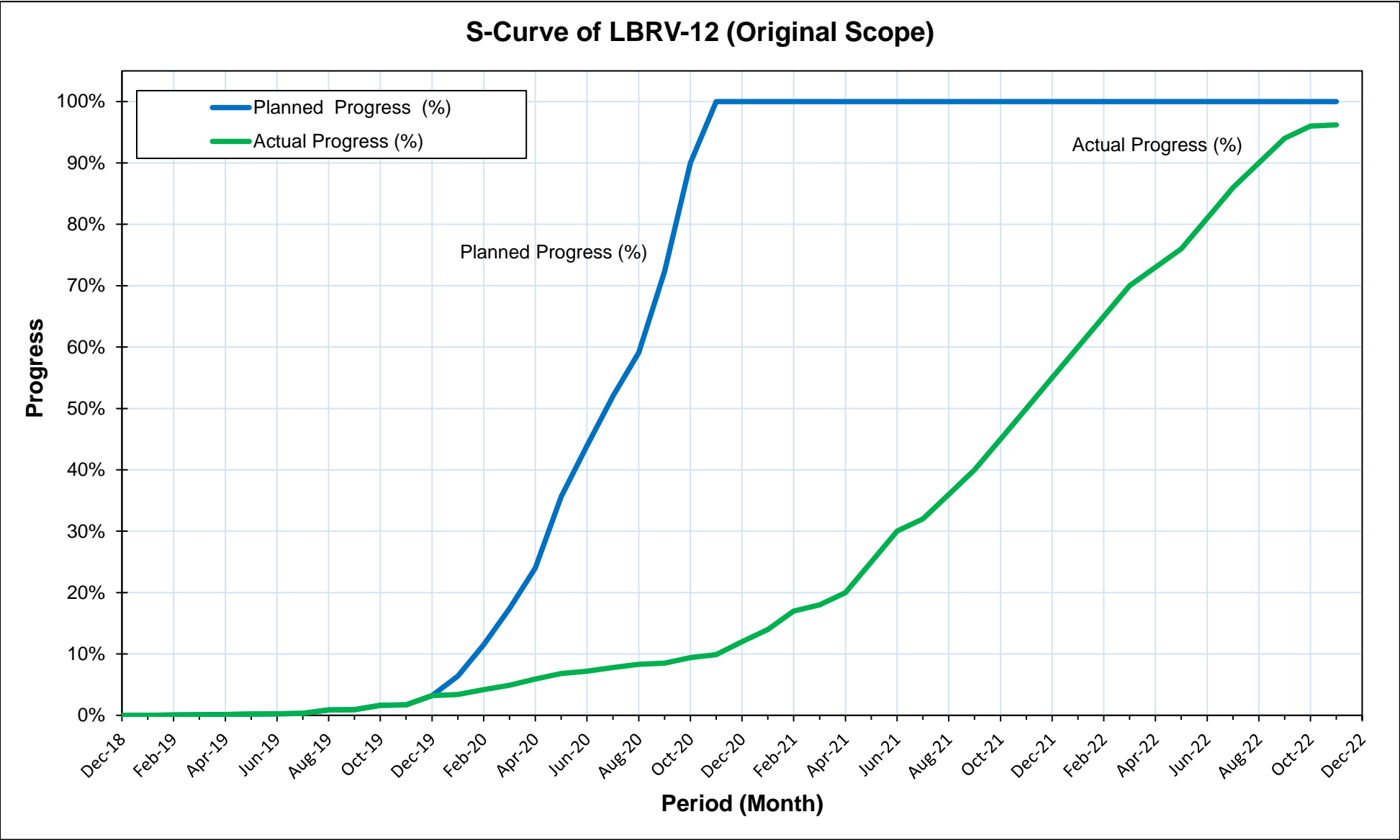


Figure 23: S-Curve for LBRV-12









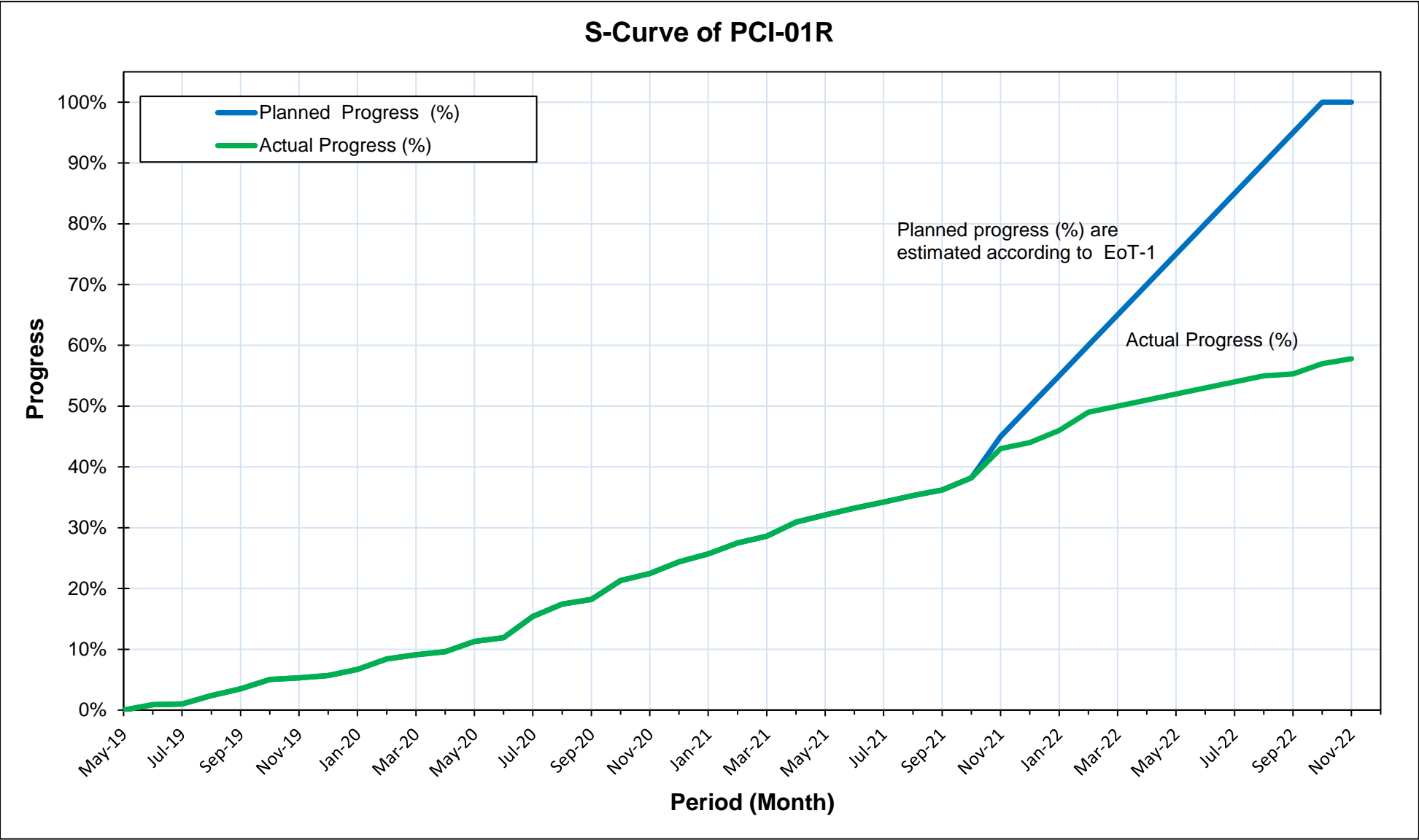


Figure 25: S-Curve for PCI-01R















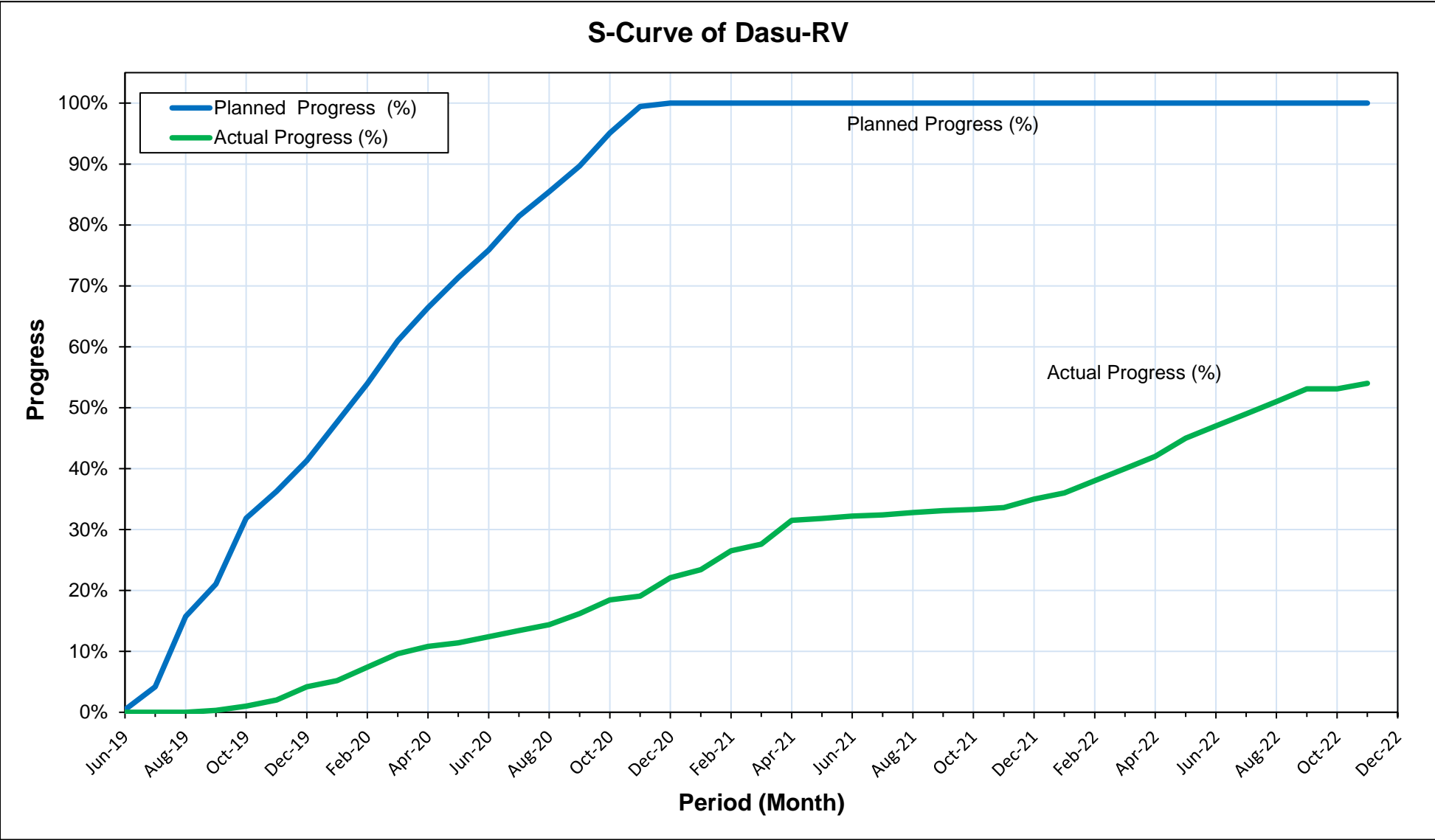


Figure 27: S-Curve for RV



Figure 28 [1/4]

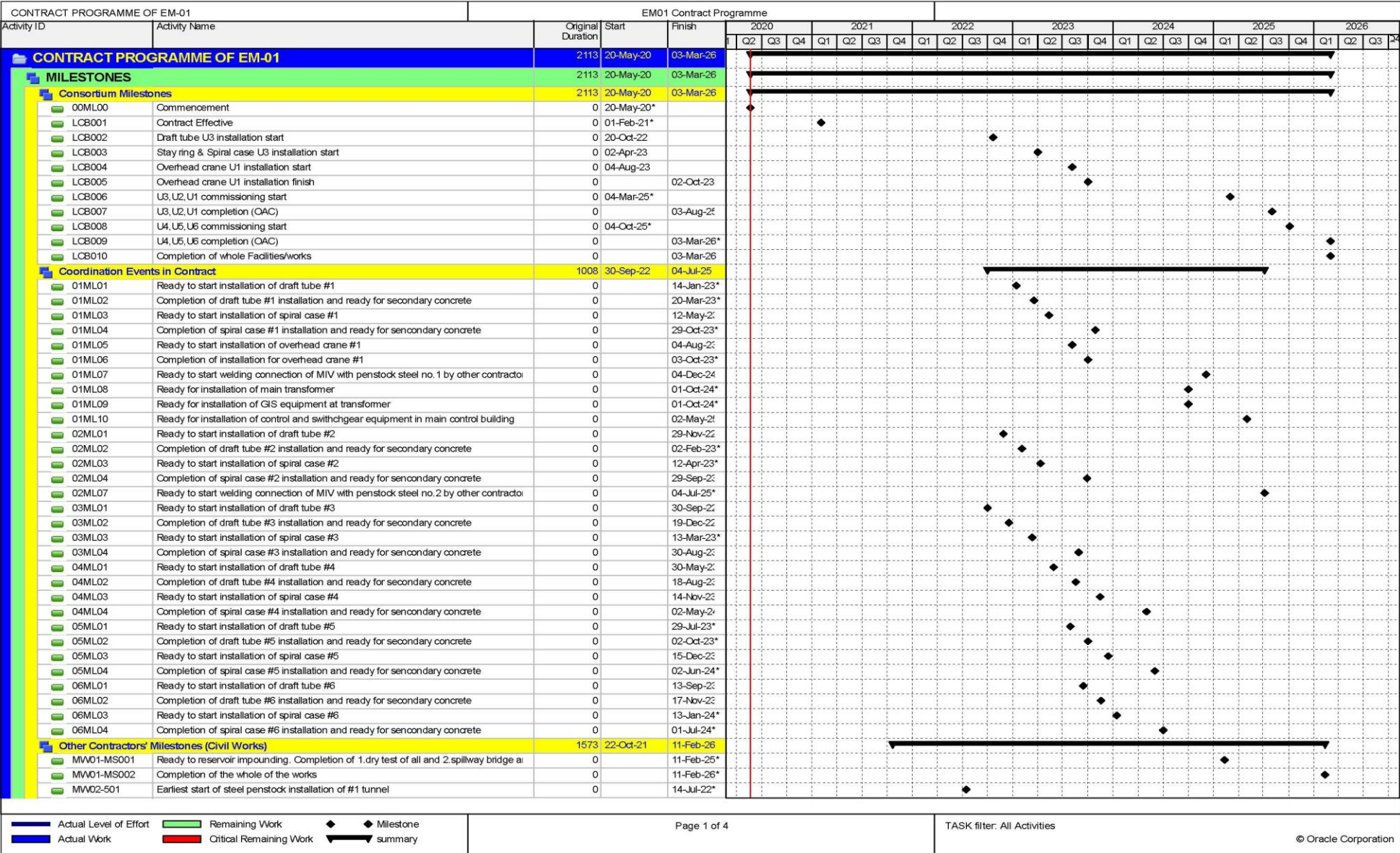
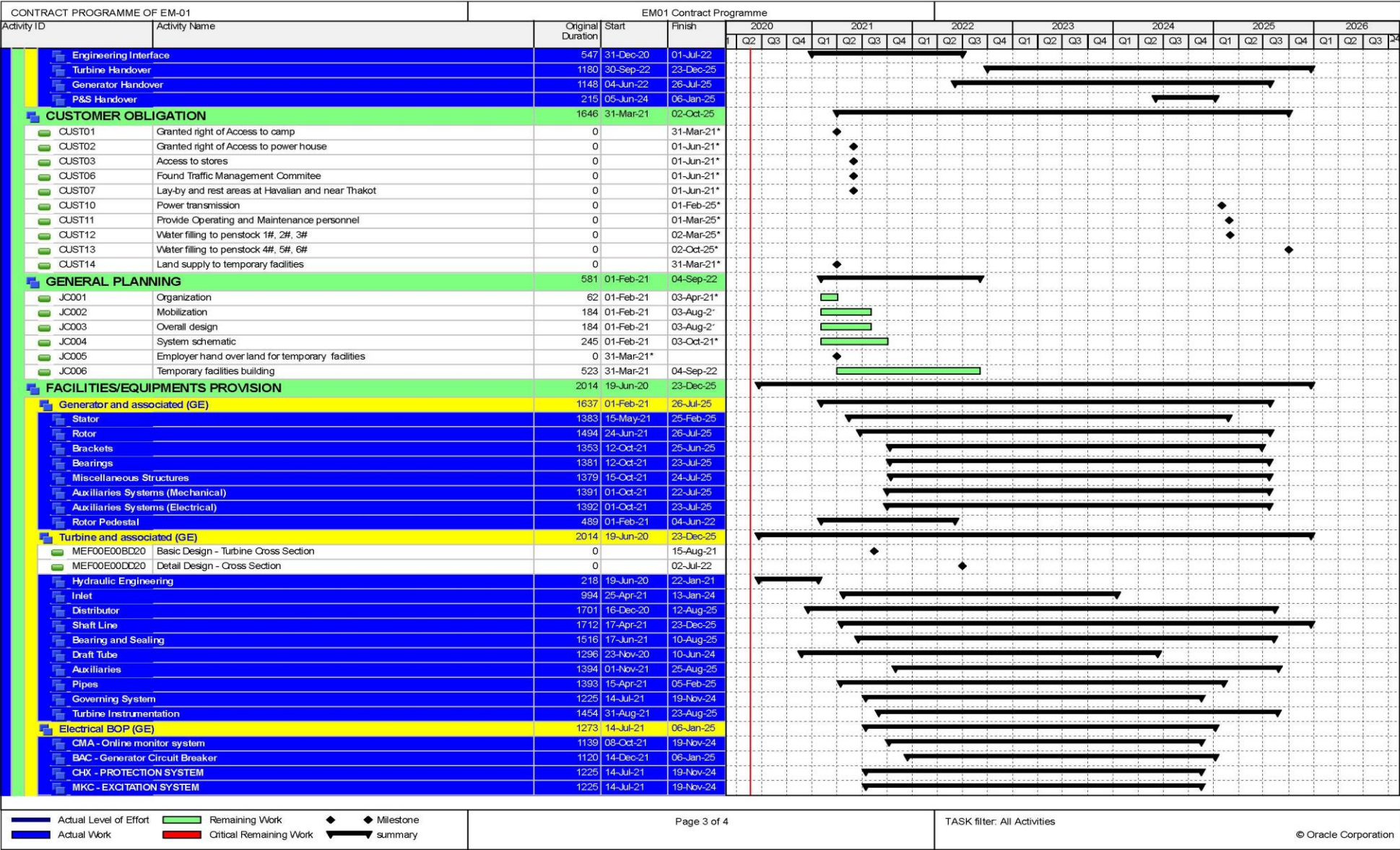


Figure 28: Gantt Chart of Dasu-EM-01 (1 of 4)





Figure 28 [3/4]



Gantt Chart of Dasu-EM-01 (3 of 4)





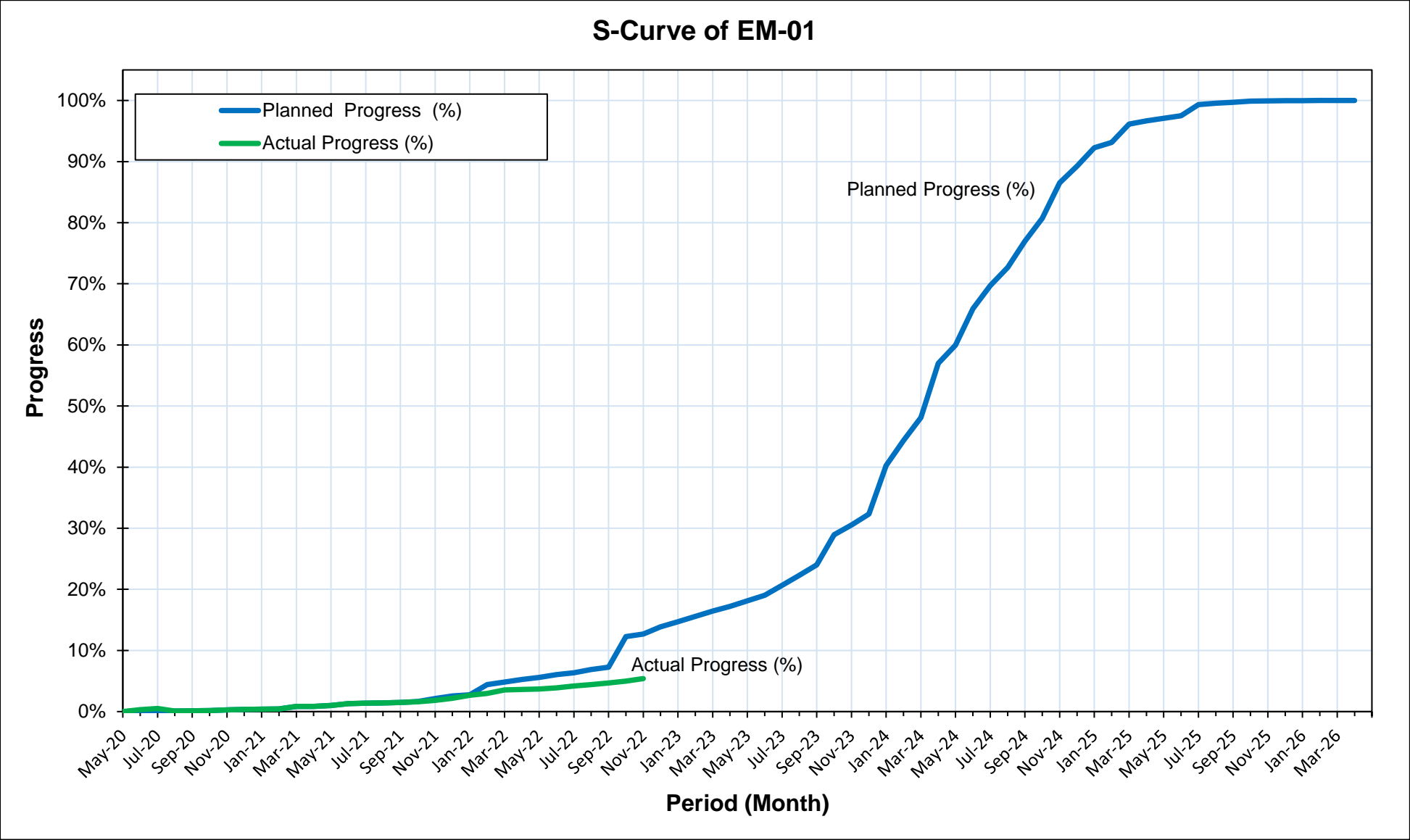


Figure 29: S-Curve for EM-01



# APPENDICES

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# **APPENDIX A**

## **Project Activities Pictorial**

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**Appendix A: Project Activities Pictorial**

**Photographs of Environment Section**



Meeting with MSC Consultant in Dasu on 14th of Nov 2022



Training Session Arranged by M&E Consultant on 17th of Nov 2022



Supervision of monthly environmental spot monitoring





NOx, Cox, Sox PM analyzers inside the mobile station



Particulate Matter Analyzing sampler, Noise, Light meters and Weather Data Collectors (on Roof of Vehicle)



Supervision at Barseen point



Air diffusion tubes installed at Seo

Air Dispersal Data Collectors from Haigler Bailey

### Photographs of OHS Section



A view of the monthly progress review meeting with CGGC



A view of training session delivered by DHC OHS about communicable diseases



DHC OHS staff conducting TBT with night shift workers at main works



DHC OHS staff conducting TBT with night shift workers at main works





AFI inspection of first aid station at Barseen



AFI inspection of first aid station at Uchar



During AFI inspection of ambulance at KKH-02



During AFI inspection of ambulance at Uchar Camp



During AFI inspection of portable fire extinguisher at MW02



An awareness session conducted with local commuters at RAR-02 by CGGC OHSO



During AFI inspection of signages at Zaal Camp RAR-01



Air quality monitoring inside tunnels at MW01



OHS Staff RAR-02



A view of induction trainings conducted by OHSO RAR02



A view of Monthly inspection of portable fire extinguishers at DHC Office





A view of induction trainings conducted by OHSO KKH02



A view of TBTs conducted at site by Contractors



AFI Inspection of fire truck conducted by DHC OHS professional and Equipment inspector



An inspection of full body harness conducted by DHC OHS staff during night shift



A view of training session conducted by CGGC for RAR02 and KKH02 workers



A view of training session conducted by CCECC for RAR01 workers

**Photographs of Social & Resettlement Section**



Visit to dumping area Summer Nullah on 01-11-2022 for verification of Commercial Structures



Visit to Kaiga, Chelashi and Gadeer on 01-11-2022 for verification of Commercial Structures





Visit to dumping area Summer Nullah on 02-11-2022 for verification of Commercial Structures



Visit to Dumping area Summer Nullah on 02-11-2022 for verification of Commercial Structures



48th meeting of RSC on 3rd November 2022



Visit to RV Chuchang-1 for inspection of back filling and allocation of Plots to the resettling community on 16-11-2022



Meeting with community of RV Chuchang -1 for dislocation of Houses on 18-11-2022



Meeting with community of RV Chuchang -1 for dislocation of Houses on 21-11-2022



Preparation of Applicable Project allowances



Preparation of Applicable Project allowances



House demolished in Sigloo village on 15-11-2022



House demolished in Sigloo village on 15-11-2022





Project Allowance paid to ESMR AHHs on 23.11.2022



Task Force for demolishing of Houses at on 24-11-2022



Preparation & Review of SMR Paid files for Project Allowance



Verification of Commercial Structure at Shori Nallah



AD Resettlement WAPDA is presenting allowances payment cheque to AHH



Budgeting and Accounts Officer WAPDA is presenting allowances payment cheque to AHH



M&E Specialist DHC giving allowances payment cheque to AHH at S&R Section DHC



Budgeting and Accounts Officer WAPDA is presenting allowances payment cheque to AHH



Data Analyst DHC presenting allowances payment cheques to the AHH



WAPDA Accounts and DHC staff working on Allowances Payment Files at WAPDA officer



Photographs of KKH-01 & 02, RAR-01 & 02 & TL-01



Shotcrete at Zero Point Third Bench RD=1+450



Mucking in Logro-A tunnel RD=K9+206



Primary Support works in K4 tunnel in progress



Drilling for Blast in Logro-A Tunnel RD=K9+206



Charging for Blast at K45 Access Road



Excavation and Hauling at K31+100 KKH02



Breast Wall in progress start section (KOMILA BYPASS)



Excavation work in progress at K0+350 (KOMILA BYPASS)





Retaining Wall in progress K1+800 (Komila Bypass)



Breast Wall at K0+130 in progress (Komila Bypass)



Excavation at K33+800 RAR02



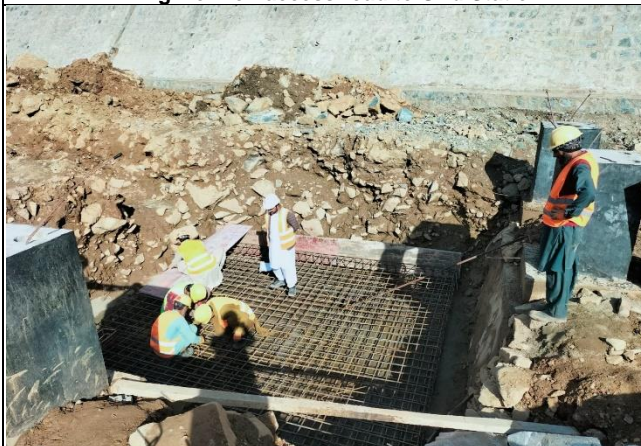
Blasting at Seer Gayal Access Road



Drilling work on access road to Grid Station



Toe concrete for access road to Grid Station



Steel fixing for foundation concrete of Gantry on upper terrace of Grid Station.



Connectivity test of copper wire with exothermic welding in Grid Station.



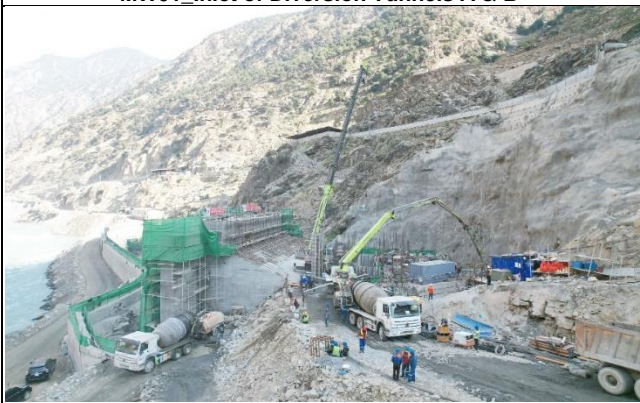
Photographs of MW-01 & 02



MW01\_Inlet of Diversion Tunnels A & B



MW01\_Excavation for Right Bank Cable Crane



MW01-Slab Concrete of DTB



MW01-U/S Starter Dam - Right Bank works



MW01-Diversion Tunnel A&B – Outlet Structure



MW01-LBTDT Outlet portal excavation



MW01\_Inlet of Diversion Tunnel B



MW-01 & MW02\_Uchar Crushing & Batching Plant at Thoki





MW02\_Access Road for Left Bank Cable Crane and Intake Area



MW-02\_Excavation at Intake Area 990m



MW-02-Adit Tunnel CT-2 for Excavation of Tailrace Tunnels



MW-02-Excation Additional Support Work in Powerhouse Cavern



MW-02-Excavation and Slope Protection works at Switchyard of MW-02



**Photographs of Project Office Building and Residences**



**Wapda Project Office Building Completed**





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**

Date	Subject
01.11.22	Proposal on Preliminary Design VO Preparation and Detail Design of Tunnels and Bridges for Realignment of KKH-02
01.11.22	Prequalification Document for Project Colony and Infrastructure.PCI-02
03.11.22	Generator Procurement for Provision of Power Supply No.1 Crushing Plant and No.1 Batching Plant.MW-01
04.11.22	Interim Payment Certificate No.35 (Revised).PCI-01R
05.11.22	LADP-MSWM-Comments on Bidding Documents
05.11.22	Proposal and Explanation on Measures to Mitigate Damages on Diversion Scheme Extreme Climate.MW-01
07.11.22	LADP-DWS-Bid Evaluation Report
07.11.22	Detail Incident Investigation Report at Tower Location 206.TL-01
11.11.22	Interim Payment Certificate No. 2
14.11.22	Submission of Revised Bidding Documents (Hiring of 15 Vans on Rental Basis)
15.11.22	MPR No.99 for the Month of October 2022 under Assignment-B
16.11.22	Revised Bidding RFQ Documents SA-01
17.11.22	Interim Payment Certificate No.64 TL-01
18.11.22	Interim Payment Certificate No 32- For Aug-2022 MW-01
20.11.22	Interim Payment Certificate No # 32 - For Aug-2022 MW-02
21.11.22	Interim Payment Certificate No.2 SSKD

<b>Date</b>	<b>Subject</b>
22.11.22	Submission of Engineer's Estimate - Diesel Generator Set for Project Office PCI-01
24.11.22	Submission of Engineer's Estimate and Technical Specifications (Solar Power Supply)
25.11.22	LADP Monthly Progress Report No. 43 for the Month of October, 2022
28.11.22	Interim Payment Certificate No 28 (KKH-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>
01.11.22	DHC CGGC	Meeting Room DHC	Minutes of Weekly Meeting 1st November 2022.MW-01
07.11.22	DHC CGGC-MW-02 CCECC-KKH-01	Meeting Room DHC	Minutes of Coordination Meeting MW- 02
08.11.22	DHC CGGC	Meeting Room DHC	Minutes of Weekly Meeting 8th November 2022- MW-01
15.11.22	DHC CGGC	Meeting Room DHC	Minutes of Weekly & Monthly Progress Meeting 15th November 2022
16.11.22	WAPDA DHC KGL	Meeting Room DHC	MOM Contractor's Non-Compliance with safety Requirements SA-01
19.11.22	WAPDA DHC CCECC	Meeting Room DHC	MOM-Monthly OHS Progress Review KKH-01
19.11.22	WAPDA DHC CCECC	Meeting Room DHC	MOM-Monthly OHS Progress Review RAR-01
22.11.22	DHC CGGC	Meeting Room DHC	Minutes of Weekly Meeting 22nd November 2022- MW-01
23.11.22	WAPDA DHC CGGC	Meeting Room DHC	Minutes of Monthly OHS Progress Review Meeting for MW-01 and MW-02
23.11.22	WAPDA DHC CGGC	Meeting Room DHC	Minutes of Monthly Environment Progress Review Meeting for MW-01 & 02
23.11.22	WAPDA DHC PCCC	Contractor Camp	Minutes of Weekly Progress Review Meeting TL-01
23.11.22	WAPDA DHC PCCC	Meeting Room DHC	MOM-Monthly OHS Progress Review PCCC
24.11.22	WAPDA DHC CGGC	Meeting Room DHC	Minutes of Monthly OHS Progress Review Meeting for KKH-02



24.11.22	WAPDA DHC CGICOP	Meeting Room DHC	MOM-Monthly OHS Progress Review PCI-01R
24.11.22	WAPDA DHC CGGC	Meeting Room DHC	Minutes of Monthly OHS Progress Review Meeting for RAR-02
29.11.22	DHC CGGC	Meeting Room DHC	Minutes of Weekly Meeting 29nd November 2022- MW-01
30.11.22	WAPDA DHC CCECC	Meeting Room DHC	Minutes of Monthly Environmental Progress Review Online Meeting for KKH-01
30.11.22	WAPDA DHC CGGC	Meeting Room DHC	Minutes of Monthly Environmental Progress Review Meeting for KKH-02
30.11.22	WAPDA DHC CGICOP	Meeting Room DHC	Minutes of Monthly Environmental Progress Review Meeting for PCI-01R
30.11.22	WAPDA DHC CCECC	Meeting Room DHC	Minutes of Monthly Environmental Progress Review Meeting for RAR-01

# **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.	01.11.22	GM/PD/DHPP/Dir(C)/6B(CS)/6848-53	Approval of Hafiz Rana Azeem Sarwar TBN Position Interpreter-2 to Jr Contract Engineer NP11	
2.	02.11.22	CE/PD/WMSC/Dasu HPP/Model Study/Maintenance/138	Revised Work Estimates-Maintenance 4 Nos Physical Models HRS Nandipur	
3.	07.11.22	GM/PD/DHPP/Dir(C)/6B(CS)/6938-43	Approval of Mr Yuzo NAKANO Construction Technical Advisor-2 K55-2	
4.	07.11.22	GM/PD/Dasu HPP/Accts/237-40	Release Payments of Remuneration Invoice No. 97 for August 2022	
5.	08.11.22	GM/PD/Dasu HPP/DD(T)/6C(CS) /6957-62	Multiple Entry Work Visa to Mr. Masud Karim Environmental Advisor-B	
6.	15.11.22	GM/PD/DHPP/Dir(C)/6B(CS)/7051-55	Request for Approval Escalation on Billing Rates of Technical Staff	
7.	16.11.22	GM/PD/DHPP/Dir(C)/6B(CS)/7062-65	Upgradation of DHC Non-Technical Staff	
8.	16.11.22	GM/PD/Dasu HPP/Accts/7078-81	Advance of 100 Meters on Shore Drilling Work at Dasu HPP	
9.	16.11.22	GM/PD/DHPP/Dir(C)/6B(CS)/7068-72	Approved Escalation on Billing Rates in Foreign Currency (JPY & EURO)	
10.	17.11.22	GM/PD/Dasu HPP/6C(CS) /7089-93	Request for Issuance of Multiple Entry Visa to John Allan Gordon	
11.	21.11.22	GM/PD/DHPP/Dir(C)/6B(CS)/7147-51	Approved Inter-Adjustment Remuneration JPY, EURO & PKR Portion within Approved AM-4(B)	
12.	25.11.22	GM/PD/DHPP/Dir(C)/6B(CS)/7242-47	Approval of Haris Ashraf, Jr Engineer Costing & Planning L124	
13.	30.11.22	GM/PD/Dasu HPP/Accts/299	30.11.22-347-Release Payments of Reimbursable Invoice No. 095 for June 2022 (299)	
<b>Dasu Office</b>				
14.	01.11.22	GM/PD/DHPP/Contracts/DHC/111/3948-51	Prime Minister's Directives Regarding Prequalification of Contractors	
15.	01.11.22	GM/PD/DHPP/Contracts/DHC/111/13952-55	Grant of Fresh Temporary Explosives License in Lieu of Expired License No.KPK - SP -865-E in form EL-03	
16.	01.11.22	GM/PD/DHPP/A-11/DHC/13974-75	MPG of Vehicles Under Use of Dasu Hydropower Consultants (DHC )	
17.	02.11.22	GM/PD/DHPP/Security/S-06/1410	Revised PC-1 Security Aspects	
18.	02.11.22	GM/PD/DHPP/G-10/366-68	0Relocation of Basic Health Unit and Boys Primary School In the Close Vicinity of Contractor's Proposed Construction Area at Seo	
19.	01.11.22	GM/PD/DHPP/G-10/363-65	Effluent at CT-02 Site is Drained into the River Without any Treatment	
20.	03.11.22	GM/PD/DHPP/Security/S-06/1413-14	Advisory Notice	
21.	02.11.22	GM/PD/DHPP/Dir.(C )/6B(CS)/6890-96	Performance Evaluation Report ( Per-2022 ) of Construction Supervision Consultants M-s Dasu Hydropower Consultants	
22.	07.11.22	GM/PD/DHPP/S&D/OHS/A-90/14152-54	Request for Issuance of Recommendation Letter For M-S CGGC Explosive Magazine in Barseen	
23.	07.11.22	GM/PD/DHPP/Security/S-04/1423-26	Schedule of Outstation Movement of Expatriates for the Month of November ,2022	
24.	08.11.22	GM/PD/DHPP/Security/S-06/1432-33	Comments on Construction of Watch Towers -Sentry Posts - Crushing Plant at Uchar Site	
25.	08.11.22	GM/PD/DHPP/Security/S-04/1437-41	Outstation Movement of Expatriates	
26.	07.11.22	GM/PD/DHPP/Security/S-14/1417-22	Minutes of Monthly Meeting Held with DHC -Representatives of Contractors on Security Issues at DHPP	
27.	10.11.22	GM/PD-Dasu HPP(Field)/S&R/E-28/14248-52	Provision of Medical Screening Tests and Certificates of Contractors	
28.	10.11.22	GM/PD/DHPP/Contracts/Floods/10/14236-39	Alternative Arrangement for RE-Construction of Uchar Bridge	
29.	08.11.22	GM/PD/DHPP/Contracts/81C/14222-26	Shifting of Generators from Neelum -Jhelum Project	
30.	10.11.22	GM/PD/DHPP/Security/S-06/1453-54	Advisory Notice	
31.	10.11.22	GM/PD/DHPP/Security/S-06/1455-56	Advisory Notice	
32.	13.11.22	GM/PD/DHPP/Security/S-04/1457-60	Outstation Movement of Expatriates	
33.	07.11.22	GM/PD/DHPP/Dir(C)/6B(CS)/6938-43	Approval of Mr. YUZO NAKANO as Construction Technical Advisor-2 (K55-2)	
34.	14.11.22	GM/PD/DHPP/Dir(C)/6B(CS)/7024-27	Request for Approval of Inter-Adjustment of Remuneration in JPY, Euro and PKR Portion within Approved AM-4(B)	
35.	17.11.22	GM/PD/DHPP/Contracts/DHC/111/14421-27	Request Data for Revised PC-1	
36.	17.11.22	GM/PD/DHPP/Contracts/DHC/111/14407-20	Tentative Itinerary of site Visits by WAPDA Dignitaries	
37.	17.11.22	GM/PD/DHPP/Security/S-04/1465-68	Outstation Movement of Expatriates	
38.	21.11.22	PD/DHPP/SS/TMP/E-37/371-73	Request to incorporate the Traffic Management Organization	
39.	21.11.22	GM/PD/DHPP/E-1/382-84	Relocation of Basic Health unit and Boys Primary School in the Close Vicinity Seo Area	
40.	21.11.22	GM/PD/DHPP/Security/S-04/1469-72	Outstation Movement of Expatriates	
41.	22.11.22	GM/PD/Dasu HPP/DD(T)/A-58/7184-88	Extension in Services of 19 Frontier Constabulary (FC)Contract Platoons for Fy 2022-23	
42.	21.11.22	PSO/ISB/712	Submission of Weekly Progress Reports	
43.	25.11.22	GM/PD/DHPP/S&D/Gen/14659-62	Submission of Detail Layout Map of DHPP as Required by Security Office	
44.	26.11.22	GM/PD/DHPP/Contracts/DHC/111/14706-14	Confidentiality of Correspondence Between Client and Consultant	
45.	29.11.22	GM/PD/Dasu HPP/Security/S-04/1490-93	Schedule of Outstation Movement of Expatriates for the Month of December , 2022	
46.	29.11.22	GM/PD/DHPP/S&D/14873-74	Constriction of Fencing at Available Siglo Batching Plant Area	
47.	30.11.22	GM/PD/DHPP/Security/S-04/1495-98	Outstation Movement of Expatriates	
48.	22.11.22	GM/PD/Dasu HPP/DD(T)/A-58/7184-88	Extension in Services of 19 Frontier Constabulary ( FC ) Contract Platoons for Fy 2022-23	
49.	23.11.22	GM/PD/DHPP/Env/G,10 388-91	Consistent Environmental Non Compliances at the project Sites	
50.	25.11.22	GM/PD/DHPP/Env,G10 395-98	Request for Submission of Tree Cutting Record	

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**Appendix E [2/20]**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
51.	24.11.22	GM/PD/DHPP/Env/E-22 392-94	Request to Conduct Awareness Session with the Contractors Employees for Protection of Flora and Fauna	
52.	25.11.22	GM/PD/DHPP/Env/G,10/399-401	Excessive Smoke from Generator Installed at CR-02	
<b>Dasu Office</b>				
53.	07.11.22	GM/PD/Dasu HPP/RAR-01/2022/14155-58	Application for Rehabilitation of Damaged Pedestrian of Government Middle School Kuz Komila -RAR-01	
54.	10.11.22	GM/PD/Dasu HPP/RAR-01/2022/14256-59	Application Mr. Fazal Wadood -RAR-01	
55.	14.11.22	GM/PD/DHPP/Contracts/RAR-01/27/14328-33	Request for Employers Approval on Replacement of Current Bank Guarantee with New Bank Guarantee for Original Scope of Works	
56.	18.11.22	CE(Contracts)Dasu HPP/ISB/E-12/13695-98	Coordination Meeting Between Dasu and Dimer Basha Dam Project Consultants	
57.	25.11.22	GM/PD/Dasu HPP/RAR-01/2022/14667-69	Completion of Komila bypass RAR-01	
58.	28.11.22	GM/PD/Dasu HPP/RAR-01/2022/14804-06	Application submitted by Mr.Room Shehzada s/o Abdul Rehman Haji	
<b>1.2. Dasu-RAR-02</b>				
<b>Dasu-Office</b>				
59.	30.11.22	GM/PD/Dasu HPP/RAR-02/2022/14892-94	Contractor Optimization Proposal of RAR-02	
<b>1.3. Dasu-KKH-01</b>				
<b>Dasu Office</b>				
60.	07.11.22	GM/PD/DHPP/Contracts/KKH-01/17/14162-67	Request for Employers Approval on Replacement of Current Bank Guarantee with New Bank Guarantee for Original Scope of Works KKH-01	
61.	07.11.22	GM/PD/Dasu HPP/DD(T)KKH-01/54/6944-48	Letter of Recommendation for Explosives Material Transportation License	
<b>1.4. Dasu-KKH-02</b>				
<b>Dasu Office</b>				
62.	10.11.22	GM/PD/DHPP/Contracts/KKH-02/51/14260-63	In-Principle Approval ot Implement the Revised Design -Alignment of KKH-02	
63.	10.11.22	GM/PD/CE(S&D)/DHPP/KKH-02/34/14264-68	Resettlement of Residents of KKH-02	
64.	10.11.22	GM/PD/CE(C )/DHPP/KKH-02/51/111/14275-80	Proposal on Preliminary Design , VO Preparation , and Detailed Design of Tunnels and Bridges for Realignment of KKH-02	
65.	22.11.22	GM/PD HPP/DD(T)/KKH-02/41/7175-79	Letter of Recommendation for Explosives Material Transportation License (EL-07) for Contract ICB No Dasu KKH-02	
66.	22.11.22	GM/PD HPP/KKH-02/33/ 14484-88	Implementation of Synchronized Traffic Closure Plan for KKH-02	
67.	24.11.22	GM/PD/DHPP/KKH-02/01/ 14577-83	Road Clearance of KKH on 25.11.22 During Travelling of Honorable Chief Minister GB	
68.	30.11.22	GM/PD/DHPP/Dir(C )/6B(CS)/7305-10	Proposal on Preliminary Design VO Preparation and Detailed Design of Tunnels and Bridge for Realignment of KKH-02	
<b>1.5. Dasu-TL-01</b>				
<b>Dasu Office</b>				
69.	16.11.22	GM/PD/DHPP/Contracts/TL-01/46/14368-74	Verification Authentication of Extended Advance Payment Security Bank Guarantee	
70.	18.11.22	GM/PD/Dasu HPP/TL-05/ 1444-45	Provision of Coordinates and GIS Imaginary of Towers Locations T109 & T-111A	
71.	25.11.22	GM/PD/Contracts/TL-01/45/ 14623-36	Interim Payment Certificate No.64	
72.	25.11.22	GM/PD/Dasu HPP/NTDC-17/14670-73	Minutes of Meeting 765KV NTDC	
73.	26.11.22	GM/PD/DHPP/Contracts/TL-01/46/14729-33	Extension of Performance Security	
74.	29.11.22	GM/PD/DHPP/S&D/14853-55	Construction of Boundary wall (Block Masonry) Around Grid Station	
75.	31.11.22	GM/PD/DHPP/Contracts/TL-01/43/14900-14903	Contractor's Interim Management Cost Claim for Social Insurance of Chinese Staff ( Jun 2016- Dec 2019	
76.	30.11.22	PD/DHPP/Contracts/TL-01/43/14904-07	Contractor's Cost Claim for Shifting -Re-Handling of Excavated Material Within the Grid Station ( Oct 2019- July 2020 )	
<b>1.6. Dasu-MW-01</b>				
<b>Dasu-Office</b>				
77.	10.11.22	GM/PD/DHPP/Contracts/MW-01/81C/14269-72	Generator Procurement for Provision of Power Supply to No.1 Crushing Plant and No.1 Batching Plant	
78.	10.11.22	GM/PD/DHPP/Contracts/81C/14240-42	Variation Order No .006- Provision of Power Supply to No 1 Crushing Plant and No.1 Batching Plant (	
79.	11.11.22	GM/PD/DHPP/Contracts/MW-01&02/191/14295-97	Request for Re-Establishing Equity in the Contracts.MW-01 & MW-02	
80.	14.11.22	GM/PD/DHPP/Contracts/MW-01/81C/14321-27	Timelines for Shifting of Generators from Neelum Jehlum Hydropower Project Company	
81.	14.11.22	GM/PD/DHPP/Contracts/MW-01/81C/14334-39	Reserve Price of 07 Nos Wartsila MANN Generator Sets	
82.	14.11.22	GM/PD/DHPP/Contracts/MW-01&02/83/93/14347-49	Notification of Possible Nationwide Shortage of Oil Supply	
83.	18.11.22	GM/PD/DHPP/Contracts/MW-01/87A/14448-52	Meeting Requested by Ms CGGC Regarding Procedure of Custom Clearance & Availing Available Tax Exemptions and Cost of Services of CRRK	
84.	24.11.22	GM/PD/DHPP/Contracts/MW-01/81D/14573-76	Power Supply Demand for Mian Works Contracts	
85.	25.11.22	GM/PD/DHPP/S&D/MW-01/ 81D/14630-32	Urgent Request for Restoration of Normal Traffic in Kayal Bridge of KKH	
86.	24.11.22	GM/PD/DHPP/Contracts/81-C/4595-96	VO-006-Variation for the Provision of Power Supply to No.1 Crushing Plant No.1 Batching Plant	
87.	25.11.22	GM/PD/DHPP/Contracts/DHC/4643-47	Natural Pozzolan Testing-Information Required from Dasu Hydropower Project	
88.	25.11.22	GM/PD/DHPP/Contracts/MW-01//81D/14678-84	Shifting of Generators from Neelum Jhelum Hydropower Project Company	
89.	26.11.22	GM/PD/DHPP/Contracts/MW-01//87/14715-21	Advance Payment Guarantee Extension	
<b>1.7. Dasu-MW-02</b>				
<b>Dasu-Office</b>				

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Sr. No	Receiving Date	Letter No.	Subject	Remarks
90.	07.11.22	GM/PD/Dasu HPP/S&D/MW-02/14190-92	MW-02 Slow Progress	
91.	25.11.22	GM/PD/Dasu HPP/S&D/MW-02/14674-77	Interim Payment Certificate #32	
92.	26.11.22	GM/PD/DHPP/Contracts/MW-02/97/14722-28	Advance Payment Guarantee Extension	
<b>1.8. Dasu-LBRV-11</b>				
<b>Dasu-Office</b>				
93.	14.11.22	PD/DHPP/Contracts/LBRV-11/71/14352-55	Extension of Workmen Compensation Insurance Policy	
<b>1.9. Dasu-LBRV-12</b>				
<b>Dasu-Office</b>				
94.	17.11.22	PD/DHPP/Contracts/LBRV-12/71/14393-98	Extension of workmen Insurance Policy	
<b>1.10. Dasu-RBRV-11</b>				
<b>Dasu-Office</b>				
95.	07.11.22	GM/PD/DHPP/Contract/RBRV-11/73/14143-51	Acknowledgement of Advance Payment Return	
96.	15.11.22	GM/PD/DHPP/Contract/RBRV-11/73/14428-30	Engineers Anticipation on Types Along with Quantification of Claims Ensuing the Termination of Contract	
97.	16.11.22	GM/PD/DHPP/Dir(C)/RBRV-11/68/7073-77	Return Release of Bank Guarantees RBRV-11	
<b>1.11. Dasu-PCI-01R</b>				
<b>Dasu office</b>				
98.	02.11.22	GM/PD/DHPP/Contracts/PCI-01R/33/14036-38	Khyber Pakhtunkhwa Provincial Sales Tax on Services	
99.	01.11.22	GM/PD/DHPP/Contracts/PCI-01R/32/13964-66	Supply, Installation, Testing and Commissioning of Diesel Generator Set for Project Office at Project Colony	
100.	01.11.22	GM/PD/DHPP/Contracts/PCI-01R/32/13967-69	Supply, Installation, Testing and Commissioning of Solar Power System for Project Office and CAT -1 & Cat -2	
101.	08.11.22	GM/PD/DHPP/Contracts/PCI-01R/01A/14227-30	Expiry of Extended Period for Completion of Works	
102.	18.11.22	GM/PD/DHPP/Contracts/PCI-01R/33/03A/14456-48	Reminder KPK Provincial Sales Tax on Services Adjustment for Changes in Legislation	
103.	18.11.22	GM/PD/DHPP/Contracts/PCI-01R/14648-52	Provision of Elevators I Lifts in Project Office and Installation of MS Grill at Ba-k Side of Residence Category-1 for Privacy	
<b>1.12. Dasu-EM-01</b>				
<b>Dasu-Office</b>				
104.	14.11.22	GM/PD/Dasu HPP/EM-01/ 14342-43	Approval of Temporary Storage Space at Ghazi Barotha Power Complex for E&M Equipment of DHPP	
105.	14.11.22	GM/PD/Dasu HPP/EM-01/ 14340-41	765 KV Terminal Tower Position at 765 KV Take off Switchyard	
106.	15.11.22	GM/PD/Dasu HPP/Contracts/ EM-01/101/14362-65	Addition of Suppliers to the Agreed Schedule T-4 Manufacturers and Sub-Contractors	
107.	15.11.22	GM/PD/Dasu HPP/EM-01/ 14360-61	Employers Inspection Certificate No.05 for Pipes and Accessories	
108.	24.11.22	GM/PD/Dasu HPP/EM-01/105 14554-57	Deduction of Taxes from Contractors Invoices	
<b>1.13. Dasu-RV</b>				
<b>Dasu-Office</b>				
109.	01.11.22	DHC/PD/DHPP/Contracts/Dasu-RV/GEN/74/13959-63	Extension of Performance Security - Guarantee RV	
110.	07.11.22	GM/PD/DHPP/Contracts/Dasu-RV/74/1459-61	Khyber Pakhtunkhwa Provincial Sales Tax on Services Adjustments for Changes in Legislation	
<b>1.14. Dasu-S&amp;R</b>				
<b>Dasu-Office</b>				
111.	01.11.22	GM/PD/DHPP/LA/S&R/W-128/925-27	Provision of Funds for Disbursement of Compensation for Non Broad Lead - Wild Fruit Plants In Respect of the Component Viz " Bailey Bridge Gummo Riaght Side Area -1	
112.	01.11.22	GM/PD-DHPP/LA/S&R/W-149/931-33	Application In Respect of ROR ( Dogah end Point to Gayal Nala ) Area -1	
113.	01.11.22	GM/PD-DHPP/LA/S&R/W-128/928-30	Bailey Bridge Gumoo Right Side Area -1	
114.	31.10.22	GM/PD/DHPP/S&R/2022/E-66/6419-20	Application Regarding Self - Managed Relocation (SMR )	
115.	01.11.22	GM/PD/DHPP/SS/S&R/E-28/6421-23	Employment of Local Drivers with Contractor M-S CGGC	
116.	02.11.22	GM/PD/DHPP/S&R/E-66/6424	Application for Mr Hafizullah S-o Fatir Rehman	
117.	02.11.22	GM/PD/DHPP/S&R/E-66/6425	Complaint form - Regarding Self -Managed Relocation (SMR)	
118.	03.11.22	GM/PD/DHPP/S&R/2022/E-29/6430-32	Application Regarding Temporary Relocation Package	
119.	04.11.22	GM/PD-DHPP/LA/S&R/W-171/953-55	Revenue Record in Respect of Component Lor 9Shatial Nullah to Reservoir End Point (Area-3)	
120.	04.11.22	GM/PD-DHPP/LA/S&R/W-171/950-52	Revenue Record in Respect of Component Lor Shatial Nullah to Reservoir End Point Area-4	
121.	04.11.22	GM/PD-DHPP/LA/S&R/W-170/962-69	Revenue Record in Respect of Component Lor Shatial Nullah to Reservoir End Point Area-1	
122.	04.11.22	GM/PD-DHPP/LA/S&R/W-171/944-46	Revenue Record in Respect of Component Lor Shatial Nullah to Reservoir End Point Area-2	
123.	04.11.22	GM/PD-DHPP/LA/S&R/W-171/947-49	Revenue Record in Respect of Component Lor Shatial Nullah to Reservoir End Point Area-5	
124.	04.11.22	GM/PD/DHPP/LA-S&R/W-171/959-61	Revenue Record in Respect of Component " LOR ( Shatial Nullah to Reservoir End Point ( Area -6 )	
125.	04.11.22	GM/PD/DHPP/LA-S&R/W-170/962-67	Revenue Record In Respect of Component " LOR ( Shatial Limits to Shatial Nullah ( Area -5	
126.	04.11.22	GM/PD/DHPP/LA-S&R/W-171/956-58	Revenue Record in Respect of Component "LOR ( Shatial Nullah to Reservoir end Point ( Area -1 )	
127.	04.11.22	GM/PD/DHPP/S&R/2022/E-66/6442	Self-Managed Relocation ( SMR )	
128.	08.11.22	GM/PD/DHPP/LA-S&R/W-100/971-73	Possession Handing -Taking Over Certificate	
129.	18.11.22	GM/PD-DHPP/LA/S&R/W-9/984-86	Tentative Cost Estimate for the Component RAR-01 Additional Land (ZAAL-3)	
130.	18.11.22	GM/PD-DHPP/LA/S&R/W-9/987-89	Provision of Funds for Disbursement of Compensation for Broad Leaf Wild Fruit Trees in Respect of the Component Viz RAR-01	
131.	22.11.22	GM/PD-DHPP/LA/S&R/W-170/1009-11	Gis Verification of Land Parcels of Component (Shatial Limits to Shatial Nullah )Area-3 Part-A	



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**Appendix E [4/20]**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
132.	22.11.22	GM/PD-DHPP/LA/S&R/W-170/1003-05	Gis Verification of Land Parcels of Component (Shatiyal Limits to Shatiyal Nullah )Area-2	
133.	22.11.22	GM/PD-DHPP/LA/S&R/W-170/1006-08	Gis Verification of Land Parcels of Component (Shatiyal Limits to Shatiyal Nullah )Area-3 Part-B	
134.	24.11.22	GM/PD-DHPP/E-70/ 6553-54	84 Additional AHs Affected due to Rationalization of KKH-01,KKH-02 and New Additional Area Field Verification and Preparation of Files	
135.	24.11.22	GM/PD-DHPP/S&R/W-128/1019-22	Assessment Report of Fruit Plants in Respect of Bailey Bridge Gumoo Right Side (Area-2)	
136.	24.11.22	GM/PD-DHPP/S&R/2021/E-66/6555	Application Regarding Self-Managed Relocation	
137.	28.11.22	GM/PD-DHPP/S&R/2021/W-35/1026-29	Rectified Revenue Papers in Respect of Component Crush Plant Area Seo(1026-29)	
138.	30.11.22	GM/PD-Dasu HPP (Field)/ S&R/E-27 /6570-073	Income and Livelihood Restoration Programme ( ILRP ) for the Displaced House Holds ( HHs ) and Persons of DHP Area	
139.	30.11.22	GM/PD/DHPP/S&R/2022/E-066/6575	Application Regarding Self-Managed Relocation (SMR )	
<b>1.15. Dasu-LADP</b>				
<b>Dasu Office</b>				
140.	02.11.22	GM/PD/Dasu HPP/Dir (Cont.)/CS/LADP/6882-89	Kick off Meeting -Local Area Development Program	
141.	03.11.22	GM/PD/DHPP/S&R/E-34/6434-36	Rehabilitation and Upgradation of Drinking Water Supply Facilities in Dasu , Jalkot and Teyal	
142.	17.11.22	GM/PD/DHPP/S&R/E-34/ 6507-09	Improvement of Sanitation and Sewerage System at Komila and Dasu	
143.	27.10.22	PD/DHPP/S&R/E-34/6404A	Rebidding for Provision of Supply and Installation of Computers and Furniture for Computer Labs at Seven Schools in Kohistan Upper	
144.	14.11.22	GM/PD/DHPP/S&R/ 6501	Minutes of Kick of Meeting with NESPAK LADP-ICs	
145.	18.11.22	PD/DHPP/S&R/E-34/6513-15	Rate Analysis of Tile Flooring	
146.	21.11.22	GM/PD/DHPP/Env/E-21/374-76	Review of the Environmental Monitoring Reports	
147.	22.11.22	GM/PD-DHPP/LA/S&R/W-149/1012-14	GIS Verification of Land Parcels of Component ROR Dogah end Point to Gayal Nala Area-1 Rectified	
148.	22.11.22	GM/PD-DHPP/S&R/E-34/ 6526-28	Taking Over of Construction of New RCC Bridge at Jalkot Nullah	
149.	22.11.22	GM/PD-DHPP/S&R/E-34/ 6524-25	Taking Over certificate Jalkot Bridge	
150.	22.11.22	GM/PD-DHPP/S&R/E-34/ 6529-31	Possession of the Site RHC	
151.	23.11.22	GM/PD/DHPP/Contracts/LADP-SSKD/129F/14514-20	Request for Verification of Effectiveness of Insurance Policies	
152.	24.11.22	GM/DHPP/Contracts/LADP/DWS/129E/14568-72	Comments of the World Bank on BID Evaluation Report	
153.	28.11.22	GM/PD/DHPP/Contracts/LADP-SSKD/129F/14734-40	Request for Verification of Effectiveness of Insurance Policies	
<b>2. From Contractors</b>				
<b>2.1. Dasu-RAR-01</b>				
<b>Dasu Office</b>				
154.	01.11.22	CCECC/PAK/DASUFIELD/RAR-01/HSE-22-053	OHS KPI , October 2022	
155.	01.11.22	CCECC/PAK/DASUFIELD/RAR-01/HSE-22-054	Monthly EHS Monitoring Report July 2022 to October 2022	
156.	03.11.22	CCECC/PAK/DASUFIELD/RAR-01/22-079	Additional Land for Logro B Tunnel Camp and Facilities ( 079 )	
157.	06.11.22	CCECC/PAK/DASUFIELD/RAR-01/22-080	Agree With Engineer's Determination on Contractor's Cost Claim for Market inflation for Extended Period of RAR-01 Under C1-C4	
158.	06.11.22	CCECC/PAK/DASUFIELD/RAR-01/22-WR-035	Submission of Weekly Progress Reports	
159.	07.11.22	CCECC/PAK/DASUFIELD/RAR-01/22-081	Claim on 7th Extension of Workmen's Compensation Insurance Policy of RAR-01	
160.	10.11.22	CCECC/PAK/DASUFIELD/RAR-01/22-082	Stoppage of Excavation Activities by Local People at Komila Bypass	
161.	12.11.22	CCECC/PAK/DASUFIELD/RAR-01/22-WR-036	Submission of Weekly Progress Reports (04th - 10th Nov 2022)	
162.	12.11.22	CCECC/PAK/DASUFIELD/RAR-01/HSE-22-055	Bullet Proof Vehicles for Foreigners	
163.	15.11.22	CCECC/PAK/DASUFIELD/RAR-01/HSE-22-056	List of Expatriate & National Staff Workers	
164.	16.11.22	CCECC/PAK/DASUFIELD/RAR-01/HSE-22-057	Monthly OHS Monitoring Report, August 2022 to October 2022	
165.	17.11.22	CCECC/PAK/DASUFIELD/RAR-01/HSE-22-058	RCA of Incident Near K1-700 ( Komila Bypass ) RAR-01(058)	
166.	18.11.22	CCECC/PAK/DASUFIELD/RAR-01/22-WR-037	Submission of Weekly Progress Reports (11th_17th Nov 2022)	
167.	20.11.22	CCECC/PAK/DASUFIELD/RAR-01/22-083	Stone Masonry Works at Komila Bypass Disturbed by local land Owners .RAR-01	
168.	29.11.22	CCECC/PAK/DASUFIELD/RAR-01/22-084	Work Stoppage at Komila Bypass	
169.	30.11.22	CCECC/PAK/DASUFIELD/RAR-01/22-085	Request for Payment of the Cost Claim of Insurance and Guarantee Extension Determined by the Engineer	
170.				
<b>2.2. Dasu-RAR-02</b>				
<b>Dasu-Office</b>				
171.	01.11.22	CGGC/RAR-02/HSED/DHC-429	Submission of the Monthly Environment Report in June 2022 for RAR-02	
172.	01.11.22	CGGC/RAR-02/PD/DHC-431	Submission of the Document of the Sack Gabion Manufacturer's Information for RAR-02	
173.	04.11.22	CGGC/RAR-02/HSED/DHC-432	Reply for Non- Conformance Report	
174.	04.11.22	CGGC/RAR-02/ED/DHC-433	Weekly Progress Report of RAR-02	
175.	04.11.22	CGGC/RAR-02/ED/DHC-434	Geological and Design Issues Along the RAR-02 Route	
176.	09.11.22	CGGC/RAR-02/ED/DHC-435	Weekly Progress Report of RAR-02	
177.	06.11.22	CGGC/RAR-02/ED/DHC-436	Blasting Plan in Next Week of RAR-02	
178.	08.11.22	CGGC/RAR-02/HRD/DHC-437	Submission of Staff Information List	

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**Appendix E [5/20]**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
179.	11.11.22	CGGC/RAR-02/PD/DHC-438	Letters on the Notification of Possible Nationwide Shortage of Oil Supply	
180.	12.11.22	CGGC/RAR-02/TD/DHC-439	Submission of Serious Topographic Change at the Location of K35+349 Kandia Bridge.RAR-02	
181.	14.11.22	CGGC/RAR-02/ED/DHC-440	Blasting Plan in Next Week of RAR-02	
182.	16.11.22	CGGC/RAR-02/PD/DHC-441	Letter of Inaccessibility of Equipment and Materials due to Road Problems	
183.	17.11.22	CGGC/RAR-02/HSED/DHC-442	Submission of the Construction Environmental Action Plan	
184.	17.11.22	CGGC/RAR-02/ED/DHC-443	Weekly Progress Report of RAR-02 (2022.11.07-2022.11.13)	
185.	20.11.22	CGGC/RAR-02/HSED/DHC-444	Occupational Health and Safety Report for October 2022	
186.	21.11.22	CGGC/RAR-02/ED/DHC-445	Equipment Damage Due to Geological Defects	
187.	20.11.22	CGGC/RAR-02/ED/DHC-446	Blasting Plan In Next Week Of RARA-02(2022.11.21-2022.11.27)	
188.	24.11.22	CGGC/RAR-02/TD/DHC-447	Notification of Large Amount of Loose Material at K32-650 RAR-02	
189.	23.11.22	CGGC/RAR-02/ED/DHC-448	Monthly Progress Report (RAR-02)	
190.	25.11.22	CGGC/RAR-02/ED/DHC-449	Weekly Progress Report of RAR-02 (2022.11.14.2022.11.20)	
191.	26.11.22	CGGC/RAR-02/TD/DHC-450	Restoration of Uchar Bridge.RAR-02	
192.	27.11.22	CGGC/RAR-02/ED/DHC-451	Blasting Plan of RAR-02	
193.	29.11.22	CGGC/RAR-02/ED/DHC-452	Kandia k32+860 Work Hindrance. RAR-02	
194.	29.11.22	CGGC/RAR-02/TD/DHC-453	Notification of Bedding Plan Landslides at K13+610.RAR-02	
195.	26.11.22	CGGC/RAR-02/WAPDA/PD-11	Letter Regarding the Assistant and Support on Customs Clearance	
196.	30.11.22	CGGC/RAR-02/ED/DHC-454	Regarding Usage of Dogah Bridge by the Contractor	
<b>2.3. Dasu-KKH-01</b>				
<b>Dasu Office</b>				
197.	01.11.22	CCECC/PAK/DASU-HPP/KKH-01/HSE-22-120	OSH KPI October 2022	
198.	02.11.22	CCECC/PAK/DASU-HPP/KKH-01/22-130	Submission of Interim Payment Application -IPA No.28	
199.	03.11.22	CCECC/PAK/DASU-HPP/KKH-01/22-131	Agree with Engineer's Determination on Contractor's Cost Claim for Market Inflation for Extended Period of RAR-01 Under C1 & C4	
200.	04.11.22	CCECC/PAK/DASU-HPP/KKH-01/22-132	Substantiation of On-Site Management Overhead Cost on Account of Claim No.C1-C4 During the Extended Time for Completion of 546 Days EOT #1	
201.	04.11.22	CCECC/PAK/DASU-HPP/KKH-01/HSE-22-121	Fortnightly Explosive Record 16-31 October 2022	
202.	05.11.22	CCECC/PAK/DASU-HPP/KKH-01/22-133	Submission of Organization Chart	
203.	07.11.22	CCECC/PAK/DASU-HPP/KKH-0&RAR-01/22-015	Source Approval of Steel Bar ( G-60 )	
204.	06.11.22	CCECC/PAK/DASU-HPP/KKH-01/22-134	Cancellation of Previous Wrong Letter Submitted on 3rd Nov.2022	
205.	07.11.22	CCECC/PAK/DASU-HPP/KKH-01/HSE-22-122	Monthly OHS Monitoring Report # 82 , October 2022	
206.	07.11.22	CCECC/PAK/DASU-HPP/KKH-01/HSE-22-123	Monthly EHS Monitoring Report # 82, October 2022	
207.	08.11.22	CCECC/PAK/DASU-HPP/KKH-01/22-135	Claim on Contractor's All Risk Insurance for Original Scope of Works of KKH-01 From 14th May 2022 to 21th July 2024	
208.	10.11.22	CCECC/PAK/DASU-HPP/KKH-01/HSE/22-124	Request to Arrange Training Session for Blasters at Dasu Hydropower Project and Grant of Training Certificate	
209.	09.11.22	CCECC/PAK/DASU-HPP/KKH-01/22-136	Third Party Testing of Jointly Sampled Material	
210.	09.11.22	CCECC/PAK/DASU-HPP/KKH-01/22-137	Petrographic Analysis of Coarse Aggregate	
211.	09.11.22	CCECC/PAK/DASU-HPP/KKH-01/22-138	Testing of Admixture	
212.	09.11.22	CCECC/PAK/DASU-HPP/KKH-01/22-139	Testing of Materials	
213.	11.11.22	CCECC/PAK/DASU-HPP/KKH-01/22-140	Reply to the Contractor Clarification Regarding I-Beam Girder Welding and Rockbolt Orientation at Crown.KKH-01	
214.	12.11.22	CCECC/PAK/DASU-HPP/KKH-01/HSE/22-125	Lists of Expatriate and National Staff Employees Workers	
215.	13.11.22	CCECC/PAK/DASU-HPP/KKH-01/22-141	Revised - Submission of Method Statement of Construction for Logro-A Tunnel (K9)	
216.	14.11.22	CCECC/PAK/DASU-HPP/KKH-01/22-142	Proposal of Uchar Camp Backfilling and Protection	
217.	14.11.22	CCECC/PAK/DASU-HPP /KKH-01/22-143	Reply to Nonconformance Site Observations by the Engineer at Dasu-02 (K4) and Logro-A Tunnel	
218.	16.11.22	CCECC/PAK/DASU-HPP /KKH-01/22-144	Revised Submission of Organization Chart	
219.	16.11.22	CCECC/PAK/DASU-HPP /KKH-01/22-145	Source Approval of Beijing Oriental Yuhong Waterproof Technology co.Ltd	
220.	18.11.22	CCECC/PAK/DASU-HPP/KKH-01/HSE/22-126	Fortnightly Explosive Record, 1-15 November 2022	
221.	18.11.22	CCECC/PAK/DASU-HPP/KKH-01/HSE/22-127	Deployment of Nightshift OHS Supervisors at K9 & K4 Tunnels	
222.	19.11.22	CCECC/PAK/DASU-HPP/KKH-01/HSE/22-128	High Risk of Rolling Stone at Uchar Nullah near CGGC Crushing Plant (	
223.	18.11.22	CCECC/PAK/DASU-HPP /KKH-01/22-146	Site observation at Dasu-02 (K4) Tunnel	
224.	21.11.22	CCECC/PAK/DASU-HPP/KKH-01/HSE/22-129	Revision of Construction Environmental Action Plan after Change in Design of KKH-01	
225.	21.11.22	CCECC/PAK/DASU-HPP/KKH-01/HSE/22-130	Arrangement of Awareness Sessions Regarding Communicable Diseases KKH-01	
226.	23.11.22	CCECC/PAK/DASU-HPP/KKH-01/HSE/22-131	Approval of Laboratory and 7th Quarterly Environmental Monitoring Plan KKH-01	
227.	26.11.22	CCECC/PAK/DASU-HPP/KKH-01/HSE/22-132	Submission of Nightshift Paramedic Documents	
228.	27.11.22	CCECC/PAK/DASU-HPP/KKH-01/HSE/22-133	Rectification of Unsafe Condition at K9 Tunnel Site	
229.	30.11.22	CCECC/PAK/DASU-HPP/KKH-01/22-1147	Request for Payment of the Cost Claim of Insurance and Guarantee Extension Determined by the Engineer	
230.	30.11.22	CCECC/PAK/DASU-HPP/KKH-01/22-1148	Resubmission of Drawings and Bills of Quantity with Cost Analysis of Uchar Camp Backfilling	
<b>2.4. Dasu-KKH-02</b>				

**Dasu Hydropower Project**  
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**Appendix E [6/20]**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
<b>Dasu Office</b>				
231.	01.11.22	CGGC/KKH-02/FD/DHC-284	Request for the Payment of 2# Interim Payment Certificate of ICB No.KKH-02 ( 284 )	
232.	07.11.22	CGGC/KKH-02/CD/DHC-286	Request for Approval of Revised Layout Plan & Quotation for the Army Barracks at Kaigah	
233.	07.11.22	CGGC/KKH-02/ED/DHC-287	Weekly Progress Report KKH-02	
234.	07.11.22	CGGC/KKH-02/ED/DHC-288	Blasting Plan in Next Week of KKH-02	
235.	08.11.22	CGGC/KKH-02/ED/DHC-289	Submission of Staff Information List	
236.	10.11.22	CGGC/KKH-02/HSED/DHC-290	Occupational Health and Safety Report for October 2022	
237.	10.11.22	CGGC/KKH-02/HSED/DHC-291	Details of Night- Shift Supervision	
238.	10.11.22	CGGC/KKH-02/ED/DHC-292	Monthly Progress Report (KKH-02)	
239.	11.11.22	CGGC/KKH-02/TD/DHC-293	The Reply to the Engineer's Comments on Drill Survey Plan of the KKH-02	
240.	12.11.22	CGGC/KKH-02/CD/DHC-294	Letters on the Notifications of Possible Nationwide Shortage of Oil Supply.KKH-02	
241.	15.11.22	CGGC/KKH-02/ED/DHC-295	Weekly Progress Report (2022.11.07-2022.11.13)	
242.	15.11.22	CGGC/KKH-02/ED/DHC-296	Blasting Plan in Next Week of KKH-02 296)	
243.	16.11.22	CGGC/KKH-02/ED/DHC-297	Report on the Delay in Land handover	
244.	17.11.22	CGGC/KKH-02/HSED/DHC-298	Monthly Environmental Report for October 2022	
245.	16.11.22	CGGC/KKH-02/PD/DHC-299	Letter of Inaccessibility of Equipment and Materials due to Road Problems	
246.	18.11.22	CGGC/KKH-02/PD/DHC-300	Letter Regarding the Assistant and Support on Customs Clearance	
247.	21.11.22	CGGC/KKH-02/CD/DHC-301	Submit the Policy of Insurance ( Contractor's All Risk ) for Dasu-KKH-02	
248.	22.11.22	CGGC/KKH-02/CD/DHC-302	Application for Temporally Rent the Houses for Army Personnel	
249.	22.11.22	CGGC/KKH-02/CD/DHC-303	Interim Claim KKH-02 for Additional Cost and EOT Resulting From the Occupation of Contractor's PK Staff Dormitories by Army Personnel	
250.	22.11.22	CGGC/KKH-02/ED/DHC-304	Request the Engineer Employer to Expedite Relocation the Residents at K28+66	
251.	22.11.22	CGGC/KKH-02/ED/DHC-305	Weekly Progress Report (2022.11.14.2022.11.20)	
252.	22.11.22	CGGC/KKH-02/ED/DHC-306	Blasting Plan in Next Week of KKH-02(2022.11.21.2022.11.27)	
253.	22.11.22	CGGC/KKH-02/HSED/DHC-307	New Camp Working Site	
254.	24.11.22	CGGC/KKH-02/HSED/DHC-308	Road Closure Schedule for KKH-02	
255.	26.11.22	CGGC/KKH-02/TD/DHC-309	Restoration of Uchar Bridge	
256.	27.11.22	CGGC/KKH-02/HSED/DHC-310	Letter on Policeman Beat Pakistani Workers and Obstructed Site Work	
257.	29.11.22	CGGC/KKH-02/ED/DHC-311	Weekly Progress Report (2022.11.21.2022.11.27	
258.	29.11.22	CGGC/KKH-02/ED/DHC-312	Blasting Plan in Next Week of KKH-02(2022.11.28.2022.12.04	
259.	29.11.22	CGGC/KKH-02/TD/DHC-313	Submission of Geological Investigation Technical Requirement for Designing Tunnel	
260.	29.11.22	CGGC/KKH-02/HSED/DHC-314	Resume of Doctor for Provision of Medical Services	
261.	30.11.22	CGGC/KKH-02/CD/DHC-315	Submission of Proposal and Quotation for KKH-02 Varied Bridges Geotechnical Investigation	
262.	30.11.22	CGGC/KKH-02/CD/DHC-316	Claims for Additional Costs and EOT Resulting from Delay in Lands Handover	
<b>2.5. Dasu-TL-01</b>				
<b>Dasu Office</b>				
263.	01.11.22	PC/Dasusite/TL-01/2022-206	Submission of Weekly Progress Report	
264.	01.11.22	PC/Dasusite/TL-01/2022-207	Submission of List of Vehicles for the Month of October , 2022	
265.	01.11.22	PC/Dasusite/TL-01/2022-208	Data List of In-Migrants – Pak Workforce & Daily Wagers Data for the Month of October , 2022 TI-01	
266.	02.11.22	PC/Dasusite/TL-01/JS/22-008	Submission of Invoices and Requisite Documentations for Claiming Reimbursement Payment of Installation of Line Material	
267.	04.11.22	PC/Dasusite/TL-01/2022-209	Submission of Monthly Progress Report for October 2022	
268.	04.11.22	PC/Dasusite/TL-01/2022-210	Submission of Extended Advance Payment Guarantee	
269.	08.11.22	PC/Dasusite/TL-01/2022-211	Submission of Curriculum Vitae and Documents of OHS Professional	
270.	09.11.22	PC/Dasusite/TL-01/2022-212	Submission of Internal OHS Compliance Audit Report # 02 TL-01	
271.	09.11.22	PC/Dasusite/TL-01/2022-213	Submission of 72th Health , Safety & Environment (HSE ) Report for the Month of November 2022	
272.	15.11.22	PC/Dasusite/TL-01/2022-214	Submission of Weekly Progress Report	
273.	15.11.22	PC/Dasusite/TL-01/2022-215	Submission of Weekly Progress Report	
274.	18.11.22	PC/Dasusite/TL-01/2022-216	Submission of Clarification Revised Design Calculation of Gantries and Earth mast Foundation drawing	
275.	21.11.22	PC/Dasusite/TL-01/2022-217	Submission of Weekly Progress Report	
276.	26.11.22	PC/Dasusite/TL-01/2022-218	Submission of Evidence of Warning Letter to Management about not Provision of Safe Construction Activities TL-01	
277.	26.11.22	PC/Dasusite/TL-01/2022-219	Submission of Curriculum Vitae and Documents of OHS Professional TL-01	
278.	28.11.22	PC/Dasusite/TL-01/2022-220	Submission of Weekly Progress Report (220)	
<b>2.6. Dasu-MW-01</b>				
<b>Dasu-Office</b>				
279.	01.11.22	CGGC/MW-01/HSED/DHC-2584	Submission of the Monthly Environment Report in September 2022 for MW-01	
280.	02.11.22	CGGC/MW-01/HSED/DHC-2585	Submission the Biannual Internal OHS Compliance Audit Report	
281.	01.11.22	CGGC/MW-01/TD/DHC-2587	Proposal of Starter Dam Cut – off Wall Adopted Conventional Concrete	
282.	02.11.22	CGGC/MW-01/FD/DHC-2589	Reminder of the Upcoming Expiration of Advance Payment Guarantee	
283.	01.11.22	CGGC/MW-01/TD/DHC-2588	Submission of the Drawing and Calculation of Retaining Wall at the Diversion Tunnel Outlet	
284.	03.11.22	CGGC/MW-01/EMD/DHC-2590	Requesting the Engineer to Designate a Dedicated HSS Engineer	
285.	03.11.22	CGGC/MW-01/GD/DHC-2591	-Request for Inspection and Maintenance to the Car D.7378	
286.	03.11.22	CGGC/MW-01/ED/DHC-2592	Weekly Progress Report of MW-01	
287.	04.11.22	CGGC/MW-01/HSED/DHC-2593	The Hazards of CCECC Rocks Falling	
288.	05.11.22	CGGC/MW-01/ED/DHC-2594	Letter Regarding Public Road Maintenance in RB Cable Carne Platform	



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**Appendix E [7/20]**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
289.	05.11.22	CGGC/MW-01/ED/DHC-2595	Letter Regarding House Demolished Below Transportation Road of RB Cable Crane Platform	
290.	06.11.22	CGGC/MW-01/CD/WAPDA/76	Request for Re-establishing Equity in the Contract	
291.	05.11.22	CGGC/MW-01/CD/DHC-2596	Commercial Proposal of Power Supply System for Uchar 1 # Batching Plant and 1 # Crushing Plant	
292.	06.11.22	CGGC/MW-01/TD/DHC-2597	Submission of the Convergence Measurements Data of MW-01 in October 2022	
293.	06.11.22	CGGC/MW-01/TD/DHC-2598	Submission of the Revised Contract Programme R4 –D13 of MW-01	
294.	06.11.22	CGGC/MW-01/ED/DHC-2599	Blasting Plan in Next Week of MW-01	
295.	08.11.22	CGGC/MW-01/TD/DHC-2600	Proposal of Starter Dam Cut –Off Wall Adopted Conventional Concrete	
296.	09.11.22	CGGC/MW-01/TD/DHC-2601	Submission of Design Documents of Cable Crane ( Revision 7 )	
297.	07.11.22	CGGC/MW-01/TD/DHC-2602	The Notification Letter on the Uplift of the Indus River Bed	
298.	08.11.22	CGGC/MW-01/TD/DHC-2603	Submission of Staff Information List	
299.	09.11.22	CGGC/MW-01/PD/DHC-2604	Submission of the Document of the Steel Wire Manufacturer's Information for MW-01	
300.	09.11.22	CGGC/MW-01/TD/DHC-2605	Submission of Argument Report of Accelerate Construction River Diversion System	
301.	11.11.22	CGGC/MW-01/ED/DHC-2606	Proposal of Relocation of SEO School and Hospital.MW-01	
302.	11.11.22	CGGC/MW-01/PD/DHC-2607	Letters on the Notification of Possible Nationwide Shortage of Oil Supply	
303.	10.11.22	CGGC/MW-01/TD/DHC-2608	Submission of the Production Trial Scheme of Dry Shotcrete	
304.	11.11.22	CGGC/MW-01/TD/DHC-2609	Submission of the Structural Calculation and Concrete Outline of Diversion Tunnel Inlet Hoist Frame.MW-01	
305.	11.11.22	CGGC/MW-01/TD/DHC-2610	Submission of the A3-2 Construction Adit Excavation and Supporting Method Statement.MW-01	
306.	11.11.22	CGGC/MW-01/TD/DHC-2611	Submission of the HSS Processing Plant General Layout R3 (HSS).MW-01	
307.	11.11.22	CGGC/MW-01/ED/DHC-2612	Request for Issue the Day Work of Transfer the Graves from Kass Camp.MW-01	
308.	09.11.22	CGGC/MW-01/ED/DHC-2613	Weekly Progress Report of MW-01	
309.	11.11.22	CGGC/MW-01/TD/DHC-2614	Submission the Test Report of Rocks and Aggregates for AAR Test in Third Party.MW-01	
310.	11.11.22	CGGC/MW-01/TD/DHC-2615	Submission the Third Party Test Results of Material in September.MW-01	
311.	11.11.22	CGGC/MW-01/TD/DHC-2616	Submission the Profile and Certificate of the Third Party Company.MW-01	
312.	10.11.22	CGGC/MW-01/HSED/DHC-2617	Occupational Health and Safety Report for October 2022.MW-01	
313.	10.11.22	CGGC/MW-01/HSED/DHC-2618	SOPs for Foreign working on Non-CPEC Projects.MW-01	
314.	13.11.22	CGGC/MW-01/HSED/DHC-2619	Initial Incident Report	
315.	12.11.22	CGGC/MW-01/TD/DHC-2620	CGGC's Comments of Engineer's letter of Response to Traffic Situation of KKH Road Impacts on CGGC's Construction	
316.	12.11.22	CGGC/MW-01/TD/DHC-2621	Submission of the Installation Manual Modify Description for Guide Frames of Diversion tunnel Gate (HHS)	
317.	14.11.22	CGGC/MW-01/ED/DHC-2622	Blasting Plan in Next Week of MW-01	
318.	17.11.22	CGGC/MW-01/HRD/DHC-2623	Delegation of Power as MW-01 Manager	
319.	15.11.22	CGGC/MW-01/ED/DHC-2624	Report on CGGCs Facilities Damaged by the Other Contractors Construction Activities	
320.	16.11.22	CGGC/MW-01/PD/DHC-2625	Letter of Inaccessibility of Equipment and Materials due to Road Problems	
321.	17.11.22	CGGC/MW-01/HSED/DHC-2626	Reply for Non-Conformance Report	
322.	18.11.22	CGGC/MW-01/TD/DHC-2627	Submission of the Diversion Tunnel Gate and Guide Frames Calculation D4(HSS)	
323.	16.11.22	CGGC/MW-01/ED/DHC-2628	Weekly Progress Report of MW-01 (2022.11.07-2022.11.13)	
324.	18.11.22	CGGC/MW-01/ED/DHC-2629	Reply to the Engineer Instruction-Fence Construction Around the Disputed Areas of Kass Camp MW-01	
325.	18.11.22	CGGC/MW-01/TD/DHC-2630	Submission of the Drawing and Calculation of Diversion Water Dyke MW-01	
326.	20.11.22	CGGC/MW-01/ED/DHC-2631	Report on CGGC's Disposal Area Occupied By The Other Contractor	
327.	20.11.22	CGGC/MW-01/HSED/DHC-2632	Kass Camp Security Configuration	
328.	20.11.22	CGGC/MW-01/HSED/DHC-2633	Incident Investigation Report for DTB-Inlet	
329.	20.11.22	CGGC/MW-01/HSED/DHC-2634	Reply for Engineer's Instruction	
330.	20.11.22	CGGC/MW-01/ED/DHC-2635	Blasting Plan In Next Week of MW-01(2022.11.21-2022.11.27)	
331.	21.11.22	CGGC/MW-01/TD/DHC-2636	Submission of the Trial Mix Program of Conventional Concrete for Cut off Wall	
332.	22.11.22	CGGC/MW-01/TD/DHC-2637	Submission of Fauji LAC,SBT WRA Concrete with Pozzolan Mix Design (160~200mm)	
333.	22.11.22	CGGC/MW-01/CD/DHC-2638	Submission of the Statement Application for IPC 33 of MW-01	
334.	23.11.22	CGGC/MW-01/TD/DHC-2639	Submission of Method Statement of the Pouring of the Diversion Tunnel Embedded Sill Second Stage Concrete MW-0	
335.	23.11.22	CGGC/MW-01/ED/DHC-2640	Monthly Progress Report (MW-01)	
336.	23.11.22	CGGC/MW-01/FD/WAPDA-77	Determine the Latest Advance Payment Guarantee Extension Time MW-01	
337.	24.11.22	CGGC/MW-01/CD/DHC-2641	The Cost Proposal of Upstream Starter Dam MW-01	
338.	26.11.22	CGGC/MW-01/FD/DHC-2642	Request for the Payment of Interim Payment Certificate No 32 MW-01	
339.	25.11.22	CGGC/MW-01/TD/DHC-2643	Request the Engineers Confirmation on RCC Special Test from CMTL MW-01	
340.	25.11.22	CGGC/MW-01/TD/DHC-2644	Applying for the Approval of SGS Laboratory as Third-Party Laboratory for Testing MW-01	
341.	25.11.22	CGGC/MW-01/ED/DHC-2645	Weekly Progress Report of MW-01(2022.11.14-2022.11.20)	
342.	27.11.22	CGGC/MW-01/TD/DHC-2646	Restoration of Uchar Bridge	
343.	27.11.22	CGGC/MW-01/ED/DHC-2647	Request Confirm the Location of LBTT Outlet Portal (2647)	
344.	27.11.22	CGGC/MW-01/ED/DHC-2648	Blasting Plan in Next Week of MW-01(2022.11.28,2022.12.04)	
345.	27.11.22	CGGC/MW-01/HSED/DHC-2649	Submission of the Monthly Environment Report in October 2022 for MW-01	
346.	27.11.22	CGGC/MW-01/HSED/DHC-2650	Submission of the Monthly Environment Report in September 2022 for MW-01	

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**Appendix E [8/20]**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
347.	28.11.22	CGGC/MW-01/TD/DHC-2651	Submission of Fauji LAC, SBT &SIKA WRA Concrete with 25% Pozzolan Mix Design (30-50mm)	
348.	28.11.22	CGGC/MW-01/TD/DHC-2652	Construction Arrangement of Cable Crane Platform and Dam Abutment on the left Bank	
349.	28.11.22	CGGC/MW-01/TD/DHC-2653	Submission of Fauji LAC, SBT WRA A40 Concrete Mix Design (30-50mm)	
350.	29.11.22	CGGC/MW-01/TD/DHC-2654	Submission of Natural Pozzolan (GEN) Source Petrography Test Report and Requested to Approval Materials for MW-01 Works	
351.	29.11.22	CGGC/MW-01/ED/DHC-2655	Report on the Outside Personnel and Vehicle Enter Uchar Crushing Plant	
352.	26.11.22	CGGC/MW-01/FD/WAPDA-78	Letter Regarding the Assistant and Support on Customs Clearance	
353.	29.11.22	CGGC/MW-01/FD/WAPDA-80	Replacing the Withheld Retention for the Completed Works by Guarantee	
354.	30.11.22	CGGC/MW-01/ED/DHC-2656	Reply of the Public Road Maintenance In RB Cable Crane Platform MW-01	
355.	29.11.22	CGGC/MW-01/TD/DHC-2657	Reply Rock and Aggregate Petrographic Analysis and Alkali- Silica Reactivity Test Results	
356.	29.11.22	CGGC/MW-01/TD/DHC-2658	Submission of the Method Statement of Starter Dam Cut-off Wall ( D3 )	
357.	30.11.22	CGGC/MW-01/TD/DHC-2659	Submission of the Construction Drawings of Division Tunnel Hoists D1 ( HSS )	
358.	30.11.22	CGGC/MW-01/TD/DHC-2660	Submit the Test Report of Rocks for Petrographic Analysis Test in Third Party in October	
359.	30.11.22	CGGC/MW-01/CD/DHC-2661	Provision of Power Supply to No.1 Crushing Plant and No.1 Batching Plant	
<b>2.7. Dasu-MW-02</b>				
<b>Dasu-Office</b>				
360.	01.11.22	CGGC/MW-02/HSED/DHC-1904	Submission of the Monthly Environment Report in September 2022 for MW-02	
361.	02.11.22	CGGC/MW-02/HSED/DHC-1905	Submission the Biannual Internal OHS Compliance Audit Report	
362.	02.11.22	CGGC/MW-02/FD/DHC-1907	Reminder of the Upcoming Expiration of Advance Payment Guarantee	
363.	03.11.22	CGGC/MW-02/ED/DHC-1908	Weekly Progress Report of MW-02	
364.	04.11.22	CGGC/MW-02/TD/DHC-1909	Submission of the Protection Construction Method Statement of power Intake El.873m Platform ( D2 )	
365.	06.11.22	CGGC/MW-02/CD/WAPDA-40	Request for Re-establishing Equity in the Contract	
366.	05.11.22	CGGC/MW-02/TD/DHC-1910	Reply to Engineer's Request Gantry Crane for Transformer Cavern	
367.	06.11.22	CGGC/MW-02/TD/DHC-1911	Submission of the Convergence Measurements Data of MW-02 In October 2022	
368.	06.11.22	CGGC/MW-02/TD/DHC-1912	Reply to Power Intake Required Protection Towards LBTT and Existing KKH	
369.	06.11.22	CGGC/MW-02/ED/DHC-1913	Blasting Plan of MW-02	
370.	08.11.22	CGGC/MW-02/ED/DHC-1914	Submission of Staff Information List	
371.	09.11.22	CGGC/MW-02/PD/DHC-1915	Submission of the Document of the Steel Wire Manufacturer's Information for MW-02 (	
372.	10.11.22	CGGC/MW-02/TD/DHC-1916	Again Request to address the Issues Regarding Measurement and Payment of Relocation of KKH in Tailrace Area	
373.	10.11.22	CGGC/MW-02/TD/DHC-1917	Request to Provide Completely Right of Access to the Site for Tailrace Outlet Area	
374.	11.11.22	CGGC/MW-02/PD/DHC-1918	Letters on the Notification of Possible Nationwide Shortage of Oil Supply	
375.	10.11.22	CGGC/MW-02/TD/DHC-1919	Submission of the Method Statement of Excavation and Support of Lower Pressure Tunnel and Lower Bend tunnel ( D1 )	
376.	10.11.22	CGGC/MW-02/TD/DHC-1920	Submission of the Production Trial Scheme of Dry Shotcrete	
377.	12.11.22	CGGC/MW-02/TD/DHC-1921	Submission the Test Report of Rocks and Aggregates for AAR Test in Third Party	
378.	11.11.22	CGGC/MW-02/TD/DHC-1922	Submission of the Roof Bolt & Ground Anchor Lifting and Installation System Layout Scheme for Surge Chambers Vault Gallery RO (HSS).MW-01	
379.	09.11.22	CGGC/MW-02/ED/DHC-1923	Weekly Progress Report of MW-02	
380.	11.11.22	CGGC/MW-02/TD/DHC-1924	Submission The Profile and Certificates of the Third Party Company.MW-02	
381.	11.11.22	CGGC/MW-02/TD/DHC-1925	Submission the Third Party Test Results of Material in September.MW-02	
382.	10.11.22	CGGC/MW-02/HSED/DHC-1926	Occupational Health and Safety Report for October 2022.MW-02	
383.	10.11.22	CGGC/MW-02/HSED/DHC-1927	Reply for Water Pumping Issues.MW-02	
384.	10.11.22	CGGC/MW-02/HSED/DHC-1928	Reply for Non-Conformance Report.MW-02	
385.	10.11.22	CGGC/MW-02/HSED/DHC-1929	The Hazard of CGICOP Remove the Protection.MW-02	
386.	13.11.22	CGGC/MW-02/HSED/DHC-1930	Submission of the Fourth Test Data and Analysis Results of powerhouse PS Tendon	
387.	15.11.22	CGGC/MW-02/TD/DHC-1931	Submission of the PS Tendon Anchorage Length Calculation and Design Drawing for Trial Test in Transformer Cavern above	
388.	14.11.22	CGGC/MW-02/ED/DHC-1932	Blasting Plan in Next Week of MW-02	
389.	16.11.22	CGGC/MW-02/PD/DHC-1933	Letter of Inaccessibility of Equipment and Materials due to Road Problems	
390.	17.11.22	CGGC/MW-02/HSED/DHC-1934	Submission of the Powerhouse Exhaust Tunnel Blasting Operation Regulation	
391.	17.11.22	CGGC/MW-02/TD/DHC-1935	Submission of the Design Drawing of the PS Tendon in the Powerhouse above EL.760	
392.	16.11.22	CGGC/MW-02/HSED/DHC-1936	Weekly Progress Report of MW-02 (2022.11.07-2022.11.13)	
393.	20.11.22	CGGC/MW-02/ED/DHC-1937	Blasting Plan of MW-02	
394.	22.11.22	CGGC/MW-02/TD/DHC-1938	Submission of the Stability Calculation of Tailrace Tunnel Outlet Dyke	
395.	22.11.22	CGGC/MW-02/TD/DHC-1939	Submission of Fauji LAC,SBT WRA Concrete with Pozzolan Mix Design (160-200mm)	
396.	22.11.22	CGGC/MW-02/CD/DHC-1940	Submission of the Statement Application for IPC 33 of MW-02 (	
397.	22.11.22	CGGC/MW-02/TD/DHC-1941	Submission of the Claim Analysis Report of Underground Powerhouse	
398.	23.11.22	CGGC/MW-02/FD/WAPDA-44	Determine the Latest Advance Payment Guarantee Extension Time MW-02	

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**Appendix E [9/20]**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
399.	23.11.22	CGGC/MW-02/ED/DHC-1942	Monthly Progress Report (MW-02)	
400.	24.11.22	CGGC/MW-02/TD/DHC-1943	Submission of the Manufacturing Plan for Penstock R0 (HSS) MW-02	
401.	24.11.22	CGGC/MW-02/FD/DHC-1944	Request for the Payment of Interim Payment Certificate No 32 MW-02	
402.	26.11.22	CGGC/MW-02/TD/DHC-1945	Proposal of Diversion Public Traffic Road KKH at Tailrace Tunnel Outlet MW-02	
403.	25.11.22	CGGC/MW-02/TD/DHC-1946	Applying for the Approval of SGS Laboratory as Third-Party Laboratory for Testing MW-02	
404.	25.11.22	CGGC/MW-02/ED/DHC-1947	Weekly Progress Report of MW-02 (2022.11.14-2022.11.20)	
405.	26.11.22	CGGC/MW-02/FD/WAPDA-42	Letter Regarding the Assistant and Support on Customs Clearance	
406.	27.11.22	CGGC/MW-02/ED/DHC-1948	Blasting Plan of MW-02	
407.	27.11.22	CGGC/MW-02/HSED/DHC-1949	Submission of the Monthly Environment Report in September 2022 for MW-02	
408.	27.11.22	CGGC/MW-02/HSED/DHC-1950	Submission of the Monthly Environment Report in October 2022 for MW-02	
409.	29.11.22	CGGC/MW-02/TD/DHC-1951	Submission of Fauji LAC, SBT &SIKA WRA Concrete with 25% Pozzolan Mix Design (30-50mm)	
410.	27.11.22	CGGC/MW-02/TD/DHC-1952	Restoration of Uchar Bridge	
411.	28.11.22	CGGC/MW-02/HSED/DHC-1953	Fighting on November 28,2022	
412.	29.11.22	CGGC/MW-02/FD/WAPDA-43	Replacing the Withheld Retention for the Completed Works by Guarantee	
413.	29.11.22	CGGC/MW-02/TD/DHC-1954	Submission of Natural Pozzolan (GNP ) Source Petrography Test Report and Requested to Approval Materials for MW-02 Works	
414.	29.11.22	CGGC/MW-02/TD/DHC-1955	Submission of Fauji LAC , SBT WRA A40 Concrete Mix Design ( 30-50mm )	
415.	30.11.22	CGGC/MW-02/TD/DHC-1956	Submit the Test Report of Rocks for Petrographic Analysis test in Third Party in October	
<b>2.8. Dasu-LBRV-11</b>				
<b>Dasu-Office</b>				
416.	02.11.22	ZEG/DHC/LBRV-11/22-106	Submission of Twentieth Interim Idle Cost Claim due to Disruption - Works Stoppage by Local Community at Khoshee Site -2 Link -2	
417.	04.11.22	ZEG/DHC/LBRV-11/22-107	Extension of Workmen Insurance Policy	
418.	05.11.22	ZEG/DHC/LBRV-11/22-108	Handing Over Procedure of Completed Site	
419.	07.11.22	ZEG/DHC/LBRV-11/MR/22-09	Monthly Progress Report of LBRV-11 September 2022	
420.	19.11.22	ZEG/DHC/LBRV-11/22-109	Submission of Extended Performance Security LBRV-11	
<b>2.9. Dasu-LBRV-12</b>				
<b>Dasu-Office</b>				
421.	04.11.22	ZEG/DHC/LBRV-12/22-31	Extension of Workmen Insurance Policy	
422.	05.11.22	ZEG/DHC/LBRV-12/22-32	Extension of Performance Security	
423.	06.11.22	ZEG/DHC/LBRV-12/MR/22-08	Monthly Progress Report of LBRV-12 August 2022	
424.	07.11.22	ZEG/DHC/LBRV-12/MR/22-09	Monthly Progress Report of LBRV-12 September 2022	
425.	19.11.22	ZEG/DHC/LBRV-12/22-33	Submission of Extended Performance Security LBRV-12	
<b>2.11. PCI-01R</b>				
<b>Dasu- Office</b>				
426.	02.11.22	CGICOP-Dasu-PCI-01R-PO-1571	Request for Payment IPC No.35 of Contract No. PCI -01R	
427.	02.11.22	CGICOP-Dasu-PCI-01R-PO-1572	Submission of Licenses and ID Cards of Drivers	
428.	03.11.22	CGICOP-Dasu-PCI-01R-PO-1573	Request for Approval of Shop Drawings of the Strip Footing for the Residence Boundary Wall Category -2	
429.	04.11.22	CGICOP-Dasu-PCI-01R-PO-1574	Request for Cables Manufacturer Approval of M-S " Newage Cables " For the Wapda Project Colony	
430.	04.11.22	CGICOP-Dasu-PCI-01R-PO-1575	Request for Extension of Time ( EOT ) 02 Rev -0 ( Clause 20.1,8,4 )	
431.	06.11.22	CGICOP-Dasu-PCI-01R-PO-1576	Submission of Interim Payment Application 36 ( 06 Copies )	
432.	07.11.22	CGICOP-Dasu-PCI-01R-PO-1579	Notice for Delay in Provision of Color Shade Codes for all the Ms Works and Boundary Wall of all Remaining Buildings	
433.	06.11.22	CGICOP-DASU-PCI-01R-PO-1577	Monthly Progress Report for the Month of October 2022	
434.	07.11.22	CGICOP-DASU-PCI-01R-PO-1578	Request for Payment IPC No.35 ( Revised ) of Contract No.PCI-01R	
435.	08.11.22	CGICOP-DASU-PCI-01R-PO-1580	-Information of Chinese Foreigner Schedule to Move to Islamabad from Dasu -Request for Provision of Required Security Arrangements	
436.	08.11.22	CGICOP-DASU-PCI-01R-PO-1582	Submission of Environment Health and Safety Monthly Report Oct 2022	
437.	11.11.22	CGICOP-DASU-PCI-01R-PO-1583	Approval of Sub-Base Material	
438.	14.11.22	CGICOP-DASU-PCI-01R-PO-1584	Notice for Work Stoppage at Site Indus River by CGGC Contractor	
439.	16.11.22	CGICOP-DASU-PCI-01R-PO-1585	Provision of Dumping Area for Excavated Materials of Slope Protections Internal Roads and Remaining Buildings	
440.	16.11.22	CGICOP-DASU-PCI-01R-PO-1586	Request for Switches Supplier Approval of Ms TJ Switches Manufacturer & Supplier for the WAPDA Project Colony	
441.	17.11.22	CGICOP-DASU-PCI-01R-PO-1588	Clarifications for Varied Works of Slope Protection at Choochang-1 Resettlement Village a Site	
442.	20.11.22	CGICOP-DASU-PCI-01R-PO-1589	Delay in Provision of Dumping Area for Remaining Excavated Materials PCI-01R	
443.	21.11.22	CGICOP-DASU-PCI-01R-PO-1590	Submission of Variation Order 35 for Varied Works of modification of Wardrobes Drawers	
444.	21.11.22	CGICOP-DASU-PCI-01R-PO-1592	Submission of Sample of Geo Composite Water Proofing Material Over the Dome and Terrace Areas	
445.	22.11.22	CGICOP-DASU-PCI-01R-PO-1593	Notice of Force Majeure Under GCC Clause 19.2 Due to Non Availability of Diesel in the Market	
446.	22.11.22	CGICOP-DASU-PCI-01R-PO-1594	Documents Mr.Fazal Mabood PCI-01R	
447.	25.11.22	CGICOP-DASU-PCI-01R-PO-1595	Request for Cables Supplier Approval of Ms Allied Cables Manufacturer & Supplier for the WADPA Project Colony	
448.	24.11.22	CGICOP-DASU-PCI-01R-PO-1597	Submission of Manufacture DB Drawing for Security Guard Rooms A&B	
<b>32.12 Dasu RV</b>				
<b>Dasu Office</b>				
449.	01.11.22	KGL/Dasu-RV/22-179	Progress Review Meeting	



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**Appendix E [10/20]**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
450.	12.11.22	KGL/Dasu-RV/22-180	Rain at Site.RV	
451.	16.11.22	KGL/Dasu-RV/22-181	Rain at Site	
452.	21.11.22	KGL/Dasu-RV/22-182	Rain at Site	
453.	25.11.22	KGL/Dasu-RV/22-183	Extension of Contractor's Insurance Policies	
454.	25.11.22	KGL/Dasu-RV/22-184	Changes in Contract Price Clause 37 RV	
455.	26.11.22	KGL/Dasu-RV/22-185	Stoppage of Work due to no Access Road at Kuz Choochang Upper RV	
<b>2.13 Dasu EM-01</b>				
<b>Dasu Office</b>				
456.	01.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0412	Reminder on Delayed Approval for Contractor's Commercial Letters	
457.	01.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0413	Delayed Approval for List of Contractor's Technical Drawings	
458.	01.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0414	Submission of Contractor's DB Member for Approval - Contractor No.5 Separate Reminder	
459.	02.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0418	Confirmation of the Vehicles and the Delivery Date of 6 Pick -Up via Toyota PBO Issued	
460.	02.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0424	Reply Letter sn 22-357 and Re- Submission the Control Room Operator Console Layout	
461.	02.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0421	Submission the Turbine Auxiliary Panel Drawing and Shat Seal Water Filter Layout	
462.	04.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0427	Revised Mechanical Drawings of Main Inlet Valve for Approval	
463.	03.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0410	Further Clarification on Labor Index in Price Adjustment	
464.	02.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0419	Confirmation Request for Manufacturing and Delivery Schedule Adjustment and Way forward due to the Change of Coordination Events - Separate Reminder No.1	
465.	03.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0420	Notice of Claim due to Change of Coordination Events	
466.	02.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0422	Clarification of Applicable Contract Provision for Changing Coordination Events (	
467.	03.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0423	Generation of Financial Instrument (FI) Number by Employer's Bank - Separate Reminder No.1	
468.	03.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0425	Quality Document of Pipes and Accessories for Approval	
469.	03.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0426	Permission to Deliver of Pipes and Accessories for Approval	
470.	04.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0428	Request for Clarification on Communication Protocol	
471.	07.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0429	Pictures of Equipment - Material Manufacturing in Monthly Progress Report - Contractor Reply (	
472.	07.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0416	Clarification of Unit Cooling Water System	
473.	08.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0432	Deduction of Taxes from Contractor's Invoice	
474.	09.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0433	Reply for Dasu Turbine Foundation Load Calculation Submission for Approval	
475.	15.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0437	Submission of Contractors DB Member for Approval Contractor No.6 Separate Reminder	
476.	17.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0438	Reminder for Dasu Generator Stator RTD Installation Pit Lighting Arrangement and Space Heater Arrangement for Approval	
477.	17.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0436	C-06 Claim for Cost Impacts due to Extension of Time for Completion (Interim as of 31st October 2022)	
478.	17.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0439	Dasu Generator Sequence Diagram, Terminal Protection Cover Assembly for Approval	
479.	18.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0430	Submission of General Technical Description for Equipment Earthing (Rev.A)	
480.	18.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0441	Delayed Approval for List of Contractors Technical Drawings	
481.	18.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0442	Reply for Detail Design Drawings of Guide Bearing Submission for Approval	
482.	21.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0440	Reminder on Delayed Approval for Contractor's Commercial Letters	
483.	22.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0441	Monthly Progress Report October 2022	
484.	22.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0444	Quarterly Report 3rd Quarter 2022	
485.	23.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0227	Contractors Final Claim Report for Delayed Handing Over of Camp Area (4.442ha)	
486.	23.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0446	Application for Material Replacement Request 4 EM-01	
487.	25.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0434	Submission of Drawings for EM-01 Camp	
488.	24.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0445	Dasu U3 Stay Ring FAT Notification For Inspection (NFI) and test program EM-01	
489.	25.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0447	Request for Clarification on Employers Witness the Factory test and Inspection Schedule EM-01	
490.	29.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0370	Submission of Revised Dasu Powerhouse Cavern Equipment Arrangement Drawing ( Rev.B )	
491.	30.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0448	Addition of Suppliers to the Agreed Schedule T-4	
492.	30.11.22	Dasu-EM-901-LET-JV-WAPDA/DHC-2022-0452	Submission of Contractor's DB Member for Approval - Contractor No-7 Separate Reminder	

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**Appendix E [11/20]**

Sr. No	Receiving Date	Letter No.	Subject	Remarks
<b>2.13 Dasu SA-01</b>				
<b>Dasu Office</b>				
493.	08.11.22	KGL/Dasu-SSKD/S/22-77	Submission of Monthly Progress Report	
494.	12.11.22	KGL/Dasu-SSKD/S/22-78	Rain at Site	
495.	16.11.22	KGL/Dasu-SSKD/S/22-79	Stoppage of Work at Seo Road	
496.	16.11.22	KGL/Dasu-SSKD/S/22-80	Rain at Site	
497.	21.11.22	KGL/Dasu-SSKD/S/22-81	Submission of Interim Payment Certificate (IPC No.02)	
498.	21.11.22	KGL/Dasu-SSKD/S/22-82	Rain at Site SSKD	
499.	22.11.22	KGL/Dasu-SSKD/S/22-83	Delay in Certifications of Interim Payment Certificate (IPC No 02)	
500.	24.11.22	KGL/Dasu-SSKD/S/22-84	Invalid Deduction from Interim Payment Certificate SA-01	
501.	25.11.22	KGL/Dasu-SSKD/S/22-86	Processing of Interim Payment Certificates SA-01	
502.	28.11.22	KGL/Dasu-SSKD/S/22-87	Deduction From Interim Payment Certificates No-02	
503.	29.11.22	KGL/Dasu-SSKD/S/22-88	Submission of Earth Work Cross Section	
<b>2.15 Dasu LADP-MI-1</b>				
<b>Dasu Office</b>				
504.	02.11.22	KGL/Dasu-RHC/22-224	02.11.22-5006-Submission of IPA # 07 ( 224 )	
505.	01.11.22	KGL/Dasu-RHC/22-225	Program for Outstanding Works of Ten 10 Blocks	
506.	11.11.22	KGL/Dasu-RHC/22-226	Split Air Conditioner Heater ( Reminder 1 )	
507.	12.11.22	KGL/Dasu-RHC/22-227	Rain at Site	
508.	16.11.22	KGL/Dasu-RHC/22-228	Rain at Site	
509.	21.11.22	KGL/Dasu-RHC/22-229	Rain at Site	
510.	24.11.22	KGL/Dasu-RHC/22-230	Split Air Conditioner Water Heater MI-1	
511.	24.11.22	KGL/Dasu-RHC/22-231	Electrical Work Residence Type A MI-1	
512.	24.11.22	KGL/Dasu-RHC/22-232	Submission of IPC No 07 MI-1	
513.	25.11.22	KGL/Dasu-RHC/22-233	Request for Price Adjustment Provision in the Ongoing Contracts MI-1	
<b>2.16 Dasu LADP-MI-2</b>				
<b>Dasu Office</b>				
514.	05.11.22	KGL/Dasu-JMK/22-134	Submission of October 2022 Progress Report	
515.	12.11.22	KGL/Dasu-JMK/22-135	Rain at Site	
516.	13.11.22	KGL/Dasu-JMK/22-136	Revised Variation in Internal Electrification	
517.	16.11.22	KGL/Dasu-JMK/22-137	Rain at Site	
518.	21.11.22	KGL/Dasu-JMK/22-138	Rian at Site	
519.	25.11.22	KGL/Dasu-JMK/22-139	Plumbing Items MI-2	
<b>2.17 DASP LADP-PKG-01</b>				
<b>Dasu Office</b>				
520.	01.11.22	IKAN/Dasu/LADP/PKG-1/076	Unstable Retaining Structures at Dong Nullah Road	
521.	01.11.22	IKAN/Dasu/LADP/PKG-1/077	Shortened - Restricted Row at Seo Site	
522.	07.11.22	IKAN/Dasu/LADP/PKG-1/078	Replacement of Contractor Authorize Representative	
523.	10.11.22	IKAN/Dasu/LADP/PKG-1/079	Weekly Report	
524.	10.11.22	IKAN/Dasu/LADP/PKG-1/080	Submission of Monthly Progress Report FMO October -2022	
525.	13.11.22	IKAN/Dasu/LADP/PKG-1/081	Weekly Report	
526.	15.11.22	IKAN/Dasu/LADP/PKG-1/082	Submission of Interim Payment Certificate IPC no.03	
527.	16.11.22	IKAN/Dasu/LADP/PKG-1/084	Reminder-2 Dismantling of Existing Structure and Clearance of Row Seo-Razika Road at RD0+930 to RD 1+050	
528.	16.11.22	IKAN/Dasu/LADP/PKG-1/085	Reminder -02 Shahi Bagh Local Issues	
529.	16.11.22	IKAN/Dasu/LADP/PKG-1/086	Reminder Shortened Restricted RoW at Seo Site RD 0+460 to RD 0+500	
530.	16.11.22	IKAN/Dasu/LADP/PKG-1/087	Reminder Additional Works at DC Colony Road	
531.	16.11.22	IKAN/Dasu/LADP/PKG-1/089	Reminder Re-Adjustment of Alignment at Seo Site RD 0+500 to RD 0+600 (089)	
532.	16.11.22	IKAN/Dasu/LADP/PKG-1/091	Reminder Unstable Retaining Structures at Dong Road RD 0+340 to RD 0+388	
533.	18.11.22	IKAN/Dasu/LADP/PKG-1/092	Weekly Report PKG-01	
534.	24.11.22	IKAN/Dasu/LADP/PKG-1/093	Weekly Report	
535.				





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**Appendix E [12/20]**

**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.	02.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-145	Request for Advance Payment to XEN DID under GM HPO 1120 Meter Drilling Work 08 Tunnels	
2.	02.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-146	Request for Approval Escalation Billing Rates Remuneration Foreign Currency Portion-EURO	
3.	02.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-146	146-02.11.22-Request for Approval Escalation Billing Rates Remuneration Foreign Currency Portion-JPY	
4.	02.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-146	Request for Approval Escalation Billing Rates Remuneration Foreign Currency Portion-EURO	
5.	02.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-147	Request for Approval Escalation Local Technical Staff Applicable wef October 1, 2022	
6.	04.11.22	DHC/LHR/WAPDA/GEN/mkk/ 22-148	Request for Issuance of Multiple Entry Visa to Mr Masud Karim	
7.	07.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-149	Statement Reimbursable Expenses Local Currency Portion for August 2022	
8.	14.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-150	Invoice Remuneration Local Currency Portion of October 2022	
9.	15.11.22	DHC/LHR/WAPDA/GEN/mkk/ 22-151	Request for Issuance of Multiple Entry Visa to Mr. John Allan Gordon	
10.	16.11.22	DHC/LHR/WAPDA/GEN/zuh/ 22-152	Request Approval Inter-Adjustment Remuneration JPY, EURO & PKR Portion	
11.	18.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-153	Payment against 100 Meters on Shore Drilling Work at Dasu HPP WAPDA Kohistan	
12.	17.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-154	Invoice for Arrears of Escalation Foreign Currency Portion Oct-Dec 2021-EURO	
13.	17.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-154	Invoice for Arrears of Escalation Foreign Currency Portion Oct-Dec 2021-JPY	
14.	22.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-154	Invoice for Arrears of Escalation Foreign Currency Portion January to September 2022-EURO	
15.	22.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-154	Invoice for Arrears of Escalation Foreign Currency Portion January to September 2022-JPY	
16.	22.11.22	DHC/LHR/WAPDA/GEN/zuh/ 22-156	Request for Approval Haris Ashraf Jr Engineer Costing & Planning L124	
17.	25.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-157	Invoice (Remuneration) Foreign Currency Portion October 2022-EURO	
18.	25.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-157	Invoice (Remuneration) Foreign Currency Portion October 2022-JPY	
19.	25.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-158	Statement Reimbursable Expenses Foreign Currency Portion October-2022-EURO	
20.	25.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-158	Statement Reimbursable Expenses Foreign Currency Portion October-2022-EURO	
21.	25.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-159	Supplementary Invoices Remuneration Foreign Currency Portion Aug. to Dec. 2021-EURO	
22.	25.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-159	Supplementary Invoices Remuneration Foreign Currency Portion Aug. to Dec. 2021-JPY	
23.	28.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-160	Supplementary Statement Reimbursable Expenses Foreign Currency Portion Aug. to Dec. 2021-EURO	
24.	28.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-160	Supplementary Statement Reimbursable Expenses Foreign Currency Portion Aug. to Dec. 2021-EURO	
25.	28.11.22	DHC/LHR/WAPDA/GEN/aiq/ 22-161	161-28.11.22-Request for Approval Escalation on Billing Rate Local Technical Staff Applicable wef October 1, 2022	
<b>Dasu office</b>				
26.	01.11.22	DHC/Dasu/WAPDA/GEN/myb/22-673	673-01.11.22-Security Arrangements for Travelling of DHC Expatriates (Mr.Burhan Arioiz & Mr.Ali Onur Kuyucak & Mr.Tatsuya Miyazato)	
27.	01.11.22	DHC/Dasu/WAPDA/GEN/you/22-674	Security Arrangements for Travelling of PCCC Expatriates	
28.	01.11.22	DHC/Dasu/WAPDA/GEN/you/22-675	Revised Security Arrangements for Travelling of PCCC Expatriates	
29.	02.11.22	DHC/Dasu/WAPDA/GEN/you/22-679	Security Arrangements for Travelling of CGGC Expatriates	
30.	02.11.22	DHC/Dasu/WAPDA/GEN/you/22-680	Security Arrangements for Travelling of PCCC Expatriates	
31.	04.11.22	DHC/Dasu/WAPDA/GEN/myb/22-681	Security Arrangement for Travelling of DHC Expatriate (Tatsuya Miyazato)	
32.	04.11.22	DHC/Dasu/WAPDA/GEN/mmk/22-682	Supplemental Explanation for Approval of Inter-Adjustment of Remuneration in JPY,Euro.and PKR Portion with Approved AM-4 (B)	
33.	04.11.22	DHC/Dasu/WAPDA/GEN/sad/22-683	Revenue Survey in Respect of Additional Land for CGGC Construction Purpose at MW-01 Site at Seo-Siglo Areas	
34.	04.11.22	DHC/Dasu/WAPDA/GEN/you/22-684	Advisory Notice	
35.	04.11.22	DHC/Dasu/WAPDA/GEN/sad/22-685	GIS Verification of Land Parcels of Component RAR-01 Additional Land (Zaal-3)	
36.	02.11.22	DHC/Dasu/WAPDA/GEN/nhs/22-686	Application Regarding Mosque and Water supply in Khuhsi-Link-1	
37.	05.11.22	DHC/Dasu/WAPDA/GEN/you/22-687	687-05.11.22-Security Arrangements for Travelling of CGGC Expatriates	
38.	07.11.22	DHC/Dasu/WAPDA/GEN/you/22-688	Security Arrangement for Travelling of DHC Expatriates (Mr.Naim Karaman & Mr.Ali Murat Ozbek & Mr.Deepak Kunwar)	
39.	07.11.22	DHC/Dasu/WAPDA/GEN/you/22-689	Security Arrangements for CGGC Expatriates	
40.	07.11.22	DHC/Dasu/WAPDA/GEN/nk-you/22-690	Reply to Post Visit Report - Fauji Cement Company Ltd.(FCCL)	
41.	07.11.22	DHC/Dasu/WAPDA/GEN/nk-you/22-691	Security Arrangements for Travelling of CCECC Expatriates	
42.	07.11.22	DHC/Dasu/WAPDA/GEN/nk-you/22-692	Security Arrangements for Travelling of PCCC Expatriates	
43.	07.11.22	DHC/Dasu/WAPDA/GEN/nk-you/22-693	Security Arrangement for Travelling of CCECC Expatriates	
44.	07.11.22	DHC/Dasu/WAPDA/GEN/nk-you/22-694	Security Arrangements for Travelling of CGGC Expatriates	
45.	07.11.22	DHC/Dasu/WAPDA/GEN/nk-amr/22-695	Application Regarding Self-Managed Relocation (SMR)	
46.	08.11.22	DHC/Dasu/WAPDA/GEN/nk-sad/22-696	Application	
47.	08.11.22	DHC/Dasu/WAPDA/GEN/nk-sad/22-697	Application	
48.	07.11.22	DHC/Dasu/WAPDA/GEN/nk-amr/22-698	Application Regarding SMR Package	
49.	08.11.22	DHC/Dasu/WAPDA/GEN/nk-you/22-699	Revised Security Arrangement for Travelling of CGGC Expatriates	
50.	09.11.22	DHC/Dasu/WAPDA/GEN/nk-you/22-700	Security Arrangements for Travelling of CGICOP Expatriates	
51.	08.11.22	DHC/Dasu/WAPDA/GEN/nk-nhs/22-701	Payment of Project Allowance to 24 Ahhs of Various Villages	
52.	10.11.22	DHC/Dasu/WAPDA/GEN/nk-you/22-702	Security Arrangement for Travelling of PCCC Expatriates	

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**Appendix E [13/20]**

Sr. No	Date	Letter No.	Subject	Remarks
53.	10.11.22	DHC/Dasu/WAPDA/GEN/nk-rob/22-703	Drafts Tors for Skill Development Course Trainer at Kuz Chuchang Village Dasu	
54.	12.11.22	DHC/Dasu/WAPDA/GEN/-sad/22-704	Provision of Funds for Disbursement of Compensation for Non-Fruit Plants in Respect of Component Viz Bailey Bridge Gummo Right Side Area-1	
55.	12.11.22	DHC/Dasu/WAPDA/GEN/-sad/22-705	Provision of Funds for Disbursement of Compensation for Non-Broad Leave Wild Fruit Plants Forest in Respect of Component Viz Bailey Bridge Gumoo Right Side Area-1	
56.	12.11.22	DHC/Dasu/WAPDA/GEN/-you/22-706	Security Arrangements for Travelling of DHC Expatriate (Mr. Shuji Nakata & Samejima)	
57.	12.11.22	DHC/Dasu/WAPDA/GEN/-you/22-707	Security Arrangement for Travelling of CGGC Expatriates	
58.	12.11.22	DHC/Dasu/WAPDA/GEN/-you/22-708	Security Arrangement for Travelling of CGGC Expatriates	
59.	13.11.22	DHC/Dasu/WAPDA/GEN/-you/22-709	Security Arrangement for Travelling of CCECC Expatriates	
60.	13.11.22	DHC/Dasu/WAPDA/GEN/-you/22-710	Security Arrangement for Travelling of CCECC Expatriates	
61.	13.11.22	DHC/Dasu/WAPDA/GEN/-you/22-711	Security Arrangement for Travelling of PCCC Expatriates	
62.	13.11.22	DHC/Dasu/WAPDA/GEN/-you/22-712	Security Arrangement for Travelling of PCCC Expatriates	
63.	14.11.22	DHC/Dasu/WAPDA/GEN/-you/22-713	Security Arrangement for Traveling of DHC Expatriates (Mr. Huluk & Samejima)	
64.	14.11.22	DHC/Dasu/WAPDA/GEN/-you/22-714	Security Arrangement for Traveling of DHC Expatriates (Mr. Duc)	
65.	14.11.22	DHC/Dasu/WAPDA/GEN/-you/22-715	Security Arrangement for Travelling of PCCC Expatriates	
66.	14.11.22	DHC/Dasu/WAPDA/GEN/-ohs/22-716	External OHS Audit Documents Required by Bureau Veritas for External OHS Audit	
67.	14.11.22	DHC/Dasu/WAPDA/GEN/-TJ/22-717	Summary of Compensation Payments of 52 Components for Account Adjustment	
68.	14.11.22	DHC/Dasu/WAPDA/GEN/-you/22-718	Security arrangement for traveling of DHC Expatriates (Mr. Huluk).	
69.	15.11.22	DHC/Dasu/WAPDA/GEN/-you/22-719	Security arrangement for traveling of DHC Expatriates (Mr. Huluk & Samejima)	
70.	15.11.22	DHC/Dasu/WAPDA/GEN/-you/22-720	Security Arrangements for Travelling of CGGC Expatriates.	
71.	16.11.22	DHC/Dasu/WAPDA/GEN/-you/22-721	Security Arrangement for Travelling of CGGC Expatriates	
72.	15.11.22	DHC/Dasu/WAPDA/GEN/-tm/22-722	MPR No.99 for the Month of October 2022 under Assignment-B	
73.	17.11.22	DHC/Dasu/WAPDA/GEN/-nk/22-723	The Engineers Responds to E-mail (dated 05.10.2022) of Dr. Rabiya Chaudry, Advisor to Authority WAPDA	
74.	18.11.22	DHC/Dasu/WAPDA/GEN/-sad/22-724	GIS Verification of Land Parcels of Component ROR Dogah End Point to Gayal Nullah Area-1 (Rectified )	
75.	17.11.22	DHC/Dasu/WAPDA/GEN/-you/22-725	Complaint lodged by locals on PM's Portal against Job Vacancies for Local Dasu Dam People	
76.	18.11.22	DHC/Dasu/WAPDA/GEN/-you/22-726	(Special movement) Security arrangement for traveling of DHC Expatriates(Mr. Nakano, Nakata& Samejima)	
77.	18.11.22	DHC/Dasu/WAPDA/GEN/-nrz/22-727	Request for Approval for WATEEN Telecommunication Internet Services	
78.	18.11.22	DHC/Dasu/WAPDA/GEN/-you/22-728	(Special movement) Security arrangement for traveling of DHC Expatriates (Mr. Okan)	
79.	18.11.22	DHC/Dasu/WAPDA/GEN/-you/22-729	(Special movement) Security arrangement for traveling of DHC Expatriates (Mr. HULUK)	
80.	19.11.22	DHC/Dasu/WAPDA/GEN/-you/22-730	Security Arrangement for Travelling of CCECC Expatriates	
81.	19.11.22	DHC/Dasu/WAPDA/GEN/-sad/22-731	GIS Verification of Land Parcels of Component LOR (Shatiyal Limits to Shatiyal Nullah) Area-3, Part-B)	
82.	19.11.22	DHC/Dasu/WAPDA/GEN/-sad/22-732	GIS Verification of Land Parcels of Component LOR (Shatiyal Limits to Shatiyal Nullah) Area-3, Part-A)	
83.	19.11.22	DHC/Dasu/WAPDA/GEN/-sad/22-733	GIS Verification of Land Parcels of Component LOR (Shatiyal Limits to Shatiyal Nullah) Area-2	
84.	19.11.22	DHC/Dasu/WAPDA/GEN/-you/22-734	Security arrangement for traveling of DHC Expatriates (Mr. Naim Karaman, Mr. Ali Murat & Mr. Birol)	
85.	20.11.22	DHC/Dasu/WAPDA/GEN/-PM/22-735	Urgent Request for Restoration of Normal Traffic in Kayal Bridge	
86.	21.11.22	DHC/Dasu/WAPDA/GEN/-DPM/22-736	Require Data for Revised PC-1	
87.	20.11.22	DHC/Dasu/WAPDA/GEN/-you/22-737	Security Arrangement for Travelling of CGGC Expatriates	
88.	21.11.22	DHC/Dasu/WAPDA/GEN/-sad/22-738	GIS Verification Observation in Musavi of the Component LOR (Shatiyal Limits to Shatiyal Nullah Area-4)	
89.	21.11.22	DHC/Dasu/WAPDA/GEN/-sad/22-739	Provision of Funds for Disbursement of Compensation for Broad Leaf Wild Fruit Trees in Respect of the Component Viz RAR-01 Additional Land (Zaal-03)	
90.	21.11.22	DHC/Dasu/WAPDA/GEN/-sad/22-740	Tentative Cost Estimate of the Component RAR-01 Additional Land (Zaal-03)	
91.	21.11.22	DHC/Dasu/WAPDA/GEN/-you/22-741	Security Arrangement for Travelling of MSC Expatriates	
92.	21.11.22	DHC/Dasu/WAPDA/GEN/-you/22-742	Security Arrangement for Travelling of PCCC Expatriates	
93.	21.11.22	DHC/Dasu/WAPDA/GEN/-you/22-743	Security Arrangement for Travelling of CCECC Expatriates	
94.	22.11.22	DHC/Dasu/WAPDA/GEN/-you/22-744	Security Arrangement for Travelling of CGGC Expatriates	
95.	22.11.22	DHC/Dasu/WAPDA/GEN/-you/22-745	Security arrangement for traveling of DHC Expatriate (Mr. Deepak Kunwar)	
96.	22.11.22	DHC/Dasu/WAPDA/GEN/-you/22-746	Security arrangement for traveling of DHC Expatriate (Mr. Neil White)	
97.	23.11.22	DHC/Dasu/WAPDA/GEN/-you/22-747	Security Arrangement for Travelling of PCCC Expatriates	
98.	23.11.22	DHC/Dasu/WAPDA/GEN/-you/22-748	Security Arrangement for Travelling of PCZN (EM-01) Expatriates	
99.	23.11.22	DHC/Dasu/WAPDA/GEN/-you/22-749	Security Arrangement for Travelling of PCCC Expatriates	
100.	23.11.22	DHC/Dasu/WAPDA/GEN/-you/22-750	Security Arrangement for Travelling of PCCC Expatriates	
101.	23.11.22	DHC/Dasu/WAPDA/GEN/-sad/22-751	GIS Verification Observation in Mussavi of the Component LoR (Shatial Limits to Shatial Nullah Area-05).	
102.	23.11.22	DHC/Dasu/WAPDA/GEN/-nhs/22-752	Payment of Project Allowance to 36 AHHs of Various Villages	
103.	24.11.22	DHC/Dasu/WAPDA/GEN/-you/22-753	Security arrangement for traveling of DHC Expatriate (Mr. Mendes)	
104.	24.11.22	DHC/Dasu/WAPDA/GEN/-you/22-754	Security Arrangement for Travelling of PCCC Expatriates	
105.	24.11.22	DHC/Dasu/WAPDA/GEN/-you/22-755	Security Arrangement for Travelling of PCCC Expatriates	
106.	25.11.22	DHC/Dasu/WAPDA/GEN/-mmk/22-756	Comments on the Inception Report of Independent Audit of Occupational Health and Safety	
107.	26.11.22	DHC/Dasu/WAPDA/GEN/-mmk/22-757	(Special Movement) Revised Security arrangement for traveling of DHC Expatriate (Mr. Mendez)	

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Sr. No	Date	Letter No.	Subject	Remarks
108.	26.11.22	DHC/Dasu/WAPDA/GEN/-mmk/22-758	Security Arrangement for Traveling of DHC Expatriate (Mr. Okan)	
109.	28.11.22	DHC/Dasu/WAPDA/GEN/-you/22-759	Revised Security Arrangement for Traveling of DHC Expatriate (Mr. Okan)	
110.	28.11.22	DHC/Dasu/WAPDA/GEN/-you/22-760	Security Arrangements for Travelling of DHC Expatriates (Mr.Ali Onur KYUCAK)	
111.	28.11.22	DHC/Dasu/WAPDA/GEN/-you/22-761	Security Arrangements for Travelling of DHC Expatriates (Mr. Batuhan Ozdemir)	
112.	29.11.22	DHC/Dasu/WAPDA/GEN/-sad/22-762	Assessment Report of Fruit Plants in Respect of Bailey Bridge Gumoo Right Side (Area-02)	
113.	30.11.22	DHC/Dasu/WAPDA/GEN/-sad/22-763	GIS Verification of Land Parcels of Component ROR Dogah End Point to Gayal Nullah File-1	
114.	30.11.22	DHC/Dasu/WAPDA/GEN/-you/22-764	Security Arrangement for Travelling of CGGC Expatriates	
115.	30.11.22	DHC/Dasu/WAPDA/GEN/-you/22-765	Security Arrangement for Travelling of CCECC Expatriates	
116.	30.11.22	DHC/Dasu/WAPDA/GEN/-you/22-766	Security Arrangement for Travelling of PCCC Expatriates	
117.	30.11.22	DHC/Dasu/WAPDA/GEN/-you/22-767	Security Arrangements for Travelling of CCECC Expatriates	
118.	30.11.22	DHC/Dasu/WAPDA/GEN/-you/22-768	Security Arrangements for Travelling of CGICOP Expatriates	
119.	30.11.22	DHC/Dasu/WAPDA/GEN/-myb/22-769	Revised Security Arrangements for Travelling of DHC Expatriates (Mr.Batuhan Ozdemir)	
120.	30.11.22	DHC/Dasu/WAPDA/GEN/-myb/22-770	Revised Security Arrangements for Travelling of DHC Expatriates (Mr.Ali Onur Kuyucak)	
<b>1.2. Dasu-RAR-01</b>				
<b>Dasu office</b>				
121.	05.11.22	DHC/Dasu/WAPDA/RAR-01/CAD/22-100	Request for Employers Approval on Replacement of Current Bank Guarantee with New Bank Guarantee for Original Scope of Works RAR-01	
122.	07.11.22	DHC/Dasu/WAPDA/RAR-01/CAD/22-101	Contractors Acceptance to the Engineers Determination on Contractors Cost Claim (Quantification ) ,RAR-01	
123.	25.11.22	DHC/Dasu/WAPDA/RAR-01/bak/22-108	Completion of Komila Bypass.	
124.				
<b>1.3. Dasu-KKH-01</b>				
<b>Dasu office</b>				
125.	01.11.22	DHC/Dasu/WAPDA/KKH-01/ OHS/22-200	Request for District Commissioner (DC) Office Dasu Kohistan for Issuance of Explosive Materials Transportation License (Form EL-07)	
126.	03.11.22	DHC/Dasu/WAPDA/KKH-01/ mih/22-204	Application from Local of Chuchang.KKH-01	
127.	11.11.22	DHC/Dasu/WAPDA/KKH-01/ hh/22-217	Sample Delivery Schedule of Project Material to the 3rd Party Laboratories KKH-01	
128.	28.11.22	DHC/Dasu/WAPDA/KKH-01/ cad/22-237	Interim Payment Certificate No 28 (KKH-01)	
<b>1.4. Dasu-KKH-02</b>				
<b>Dasu office</b>				
129.	01.11.22	DHC/Dasu/WAPDA/KKH-02/Dolsar/22-139	Proposal on Preliminary Design VO Preparation and Detail Design of Tunnels and Bridges for Realignment of KKH-02	
130.	10.11.22	DHC/Dasu/WAPDA/KKH-02/ohs/22-148	Request for Issuance of Recommendation Letter for Explosive Materials Transportation License (EL-07).KKH-02	
131.	18.11.22	DHC/Dasu/WAPDA/KKH-02/cad/22-153	Employer's Assistance In Obtaining Approvals from State Bank of Pakistan (SBP)	
132.	19.11.22	DHC/Dasu/WAPDA/KKH-02/OKK/22-153	Revised Layout Plan and Quotation for the Army Barracks at Kaigah	
133.	24.11.22	DHC/Dasu/WAPDA/KKH-02/cad/22-154	Submission Of Contractor's All Risks (Car Insurance	
134.	26.11.22	DHC/Dasu/WAPDA/KKH-02/OKK/22-160	Security Arrangements for New Contractor's Camps	
<b>1.5. Dasu-TL-01</b>				
<b>Dasu office</b>				
135.	07.11.22	DHC/Dasu/WAPDA/TL-01/ohs/22-178	Detail Incident Investigation Report at Tower Location 206.TL-01	
136.	12.11.22	DHC/Dasu/WAPDA/TL-01/ys/22-180	Preliminary Report on NEELUM JHELUM Generators	
137.	17.11.22	DHC/Dasu/WAPDA/TL-01/cad/22-181	Interim Payment Certificate No.64 TL-01	
138.	19.11.22	DHC/Dasu/WAPDA/TL-01/mrz/22-182	Provision of Coordinates and GIS Imaginary of Tower locations T-109 and T-111A.	
<b>1.6. Dasu-MW-01</b>				
<b>Dasu Office</b>				
139.	03.11.22	DHC/Dasu/WAPDA/MW-01/CAD/22-558	Generator Procurement for Provision of Power Supply No.1 Crushing Plant and No.1 Batching Plant.MW-01	
140.	02.11.22	DHC/Dasu/WAPDA/MW-01/HUR/22-564	Watch Towers Posts at Crushing Plant 1#.MW-01	
141.	05.11.22	DHC/Dasu/WAPDA/MW-01/JF/22-568	Proposal and Explanation on Measures to Mitigate Damages on Diversion Scheme Extreme Climate.MW-01	
142.	07.11.22	DHC/Dasu/WAPDA/MW-01/hh/22-572	Inspection of the Natural Pozzolan Source #1 Processing Plant Facilities MW-01	
143.	10.11.22	DHC/Dasu/WAPDA/MW-01/hua/22-579	Request for Inspection and Maintenance to the Car D-7378.MW-01	
144.	10.11.22	DHC/Dasu/WAPDA/MW-01/hua/22-593	Request for Re-Establishing Equity in the Contracts	
145.	10.11.22	DHC/Dasu/WAPDA/MW-01/hua/22-593	Shifting of Generators from Neelum Jhelum Hydropower Project Company MW-01	
146.	18.11.22	DHC/Dasu/WAPDA/MW-01/PM/22-602	Shifting of Generators from Neelum Jhelum Hydropower Project Company MW-01	
147.	18.11.22	DHC/Dasu/WAPDA/MW-01/shj/22-600	Interim Payment Certificate No 32- For Aug-2022 MW-01	
148.	19.11.22	DHC/Dasu/WAPDA/MW-01&02/cad/22-607	Request for Re-Establishing Equity in the Contracts - MW-01 and MW-02	
149.	20.11.22	DHC/Dasu/WAPDA/MW-01/JF/22-609	Layout Plan of Ceremonial Platform of River Closure	
150.	23.11.22	DHC/Dasu/WAPDA/MW-01/zua/22-611	Fence Construction around the Disputed Areas of Kass(MW-01)	
<b>1.8 Dasu-MW-02</b>				
<b>Dasu Office</b>				
151.	09.11.22	DHC/Dasu/WAPDA/MW-02/zic/22-467	Engineers Reply on Effluent at CT-02 Site Drained to the Indus River Without any Treatment.MW-02	
152.	20.11.22	DHC/Dasu/WAPDA/MW-02/shj/22-477	Interim Payment Certificate No # 32 - For Aug-2022 MW-02	
153.	20.11.22	DHC/Dasu/WAPDA/MW-02/shj/22-478	Justification for Issuance of Interim Payment Certificate No# 32	
154.	29.11.22	DHC/Dasu/WAPDA/MW-02/ohs/22-484	Initial Incident Investigation Report	
<b>1.10 Dasu-LBRV-12</b>				



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Sr. No	Date	Letter No.	Subject	Remarks
<b>Dasu office</b>				
155.	07.11.22	DHC/Dasu/WAPDA/LBRV-12/cad/22-060	Extension of Performance Security.LBRV-12	
<b>1.11 Dasu-RBRV-11</b>				
156.	20.11.22	DHC/Dasu/WAPDA/RBRV-11/cad/22-004	Engineer's Anticipation on types along with Quantification of Claims Ensuing the Termination of the Contract	
157.	25.11.22	DHC/Dasu/WAPDA/LBRV-11/cad/22-005	Engineer's Anticipation on Types along with Quantification of Claims Ensuing the Termination of the Contract	
<b>1.12 Dasu-PCI-01R</b>				
<b>Dasu office</b>				
158.	04.11.22	DHC/Dasu/WAPDA/PCI-01R/cad-22-275	Interim Payment Certificate No.35 (Revised).PCI-01R	
159.	10.11.22	DHC/Dasu/WAPDA/PCI-01R/infra/22-281	Replacing Asphalt Surface with Concrete Surface for Main Road and Steep-Gradient Roads of Project Colony.PCI-01R	
160.	12.11.22	DHC/Dasu/WAPDA/PCI-01R/infra/22-287	Provision of Elevators I Lifts in Project Office and Installation of MS Grill at Back Side of Residence Category-1 for Privacy	
161.	22.11.22	DHC/Dasu/WAPDA/PCI-01R/mfn/22-296	Submission of Engineer's Estimate - Diesel Generator Set for Project Office PCI-01	
162.	23.11.22	DHC/Dasu/WAPDA/PCI-01R/mfn/22-299	Submission of Engineer's Estimate and Technical Specifications (Solar Power Supply)	
163.	25.11.22	DHC/Dasu/WAPDA/PCI-01R/cad/22-300	Khyber Pakhtunkhwa Provincial Sales Tax on Services Adjustment for Changes in legislation	
164.	30.11.22	DHC/Dasu/WAPDA/PCI-01R/infra/22-305	VO-015-Replacing Asphalt Surface with Concrete Surface for Main Road and Steep Gradient Roads of Project Colony.PCI-01R	
<b>1.13 Dasu PCI-02</b>				
<b>Dasu office</b>				
165.	01.11.22	DHC/Dasu/WAPDA/PCI-02/ CAD/22-004	Prequalification Document for Project Colony and Infrastructure.PCI-02	
<b>1.14 Dasu EM-01</b>				
<b>Dasu Office</b>				
166.	03.11.22	DHC/Dasu/WAPDA/EM-01/cad/22-372	Request for Approval of Temporary Storage Space.EM-01	
167.	04.11.22	DHC/Dasu/WAPDA/EM-01/sn/22-378	765KV Terminal Tower Position at 765Kv Take of Switchyard.EM-01	
168.	05.11.22	DHC/Dasu/WAPDA/EM-01/cad/22-379	Provision of 6 No. Vehicles (Pick-Up 4x4) Double Cabin for the Employers and the Project Managers Staff.EM-01	
169.	07.11.22	DHC/Dasu/WAPDA/EM-01/cad/22-382	Observation on Interim Payment Certificate (IPC) No.02.EM-01	
170.	08.11.22	DHC/Dasu/WAPDA/EM-01/cad/22-384	Employers Inspection Certificate No.5 for Pipes and Accessories.EM-01	
171.	09.11.22	DHC/Dasu/WAPDA/EM-01/cad/22-388	Deduction of Taxes from Contractors Invoices.EM-01	
172.	12.11.22	DHC/Dasu/WAPDA/EM-01/mrz/22-394	Invitation for meeting with NTDC on Terminal Tower Location	
173.	29.11.22	DHC/Dasu/WAPDA/EM-01/sn/22-413	Factory Acceptance Test (FAT) for Unit 3 Staying at Contractors Factory.EM-01	
<b>1.16 Dasu-LADP</b>				
<b>Dasu Office</b>				
174.	05.11.22	DHC/Dasu/WAPDA/LADP/mfn/22-053	LADP-MSWM-Comments on Bidding Documents	
175.	07.11.22	DHC/Dasu/WAPDA/LADP/mfn/22-054	LADP-DWS-Bid Evaluation Report	
176.	14.11.22	DHC/Dasu/WAPDA/LADP/mfn/22-055	Submission of Revised Bidding Documents (Hiring of 15 Vans on Rental Basis)	
177.	25.11.22	DHC/Dasu/WAPDA/LADP/njm/22-056	LADP Monthly Progress Report No. 43 for the Month of October, 2022	
<b>2.15 Dasu LADP-MI-1</b>				
<b>Dasu Office</b>				
178.	04.11.22	DHC/Dasu/WAPDA/MI-1/mfn/22-079	LADP-RHC-Issuance of Taking Over Certificate for Ten (10) Blocks	
179.	04.11.22	DHC/Dasu/WAPDA/MI-1/mfn/22-080	080-04.11.22-LADP-RHC-Possession of the Remaining Site	
<b>2.16 Dasu LADP-MI-2</b>				
<b>Dasu Office</b>				
180.	04.11.22	DHC/Dasu/WAPDA/MI-2/njm/22-047	LADP-JMK-Rate Analysis of Tile Flooring	
<b>2.17 Dasu LADP-SA-01</b>				
<b>Dasu Office</b>				
181.	15.11.22	DHC/Dasu/WAPDA/SA-01/ mfn/22-078	Laying of Rain Water Drainage Pipe by Petrol Pump Staff near WAPDA Office, Dasu.	
182.	15.11.22	DHC/Dasu/WAPDA/SA-01/ mfn/22-079	Rate Analysis for RCC (1:2:4).	
183.	16.11.22	DHC/Dasu/WAPDA/SA-01/ mfn/22-080	Revised Bidding RFQ Documents SA-01	
184.	21.11.22	DHC/Dasu/WAPDA/SA-01/ mfn/22-081	Interim Payment Certificate No.2 SSKD	
185.	25.11.22	DHC/Dasu/WAPDA/SA-01/ zia/22-084	Stoppage of works at Seo Road	
<b>2.18 Dasu LADP-PKG-01</b>				
<b>Dasu Office</b>				
186.	11.11.22	DHC/Dasu/WAPDA/PKG-01/ mfn/22-051	Interim Payment Certificate No. 2	
187.	20.11.22	DHC/Dasu/WAPDA/PKG-01/ mfn/22-055	Right of Way at RDs 0+460 to 0+500 & 0+930 to 1+050	
<b>2. To Contractors</b>				
<b>2.1 RAR-01</b>				
<b>Dasu Office</b>				
1.	02.11.22	DHC/Dasu/CCECC/RAR-01/PLS/22-099	Contract Programme for Komila Bypass RAR-01.VO-007	
2.	10.11.22	DHC/Dasu/CCECC/RAR-01/zic/22-102	Arrangement of Awareness Session Regarding Communicable Diseases with Special Focus on HIV-AIDs Through Contractors Doctor.RAR-01	
3.	11.11.22	DHC/Dasu/CCECC/RAR-01/hh/22-103	Approval of Frontier Foundry Steel (Pvt.) Ltd KKH-01	
4.	11.11.22	DHC/Dasu/CCECC/RAR-01/pls/22-104	Contract Program for Komila Bypass- RAR-01 VO-007	
5.	15.11.22	DHC/Dasu/CCECC/RAR-01/cad/22-105	Employers Approval on Replacement of Current Bank Guarantee with new bank Guarantee for Original Scope of Works RAR-01	
6.	15.11.22	DHC/Dasu/CCECC/RAR-01/cad/22-106	Contractor's Claim for on-Site Management overhead Cost on Account of Claim the Extended time for Completion for EOT No. 1 and EOT No. 2	
7.	18.11.22	DHC/Dasu/CCECC/RAR-01/cad/22-107	Claim on Extension of workmen Compensation Policy RAR-01	
8.	28.11.22	DHC/Dasu/CCECC/RAR-01/hhc/22-107	Joint Site Visit - Komila Bypass RAR-01	
9.	29.11.22	DHC/Dasu/CCECC/RAR-01/bak/22-110	Uncontrolled Blasting Activity at Komila Bypass End Section.RAR-01	
<b>2.2 RAR-02</b>				
<b>Dasu office</b>				

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Sr. No	Date	Letter No.	Subject	Remarks
10.	05.11.22	DHC/Dasu/CGGC/RAR-02/cad/22-110	Response to Reply for Seating Arrangement in Rear Body of Vehicle.RAR-02	
11.	05	DHC/Dasu/CGGC/RAR-02/okk/22-111	Poor Work Progress.RAR-02	
12.	06.11.22	DHC/Dasu/CGGC/RAR-02/zic/22-112	Submission of Revised Construction Environmental Action Plan for RAR-02	
13.	07.11.22	DHC/Dasu/CGGC/RAR-02/zic/22-113	Monthly Progress Report (MPR) June 2022 RAR-02 Engineers Comments	
14.	07.11.22	DHC/Dasu/CGGC/RAR-02/hog/22-114	The Response to the Contractors Design of the RAR-02	
15.	10.11.22	DHC/Dasu/CGGC/RAR-02/zic/22-115	Arrangement of Awareness Session Regarding Communicable Diseases with Special Focus on HIV-AIDS Through Contractors Doctor.RAR-02	
16.	10.11.22	DHC/Dasu/CGGC/RAR-02/hh/22-116	Approval of Gabion Baskets Manufacturer .RAR-02	
17.	12.11.22	DHC/Dasu/CGGC/RAR-02cad/22-117	Notification of Possible Nationwide Shortage of Oil Supply	
18.	16.11.22	DHC/Dasu/CGGC/RAR-02/OHS/22-118	OHS NCR Closure	
19.	18.11.22	DHC/Dasu/CGGC/RAR-02/cad/22-119	Response to Letter of Inaccessibility of Equipment and Materials due to Road Problems	
20.	21.11.22	DHC/Dasu/CGGC/RAR-02/zic/22-1120	Engineer's Comments On Construction Environment Action Plan (Ceap) Rar-02	
21.	21.11.22	DHC/Dasu/CGGC/RAR-02/OKK/22-121	Usage of Dogah Bridge by the Contractor	
22.	26.11.22	DHC/Dasu/CGGC/RAR-02/cad/22-122	Inaccessibility of Equipment and Materials due to Road Problems	
23.	30.11.22	DHC/Dasu/CGGC/RAR-02/okk/22-123	Notification of Large Amount of Loose Material at Km 32+650.RAR-02	
24.	30.11.22	DHC/Dasu/CGGC/RAR-02/okk/22-124	Usage of Dogah Bridge by the Contractor.RAR-02	
<b>2.3 KKH-01</b>				
<b>Dasu Office</b>				
25.	01.11.22	DHC/Dasu/CCECC/KKH-01/ hhc/22-201	Resubmission of Electromechanical Design for Tunnels and Bridges.KKH-01	
26.	03.11.22	DHC/Dasu/CCECC/KKH-01/ hhc/22-202	Site Observations 02.11.2022.KKH-01	
27.	03.11.22	DHC/Dasu/CCECC/KKH-01/ OHS/22-203	OHS NCR Closure.KKH-01	
28.	04.11.22	DHC/Dasu/CCECC/KKH-01/ OHS/22-205	Ensuring Nightshift Supervision at KKH-01	
29.	02.11.22	DHC/Dasu/CCECC/KKH-01/ bth/22-206	Installation of the Convergence Monitoring Points in Logro-A (K9) Tunnel.KKH-01	
30.	02.11.22	DHC/Dasu/CCECC/KKH-01/ bth/22-207	Reply to the Contractors Clarification Regarding I-Beam Girder Welding and Rock Bolts Orientation at the Crown.KKH-01	
31.	03.11.22	DHC/Dasu/CCECC/KKH-01/ cad/22-208	Professional Indemnity Insurance.KKH-01	
32.	05.11.22	DHC/Dasu/CCECC/KKH-01/ hhc/22-209	3 Month Looks Ahead Schedule.KKH-01	
33.	05.11.22	DHC/Dasu/CCECC/KKH-01/ hhc/22-210	Decisions Taken for OHS-Management of Nonconformities Meeting.KKH-01	
34.	03.11.22	DHC/Dasu/CCECC/KKH-01/ bth/22-212	Approval of Method Statement for Logro-A (K9) Tunnel at KKH-01	
35.	03.11.22	DHC/Dasu/CCECC/KKH-01/ bth/22-213	Approval of Method Statement for Dasu-02 (K4) Tunnel at KKH-01	
36.	08.11.22	DHC/Dasu/CCECC/KKH-01/ cad/22-214	Employers Approval on Replacement of Current Bank Guarantee with New Bank Guarantee for Original Scope of Works.KKH-01	
37.	10.11.22	DHC/Dasu/CCECC/KKH-01/ zic/22-215	Arrangement of Awareness Session Regarding Communicable Diseases with Special Focus on HIV-AIDS Through Contractors Doctor.KKH-01	
38.	11.11.22	DHC/Dasu/CCECC/KKH-01/ hh/22-216	Approval of Frontier Foundry Steel (Pvt.) Ltd KKH-01	
39.	12.11.22	DHC/Dasu/CCECC/KKH-01/ bth/22-218	Nonconformities at Dasu-02(K4) Tunnel	
40.	12.11.22	DHC/Dasu/CCECC/KKH-01/ hh/22-219	Approval of SHANDONG TIANREN NEW MATERIAL CO. LTD (KKH-01)	
41.	14.11.22	DHC/Dasu/CCECC/KKH-01/ ys/22-220	Minutes of Coordination Meeting (Signed)	
42.	14.11.22	DHC/Dasu/CCECC/KKH-01/ Pls/22-221	Reminder regarding Submission of Programme for Execution of KKH-01 Contract.	
43.	15.11.22	DHC/Dasu/CCECC/KKH-01/ bth/22-222	Reply to the Contractor's clarification regarding 1-Beam Girder welding and Rock Bolts orientation at the Crown	
44.	15.11.22	DHC/Dasu/CCECC/KKH-01/ bth/22-223	Adjustments for Calibration and Programme Language of Survey Equipment used in Tunnel	
45.	15.11.22	DHC/Dasu/CCECC/KKH-01/ hhc/22-224	Weekly Progress Meeting Minutes for KKH-01- Week 46	
46.	15.11.22	DHC/Dasu/CCECC/KKH-01/ gni/22-225	Site Observation at K4 Tunnel KKH-01	
47.	16.11.22	DHC/Dasu/CCECC/KKH-01/ zic/22-226	Resumption of Quarterly Environmental Monitoring	
48.	17.11.22	DHC/Dasu/CCECC/KKH-01/ bth/22-227	Approval of Revised Method Statement for Logro-A Tunnel at KKH-01	
49.	17.11.22	DHC/Dasu/CCECC/KKH-01/ bth/22-228	Dumping of Material on Existing KKH from Dasu-02 Tunnel Outlet and Security Barrier for Worker Camp KKH-01	
50.	17.11.22	DHC/Dasu/CCECC/KKH-01/ bth/22-229	Installation of the Convergence Monitoring Points in Dasu-02 (K4) Tunnel KKH-01	
51.	18.11.22	DHC/Dasu/CCECC/KKH-01/ cad/22-230	Claim on Extension of Contractors all Risk Insurance Policy for Original Scope of Work (from 14th May 2022 to 21st July 2014)	
52.	19.11.22	DHC/Dasu/CCECC/KKH-01/ bth/22-231	Reply to Non-Conformance Site Observations by the Engineer at Dasu-02(K4) and Logro-A(K9) Tunnel	
53.	19.11.22	DHC/Dasu/CCECC/KKH-01/ hh/22-232	Quality Issues in K9 Construction Site KKH-01	
54.	20.11.22	DHC/Dasu/CCECC/KKH-01/ jf/22-233	Reply to Proposal of Uchar Camp Backfilling and Protection	
55.	23.11.22	DHC/Dasu/CCECC/KKH-01/ hh/22-234	Site Observation Dated 23-11-2022 at K4 Tunnel Primary Support Works	
56.	24.11.22	DHC/Dasu/CCECC/KKH-01/ nak/22-235	VO08 Improvement of Khoshe Access Road	
57.	28.11.22	DHC/Dasu/CCECC/KKH-01/ hh/22-236	Weekly OHS Meeting Week 47 KKH-01	
58.	30.11.22	DHC/Dasu/CCECC/KKH-01/ gni/22-238	Site Observations at K9 Tunnel Primary Support Works.KKH-01	
<b>2.4 Dasu-KKH-02</b>				
59.	04.11.22	DHC/Dasu/CGGC/KKH-02/okk/22-140	Method Statement for Earthworks During Night Shifts at KKH-02	
60.	04.11.22	DHC/Dasu/CGGC/KKH-02/okk/22-141	Method Statement for Earthworks at KKH-02	
61.	04.11.22	DHC/Dasu/CGGC/KKH-02/ohs/22-142	Ensuring Nightshift Supervision at KKH-02	
62.	05.11.22	DHC/Dasu/CGGC/KKH-02/hog/22-143	The Response to the Contractors Drill Survey Plan of the KKH-02	
63.	05.11.22	DHC/Dasu/CGGC/KKH-02/cad/22-144	Response to Reply for Seating Arrangement in Rear Body of Vehicle.KKH-02	
64.	06.11.22	DHC/Dasu/CGGC/KKH-02/zic/22-145	Submission of Revised Construction Environment Action Plan (CEAP) for KKH-02	
65.	10.11.22	DHC/Dasu/CGGC/KKH-02/zic/22-146	Arrangement of Awareness Session Regarding Communicable Diseases with Special Focus on HIV-AIDS Through Contractors Doctor.KKH-02	

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Sr. No	Date	Letter No.	Subject	Remarks
66.	07.11.22	DHC/Dasu/CGGC/KKH-02/okk/22-147	Request to Acquire the Land for Spoil Dumping Site and Contractors Temporary Facilities for KKH-02	
67.	14.11.22	DHC/Dasu/CGGC/KKH-02/DPM/22-149	Request for Proposal and Design Review for Preliminary Layout of Tunnels and Bridges	
68.	14.11.22	DHC/Dasu/CGGC/KKH-02/cad/22-150	Notification of Possible Nationwide Shortage of Oil Supply	
69.	14.11.22	DHC/Dasu/CGGC/KKH-02/hog/22-151	Comments on BoQ Item for Additional Geological Investigation for Varied Works	
70.	18.11.22	DHC/Dasu/CGGC/KKH-02/cad/22-152	Response to Letter of Inaccessibility of Equipment and Materials due to Road Problems KKH-02	
71.	18.11.22	DHC/Dasu/CGGC/KKH-02/cad/22-154	Employer's Assistance In Obtaining Approvals from State Bank of Pakistan (SBP)	
72.	18.11.22	DHC/Dasu/CGGC/KKH-02/zic/22-155	Monthly Environmental Report for October 2022	
73.	24.11.22	DHC/Dasu/CGGC/KKH-02/cad/22-158	Submission of Evidence of the Premium Paid to Insurer Against Car-Contractor's All Risk Insurance Policy	
74.	26.11.22	DHC/Dasu/CGGC/KKH-02/PDM/22-159	Request for Proposal for Construction of Tunnels and Bridges (KKH-02)	
75.	26.11.22	DHC/Dasu/CGGC/KKH-02/cad/22-161	Inaccessibility of Equipment and Materials Due to Road Problems KKH-02	
76.	28.11.22	DHC/Dasu/CGGC/KKH-02/DPM/22-162	Request for Provision of New Base Rate for Cost Estimate of Variation for Tunnels and Bridges KKH-02	
<b>2.5 Dasu TL-01</b>				
<b>Dasu Office</b>				
77.	10.11.22	DHC/Dasu/PCCC/TL-01/zic/22-179	Arrangement of Awareness Session Regarding Communicable Diseases with Special Focus on HIV-AIDS Through Contractors Doctor.TL-01	
78.	22.11.22	DHC/Dasu/PCCC/TL-01/cad/22-183	Extension of Performance Security	
79.	25.11.22	DHC/Dasu/PCCC/TL-01/mrz/22-184	Construction of Boundary wall (Brick Masonry) Around Grid Station.	
80.	26.11.22	DHC/Dasu/PCCC/TL-01/mrz/22-185	Slow Progress at Grid Station TL-01.	
81.	30.11.22	DHC/Dasu/PCCC/TL-01/mrz/22-186	Construction of Boundary Wall (Block Masonry) Around Grid Station.TL-01	
<b>2.6 Dasu MW-01</b>				
<b>Dasu Office</b>				
82.	01.11.22	DHC/Dasu/CGGC/MW-01/nk/22-557	Approval of CVC Concrete and Shotcrete Mix Designs with Low Alkali Cement (LAC) and Sobute WRA.MW-01	
83.	04.11.22	DHC/Dasu/CGGC/MW-01/jf/22-559	Request for Cost Proposal of Upstream Starter Dam.MW-01	
84.	01.11.22	DHC/Dasu/CGGC/MW-01/HUR/22-560	Minutes of Weekly Meeting 25th October 2022.MW-01	
85.	03.11.22	DHC/Dasu/CGGC/MW-01/cad/22-561	Extension of Advance Payment Guarantee.MW-01	
86.	04.11.22	DHC/Dasu/CGGC/MW-01/dn/22-562	Drawing Issue for Construction Downstream Cofferdam.MW-01	
87.	04.11.22	DHC/Dasu/CGGC/MW-01/you/22-563	Application	
88.	05.11.22	DHC/Dasu/CGGC/MW-01/dn/22-565	Drawing Issue for Construction Access Tunnel of Left Flushing Tunnel Gate Chamber.MW-01	
89.	05.11.22	DHC/Dasu/CGGC/MW-01/JF/22-566	Cost of CVC Concrete at the Left Bank End of Starter Dam Cut-Off Wall.MW-01	
90.	05.11.22	DHC/Dasu/CGGC/MW-01/JF/22-567	Additional Comments on Design of Upstream Starter Dam.MW-01	
91.	05.11.22	DHC/Dasu/CGGC/MW-01/cad/22-569	Response to Reply for Seating Arrangement in Rear Body of Vehicle.MW-01	
92.	05.11.22	DHC/Dasu/CGGC/MW-01/zic/22-570	The Engineers Comments on the Monthly Environment Report September 2022 MW-01	
93.	07.11.22	DHC/Dasu/CGGC/MW-01/jf/22-571	Comments on Method Statement of Starter Dam Cut-Off Wall (D2).MW-01	
94.	08.11.22	DHC/Dasu/CGGC/MW-01/nk/22-573	Minutes of RCC Mix Design Responsibility Meeting.MW-01	
95.	08.11.22	DHC/Dasu/CGGC/MW-01/cad/22-574	Response to Traffic Situation of KKH Road Impact on CGGC Construction.MW-01	
96.	08.11.22	DHC/Dasu/CGGC/MW-01/hur/22-575	Minutes of Weekly Meeting 1st November 2022.MW-01	
97.	09.11.22	DHC/Dasu/CGGC/MW-01/zic/22-576	The Engineer Comment on Monthly Environment Report September 2022 for MW-01	
98.	09.11.22	DHC/Dasu/CGGC/MW-01/zua/22-577	Reply to Requesting the Engineer to Designate a Dedicated HSS Engineer MW-01	
99.	10.11.22	DHC/Dasu/CGGC/MW-01/pls/22-578	Comments on R4D12 Program of MW-01	
100.	10.12.22	DHC/Dasu/CGGC/MW-01/zic/22-580	Arrangement of Awareness Session Regarding Communicable Diseases with Special Focus on HIV-AIDS Through Contractors Doctor.MW-01	
101.	11.11.22	DHC/Dasu/CGGC/MW-01/jf/22-581	Reply for Proposal of Conventional Concrete for Upstream Starter Dam Cutoff Wall.MW-01	
102.	11.11.22	DHC/Dasu/CGGC/MW-01/mrz/22-582	Commercial Proposal of Power Supply System for Uchar 1# Batching Plant and 1# Crushing Plant.MW-01	
103.	12.11.22	DHC/Dasu/CGGC/MW-01/jf/22-583	Submission of the Drawing and Calculation of Diversion Water Dyke (02)	
104.	12.11.22	DHC/Dasu/CGGC/MW-01/hur/22-584	Start of Construction of Upstream Starter Dam- MW-01	
105.	12.11.22	DHC/Dasu/CGGC/MW-01/cad/22-585	Notification of Possible Nationwide Shortage of Oil Supply	
106.	13.11.22	DHC/Dasu/CGGC/MW-01/jf/22-586	General Layout of Transportation and Lifting of Diversion Tunnel Gate and Hoist R2 (HSS)	
107.	13.11.22	DHC/Dasu/CGGC/MW-01/you/22-587	Advisory Notice	
108.	13.11.22	DHC/Dasu/CGGC/MW-01/you/22-588	Advisory Notice	
109.	13.11.22	DHC/Dasu/CGGC/MW-01/cad/22-589	Provision of Power Supply to No.1 Crushing Plant and NO.1 Batching Plant	
110.	13.11.22	DHC/Dasu/CGGC/MW-01/hur/22-590	Construction of Watch Towers Sentry Posts Crushing Plant at Uchar Site- MW-01	
111.	14.11.22	DHC/Dasu/CGGC/MW-01/mrz/22-591	Commercial Proposal of Power Supply System for Uchar 1# Batching Plant and 1# Crushing Plant	
112.	14.11.22	DHC/Dasu/CGGC/MW-01/hh/22-592	Approval of CVC Concrete and Shotcrete Mix Designs with Low Alkali Cement (LAC) and SIKa WRA	
113.	15.11.22	DHC/Dasu/CGGC/MW-01/hur/22-594	LOGRO area Land Possession for Contract ICB NO. DASU-MW-01	
114.	15.11.22	DHC/Dasu/CGGC/MW-01/hur/22-595	Minutes of Weekly Meeting 8th November 2022- MW-01	
115.	16.11.22	DHC/Dasu/CGGC/MW-01/cad/22-596	Variation for the Provision of Power Supply to No.1 Crushing Plant and No.1 Batching Plant.	
116.	17.11.22	DHC/Dasu/CGGC/MW-01/jf/22-597		



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Sr. No	Date	Letter No.	Subject	Remarks
117.	17.11.22	DHC/Dasu/CGGC/MW-01/jf/22-598	DHPP Reply for Installation Manual Modified Description for Guide Frames of Diversion gate MW-01	
118.	17.11.22	DHC/Dasu/CGGC/MW-01/dn/22-599	Comments on Submission of Drawings and Calculation for Retaining Wall on No.2 Crushing Plant Opposite Diversion Tunnel Outlets NW-01	
119.	18.11.22	DHC/Dasu/CGGC/MW-01/dn/22-601	Comments on Submission of Structural Calculation and Concrete Outline Drawings of Diversion Tunnel Inlet Hoist Frame MW-01	
120.	18.11.22	DHC/Dasu/CGGC/MW-01/cad/22-603	Response to Letter of Inaccessibility of Equipment and Materials due to Road Problems MW-01	
121.	18.11.22	DHC/Dasu/CGGC/MW-01/zic/22-605	Your submission of Profile and certificate of Third Party Company	
122.	18.11.22	DHC/Dasu/CGGC/MW-01/zua/22-606	Reply to the Public Road Maintenance in RB Cable Crane Platform (MW-01)	
123.	21.11.22	DHC/Dasu/CGGC/MW-01/OHS/22-608	OHS NCR Closure MW-01	
124.	20.11.22	DHC/Dasu/CGGC/MW-01/ks/22-610	Reply to Diversion Tunnel Gate and Guide Frame Calculation 04 (HSS)	
125.	24.11.22	DHC/Dasu/CGGC/MW-01/zua/22-612	Instruction of Daywork Order for Transfer the Graves from the Kass Camp (MW-01)	
126.	24.11.22	DHC/Dasu/CGGC/MW-01/zua/22-613	Confirmation Regarding Utilization of Kass Spoil Area by CCECC MW-01	
127.	25.11.22	DHC/Dasu/CGGC/MW-01/dn/22-614	Comments on Submission of Design Documents of Cable Crane (Revision 7)	
128.	24.11.22	DHC/Dasu/CGGC/MW-01/jf/22-615	Daywork for Removing Shotcrete of Diversion Outlet	
129.	25.11.22	DHC/Dasu/CGGC/MW-01/jf/22-616	Reminder of Submission of Request for Varied Works for Permanent Access Roads and Construction Access Roads in Left Bank MW-01	
130.	25.11.22	DHC/Dasu/CGGC/MW-01/jf/22-617	Reminder of Submission of Request for Varied Works for Diversion Gates and Hoists	
131.	25.11.22	DHC/Dasu/CGGC/MW-01/jf/22-618	Method Statement of Pouring Second Stage Concrete for Embedded Sill Beam	
132.	25.11.22	DHC/Dasu/CGGC/MW-01/zua/22-619	Minutes of Weekly & Monthly Progress Meeting 15th November 2022	
133.	26.11.22	DHC/Dasu/CGGC/MW-01/cad/22-620	Inaccessibility of Equipment and Materials Due to Road Problems MW-01	
134.	26.11.22	DHC/Dasu/CGGC/MW-01/dn/22-621	Drawing issue for Construction Additional Outlets Excavation MW-01	
135.	26.11.22	DHC/Dasu/CGGC/MW-01/nk/22-622	Approval of Shotcrete Mix Design (Class C40)1 (MW-01)	
136.	28.11.22	DHC/Dasu/CGGC/MW-01/cad/22-623	CGGC's Comments on Engineer's Response to Traffic Situation of KKH Road Impact on CGGC's Construction	
137.	26.11.22	DHC/Dasu/CGGC/MW-01/cad/22-624	Submission of the Drawing and Calculation of Diversion Water Dyke (D2)	
138.	26.11.22	DHC/Dasu/CGGC/MW-01/cad/22-625	Resuming Normal Traffic on Kaval Bridge, MW-01	
139.	28.11.22	DHC/Dasu/CGGC/MW-01/jf/22-626	Reply HSS Processing Plant General Layout R3 (HSS) (MW-01)	
140.	29.11.22	DHC/Dasu/CGGC/MW-01/nk/22-627	Installation of Fence Around Available Land for Construction of RCC Batching Plant at Siglo Area.MW-01	
141.	29.11.22	DHC/Dasu/CGGC/MW-01/zua/22-628	Approval of Tendon Grout Mix Design MW-01	
142.	30.11.22	DHC/Dasu/CGGC/MW-01/cad/22-629	Overall Progress and Status of Procurement of Generators Accessories and Civil Works-	
143.	30.11.22	DHC/Dasu/CGGC/MW-01/nk/22-630	Approval of Steel Wire Manufacturer KB Steel Industries MW-01	
<b>2.7 Dasu MW-02</b>				
<b>Dasu Office</b>				
144.	01.11.22	DHC/Dasu/CGGC/MW-02/nk/22-459	Approval of CVC Concrete and Shotcrete Mix Designs with Low Alkali Cement (LAC) and Sobute WRA MW-02	
145.	03.11.22	DHC/Dasu/CGGC/MW-02/mgc-cad/22-460	Response to Reply for Seating Arrangement in Rear Body of Vehicle.MW-02	
146.	03.11.22	DHC/Dasu/CGGC/MW-02/MWIS-MGC/22-461	Response to the Contractors Ventilation Plan for MW-02 Underground Works	
147.	03.11.22	DHC/Dasu/CGGC/MW-02/cad/22-462	Extension of Advance Payment Guarantee.MW-02	
148.	05.11.22	DHC/Dasu/CGGC/MW-02/dn/22-463	Issue of Construction Drawings for MW-02 GIL Tunnel.MW-02	
149.	04.11.22	DHC/Dasu/CGGC/MW-02/MWIS/MGC/22-464	Exhaust Shaft Vertical Drilling with Drill Rig.MW-02	
150.	05.11.22	DHC/Dasu/CGGC/MW-02/MGC/cad/22-465	Response to Notice of Claim Regarding Underground Powerhouse Ventilation Systems.MW-02	
151.	05.11.22	DHC/Dasu/CGGC/MW-02/zic/22-466	The Engineers Comments on the Monthly Environment Report September 2022 for MW-02	
152.	10.11.22	DHC/Dasu/CGGC/MW-02/zic/22-468	Arrangement of Awareness Session Regarding Communicable Diseases with Special Focus on HIV-AIDS Through Contractors Doctor.MW-02	
153.	10.11.22	DHC/Dasu/CGGC/MW-02/zic/22-469	Contractors Environment Monthly Progress Report September 2022-The Engineer Comments.MW-02	
154.	12.11.22	DHC/Dasu/CGGC/MW-02/ cad/22-470	Notification of Possible Nationwide Shortage of Oil Supply	
155.	14.11.22	DHC/Dasu/CGGC/MW-02/ ys/22-471	Minutes of Coordination Meeting (Signed) MW-02	
156.	14.11.22	DHC/Dasu/CGGC/MW-02/ hh/22-472	Approval of CVC Concrete and Shotcrete Mix Designs with Low Alkali Cement (LAC) and SIKKA WRA	
157.	15.11.22	DHC/Dasu/CGGC/MW-02/ pls/22-473	Submission of the Revised Contract Programme R5-D11 of MW-02	
158.	17.11.22	DHC/Dasu/CGGC/MW-02/ Ohs/22-474	OHS NCR Closure MW-02	
159.	18.11.22	DHC/Dasu/CGGC/MW-02/ cad/22-475	Response to Letter of Inaccessibility of Equipment and Materials due to Road Problems MW-02	
160.	18.11.22	DHC/Dasu/CGGC/MW-02/ zic/22-476	Your submission of Profile and certificate of Third Party Company	
161.	21.11.22	DHC/Dasu/CGGC/MW-02/ ohs/22-479		
162.	24.11.22	DHC/Dasu/CGGC/MW-02/ td/22-480	Issue of Construction Drawing for MW-02	
163.	26.11.22	DHC/Dasu/CGGC/MW-02/ cad/22-481	Inaccessibility of Equipment and Materials Due to Road Problems MW-02	
164.	26.11.22	DHC/Dasu/CGGC/MW-02/ nk/22-482	Approval of Shotcrete Mix Design (Class C40), (MW-02)	
165.	28.11.22	DHC/Dasu/CGGC/MW-02/ cad/22-483	Suspension of Work to MW-02 Contract (MW-02)	
166.	29.11.22	DHC/Dasu/CGGC/MW-02/ nk/22-485	Approval of Tendon Grout Mix Design MW-02	
167.	30.11.22	DHC/Dasu/CGGC/MW-02/ cad-mgc/22-486	Response to Claim Analysis Report of Underground Powerhouse and Tunnel Ventilation Systems.MW-02	
168.	30.11.22	DHC/Dasu/CGGC/MW-02/ nk/22-487	Approval of Steel Wire Manufacturer KB Steel Industries MW-02	
<b>2.8 Dasu-LBRV-11</b>				
<b>Dasu Office</b>				
169.	01.11.22	DHC/Dasu/ZEGL/LBRV-11/CAD/22-103	Extension of Workmen Insurance Policy.LBRV-11	

**Dasu Hydropower Project**  
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**Appendix E [19/20]**

Sr. No	Date	Letter No.	Subject	Remarks
170.	07.11.22	DHC/Dasu/ZEGL/LBRV-11/CAD/22-104	Claim LBRV-11-C-10-The Engineers Response to the Contractors 3rd Interim Idle Cost Claim (March 2022-October 2022).LBRV-11	
171.	13.11.22	DHC/Dasu/ZEGL/LBRV-11/CAD/22-105	Extension of Performance Security LBRV-11	
172.	15.11.22	DHC/Dasu/ZEGL/LBRV-11/PLS/22-106	Second Extension of Time for LBRV-11 Contract.	
173.	16.11.22	DHC/Dasu/ZEGL/LBRV-11/cad/22-107	Extension of Workmen Insurance Policy	
174.	20.11.22	DHC/Dasu/ZEGL/LBRV-11/cad/22-108	Extension of Performance Security	
<b>2.9 Dasu LBRV-12</b>				
<b>Dasu office</b>				
175.	01.11.22	DHC/Dasu/ZEGL/LBRV-12/CAD/22-058	Extension of Workmen Insurance Policy.LBRV-12	
176.	01.11.22	DHC/Dasu/ZEGL/LBRV-12/CAD/22-059	Extension of performance Security.LBRV-12	
177.	15.11.22	DHC/Dasu/ZEGL/LBRV-12/PLS/22-061	Second Extension of Time for LBRV-12 Contract.	
178.	18.11.22	DHC/Dasu/ZEGL/LBRV-12/cad/22-062	Extension of Workmen Insurance Policy	
179.	20.11.22	DHC/Dasu/ZEGL/LBRV-12/cad/22-063	Extension of Performance Security	
<b>2.11 Dasu-PCI-01R</b>				
<b>Dasu Office</b>				
180.	03.11.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-274	Resumption of Construction Work at Main Septic Tank-A in Project Colony Near KKH-01	
181.	03.11.22	DHC/Dasu/CGICOP/PCI-01R/hh/22-275	Approval of Base Course Material PCI-01R	
182.	03.11.22	DHC/Dasu/CGICOP/PCI-01R/hh/22-276	Approval of Sand from M-S ZKF Enterprise Limited.PCI-01R	
183.	05.11.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-278	Window Safety Grills in Colony Buildings.PCI-01R	
184.	06.11.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-279	Provision of Railings Channels for Drawers of the Wardrobe (Woodwork) for Residence Category-1 Buildings.PCI-01R	
185.	06.11.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-280	Approval of Shop Drawings for Boundary Wall in Residence Category-2 and Cat-3 Buildings.PCI-01R	
186.	09.11.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-282	Slow Progress and Insufficient Resources at Available Work Fronts to Complete the Project Colony.PCI-01R	
187.	09.11.22	DHC/Dasu/CGICOP/PCI-01R/mrz/22-283	Request for Cables Manufacture Approval of MS NEWAGE CABLES for the WAPDA Project Colony.PCI-01R	
188.	09.11.22	DHC/Dasu/CGICOP/PCI-01R/snr/22-284	Notice for Delay in Provision of Color Shade Codes for All MS Works and Boundary Wall of All Remaining Buildings.PCI-01R	
189.	10.11.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-285	Reply to Notice for Delay in Provision of Additional Rainwater Drainage System Drawings for the Residence Category-2.PCI-01R	
190.	11.11.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-286	Reply to Instructions to Commence the Varied Works for Slope Protection at Choochang-1 Resettlement Village	
191.	12.11.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-288	Erosion of Areas between the Colony Boundary Wall and the KKH-01	
192.	13.11.22	DHC/Dasu/CGICOP/PCI-01R/cad/22-289	Contractor's Cost Proposal for Temporary Water Supply Arrangement for Project Office and Residence Category-01	
193.	14.11.22	DHC/Dasu/CGICOP/PCI-01R/hh/22-290	Approval of Sub Base Material, PCI-01 R	
194.	17.11.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-291	Spoil Dumping Area for Excavated Material of Slope Protection Works at RV Choochang 01 site PCI-01R	
195.	21.11.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-292	Spoil Dumping Area for Excavated Material (PC I 01 R)	
196.	20.11.22	DHC/Dasu/CGICOP/PCI-01R/cad/22-293	Notice of Force Majeure under GCC Sub-Clause 19.2 for Blockage of Main KKH	
197.	21.11.22	DHC/Dasu/CGICOP/PCI-01R/mrz/22-294	Request for Switches Supplier Approval of MS TJ SWITCHES Manufacturer & Supplier PCI-01R	
198.	22.11.22	DHC/Dasu/CGICOP/PCI-01R/Pls/22-295	Comments on the 2d Extension of Time (EoT -2) of PCI-01 R Contract	
199.	23.11.22	DHC/Dasu/CGICOP/PCI-01R/mrz/22-297	Reminder 1- Procurement of Cables and Conductors for the Wapda Project Colony	
200.	24.11.22	DHC/Dasu/CGICOP/PCI-01R/mrz/22-298	Delay in External Electrification work for the WAPDA Project Colony	
201.	26.11.22	DHC/Dasu/CGICOP/PCI-01R/cad/22-301	Notice of Force Majeure under GCC Sub-Clause 19.2 for Blockage of Main KKH	
202.	26.11.22	DHC/Dasu/CGICOP/PCI-01R/mrz/22-302	Request for Cables Supplier Approval of Ms Allied Cables Manufacturer & supplier for the WAPDA Project Colony PCI-01R	
203.	28.11.22	DHC/Dasu/CGICOP/PCI-01R/infra/22-303	Use of Immature Concrete Blocks in Masonry Works PCI-01R	
204.	29.11.22	DHC/Dasu/CGICOP/PCI-01R/cad/22-304	Response to Contractors Notice of force Majeure Under Sub-Clause 19.2 Due to Non-Availability of Diesel in the Market Under Sub-Clauses 8.3 8.4 19 and 20.1.PCI-01R	
<b>2.12 Dasu RV</b>				
<b>Dasu Office</b>				
205.	01.11.22	DHC/Dasu/KGL/RV/CAD/22-077	Request for Extension of performance Security Guarantee. RV	
206.	11.11.22	DHC/Dasu/KGL/RV/Infra/22-078	Development of Plots and Road from 0+280 to 0+413.RV	
207.	16.11.22	DHC/Dasu/KGL/RV/cad/22-079	Price Adjustment Formula	
208.	17.11.22	DHC/Dasu/KGL/RV/cad/22-080	Changes in the Contract Price - Clause 37	
209.	24.11.22	DHC/Dasu/KGL/RV/cad/22-081	Extension of the Contractor's Insurance Policies	
210.	26.11.22	DHC/Dasu/KGL/RV/cad/22-082	Extension of the Contractor's Insurance Policies	
<b>2.13 EM-01</b>				
<b>Dasu Office</b>				
211.	01.11.22	DHC/Dasu/GEPC/EM-01/sn/22-369	General Technical Description for Equipment Earthing.EM-01	
212.	01.11.22	DHC/Dasu/GEPC/EM-01/sn/22-370	Modification the Doc. Status of Generator PID.EM-01	
213.	03.11.22	DHC/Dasu/GEPC/EM-01/cad/22-373	Submission of the Revised Master List.EM-01	
214.	04.11.22	DHC/Dasu/GEPC/EM-01/cad/22-374	Clarification of Applicable Contract Provision for Changing Coordination Events.EM-01	
215.	01.11.22	DHC/Dasu/GEPC/EM-01/sn/22-375	Generator Collector Ring Cover and Carbon Dust Suction Cover.EM-01	
216.	03.11.22	DHC/Dasu/GEPC/EM-01/cad/22-376	Confirmation Request for Manufacturing and Delivery Schedule Adjustment and Way Forward due to the Change of Coordination Events.EM-01	
217.	04.11.22	DHC/Dasu/GEPC/EM-01/sn/22-377	Mechanical Drawing of 440t-60t Powerhouse Overhead Crane.EM-01	

**Dasu Hydropower Project**  
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**Appendix E [20/20]**

Sr. No	Date	Letter No.	Subject	Remarks
218.	05.11.22	DHC/Dasu/GEPC/EM-01/zic/22-380	Submission of Revised CEAP Document by the Contract JV (GE-PC JV) EM-01	
219.	05.11.22	DHC/Dasu/GEPC/EM-01/cad/22-381	Notice of Claim Due to Change of Coordination Events.EM-01	
220.	08.11.22	DHC/Dasu/GEPC/EM-01/cad/22-383	Permission to Deliver of Pipes and Accessories.EM-01	
221.	08.11.22	DHC/Dasu/GEPC/EM-01/cad/22-385	Further Clarification on Labor Index in the Contract Price Adjustment.EM-01	
222.	08.11.22	DHC/Dasu/GEPC/EM-01/cad/22-386	Record of Contractors Personnel.EM-01	
223.	10.11.22	DHC/Dasu/GEPC/EM-01/ys/22-387	Joint Visit and Inspection of Remaining for EM-01 Camp Area at Kass	
224.	10.11.22	DHC/Dasu/GEPC/EM-01/cad/22-389	Claim No.EM-01-C-02 Contractors Final Claim Report for Delayed Handing Over of Camp Area (4.442ha) EM-01	
225.	10.11.22	DHC/Dasu/GEPC/EM-01/sn/22-390	Revised 11Kv Single Line Diagram (Rev.B).EM-01	
226.	12.11.22	DHC/Dasu/GEPC/EM-01/sn/22-391	Reply on No. 0424 and Operator Console Lay Out	
227.	11.11.22	DHC/Dasu/GEPC/EM-01/sn/22-392	Clarification of Unit Cooling Water System	
228.	12.11.22	DHC/Dasu/GEPC/EM-01/YS/22-393	Information of Remaining Land at Kass Area	
229.	12.11.22	DHC/Dasu/GEPC/EM-01/Sn/22-395	Turbine Auxiliary Panel and Shaft Seal Water Filter Layout	
230.	14.11.22	DHC/Dasu/GEPC/EM-01/cad/22-396	Approval of Temporary Storage Space at Ghazi Barotha Power Complex for E&M Equipment of Dasu HPP	
231.	15.11.22	DHC/Dasu/GEPC/EM-01/cad/22-397	Addition of Suppliers to the Agreed Schedule T-4 Manufacturers and Sub-Contractor's	
232.	16.11.22	DHC/Dasu/GEPC/EM-01/cad/22-398	Employer's Inspection Certificate No. 5 for Pipes and Accessories.	
233.	16.11.22	DHC/Dasu/GEPC/EM-01/cad/22-399	Request for Clarification on Communication Protocol EM-01	
234.	18.11.22	DHC/Dasu/GEPC/EM-01/sn/22-400	Dasu Submission of Technical Measures for Installation	
235.	22.11.22	DHC/Dasu/GEPC/EM-01/sn/22-401	Design Drawings of Turbine Embedded and Exposed Piping	
236.	24.11.22	DHC/Dasu/GEPC/EM-01/sn/22-402	Spare Parts List of CPCS System	
237.	25.11.22	DHC/Dasu/GEPC/EM-01/sn/22-403	General Technical Description for Equipment Earthing (Rev.A)	
238.	25.11.22	DHC/Dasu/GEPC/EM-01/sn/22-405	Dasu Detailed Design Drawing of Turbine Guide Bearing	
239.	25.11.22	DHC/Dasu/GEPC/EM-01/sn/22-406	NTDC Reference Specification of Substation Equipment	
240.	26.11.22	DHC/Dasu/GEPC/EM-01/sn/22-407	Turbine Foundation Load Calculation submission for Approval	
241.	26.11.22	DHC/Dasu/GEPC/EM-01/sn/22-408	Dasu Generator Oil Mist Suction Assembly for Approval	
242.	28.11.22	DHC/Dasu/GEPC/EM-01/sn/22-409	Revised Mechanical Drawings of Main Inlet Valve for Approval EM-01	
243.	28.11.22	DHC/Dasu/GEPC/EM-01/sn/22-410	Clarification of CPCS Cubicle Specification and Station Aux LCU	
244.	28.11.22	DHC/Dasu/GEPC/EM-01/sn/22-411	Reply to Unit Selection of Turbine Thermodynamic Efficiency Test.EM-01	
245.	29.11.22	DHC/Dasu/GEPC/EM-01/sn/22-412	Generators Stator RTD Installation Pit Lighting and Space Heater Arrangement.EM-01	
<b>2.15 Dasu LADP-MI-1</b>				
<b>Dasu Office</b>				
246.	04.11.22	DHC/Dasu/KGL/MI-1/mfn/22-077	LADP-RHC-Certificate of Substantial Completion for Ten (10) Blocks	
<b>2.15 Dasu LADP-MI-2</b>				
<b>Dasu Office</b>				
247.	03.11.22	DHC/Dasu/KGL/MI-2/njm/22-044	LADP-JMK-Tuff Pavers	
248.	03.11.22	DHC/Dasu/KGL/MI-2/njm/22-045	LADP-JMK-Rate Analysis of Roof Treatment	
249.	02.11.22	DHC/Dasu/KGL/MI-2/OHS/22-046	OHS NCR Closure.MI-2	
250.	04.11.22	DHC/Dasu/KGL/MI-2/mfn/22-048	046-04.11.22-LADP-JMK-Design Changes	
<b>2.16 Dasu LADP SA-01</b>				
<b>Lahore Office</b>				
<b>Dasu Office</b>				
251.	23.11.22	DHC/Dasu/KGL/SA-01/mfn/ 22-082	Contractor's Project Manager	
252.	26.11.22	DHC/Dasu/KGL/SA-01/zia/ 22-085	Deductions in Interim Payment Certificate (SA-01)	
253.	26.11.22	DHC/Dasu/KGL/SA-01/zia/ 22-086	Relocation of Culvert, Sanitation and Sewerage system for Komila and Dasu	
<b>2.17 DASU LADP PKG-01</b>				
<b>Dasu Office</b>				
254.	07.11.22	DHC/Dasu/IKAN/PKG-01/ahs/22-050	LADP-PKG-01-Reminder for Ambient Air and Noise Monitoring	
255.	17.11.22	DHC/Dasu/IKAN/PKG-01/mfn/22-052	Utilization of Advance Payment PKG-01	
256.	19.11.22	DHC/Dasu/IKAN/PKG-01/ahs/22-053	Absence of ESHS Officer from the Site	
257.	21.11.22	DHC/Dasu/IKAN/PKG-01/mfn/22-054	Right of Way at RDs 0+460 to 0+500 & 0+930 to 1+050	
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# **APPENDIX F**

## **Detail of Interim Payment Certificates**

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**Appendix F: Details of Interim Payment Certificates**

**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		
				Local Currency	Foreign Currency	Due Date
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	17-Aug-18
4	09-Jun-19	4	04-Jul-19	76,716,800	732,093.22	28-Feb-19
5	25-Jul-19	5	18-Aug-19	145,629,996	1,363,149.96	04-Aug-19
6	26-Sep-19	6	23-Oct-19	248,905,635	2,214,513.54	19-Sep-19
7	10-Dec-19	7	06-Jan-20	629,914,484	5,895,127.76	21-Nov-19
8	10-Feb-20	8	27-Feb-20	206,824,646	1,757,372.29	04-Feb-20
9	06-Apr-20	9	04-May-20	365,752,539	3,245,285.91	06-Apr-20
10	13-Jun-20	10	11-Jul-20	382,303,496	2,880,146.95	01-Jun-20
11	05-Aug-20	11	02-Sep-20	252,654,881	2,252,835.97	08-Aug-20
12	16-Sep-20	12	09-Oct-20	458,055,284	3,898,125.46	30-Sep-20
13	12-Nov-20	13	10-Dec-20	521,447,309	4,746,372.92	11-Nov-20
14	16-Dec-20	14	12-Jan-21	109,355,876	1,157,321.96	07-Jan-21
15	18-Jan-21	15	12-Feb-21	158,129,043	1,570,752.84	10-Feb-21
16	23-Feb-21	16	19-Mar-21	336,954,470	2,658,901.26	15-Mar-21
17	16-Apr-21	17	04-May-21	407,082,473	8,331,836.66	20-Apr-21
18	20-May-21	18	14-Jun-21	762,466,613	6,311,057.52	11-Jun-21
19	21-Jun-21	19	14-Jul-21	425,023,542	4,493,780.63	15-Jul-21
20	26-Jul-21	20	19-Aug-21	226,133,481	2,044,283.79	16-Aug-21
21	25-Aug-21	21	20-Sep-21	480,881,765	4,269,721.44	20-Sep-21
22	29-Sep-21	22	25-Oct-21	4,185,117	39,112.22	20-Oct-21
23	21-Nov-21	23	20/12/2021	821,193,512	9,251,540.73	24-Nov-21
24	26-Dec-21	24	07-Feb-22	679,713,623	6,015,133.50	16-Jan-22
25	29-Jan-22	25	28-Feb-22	321,933,884	2,945,172.60	20-Feb-22
26	02-Mar-22	26	28-Mar-22	131,974,383	1,251,829.96	26-Mar-22
27	28-Mar-22	27	24-Apr-22	159,376,817	1,607,294.43	27-Apr-22
28	16-Apr-22	28	18-May-22	362,635,724	2,112,719.95	23-May-22
29	21-Jun-22	29	22-Jul-22	192,432,354	1,429,597.79	11-Jun-22
30	20-Jul-22	30	18-Aug-22	208,902,264	1,700,738.92	16-Aug-22
31	22-Aug-22	31	20-Sep-22	309,574,151	1,793,501.06	14-Sep-22
32	18-Oct-22	32	18-Nov-22	330,721,543	2,483,232.94	17-Oct-22
32	18-Oct-22	32	18-Nov-22	330,721,543	2,483,232.94	13-12-222

**Total Amount in LC & FC (1USD = 104.3 PKR) (LC 50:FC 50)** **15,491,708,240**      **149,822,278**

Total Amount Certified including LC & FC (Rs.) 31,118,171,798.90

**Accepted Contract Amount** **115,003,461,240**

**Disbursement Progress with respect to ACA** **27.06%**

Details of Interim Payment Certificates of MW-02 – Contractor CGGC						
Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		
				Local Currency	Foreign Currency	Due Date
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	17-Aug-18
4	09-Jun-19	4	02-Jul-19	71,107,206	626,942.03	28-Feb-19
5	25-Jul-19	5	18-Aug-19	4,908,345	33,396.51	04-Aug-19
6	02-Oct-19	6	19-Oct-19	77,803,163	676,690.06	19-Sep-19
7	03-Dec-19	7	31-Dec-19	380,055,185	3,487,658.38	27-Nov-19
8	31-Jan-20	8	22-Feb-20	116,606,355	943,411.40	28-Jan-20
9	06-May-20	9	19-May-20	169,704,055	1,210,335.38	27-Mar-20
10	22-Jun-20	10	22-Jul-20	81,144,101	392,991.96	01-Jul-20
11	05-Aug-20	11	02-Sep-20	94,947,361	765,644.82	17-Aug-20
12	16-Sep-20	12	09-Oct-20	155,265,987	1,065,922.39	30-Sep-20
13	12-Nov-20	13	10-Dec-20	76,094,960	641,343.79	11-Nov-20
14	16-Dec-20	14	12-Jan-21	91,489,465	788,644.78	07-Jan-21
15	18-Jan-21	15	12-Feb-21	2,196,767	151,795.03	10-Feb-21
16	23-Feb-21	16	19-Mar-21	95,214,311	336,914.48	15-Mar-21
17	16-Apr-21	17	04-May-21	151,300,083	2,746,114.01	20-Apr-21
18	20-May-21	18	14-Jun-21	155,713,668	968,699.57	11-Jun-21
18	20-May-21	18	14-Jun-21	155,713,668	968,699.57	15-Jul-21

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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

**Total Amount in LC & FC (1USD = 104.3 PKR) (LC 50:FC 50)** 5,893,982,813 49,437,089.92

*Total Amount Certified including LC & FC (Rs.)* 11,050,271,291.66

**Accepted Contract Amount** **64,426,426,087**

**Disbursement Progress with respect to ACA** **17.15%**

**Details of Interim Payment Certificates of EM-01 – Contractor GE-PC JV**

Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		
				Local Currency	Foreign Currency	Due Date
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

**Total Amount in LC & FC** 480,570,192 26,105,822

**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**

**Details of Interim Payment Certificates of PCI-01R – Contractor CGCIOP**

Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		
				Local Currency	Foreign Currency	Due Date
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

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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

**Total Amount in LC & FC (1USD = 105.55 PKR) (LC 70: FC 30)** 1,987,140,483 6,500,676

Total Amount Certified including LC & FC (Rs.) 2,673,286,796

**Accepted Contract Amount** **4,900,000,009**

**Disbursement Progress with respect to ACA** **54.56%**

**Details of Interim Payment Certificates of KKH-01 – Contractor CCECC**

Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		
				Local Currency	Foreign Currency	Due Date
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		
				Local Currency	Foreign Currency	Due Date
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

**Total Amount in LC & FC (1USD = 104.445 PKR) (LC 60:FC 40)** 2,146,910,052 10,590,008

Total Amount Certified including LC & FC (Rs.) 3,252,983,437.56

**Accepted Contract Amount** **16,264,917,100**

**Disbursement Progress with respect to ACA** **20.00%**

**Details of Interim Payment Certificates of RAR-01 – Contractor CCECC**

Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		
				Local Currency	Foreign Currency	Due Date
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
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



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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	8,536,170.00	01-Dec-22

**Total Amount in LC & FC (1USD=100.73PKR) (LC70:FC30)**

**1,354,804,989**

**14,141,479**

Total Amount Certified including LC & FC (Rs.)

**2,779,276,198**

**Accepted Contract Amount**

**2,713,972,595**

**Disbursement Progress with respect to ACA**

**102.41%**

**Details of Interim Payment Certificates of RAR-02 – Contractor CGGC**

Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		
				Local Currency	Foreign Currency	Due Date
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**

**4,052,449**

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		
				Local Currency	Foreign Currency	Due Date
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

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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
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**

Details of Interim Payment Certificates of RV – Contractor KGL						
Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		
				Local Currency	Foreign Currency	Due Date
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%**

Details of Interim Payment Certificates of LBRV-11 – Contractor M/s Zongmei						
Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		
				Local Currency	Foreign Currency	Due Date
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

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**Appendix F [6/6]**

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 3,012,880

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%**

**Details of Interim Payment Certificates of LBRV-12 – Contractor M/s Zongmei**

Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		
				Local Currency	Foreign Currency	Due Date
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 2,490,060

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%**

**Details of Interim Payment Certificates of RBRV-11 – Contractor M/s CR17B**

Sr. No.	Application Received	IPC number	IPC's Issued Date	Amount Certified		
				Local Currency	Foreign Currency	Due Date
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)** 54,937,530 182,814

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 Unification 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.</b> <b>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, Contractor'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					The Engineer acknowledged and 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:16-043)</b> <b>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					The Engineer acknowledged and asked the contractor to submit full and detailed particulars according to sub clause 20.1 "Contractor's Claim" via <b>DHC letter dated 11/05/2016 (Ref: 16-051)</b> <b>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					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 23-05-2016 (Ref:16-060)</b> <b>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		-		The principle of the Contractor's claim is disapproved. <b>DHC letter - dated 9-Aug-2017.(Ref:028)</b> <b>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.					The Engineer acknowledged and asked the contractor to submit full and detailed particulars according to sub clause 20.1 "Contractor's Claim" via <b>DHC letter dated 20-07-2016 (Ref:16-086)</b> <b>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					The Engineer acknowledged and asked the contractor to submit full and detailed particulars via



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								DHC letter - dated 31-August-2022 (Ref:134) Contractor's substantiation awaited
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								DHC letter - dated 01-September-2022 (Ref:135) Contractor's substantiation awaited
<b>Details of Claims/Notifications of RAR-01 – Contractor CCECC</b>										
1	RAR-01/C1-C4 Unfication of C-1 and C-4 Disruption and Delay in Site Possession		104,304,865		-					The Engineer's replied dated 20/07/2017. Principle of claim was approved. <b>Contractor's substantiation for Additional cost awaited.</b> <b>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 DHC letter DHC/DASU/WAPDA.RAR-01/PM/22-098 <b>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. DHC letter - dated 1-Jun-2019 (Ref:161). 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				the Engineer issued his assessment/determination on 12-04-2022
2	RAR-01/C-05 Force Majeure-Heavy Rainfal and Land sliding	On 11/04/2016 the Contractor notified claim for extension of time and additional cost due to haevy rainfal and land sliding (Force Majuere)								The Engineer 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:16-029) <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". DHC letter - dated: 24-05-2016 <b>Contractor's substantiation awaited</b>



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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					<i>The Engineer asked the Contractor to submit full and detailed particulars according to sub clause 20.1 "Contractor's Claim" via DHC letter - dated 17-10-2016 (Ref:16-080)</i> <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					<i>The Engineer asked the Contractor to submit full and detailed particulars according to sub clause 20.1 "Contractor's Claim" via DHC letter - dated 03-08-2017 (Ref:17-017)</i> <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. <i>DHC letter - dated: 08-03-2019 (Ref:042)</i> <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. <i>DHC letter - dated: 4-9-2019 (Ref:168)</i> <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]					<i>DHC letter - dated 12-Oct-2019 (Ref:202)</i> <b>Contractor's substantiation awaited</b>
9	RAR-01/C-12 Claim due to outbreak of ·Corina Virus (2019-nCoV)	On <b>15/07/2020</b> 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 24-July-2020 (Ref:124)</i> <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.					<i>DHC letter - dated 29-June-2020 (Ref:104)</i> <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					<i>DHC letter - dated 24-Aug-2021 (Ref:096)</i> <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.					<i>DHC letter- dated 27th Dec 2021 (Ref: 137)</i> <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					<i>DHC letter-dated 08-Sep-2021 (Ref:105)</i> <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					<i>DHC letter-dated 02-June-2022 (Ref:054)</i> <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					<i>DHC letter - dated 31-August-2022 (Ref:076)</i> <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					<i>DHC letter - dated 01-September-2022 (Ref:077)</i> <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</b> . <b>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 relieved on <b>5-8-2019</b> . <b>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</b> . <b>Claim Paid.</b>

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	TL-01/C-1 2nd Interim claim 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 April 2018 to April 2020	149,088,173		119,786,095		Employer's approval to pay recieved on 31-1-22. <b>Claim Paid.</b>
	Chinese Staff's Social Insurance	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.					<b>DHC/Dasu/PCCC/TL-01/rar/21-049 dated 15th April 2021</b> 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</b> . <b>Claim Disapproved</b>
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 assesment 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 agreed with PM assesment.
		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 assesment 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 agreed with PM assesment.
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> <b>GM/PD/DHPP/AD( C)TL-01/43B/9245-49 dated 15-11-2019</b>
		On 22/04/19, Contractor submitted claim for Additional charges - Extension of Insurance and Guarantee Policies			4,720,820		<b>Claim Paid</b> <b>GM/PD/DHPP/Contracts/TL-01/43/6869-73 dated 1/12/2021</b>
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.</b> <b>Delay Analysis required by the Contractor</b>
11	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> <b>GM/PD/DHPP/Contracts/TL-01/43/6869-73 dated 2-12-2021</b>
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 2016 to 2019.	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 Corina 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>

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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					<i>PM replied via DHC/Dasu/PCCC/TL-01/CAD/22-015 dated 24th January 2022</i> <i>Awaiting for Contractor's detailed submssion</i>
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					<i>DHC letter - dated 1st June-2021</i> <i>The Engineer registered the subject claim</i>
<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					<i>The Engineer's replied dated 26 September, 2017. Principle of claim was approved.</i> <i>Contractor's substantiation for Additional cost and EOT awaited.</i> <i>Contractor provides expense record in interim submissions with out establishing+H91+H89:192+H89:193+H8+H89:1117</i>
		Contractor submitted prolongation claim on 14-06-2022 at cut-off date 14-07-2021	8,115,076,911	77,805,148			<i>Arranged a discussion meeting with the Contractor's personnels and asked for required substatial documents in support of the claim</i> <i>The Engineer Is working on Principle of Claim. Target date is 30-Nov-2022</i>
2	MW-01/C-02 Adjustment to Contracts Price due to change in legislation ( <b>Withholding Tax</b> )	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.</i> <i>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 substatial documents in support of the claim</i> <i>On 1-Aug-2022, the Contractor was once again asked to provide additional substatial documents.</i> <i>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.</i> <i>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.</i> <i>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)</i> <i>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.</i> <i>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.</i> <i>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 substatial documents in support of the subject claim.</i> <i>Contractor's response is awaited</i>
9	MW-01/C-09 Change in Legislation Additional ( <b>Custom Duty</b> /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>

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**Appendix G [7/12]**

		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			<b>Response submitted</b> via DHC/Dasu/CGGC/MW-01/CAD/22-459 dated 12-09-2022 <b>Additional substantiation is awaited</b>
		The Contractor on 08-09-2022 submitted claim for additional charges due to increase in various import taxes, from Jan 2020 to Dec 2021					The Engineer responded on <b>12-Sep-2022</b> reiterating his stance as given in the Principle of Claim issued on <b>17-Nov-2021</b> and asked the Contractor to submit the Claims in accordance with the Principles The Engineer and the Contractor had a consultation meeting on <b>15-Oct-2022</b> and Contractor agreed to provide the working as per Engineer's Principles of Claim.
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]					The Engineer replied on <b>25-Oct-2019</b> . <b>CGGC/MW-01/CD/DHC-510 dated 29th October 2019</b> <b>DHC/DASU/CGGC/MW-01/you/19-401 dated 2-Nov-2019</b> <b>EOT Claim to be considered in revised time for variation</b>
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				Engineer's principle of claim sent on <b>12-03-2021</b>
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 <b>9/10/20</b> . 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 <b>30-Sep-2022</b> <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 <b>24-06-2022</b> 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 <b>25-02-2021 (Ref:090)</b> .
		The Contractor submitted revised claim on 14-06-2022	25,163,812	241,264			<b>Engineer's 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 principle of claim sent on <b>26-03-2021</b> <b>Principle of Claim denied.</b>
		The Contractor submitted revised claim on 14-06-2022	6,822,489	65,412			Engineer's principle of claim sent on <b>05-07-2022</b> <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 <b>12-08-2021 (Ref:358)</b> . <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 <b>09-April-2022 (Ref:144)</b> <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 <b>15-August-2022 (Ref:402)</b> <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 <b>05-September-2022 (Ref:441)</b> <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 <b>28 September, 2017</b> 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 substatal documents in support of the



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**Appendix G [8/12]**

										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>
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- [Ref: date 8-May-19] <b>Claim denied.</b>
		The Contractor submitted revised claim on 14-06-2022	3,625,362	34,759						The Engineer submitted principle of claim 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 27-Jul-2019] (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
		The Contractor submitted revised claim on 08-09-2022 for various charges due to increase in Import taxes, from Jan 2020 to Dec 2021								<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>
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 25-Oct-2019 <b>CGGC/MW-02/CD/DHC-306 dated 29th October 2019</b> <b>DHC/DASU/CGGC/MW-02/you/19-207 dated 2- Nov 2019</b> <b>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 princple of claim sent on 12-01-2021</b> <b>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 28-09-2020 . Asked the Contractor to substantiate actual additional Cost.
		The Cntractor submitted revised claim on 14-06-2022	570,640	5,471						The Engineer responded on 05-07-2022 and 11-08-2022 and asked for additional substantial documents in support of the claim.



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		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 certified in IPC #12 [13th October 2022]</b>
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 loss due to the omission 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					Engineer replied on <b>11-Feb-2019 (Ref:016)</b> . No further particulars submitted by the Contractor to date
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					Employer accorded approval to pay in <b>IPC 23-8-2022 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		Employer accorded approval to pay in <b>IPC 22-12-2021 Claim Paid</b>
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		Employer accorded approval to pay in <b>IPC 26-6-2022 Claim Paid</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 loss due to the omission 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>7,684,810</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)</b> , and <b>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>

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**Appendix G [11/12]**

3	PCI-01R/C-03 Works' stoppage linked to land acquisition issues	On 04/09/19, Contractor claim - Works' Stoppage by House owner in portion-2 near Cat-2 Hostels - 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 substantiate his 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 5th November 2019 and continued till 7th 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 Coronavirus 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>
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 29-June-2020 <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 23-Feb-2021 (Ref: 079) 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 newnew insurance policies	Contractor's cost claim for newnew 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 28-Dec-2019
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 22-Jan-2020
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 24-05-2022. After various consultation meeting with the Contractor, the revised Project Manager's assessment report has shared with the Employer and the Contractor on 29-Oct-2022
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 29-April-2020
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 14-October-2021. The Contractor has withdraw his claim and re-submitted it on 29th March 2022.
6	RV/C-06 Hindrance at Site and Non Issuance of 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 09-November-2021 registered the claim and requested the contractor to maintain and submit contemporary record regard the events.



Details of Claims/Notifications of EM-01 – Joint Venture (GE-PC JV)							
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) <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 issues 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>Contractor's Submission is awaited</b>
Details of Claims/Notifications of RAR-02 – Contractor CGGC							
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 DHC letter - dated 30-May-2022 (Ref:047) <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					DHC letter dated 12-May-2022 (Ref:037) <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 intent to claim due to Flood in Uchar Nullah					DHC letter - dated 15-August-2022 (Ref:071) <b>Contractor's substantiation awaited.</b>
6	RAR-02/C-6 Natural Catastrophe	On 27/08/2022, the Contractor notified its intent to claim due to exceptionally adverse climatic conditions (Natural Catastrophe)					DHC letter - dated 05-September-2022 (Ref:077) <b>Contractor's substantiation awaited.</b>
Details of Claims/Notifications of KKH-02 – Contractor CGGC							
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					DHC letter - dated 06-June-2022 (Ref:059) <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					DHC letter - dated 10-August-2022 (Ref:097) <b>Contractor's substantiation awaited.</b>
3	KKH-02/C-3 Flood in Uchar Nullah	On 18/08/2022, the Contractor notified its intent to claim due to Flood in Uchar Nullah					DHC letter - dated 05-September-2022 (Ref:105) <b>Contractor's substantiation awaited.</b>
4	KKH-02/C-4 Natural Catastrophe	On 29/08/2022, the Contractor notified its intent to claim due to exceptionally adverse climatic conditions (Natural Catastrophe)					DHC letter - dated 05-September-2022 (Ref:106) <b>Contractor's substantiation awaited.</b>

# **APPENDIX H**

## **Variation Status**

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**Appendix H: Variations Status**

*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 of Single Circuit ZM type Tower with LYNX from Dubair Khwar HPS to Keyal Khwar	187,054,511	-	187,054,511	The Employer Issued formal Change Order on 3-July-2020.
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



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**Appendix H [2/4]**

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			The Engineer made his determination and issued via DHC/Dasu/CGGC/MW-01/CAD/22-494 dated 26th Sep 2022
8	VO-06 : 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>13,854,721,401</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 Guage 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
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.

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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 Supply and installation of MS Grill at Backside Terraces for Privacy of Residence Category-1	14,525,993			Contractor's submission received on 22-Oct-2022
<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 26th February 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 Shtial 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**

CONTRACTS AWARDED																		
Sr. #	Contract ICB No.	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	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	31,118,171,799	27.06%	1204	195		21-Nov-26	Work Inprogress	
2	DASU-MW-02	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	11,050,271,292	17.15%	1213				18-Jun-26	Work Inprogress
3	DASU-EM-01	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	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	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	2,779,276,198	102.41%	498	408	518	31-Aug-22	Work Inprogress. EOT underprocess. Subject to VO-007 Komila Bypass	
3	DASU-TL-01	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			1,307,509	64.79%						
4	DASU-PCI-01	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	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	2,673,286,796	54.56%	895				29-Oct-23	Work Inprogress EOT underprocess.
6	DASU-RV	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)	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	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	3,252,983,438	20.00%						Notice of Commencement not issued yet
9	DASU-RAR-02	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	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	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	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-2022	PKR 1,453,885,230.70	31-Dec-2022	21-Jul-2024			31-Jul-2024	N/A
4	DASU-RAR-01	PKR 379,956,164.00 USD 1,616,583.00	31-Dec-2022	PKR 271,397,259.50	31-Dec-2022	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	8-Oct-2022			8-Oct-2022	8-Oct-2022
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	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-Dec-2022	14-Dec-2022	14-Dec-2022	14-Dec-2022	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**

**SEPTEMBER 2022**

	26 Wed.	27 Thu	28 Fri.	29 Sat.	30 Sun.	31 Mon.
<b>Diversion Tunnel A INLET</b>	Roof Slab No work No Work Middle pier K0+002.3 ~ 0-035 No Work Left Wall No Work Right wall No Work K0+002.3~0-035 Breaking stones with Jack hammer Part No.1 Fixing of scaffolding Part No.02 Left & Right Wall Arrangement for concrete	Roof Slab No work Middle pier K0+002.3~0-035 No Work Left Wall No Work Right wall No Work K0+002.3 ~0-035 Breaking of stones with jack Hammer Removal of stones Part No. 02 Left & Right Wall 7th lift Pouring of concrete Quantity Poured=128m3 Green Cutting Part No.03 Fixing of scaffolding	Roof Slab No work No Work Middle pier K0+002.3 ~0-035 No Work Left Wall No Work Right wall No Work K0+002.3~0-035 Drilling for boulder blast Removal of stones Part No.02 Left & Right Wall 8th lift Steel Fixing	Roof Slab No work Middle pier K0+002.3 ~0-035 No Work Left Wall No Work Right wall No Work K0+002.3 ~0-035 No Work Part No.02 Left & Right Wall 8th lift Arrangement for concrete	Roof Slab No work Middle pier K0+002.3~0-035 No Work Left Wall No Work Right wall No Work K0+002.3~0-035 No Work Part No.03 Left & Right Wall 7th lift Arrangement for concrete Pouring of concrete Quantity poured=128m3	Roof Slab No work Middle pier K0+002.3 ~0-035 No Work Left Wall No Work Right wall No Work K0+002 ~0-035 Drilling for boulder blast Removal of stones Part No.03 Left & Right Wall Chipping & Curing welding work for Formwork support bars Part No.02 Left & Right Wall Fixing of steel shifting of scaffolding pipes
<b>Diversion Tunnel A UNDER GROUND</b>	INVERT U/S K0+153 ~K0+141 Left side Cleaning for invert 1m concrete INVERT D/S K0+650~ Desilting & Washing of concrete surface D/S 3rd+4th Lift K1+478~ Right side Excavation & Mucking K1+380~ K1+440 Right & Left Wall Grouting & Install of Rock bolts	INVERT U/S K0+273 ~K0+285 Left side Invert cleaning for 1m concrete Pouring of concrete Finishing of concrete surface K0+134~K0+138.5 Left side Grouting & install of Rock bolts K0+093~K0+098 Left side Drilling for Rock bolts in invert Grouting & install of Rock bolts INVERT D/S K0+700~ Desilting & Washing of concrete surface D/S 3rd+4th Lift K1+478 ~ Right side Excavation & Mucking K1+440 Right & Left Wall Grouting & Install of Rock bolts	INVERT U/S K0+273 ~K0+285 Left side Finishing of concrete surface K0+134~K0+141 Left side Invert cleaning for 1m concrete Pouring of invert 1m concrete Quantity Poured 67m3 Finishing of concrete surface K0+093~K0+098 Left side Invert cleaning for 1m concrete Pouring of 1m concrete Quantity poured 53m3 Finishing of concrete surface K0+098~K0+134 Left side Drilling in invert for Rock Dowels Grouting & Install of rock Dowels D/S 3 <sup>rd</sup> +4th Lift K1+485~ Right+center Drilling for blast Charging for blast Blast 11:35Hrs K1+390~K1+410 Right & Left Wall Grouting & Install of Rock bolts K1+410~K1+440 Right Wall Drilling for Rock bolts	INVERT U/S K0+285 ~ K0+297 Left side Invert cleaning for 1m concrete Pouring of 1m concrete Quantity Poured=130m3 Finishing of concrete surface K0+098~K0+110 Left side Invert cleaning for 1m concrete Pouring of concrete Quantity poured=120m3 Finishing of concrete surface INVERT D/S K0+700 Desilting DT-A Outlet Excavation & Mucking D/S K1+400~K1+440 Left Wall Drilling for Rock bolts Grouting & Install of Rock bolts K1+360~ Left Wall Execution of 2nd layer shotcrete	INVERT U/S 0+297 ~K0+309 Left side Invert cleaning for 1m concrete Pouring of 1m concrete Quantity Poured=125.5m3 Finishing of concrete surface K0+098~K0+110 Left side Finishing of concrete surface INVERT D/S K0+900~ Desilting D/S K1+400~K1+444 Left Wall Execution of 2nd layer shotcrete K1+452~ Left & Right Wall Drilling for blast Charging Blast 21:40Hrs Excavation & Mucking	INVERT U/S K0+297 ~K0+309 Left side Finishing of concrete surface K0+110~K0+122 Left side Invert cleaning for 1m concrete Quantity Poured 120m3 Finishing of concrete surface INVERT D/S K0+900 Desilting D/S K1+400~1+444 Left Wall Execution of 2nd layer shotcrete (24m3) K1+462~ L/W & K1+440~ R/W Drilling for blast Charging blast 2:00Hrs Excavation & Mucking
<b>Diversion Tunnel B INLET</b>	Roof Slab Pouring of concrete (Top slab slope area) Quantity poured 1094.5m3 Gate Area Removal of scaffolding chipping Middle pier K0+002 0-035 No work Left Wall K0+002.3 ~0-033 No work Right wall K0+002.3 ~0-033 No work	Roof Slab Fixing of steel (Part No.2) Chipping & Welding work Removal of scaffolding (Gate Area) Middle pier K0+002.3~0-035 No work Left Wall K0+002.3~0-033 No work Right wall K0+002.3~0-033 No work Part No.2 Left & Right Wall Steel Fixing Fixing of Formwork	Roof Slab chipping (Slope area) Formwork Fixing (Slope area) Removal of scaffolding (Gate Area) Middle pier K0+002.3~0-035 No work Left Wall K0+002.3~0-033 No work Right wall K0+002.3~0-033 No work	Roof Slab Chipping (Slope area) Removal of Formwork Transition Part) Middle pier K0+002 ~0-035 No work Left Wall K0+002.3~0-033 No work Right wall Part No.2 Left & Right Wall 9 <sup>th</sup> lift Arrangement for concrete Pouring of concrete Quantity Poured 144m3	Roof Slab Steel Fixing (Slope area) Formwork Fixing (Slope area) Removal of Formwork (Transition Part) Middle pier K0+002 ~0-035 No work Left Wall K0+002.3~0-033 No work Right wall K0+002.3~0-033 No work Part No.2 Left & Crown 10th lift Arrangement for concrete Pouring of concrete Quantity Poured=64m3	Roof Slab Steel Fixing (Slope area) Formwork Fixing (Slope area) Removal of formwork (Transition Part) Steel Fixing (slope area) Gate Area: Removal of scaffolding (Transition Part) Middle pier K0+002.3~0-035 No work Left Wall K0+002.3~0-033 No work Right wall K0+002.3~0-033 No work Part No.2 Left & Crown 10th lift Pouring of concrete 303.2m3 Washing of concrete pipes
<b>Diversion Tunnel B UNDER GROUND</b>	Invert U/S K0+215~ Right side Invert cleaning for 1m	Invert U/S K0+170~ K0+182 Right side	Invert U/S No Work Shear zone area Part No.2	Invert U/S K0+182~ K0+194 Right side	Invert U/S K0+194 ~K0+206 Right side invert cleaning for 1m	Invert U/S K0+194 ~ K0+206 Right side

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	concrete Shear zone area Part No.1 & 2 Fixing of scaffolding Part No.03 Left & Right Wall Invert D/S K0+800- Washing of invert surface K1+265- Right Wall 3rd lift Excavation & Mucking	Invert cleaning for 1m concrete Pouring of invert 1m concrete Finishing of concrete surface Shear zone area Part No.1 & 2 Fixing of scaffolding Part No.03 Right Wall Arrangement for concrete 7:30Hrs-17:30Hrs Arrangement for concrete Pouring of concrete Invert D/S K0+800- Washing of concrete surface K1+240- Right Wall 3rd lift Drilling for blast Charging for blast Blast 11:20Hrs Excavation & Mucking	Fixing scaffolding Part No.03 Right Wall Pouring of concrete Quantity poured 83m3 Green cutting Invert D/S K0+900 Washing of concrete surface K1+240- Right Wall Grouting & Install of Rock bolts	Pouring of invert 1m concrete Quantity Poured 84m3 Finishing of concrete surface Shear zone area Part No.1 & 2 Fixing of scaffolding Part No.03 Right Wall Chipping Steel Fixing Invert D/S K0+900- Washing of invert surface DT-B Outlet Excavation & Mucking	concrete Pouring of concrete Quantity Poured 117m3 Finishing of concrete surface Shear zone area Part No.1 & 2 Fixing of scaffolding Part No.03 Right Wall Formwork Fixing & Welding work Invert D/S K0+900 Washing of invert surface	Finishing of concrete surface K0+206-K0+218 Right side Invert cleaning for 1m concrete Pouring of concrete Quantity Poured 120m3 Finishing of concrete surface Shear zone area Part No.1&2 Fixing of scaffolding Part No.03 Right Wall Steel Cleaning Welding of support bars Invert D/S K0+950- Washing of invert surface Excavation & Mucking
<b>ADIT 3</b>	K0+730.5-0+733.5 EL: 79.014-782.014 Fixing of formwork	K0+730.5-0+733.5 EL: 79.014-782.014 Pouring of plug concrete Quantity poured 57m3	K0+730.5-0+733.5 EL:779 -782 Curing of plug concrete	Fixing of scaffolding	Fixing of Grouting box Fixing of formwork	Fixing of formwork Arrangement for concrete
<b>Traffic Diversion Tunnel</b>	K0+734- Survey for blast Drilling for blast Charging for blast Blast 15:00Hrs Excavation & Mucking Geological mapping Execution of 1st layer shotcrete K0+038.5 ~ Survey for blast K0+706- Fixing of wiremesh El. 847-844 Drilling for Rock bolts Excavation & Mucking	K0+738.5- Drilling for blast Charging for blast Blast 13:20Hrs Excavation & Mucking K0+706- K0+710 Fixing of wiremesh El. 847-844 Fixing of wiremesh	K0+738.5- Scaling Execution of 1st layer shotcrete (8m3) K0+716- Fixing of wiremesh K0+742.5- Survey for blast Drilling for blast Charging blast 18:55Hrs Excavation & Mucking spraying of 1 <sup>st</sup> layer shotcrete El. 847-844 Fixing of wire mesh Drilling for Rock bolts	K0+696-K0+716 Execution of 2nd layer shotcrete (24m3) Fixing of wiremesh K0+730-K0+746.3 Marking for Rock bolts Drilling for Rock bolts Grouting & install of Rock bolts K0+719-0+730 Fixing of wire mesh K0+675- K0+700 Drilling for weep holes El. 847-844 Grouting & install of Rock bolts Excavation & Mucking	K0+746.3- Drilling for blast Charging Blast 15:05Hrs Excavation & Mucking Geological mapping Execution of 1st layer shotcrete Survey for blast El. 847-844 Execution of shotcrete (8m3) Excavation & Mucking	K0+721- Wire mesh Fixing K0+749.8- Drilling for blast Charging Blast 15:00Hrs Excavation & Mucking Execution of 1st layer shotcrete K0+753- Survey for blast Drilling for blast El. 847-844 Excavation & Mucking
<b>Cable crane foundation (Right Bank)</b>	No Work (Local people stopped work)	Drilling for Rock bolts	Drilling for Rock bolts	Drilling for Rock bolts	Drilling for Rock bolts	Drilling for Rock bolts
<b>Uchar New Crushing plant</b>	Excavation & Mucking at Retaining wall No.1 Stones masonry at retaining wall No.1 Fixing of formwork at Retaining Wall No.3 Fixing of formwork for water Tank Fixing of formwork at screening workshop No.03	Excavation & Formwork Fixing at Wall No.01 Stone masonry and backfilling at Wall No.01 Welding work at conveyor belt Pouring of concrete at Water tank Quantity poured 48m3 Formwork fixing at Retaining Wall No.01 Welding work at conveyor belt	Excavation & Formwork Fixing at Wall No.01 Stone masonry and backfilling at Wall No.01 Welding work at conveyor belt Formwork fixing at Retaining Wall No.06 Welding work at conveyor belt Formwork fixing at Wall No.1 Pouring of concrete at Wall No.1	Excavation at Watching Tower No.01 Stones masonry at Retaining Wall No.01 Fixing of Formwork at storage tank Welding work for utilitiase	Excavation at Generator Room Area Stones masonry at Retaining Wall No.01 Pouring of concrete at Retaining Wall No.01 Leveling at oil tank area 7:30Hrs-17:30Hrs Welding work for utilitiase Form work Fixing for water Tank Excavation at batching plant area for boundary Wall	Excavation & Mucking at retaining Wall No.01 Bcakfilling at Retaining Wall No.01 Stones masonry at Oil Tank Area Excavation at Generator room area Welding work at Gallery stock Formwork fixing for water tank Excavation for boundary wall at batching plant area
<b>Kass Camp</b>	Excavation & Dumping Install of electric wires Install of pre-cast concrete rooms	Excavation & Dumping Install of electric wires Install of pre-cast concrete rooms	Excavation & Dumping Stones masonry work Steel Fixing s Pouring concrete at foundation septic tank Excavation & leveling	Excavation & Dumping Stones masonry work Welding work Electric fittings	Compaction & backfilling for parking platform Stones masonry work Brick masonry work for sewerage area Electric fittings Welding works	Compaction & backfilling for parking platform Stones masonry work brick masonry for septic tank Stones masonry work Electrical fittings
<b>CR-5-2 / LU-2</b>	Excavation & Mucking	Excavation	Dumping and backfilling	Dumping and backfilling	Excavation & Mucking	Excavation & Mucking

**OCTOBER 2022**

Date/Day Location	1 Tue.	2 Wed.	3 Thu.	4 Fri.	5 Sat.
<b>Diversion Tunnel A INLET</b>	Roof Slab No work Middle pier K0+002.3 ~0-035 No Work Left Wall No Work Right wall No Work K0+002.3-0-035 Removal of stones Desilting Part No.03 Left & Right Wall welding	Roof Slab No work Middle pier K0+002.3- 0-035 No Work Left Wall No Work Right wall No Work K0+002.3-0-035 Removal of stones Removal of sediments	Roof Slab No work Middle pier K0+002.3 ~0-035 No Work Left Wall No Work Right wall No Work K0+002.3-0-035 Breaking of stones and removal of sediments	U/S k0+333-0+345 L/side Surface finishing K0+345-0+357 L/Side Fixing of formwork Cleaning invert Pouring of concrete Qty 129m3. K0+069-0+081Cleaning for invert 1m concrete Pouring	Roof Slab (Top slab Part 3) Fixing of stirrups at crown portion and welding work ( Part 2 ) L/S+R/S Chipping Out side No work Part No.03 Left & Right Wall

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	work for Formwork support bars Part No.02 Left & Right Wall shifting of scaffolding pipes	Part No.03 Left & Right Wall Fixing of stirrups Part No.02 Left & Right Wall Arrangement for concrete	Cleaning of debris and removal Part No.03 Left & Right Wall Supporting for formwork at Part No.02 Left & Right Wall Arrangement for concrete	of concrete Qty 126m3. K0+081~0+093 Drilling for rock dowel at invert Part 2 8Lift R+L wall K0+019~0+031 pouring of concrete Qty 136m3.	Fixing of stirrups Part No.02 Right Wall Chipping and green cutting Part No.01& 02 &03 Cleaning work and arrangement for concrete
<b>Diversion Tunnel A UNDER GROUND</b>	INVERT U/S K0+309~0+321 Left side Fixing of formwork Pouring of concrete Finishing of concrete surface K0+110~ 0+122 Left side Finishing of concrete surface K0+057~K0+069 Right side Cleaning of lean surface Drilling for RockDowels Grouting & install of RockDowels INVERT D/S K0+450~ Wahing of surface with water	INVERT U/S K0+333~0+321 Left side Fixing of formwork Pouring of concrete Quantity 127m3 Finishing of concrete surface K0+309~0+321 Left side Finishing of concrete surface K0+069~K0+081 Right side Dowels Grouting & install of RockDowels INVERT D/S K0+440~ Removal of mud	INVERT U/S K0+057~0+069 Right side Cleaning of surface for invert concrete Pouring of concrete Quantity Poured 135m3 Finishing of concrete surface K0+321~ 0+333 Left side Finishing of concrete surface K0+333~ 0+345 Left side Fixing of formwork Cleaning surface for invert concrete Pouring of 1m bedding concrete Qty 132m3. INVERT D/S K0+440~ Cleaning of sludge Removal of sediments	K0+700~ Removing of slush K0+500~ Cleaning of invert slush 1+161~ Mud cleaning lean surface K1+435~ 1+460 L+R wall Arrangement for 1st layer of shotcrete K1+440~1+479 1st layer of shotcrete Qty 58m3. K1+477~1+479 Removing of underbreak with jackhammer	INVERT U/S K0+345~0+357 Left side Finishing of concrete surface K0+357~0+369 Left side Cleaning for invert concrete Pouring of 1m concrete (Qty 132m3) K0+081~0+093 Right side Drilling for invert rockdowels Grouting & install of Rock Dowels INVERT D/S K0+730~K0+750 Removing of sludge L/W K1+445~K1+478 R/W K1+445~K1+472 Drilling for Rock bolts
<b>Diversion Tunnel B INLET</b>	Roof Slab Steel Fixing & Formwork Fixing (Part No.01) Removal of formwork (Transition Part) Gate Area: Removal of scaffolding Chipping Removal of Formwork (Transition Part) No Work Middle pier K0+002.3~0-035 No work Left Wall K0+002.3~0-033 No work Right wall K0+002.3~0-033 No work Part No.2 Left & Crown 10th lift Removal of Formwork Part No.03 Left & Right Wall 9th Lift Arrangement for concrete	Roof Slab Steel Fixing (Top slab slope area) Removal of Formwork Transition Part Removal of scaffolding (Top slab Part 1) Gate Area: Chipping Middle pier K0+002.3~0-035 No work Left Wall K0+002.3~0-033 No work Right wall K0+002~0-033 No work Part No.2 Left & Crown 10th lift Removal of Scaffolding Part No.03 Left & Right Wall 9th Lift Adjustment of Formwork	Roof Slab Fixing of reinforcement and scaffolding (Top slab slope area) Fixing of reinforcement and scaffolding ( Top slab slope area) Gate wall chipping of wall and exposing of embedded parts for 2nd stage concrete Part No.03 Left & Right Wall Fixing of stirrups Part No.02 Left & Right Wall Removing of scaffolding	Part 3 left+Right wall. k0+031~0+043 Pouring of concrete. Qty 136m3.	Roof Slab Steel Fixing (Top slab Part 2) Fixing of Formwork and welding works (Transition Part) Shifting of scaffolding and formwork portion Gate Area: No work Middle pier K0+002.3~0-035 Left Wall K0+002.3~0-033 No work Right wall K0+002.3~0-033 No work Part No.2 Left & Crown 10th lift Removing of scaffolding and formwork Part No .03 Left & Right Wall 9th Lift Removing of scaffolding and formwork Adjustment of formwork at crown portion
<b>Diversion Tunnel B UNDER GROUND</b>	Invert U/S K0+218~0+230 Right side Invert cleaning for 1m concrete invert cleaning for 1m concrete Pouring of concrete Quantity Poured 122m3 Finishing of concrete surface K0+206~ 0+218 Right side Finishing of concrete surface Shear zone area Part No.1 & 2 Fixing of scaffolding Part No.03 Right Wall Arrangement for concrete Invert D/S K0+950~ Washing of invert surface D/S K1+462~ L/W & K1+440~ R/W Excavation & Mucking K1+252~ Left Side Excavation with Jack Hammer K1+240~ Excavation & Mucking K1+250~ Right Side (3rd lift) Drilling for blast Charging Blast 14:30Hrs Excavation & Mucking	Invert U/S K0+218~ 0+230 Right side Finishing of concrete surface K0+230~K0+242 Right side Invert cleaning for 1m concrete Fixing of Formwork Pouring of invert 1m concrete Quantity Poured 124m3 Finishing of concrete surface K0+242~ 0+266 Right side Cleaning of mud Shear zone area Part No.1 & 2 Fixing of scaffolding Part No.03 Right Wall Arrangement for concrete Invert D/S K0+470~ Execution of remaining shotcrete (crown D/S K1+355~ 1+400 Right Wall Execution of 2nd layer shotcrete (40m3) K1+465~1+468 Left Wall Drilling for blast Charging blast 5:20Hrs Excavation & mucking	Invert U/S K0+230~ 0+242 Right side Finishing of concrete surface K0+242~K0+266 Right side Invert cleaning for 1m concrete no work 21:30~07:00hrs. K0+242~K0+266 Right side Invert cleaning for 1m concrete Pouring of concrete 72m3. pour in the night shift Shear zone area Part No.1 & 2 Fixing of scaffolding Formwork install Part No.03 Right Wall Welding + adjustment of scaffolding Shifting of scaffolding from crown portion Part3 8Lift Arrangments for concrete pouring of concrete 198m3 Invert D/S K0+490~ Execution of remaining shotcrete (crown) D/S K1+390~ 1+440 Right Wall Drilling for missing Rock bolts Grouting and installtion of rockbolt 22 pcs grouted . K1+465~ Left Wall & Right wall Mucking and scalling Survey for blast Drilling for blast Charging and blast K1+273 Excavation + loading Drilling for blast Charging for blast and blast done	D/S k0+730~0+733.5 Excavation and mucking (shearzone) Part 3 left and Right wall chipping Install of scaffolding Part 1 and Part 2 Fixing of scaffolding Part 1 Install formwork and shifting formwork plate. DTB U/S k0+254~ 0+266 Pouring of invert concrete Qty 116m3. 3rd lift k1+251~ Excavation and loading K1+255~ Survey for blast Drilling for blast Charging for blast and blast done Mucking Drilling for blast Charging and blast done 2nd lift k1+275~ Drilling for blast Charging for blast Blast 18:00hr.	Invert U/S K0+242~ 0+254 Right side Mucking and loading Making hole for drain water with jack hammer Cleaning and washing Arrangement for invert pouring of concrete Pouring of invert concrete Qty: 132m3 Shear zone area Part No.1 & 2 Fixing of scaffolding & and shifting of scaffolding and steel with crane Part No. 03 Fixing of steel stirrups and formwork at crown portion Part No.1 & 3 Fixing of formwork and scaffolding Invert D/S K0+500~K0+600 Repairing shotcrete at crown portion K0+470~K0+490 Cleaning and surface washing K1+255~1+273 Excavation & Mucking Removing under break with jack hammer out side K1+252~ 1+280 L/W+R/W 1st layer shotcrete (Qty=24m3 ) D/S K1+445~K1+470 Survey for Rock bolts



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<b>STARTER DAM</b>					Trial Test Dumping filling and compaction
<b>ADIT 3</b>	K0+730.50~K0+733.50 El: 780.342~783.342 Arrangement for concrete Pouring of plug concrete Poured 75m3 Green Cutting	K0+730.50~K0+733.50 Curing Fixing of Formwork (3rd lift)	K0+730.50~K0+733.50 Fixing of Formwork + scaffolding (3rd lift) Fixing for formwork for final pour	k0+730.5~0+733.5 Fixing of formwork for pouring of concrete Pouring of concrete Qty 66m3.	K0+730.50~K0+733.50 Pouring of pludge concrete (3rd lift) (Qty=60m3)
<b>Traffic Diversion Tunnel</b>	K0+753.8~ Drilling for blast Charging Blast 13:10Hrs Excavation & Mucking Geological mapping Execution of 1st layer shotcrete (8m3) K0+130~ Fixing of wiremesh El. 843~839 Excavation & Mucking	K0+731~Fixing of wire mesh K0+746~ Drilling for Rock bolts Grouting & install of Rock bolts K0+736~ Fixing of wiremesh El. 843~839 Excavation & Mucking Drilling for blast	K0+736~ Fixing of wire mesh K0+753.8~ Charging for additional blast Blast 17:12Hrs Charging for additional blast Blast done 21:18hr k0+757.3~ Survey for blast K0+746~Grouting for Rock bolts 12 pcs Fixing of wiremesh K0+716~K0+726 2 <sup>nd</sup> layer S/c(Qty = 32m3) El. 843~839 Charging for blast blast 14:30Hrs Excavation + Mucking	k0+757.3~ Drilling for blast K0+740~k0+750 Fixing of wire mesh 03pcs. Fixing of wire mesh 12pcs. K0+626~ 0+636 2 <sup>nd</sup> layer of shotcrete. 12m2. k0+716~0+726 Remedial s/c. 4m3 El. 843~839 No work El.844~837 Mucking and loading	K0+740~K0+750 Fixing of wire mesh Fixing of wire mesh K0+700~ Drilling for weep holes El. 843~837 Excavation & Mucking
<b>Cable crane foundation (Right Bank)</b>	Drilling for Rock bolts	Grouting & install of Rock bolts	Grouting & install of Rock bolts 23 Pcs are grouted	EL.1062~1059 Grouting 46 pcs installed 5m length	Grouting & install of Rock bolts
<b>Uchar New Crushing plant</b>	Stones masonry & Backfilling at Retaining Wall No.1 Leveling at oil Tank Area Fixing of Formwork at Water Tank Welding work at conveyor belt line Install of Formwork for water tank	Stones masonry at Retaining Wall No.01 Excavation & Loading Oil Tank Area Welding work at crushing plant area Masonry work at Watch Tower Install of Form work for water Tank	Stones masonry at Retaining Wall No.01 Excavation & Loading Oil Tank Area Welding work at conveyor belt line Removing of formwork under vibrating screen	Stone masonry retaining wall no 1 Ekxcavation and loading welding of conveyor belt line Removing of formwork under vibrating screen Unloading of steel for conveyor belt line Batching mixing unit pouring of concrete Install of formwork for crush plant access road side safety block	Stone masonry at Retaining Wall for generator room Leveling for concrete at storage Area Welding work at cement storage Area Removal of formwork under sedimentation tank
<b>Kass Camp</b>	Compaction & backfilling for parking platform Stones masonry work Brick masonry for septic tank Stones masonry work Electrical fittings	Compaction & backfilling for parking platform Stones masonry work Brick masonry for septic tank Stones masonry at Breast Wall Install of sewage pipeline Plaster work	Compaction & backfilling for parking platform Stones masonry work Brick masonry for septic tank Stones masonry at Breast Wall Install of sewage pipeline Plaster work	Making of access stone masonry wall at different location entrance in front of project leader ship dormitory and RAR 01 road side Making of steel stair brick masonry work for wash rooms fixing of electricity wires install of formwork for foundaiton concrete chinese dormitory	Making of stone masonry wall at diffrent location Brick work Brick masonry for septic tank Stone masonry at Breast Wall Install of sewage pipe line Plaster work Install of formwork for foundation Excavation leveling and dumping Fixing of electricity wires Install of pre-cast room for project leadership dormitory
<b>CR-5-2 / LU- 2</b>	Excavation & Mucking	Excavation & Mucking	Excavation	Mucking and loading	Excavation & Mucking
Date/Day Location	<b>6 Sun.</b>	<b>7 Mon.</b>	<b>8 Tue.</b>	<b>9 Wed.</b>	<b>10 Thu.</b>
<b>Diversion Tunnel A INLET</b>	Roof Slab (Top slab Part 3) No work Out side Fixing of scaffolding Part No.03 Left & Right Wall Pouring of concrete QTY (120m3) Part No.02 Right Wall Fixing of steel + form work cleaning + support work Fixing of steel stirrup + Assembling of scaffolding	Roof Slab (Top slab Part 3) No work Out side No work Part No.2 and Part No.3 Left wall and Right wall. Steel shifting, and fixing formwork Part No.3 Left wall and Right wall. Chipping and washing of surface Cleaning of steel bars	Roof Slab (Top slab Part 3) No work ( Part 2) L/S+R/S No work Out side Gate poration L/R wall Removing of scaffolding and shifting formwork Part No.03 Left & Right Wall No work Part No.02 Left & Right Wall (9th lift) Adjustment of reinforcement Cleaning and arrangement for concrete Pouring of concrete ( Qty=152m3) No work Part No.01& 02 &03 No work	Roof Slab ( Part No.2) L/S+R/S No work (Top slab Part No.3) No work Out side Gate Portion No work Part No.03 Left & Right Wall Install of steel stirrups Assembling of scaffolding pipes and cleaning Fixing and shifting of steel for crown Part No.02 Left & Right Wall(9th lift) Green cutting and cleaning	Roof Slab ( Part No.2) L/S+ R/S No work (Top slab Part No.3) No work Out side Gate Portion Removing of scaffolding Part No.03 Left & Right Wall Install of steel stirrups Arrangement for concrete Part No.02 Left & Right Wall(9th lift) Cleaning of surface
<b>Diversion Tunnel A UNDER GROUND</b>	INVERT U/S K0+357~ 0+369 Left side finishing of concrete surface K0+081~K0+093 Right side Cleaning for invert concrete INVERT D/S K0+750~K0+760 Removing of sludge K0+650~K0+700	INVERT U/S K0+081~ K0+093 Invert cleaning K0+369~K0+381 Pouring of invert 1m concrete ( Qty 132m3) INVERT D/S K0+750~K0+760 Removing of sludge K0+780~K0+792 Invert cleaning K1+445~1+478	INVERT U/S K0+369~ 0+381 Left side Finishing of concrete K0+393~K0+405 Left side Invert cleaning for concrete K0+081~0+093 Right side Pouring of concrete (Qty 96m3)	INVERT U/S K0+093~ K0 +105 Right side Drilling for invert rockdowels Grouting for rockdowels 12pcs collapse K0+393 ~0+405 Cleaning of sludge INVERT D/S K0+950~ Right side Cleaning of sludge D/S	INVERT U/S K0+093~ K0 +098 Right side Cleaning of surface for invert concrete K0+381~ K0 +393 Right side Cleaning of surface for invert concrete K0+250~ Cleaning of surface for invert concrete INVERT D/S K0+980~ K1+050 Right side

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	Cleaning and washing of surface D/S L/W K1+445-1+478 R/W K1+445-K1+472 Drilling for 8m Rock bolts K1+265- K1+284 Left wall (3rd lift) Spraying 1st layer shotcrete (Qty 32m3) K1+240- K1+284 L/W+R/W Drilling for Rock bolts	Drilling for rockbolt Install of 10m rockbolt 5 pcs installed at left wall and 5pcs installed at right wall. D/S L/W K1+445-K1+478 R/W K1+445-1+472 No work	Surface finishing INVERT D/S K0+765-0+810 Left side +Right side Removing of sludge K0+741 -0+753 Left side Arrangement of concrete+ cleaning of surface L/W K1+445- 1+478 R/W K1+445- 1+472 Drilling for Rock bolts D/S L/W K1+445- 1+478 R/W K1+445- 1+472 Drilling for missing Rock bolts Grouting for rockbolt ( 29 pcs grouted)	L/W 1+350A rrangeement for grouting Grouting for Rock bolts Qty (49pcs grouted) Grouting for Rock bolts Qty (32pcs grouted) (8pcs collapsed) L/W K1+445- 1+478 R/W K1+445- 1+472 Grouting for Rock bolts 2:30Hrs-6:30Hrs Qty (24pcs grouted)	Cleaning of sludge from surface K1+050- Right side Cleaning of sludge from surface D/S L/W K1+445-K1+478 R/W K1+445-K1+472 Grouting for Rock bolts Qty (39pcs grouted) Grouting for Rock bolts (12pcs grouted)
<b>Diversion Tunnel B Inlet Portal</b>	Top Slab Fixing of Formwork & welding work (Transition Part 1) Shifting of scaffolding pipe and Removing of formwork Front Wall Adjustment of steel Gate Area: No work Middle pier K0+002.3 -0-035 No work Left Wall K0+002.3-0-033 No work Right wall K0+002.3-0-033 Part No.03 Left & Right Wall 10th Lift No work Arrangement for concrete Pouring of concrete Continue	Part No.1 and Part No.2 No work Transition part Removing of scaffolding Part No.03 Left & Right Wall 10th LiftPouring of concrete (Qty 240m3) Out side Structure Fixing of scaffolding	Wing Wall Fixing of scaffolding for wing wall access (Transition Part) Shifting of scaffolding and formwork (Part NO.1&2) Removing of scaffolding and form work (Part NO.3) Slope area Adjustment of formwork Gate Area: No work Middle pier K0+002.3-0-035 No work Left Wall K0+002 -0-033 No work Right wall K0+002.3-0-033 No work Part No.03 Removing of scaffolding and formwork Part No.1 and No.2 Removing of scaffolding	Wing Wall No work (Transition Part) Removing of scaffolding (Part NO.1) Removing of scaffolding (Part NO.1) Slope area No work Gate Area: No work Middle pier K0+002.3-0-035 No work Left Wall K0+002 -0-033 No work Right wall K0+002.3-0-033 No work Right side K0+043-K0+052.5 Making arrangement for formwork install Install of formwork	Wing Wall No work (Transition Part) K0-026 -K0+33.00 (Slope Area and Wing Wall) Adjustment of formwork and arrangements for concretePouring of concrete Continue Gate Area: No work Middle pier K0+002.3-0-010 Removal of formwork Left Wall K0+002.3-0-033 Right wall K0+002.3-0-033 No work Part No.4 Right side K0+043-K0+052.5 Install of formwork
<b>Diversion Tunnel B UNDER GROUND</b>	Invert U/S K0+242-0+254 Right side Finishing of concrete Shear zone area Part No.1 Fixing of formwork and steel Lifting of scaffolding pipes and formwork plates Part No. 2 Fixing of formwork Part No. 3 Adjustment of form work for crown Lifting of scaffolding pipes Invert D/SK0+500-0+600 Repairing shotcrete at crown portion QTY (4.8m3) Cleaning of surface K1+255-K1+273 Excavation & Mucking Removing under break with jack hammer out side K1+252-K1+280 L/W+R/W 1st layer shotcrete (Qty 24m3 )	Invert U/S K0+242- 0+254 Right side Finishing of concrete Shear zone area Part No.1 Fixing of formwok and steel. Part No. 2 Fixing of scoffollding Part No. 3 Arrangment for concrete Adjustment of formwork and steel at crown Invert D/S K0+560 -0+600 Cleaning of surface K1+252- 1+270 L/W+R/W Drilling for rockbolt K1+265- K1+284 Left wall (3rd lift) Spraying 1st layer shotcrete (Qty 32m3) K1+240- K1+284 L/W+ R/W Drilling for Rock bolts Grouting for Rock bolt	Invert U/S K0+242- 0+254 Left side Cleaning of invert for lean concrete Excavation with jack hammer Shear zone area Part No.1 Adjustment of formwork at crown Adjustment of formwork at crown Part No.02 Fixing of scaffolding pipes at crown portion Part No.3 Adjustment of formwork at crown portion Arrangments of concrete work for crown portion Fixing of formwork + scaffolding and Arrangement of concrete for crown portion Invert D/S K0+570-0+630 Repairing shotcrete at crown portion (Qty 1.6m3) K0+540-K0+6100 Cleaning and surface washing K1+1252- 1+1470 L/Wall Drilling for rock bolts R/Wall Grouting of rock bolts (Qty 34pcs) K1+1252- 1+280 L/W L/Wall Drilling for rock bolts	Invert U/S K0+242- 0+254 Left side Excavation with jack hammer and loading K0+190-K0+230 Removing of loose shotcrete from crown Shear zone area Part No. 1 No work Fixing of formwork Part No.02 Fixing of scaffolding pipes and shifting of scaffolding Fixing of formwork Part No.3 Fixing of formwork + Arrangments of concrete for crown portion Fixing of steel Invert D/S K0+650- No work Cleaning of surface K1+1252-K1+280 Drilling for rock bolts R/S K1+140- 1+120 Drilling for blast	Invert U/S K0+242-0+254 Left side Cleaning for invert concrete Concrete Pouring (Qty 210m3) Shear zone area Part No.1 Fixing of formwork Part No.02 Fixing of formwork Part No.3 Fixing of steel +formwork+Arrangments of concrete work for crown portion Invert D/S No workR/S K1+150- 1+110 (2nd & 3rd Bench) Drilling for blast Charging for blast (Explosive Qty 775kg) Blast 17:52 Excavation and loading
<b>STARTER DAM</b>	Trial Test	Trial Test	Trial Test Dumping filling and compaction	Trial Test	Trial Test
<b>ADIT 3</b>	(Plug No.2) K0+730.50-0+733.50 Removing of formwork and scaffolding + Curing	(Plug No.2) K0+730.50-0+733.50 Contact grouting (Qty 14pcs grouted) From DTA D/S shifting of scaffolding pipe Arrangment and Install of formwork and supporting pipes	K0+730.50- 0+733.50 Pouring of pludge concrete (3 <sup>rd</sup> lift) (Qty=60m3)	Plug No.3-Cleaning for plug concrete Cleaning for plug concrete	Plug No.3-Cleaning for plug concrete
<b>Traffic Diversion Tunnel Portal</b>	K0+750-K0+757 Fixing of wire mesh Fixing of wire mesh 2 <sup>nd</sup> layer shotcrete QTY (48m3) K0+757.3- Charging for blast Explosive QTY (250kg) Blast 6:04Hrs	K0+736-K0+757 Remedial shotcrete (Qty 16m3) K0+757.3- 0+760.8 Mucking and scaling spray first layer shotcrete (Qty16m3) K0+760.8- Survey for blast Drilling and charging for	K0+760.8-763 Mucking and scaling Mapping 1st layer shotcrete K0+763.7- Survey for blast Drilling for blast Charging for blast Blast 1:21Hrs Mucking and scaling El. 843-837 Excavation & Mucking	K0+763.7-K0+766.7 Mucking and scaling Spraying 1st layer shotcrete Marking for drilling Rock bolts K0+757 -K0+768 Drilling & Grouting for Rock bolts QTY (13pcs grouted)	K0+757-K0+768 Grouting for Rock bolts QTY (20 pcs grouted) and 2 holes collapsed) K0+768- Survey for blast Drilling for blast Charging for blast Blast 21:05Hrs Mucking

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	El. 843~837 Excavation & Mucking Fixing of wiremesh	blasting Blast 03:00Hrs Mucking El. 843~837 No work		El. 843~837 No work 7:00Hrs~17:30Hrs Excavation	El 843~838 Install and grouting of Rock bolts (Qty 15 pcs) El 838 Excavation and mucking
<b>Cable crane foundation (Right Bank)</b>	EL: 1060~1057 Excavation with excavator	EL: 1060~1057 Excavation with excavator	Arrangements for Grouting & install of Rock bolts (Qty 18pcs)	No work	No work
<b>Uchar New Crushing plant</b>	Batching plant area Stone masonry at Retaining Wall + Loading and excavation for power station Stone masonry at Retaining Wall for power station Fixing of formwork for piles concrete Removal of formwork under sedimentation tank Uchar crushing plant Removing of formwork + welding at vibration screen Welding work Welding work of feeder unit Fixing of formwork at main water tank	Batching plant area Stone masonry at Retaining Wall + Loading and excavation for power station Stone masonry at Retaining Wall for power station Uchar crushing plant Welding of conveyor belt line welding of vibration screen welding of feeder unit construction of water tank loading of conveyor belt line Fixing of form work for pile concrete, scaffolding for access of batching plant Embedded of cement shallow part	Stone masonry at Retaining Wall for generator room Leveling for concrete at storage Area Welding work at cement storage Area Removal of formwork under sedimentation tank	Stone masonry at Retaining Wall for generator room Welding ding at conveyor belt line Back filling at batching plant area Construction of water tank	Stone masonry at Retaining Wall for generator room Pouring of concrete at gallery foundation Welding work at screeming workshop Welding work + back filling at power plant area Removing of formwork at Main water tank
<b>Kass Camp</b>	Making of stone masonry wall at different locations Brick work for washrooms Making of steel stairs and welding Making of steel shelters Install of sewage pipe line Install of formwork for foundation area Excavation leveling and dumping area Fixing of electricity wire Install of windows frames for water proof washrooms + painting and white washing Pouring of foundation concrete QTY (14m3)	Pouring of foundation concrete at offices site Stone masonry wall at different locations Project leader ship dormitory and RAR 01 side wall Making of steel staris + welding + Making of steel shelters for chinese canteen Brick masonry work at washrooms Install of formwork for foundation concrete chinese dormitory Install of sewage pipe line system and backfilling Install of windows frame Water proofing at washroom	Making of stone masonry wall at different locations Brick work Brick masonry for septic tank Stones masonry at Brest Wall Install of sewage pipe line Plaster work Install of formwork for foundation area Excavation leveling and dumping Fixing of electricity wires Install of pre-cast room for project leadership dormitory	Making of stone masonry wall at different locations Brick work Brick masonry for septic tank Stones masonry at Breast Wall Install of sewage pipe line Plaster work Install of formwork for foundation concrete Excavation levelling and dumping Fixing of electricity wires Install of pre-cast room for project leadership dormitory	Making of stone masonry wall at different locations Install of electricity wires Construction of security check post Pouring concrete for offices foundation Making of steel stairs, shelters and welding work Fixing of electricity wires Install of sewage pipe line system and backfilling
<b>CR-5-2 / LU-2</b>	Excavation with excavator	Excavation with excavator	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking
Date/Day Location	<b>11 Fri.</b>	<b>12 Sat.</b>	<b>13 Sun.</b>	<b>14 Mon.</b>	<b>15 Tue.</b>
<b>Diversio Tunnel A INLET</b>	Roof Slab ( Part No.2) L/S+R/S No work (Top slab Part No.3) No work Out side Gate Portion Shifting of scaffolding Part No.03 Left & Right Wall Cleaning reinforcement Part No.02 Left & Right Wall(9th lift) No work K0+048~k0+060 Fixing of scaffolding	Roof Slab ( Part No.2) L/S+R/S Arrangment for Concrete (Top slab Part No.3) Out side Gate Portion No work Part No.03 Left & Right Wall Pouring of concrete (Qty 152m3) Part No.02 Left & Right Wall(9th lift) No work	Part No.01 Crown Formwork Fixing Part No.03 Crown Chipping	Surface cleaning Part No.02 Formwork Fixing Removal of scaffolding Part No.03 Crown Cleaning	Sludge removal Part No.02 crown Formwork support bars welding Part No.03 Crown Formwork Fixing
<b>Diversio Tunnel A UNDER GROUND</b>	INVERT U/S K0+098~0+110 Right side Cleaning surface for concrete K0+381~0+393 Right side No work INVERT D/S K0+513~0+540 Cleaning of sludge D/S K1+125~ K1+160 Right side Cleaning of sludge k1+444~k1+472 Fixing of rockbolt plates	INVERT U/S K0 +098~0+110 Right side No work K0+093~0 +098 Right side Pouring of 1m concrete (Qty 60m3). Finishing of concrete surface Left side K0+381 ~K0+393 Invert surface cleaning Pouring of concrete (Qty 128m3) INVERT D/S K0+513~0+540 Cleaning of sludge k1+444~1+472 Fixing of rockbolt plates D/S K1+125~ K1+160 Right side Cleaning of sludge from surface	INVERT U/S K0 +098~0+110 Right side Invert cleaning for 1m concrete Left side 0+381~K0+393 Finishing of concrete surface INVERT D/S K0+513~K0+540 Cleaning of sludge K0+741~K0+753 Left side Removal of water Pouring of invert 1m concrete Quantity poured 132m3 Finishing of concrete surface k1+444~ 1+480 Left & Right Wall Execution of 2nd layer shotcrete	INVERT U/S No Work INVERT D/S K0+741~0+753 Left side Finishing of concrete surface	INVERT U/S K0+333~K0+369 left side Cleaning for invert 1m concrete K0+098~K0+110 Right side Invert cleaning for 1m concrete Pouring of concrete Quantity 132m2 Finishing of concrete surface INVERT D/S K0+765~K0+753 Left side Formwork fixing & cleaning for 1m invert concrete Pouring of concrete Quantity 124m3 Finishing of concrete surface k1+445~ 1+478 Left & Right Wall Execution of 2nd layer shotcrete(40m3)
<b>Diversio Tunnel B</b>	Wing Wall No work (Transition Part)	Wing Wall No work (Transition Part)	Part No.04 (roof slab)	Part No.04 (roof slab)	Part No.01 & 02 (Roof slab) Shifting of scaffolding

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<b>Inlet Portal</b>	K0-026.00~K0+033.00 Pouring of concrete Gate Area: No work Middle pier K0+002.3 ~0-010 Left Wall K0+002 ~0-033 No work Right wall Part No.4 Right side K0+043~K0+052.5 Fixing of scaffolding Part1 and Part2 Removing scaffolding	K0-026.00~K0+033.00 Pouring of concrete Qty (687.9m3 concrete+ 24m3 mortar ) Chipping and removing of formwork + scaffolding pipe Gate Area: No work Middle pier K0+002.3~ 0-010 No work Left Wall K0+002.3~0-033 No work Right wall K0+002 ~0-033 No work Part No.4 Right side K0+043~ 0+052.5 Fixing of scaffolding Part1 and Part2 Cleaning of invert	Chipping Formwork removal Part No.01 & 02 (Roof slab) Formwork removal Removal of scaffolding Part No.4 Formwork Fixing Part No.01 Cleaning of invert	Chipping Part No.01 & 02 (Roof slab) Shifting of scaffolding Transition Part Cleaning of sludge Gate Area Chipping Part No.4 Fixing of scaffolding Part No.01 Fixing of scaffolding	Transition Part Cleaning of sludge Cleaning of sludge Gate Area Chipping & cleaning Part No.4 Fixing of scaffolding Part No.01 Fixing of scaffolding
<b>Diversion Tunnel B UNDER GROUND</b>	Invert U/S K0+242~0+254 Left side Surface finishing of invert concrete Shear zone area Part No.3 Part No.02 Fixing of scaffolding,formwork cleaning of reinforcement Part No 01 Adjustment of scaffolding Part No 03 Adjustment of formwork and chipping Invert D/S No work D/S K1+252~1+285 L+R Wall Arrangement for 8m rockbolt Install of 8m rockbolt R/S K1+150~1+110 (2nd & 3rd Bench) Excavation and loading Right side K1+110~ Drilling for blast Charging for blast Blast 2:30Hrs Mucking and loading	Invert U/S No work Shear zone area Part No.02 Install of formwork Fixing of scaffolding and cleaning of steel Part No 01 Adjustment of scaffolding + formwork Fixing of scaffolding + welding work Part No 03 Cleaning and arrangement for concrete Arrangement for concrete Invert D/S No work D/S K1+250~1+282 Left Wall Fixing of rockbolt plates R/S K1+150~K1+110 (2nd & 3rd Bench) Excavation and mucking	Invert U/S No work Shear zone area Part No.02 Install of formwork Part No 01 Steel Fixing Formwork Fixing Part No 03 Cleaning and arrangement for concrete Invert D/S K0+560~ Sludge removal from invert surface R/S K1+150~K0+995 (2nd & 3rd Bench) Excavation and mucking	Invert U/S No work Shear zone area Part No.02 Fixing of scaffolding Part No 01 Formwork Fixing Fixing of scaffolding Part No 03 8th lift Arrangement for concrete Pouring of concrete Invert D/S R/S K1+150~ Drilling for blast Charging and blast Excavation & mucking K1+228~ Charging for blast blast 23:00Hrs Excavation & mucking	Invert U/S No work Shear zone area Part No.02 Welding of formwork support bars Fixing of scaffolding Part No 01 Formwork Fixing Part No 03 8th lift Pouring of concrete Quantity 535m3 Invert D/S K0+580~ Sludge removal R/S K1+100~ Excavation & mucking K1+140~ Drilling for blast Charging blast 10:15Hrs Excavation & Mucking
<b>STARTER DAM</b>	Trial Test	Trial Test	Trial Test	Trial Test	Trial Test
<b>ADIT 3</b>	Plug No.3-Shifting of formwork	Adit 3-1 Plug Fixing of formwork Fixing of formwork + Adjustment & fixing of concrete pipe	Adit 3-1 Plug Fixing of formwork Arrangement for concrete	Adit 3-1 Plug Arrangement for concrete Pouring of concrete	Adit 3-Plug 02 Removal of formwork
<b>Traffic Diversion Tunnel</b>	K0+768~ Mucking Spraying 1st layer shotcrete (Qty 4m3) K0+770~ Survey for blast Drilling for blast charging for blast Blast 18:05Hrs Explosive QTY (250kg) K0+770~ Mucking and loading Charging for additional blast Blast 23:44Hrs Mucking and loading EI 843~838 Fixing of wiremesh EI 838 ~ Excavation and mucking	K0+772~ Charging for blast Blast 11:25hr. Mucking and scaling Mucking and excavation Spraying 1st layer shotcrete EI 843~838 Grouting and install of rockbolt Install of wiremesh Excavation and mucking	K0+767~K0+774 Drilling for Rock bolts Grouting & install of Rock bolts K0+757~ Fixing of wiremesh EI 843~838 Execution of 1st layer shotcrete	K0+762~ Fixing of wire mesh EI 843~838 Excavation & mucking	K0+757~K0+772 Execution of 2 <sup>nd</sup> layer shotcrete K0+774~ Survey for blast K0+776~ Drilling for blast delayed due to water shortage EI 834~838 Drilling for blast Excavation & mucking
<b>Cable crane foundation (Right Bank)</b>	No work	No work	Base Elevation 1019.88 Elevation of working area 1060~1057 Drilling for Rockbolt	Base Elevation 1019.88 Elevation of working area 1060~1057 Drilling for Rock bolts	Base Elevation 1019.88 Elevation of working area 1060~1057 Drilling for Rock bolts
<b>Uchar New Crushing plant</b>	Stone masonry at Retaining Wall for generator room Leveling and backfilling at power plant area Concrete curing at gallery foundation Welding work at screening workshop Welding work at conveyor belt Removing of scaffolding and formwork at main retaining wall	Retaining wall 1 stone masonry Batching plant Assembling of cells part Screening Workshop 1,2,3 Welding work of different parts. Storage area concrete wall Excavation by jack hammer steel fixing Crush plant Fixing of mechanical parts and welding work	Retaining wall 1 stone masonry No work Batching plant Assembling of cells part Breaking of stones with jack hammer Screening Workshop 1,2,3 Welding work of different parts. Storage area concrete wall Excavation by jack hammer steel fixing Crush plant Fixing of mechanical parts and welding work Pouring of	Stones masonry at retaining wall No.01 Assembling of mechanical parts at batching plant Welding work at conveyor belt line & screening workshops Construction of water Tank Breaking of stones with jack hammer at batching plant area	Stone masonry work at Wall Drilling for boulder blast at batching plant area Excavation & mucking welding work at conveyer belt line Welding work at screening workshops Welding work at conveyor belt line Breaking of stones with jack hammer



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			concrete at conveyor belt foundation		
<b>Kass Camp</b>	Making of stone masonry wall at different location Pouring concrete for foundation White washing + painting Brick work and plaster work Stones masonry at Breast Wall Install of sewage pipeline Fixing of electricity wires Making of steel stair and steel shelter Install of edge protection Construction of security check post	Making of stone masonry wall at different location White washing + painting Brick work and plaster work Stones masonry at Breast Wall Install of sewage pipeline Fixing of electricity wires Making of steel stair and steel shelter Install of edge protection Construction of security check post	Making of stone masonry wall at different location White washing Brick masonry work Stones masonry at Breast Wall Install of sewage pipelines Fixing of electricity wires Install of edge protection Construction of security check post	Making of stone masonry wall at different location White washing Brick masonry work Stones masonry at Breast Wall Install of sewage pipelines Fixing of electricity wires Install of edge protection Construction of security check post	Making of stone masonry wall at RAR-01 White washing Construction of septic tank Stones masonry at Breast Wall Install of sewage pipelines Welding work at chinese dormitory
<b>CR-5-2 / LU-2</b>	Excavation & Mucking	Excavation & Mucking	No work	No work	Excavation & Mucking
Date/Day Location	<b>16 Wed.</b>	<b>17 Thu.</b>	<b>18 Fri.</b>	<b>19 Sat.</b>	<b>20 Sun.</b>
<b>Diversion Tunnel A INLET</b>	Removal of sediments Part No.02 crown Arrangement for concrete Part No.03 Crown No Work	Removal of sediments Part No.02 crown No Work Part No.03 Crown Arrangement for concrete	Gate slot Area Cleaning of sediments Chipping & cleaning Part No.02 crown Pouring of concrete Quantity 204.8m3 Mortar=12m3 Part No.03 Crown No Work	Gate slot Area Removal of sediments Cleaning Part No.02 Removal of formwork support bars Part No.03 Crown 10th lift Arrangements for concrete	Gate slot Area Removal of sediments Cleaning Part No.02 Removal of formwork support bars Part No.03 Crown 10th lift Arrangements for concrete
<b>Diversion Tunnel A UNDER GROUND</b>	INVERT U/S K0+122~0+110 Right side Drilling for rock dowels in invert Grouting & install of rock dowels Cleaning for invert 1m concrete pouring of concrete Quantity 120m3 Finishing of concrete surface INVERT D/S K0+765~K0+753 Left side Finishing of concrete surface K0+765~K0+777 Left side Cleaning of invert for 1m concrete Pouring of invert 1m concrete Quantity 120m3 Finishing of concrete surface	INVERT U/S K0+122~0+110 Right side Finishing of concrete surface K0+122~K0+134 Right side Cleaning for invert 1m concrete Drilling in invert for rock dowels Grouting & install of rock dowels INVERT D/S K0+777~0+789 Left side Invert cleaning for 1m concrete Pouring of invert 1m concrete Quantity 116m3 Finishing of concrete surface K0+765~K0+777 Left side Finishing of concrete surface	INVERT U/S K0+122~0+134 Right side No Work INVERT D/S K0+777~K0+789 Left side Finishing of concrete surface K0+789~K0+801 Left side Cleaning for invert 1m concrete	INVERT U/S K0+122~0+134 Right side Pouring of invert 1m concrete Quantity 120m3 Finishing of concrete surface K0+134~ Right side Cleaning of lean surface INVERT D/S K0+789~0+801 Left side Pouring of invert 1m concrete Quantity 126m3 Finishing of concrete surface K0+813~ Left side Removal of sediments & cleaning	INVERT U/S K0+134~0+141 Right side Cleaning for invert 1m concrete Pouring of invert 1m concrete Quantity 70m3 Finishing of concrete surface INVERT D/S K0+801~0+813 Left side Invert cleaning for 1m concrete Pouring of invert 1m concrete Quantity 132m3 Finishing of concrete surface
<b>Diversion Tunnel B Inlet Portal</b>	Roof slab Fixing of formwork Part.4 (Top slab) Gate Area Assembling of formwork Cleaning work Transition Part Cleaning Part No.4 Fixing of formwork Fixing of scaffolding Part No.01 Fixing of scaffolding	Gate slot Area Chipping & cleaning Transition Part-4 (Top slab) Removal of formwork Part No.4 Fixing of formwork Fixing of scaffolding Part No.01 Fixing of scaffolding Part No.02 & 03 Removal of formwork	Gate slot Area Chipping & cleaning Transition Part-4 (Top slab) Fixing of formwork Part No.4 Fixing of formwork Part No.01 Fixing of Formwork Fixing of scaffolding Part No.02 & 03 Removal of formwork	Gate slot Area Form work fixing Sediments removal Outside Unloading of different parts of mecahanical Gate Part No.4 Fixing of scaffolding Part No.01 Fixing of scaffolding Part No.02 & 03 No Work	Sill Beam Lifting of Gate parts through slot Transition Part.4 (2nd lift vertical portion) Formwork fixing Part No.4 Fixing of formwork Fixing of scaffolding Part No.01 Fixing of scaffolding Part No.02 & 03 Removal of formwork
<b>Diversion Tunnel B UNDER GROUND</b>	Invert U/S No work Shear zone area Part No.02 Formwork & scaffolding fixing Steel Fixing Part No 01 Formwork Fixing Steel Fixing Part No 03 Curing of concrete Invert D/S No work K1+140~ Excavation & Mucking K1+090~ Left wall Drilling for blast Charging blast 00:50Hrs Excavation & mucking	Invert U/S No work Shear zone area Part No.02 Fixing of scaffolding Part No 01 Steel Fixing Part No 03 crown Curing of concrete Pouring of concrete Quantity 124.5m3 Invert D/S No work K1+090~ Right side Excavation & mucking K1+140~ 1+150 Right side Excavation & mucking K1+080~ Right side Drilling for blast Charging Blast 00:40Hrs Excavation & mucking	Invert U/S No work Shear zone area Part No.02 Fixing of form work Part No 01 Steel Fixing Part No 03 crown Pouring of concrete Quantity 127.8m3 Mortar=74m3 Invert D/S No work K0+990~K1+110 Right side Invert suraface excavation & mucking K0+085~K1+155 Right Wall Install of thickness pins Execution of 1st layer shotcrete(40m3) K1+074~ Right side Drilling for blast Charging Blast 2:35Hrs Excavation & mucking	Invert U/S No work Shear zone area Part No.02 Fixing of formwork Part No 01 Steel Fixing Steel Fixing Part No 03 crown Curing Invert D/S No work K0+990~K1+120 Right side Excavation & scaling K1+120~ Right side Drilling for blast Charging Blast 15:50Hrs Excavation & mucking K1+252~K1+272 Left & right wall Arrangement for grouting Grouting & install of Rock bolts (L=8m)	Invert U/S No work Shear zone area Part No.02 Fixing of formwork Part No 01 Left & Right Wall 6th lift Steel Fixing & arrangement for concrete Pouring of concrete Quantity 144m3 Part No 03 crown No Invert D/S No work K1+054~ Right side Invert excavation & mucking K0+980~K1+054 Right Wall Execution of 1st layer shotcrete (40m3) K1+120~K1+155 Drilling for Rock bolts K0+986~ 1+120 Right Wall Grouting & install of Rock bolts

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**Appendix K [9/35]**

STARTER DAM	Trial Test	Trial Test	Trial Test	Trial Test	Trial Test
<b>ADIT 3</b>	Adit 3-Plug 03 Formwork fixing Arrangement for concrete	Adit 3-Plug 03 Arrangement for concrete	Adit 3-Plug 03 Pouring of concrete Quantity poured=70m3	Adit 3-Plug 03 Chipping & cleaning	Adit 3-Plug 03 Removal of formwork
<b>Traffic Diversion Tunnel Portal</b>	K0+776 Drilling for blast Charging Blast 2:40Hrs Excavation & mucking EI 834-838 Drilling for blast Excavation & mucking Drilling for blast Charging blast 2:35Hrs	K0+776~ Excavation & mucking Geological mapping Execution of 1st layer shotcrete EI 834~838 Charging blast 11:40Hrs Excavation & mucking	K0+778.8~ Drilling for blast Charging Blast 11:30Hrs Excavation & mucking Execution of 1st layer shotcrete K0+781.8~ Survey for blast Drilling for blast EI 834~838 Excavation & mucking Drilling for Rock bolts & canopy tubes Install of canopy tubes Grouting & install of Rock bolts	K0+781.8~ Drilling for blast Charging Excavation & mucking Execution of 1st layer shotcrete (8m3) K0+750~K0+772 Execution of 2 <sup>nd</sup> layer shotcrete 16m3 EI 834~838 Excavation & mucking Drilling for canopy tubes Install of canopy tubes Excavation & mucking	K0+775~K0+784 Drilling for Rock bolts Grouting & install of Rock bolts Extension of ventilation Duct K0+784.8~ Drilling for blast Charging Blast 3:50Hrs Excavation & mucking EI 834~838 Drilling for canopy tubes Install of Wiremesh Excavation & mucking Grouting & install of Rock bolts Install of canopy tubes
<b>Cable crane foundation (Right Bank)</b>	Base Elevation 1019.88 Elevation of working area 1060-1057 Drilling for Rock bolts	Base Elevation 1019.88 Elevation of working area 1060-1057 Drilling for Rock bolts	Base Elevation 1019.88 Elevation of working area 1060-1057 Drilling for Rock bolts	Base Elevation 1019.88 Elevation of working area 1060-1057 Drilling for Rock bolts	Base Elevation 1019.88 Elevation of working area 1060-1057 Drilling for Rock bolts
<b>Uchar New Crushing plant</b>	Stone masonry work at Wall No.01 Drilling for boulder blast at Wall No.01 Excavation & mucking at Wall No.01 Unloading batching plant parts Welding work at screening workshops & conveyor belt line Welding work at conveyor belt line Breaking of stones with jack hammer	Stone masonry work at Retaining Wall No.01 Excavation & mucking Breaking of stones with jack hammer welding work at conveyor belt line Welding of safety grills Welding work at screening workshop Welding work at conveyor belt line Breaking of stones with jack hammer	Stone masonry work at Retaining Wall No.01 Excavation & mucking Breaking of stones with jack hammer welding work at conveyor belt line Welding of safety grills Welding work at screening workshop Welding work at conveyor belt line Breaking of stones with jack hammer Pouring of concrete at water Tank Quantity=26m3	Stone masonry work at Retaining Wall No.01 Backfilling at retaining Wall No.01 Welding of silo parts at batching plant area Assembling of mechanical parts Formwork fixing for boundary Walls Welding work at conveyor belts line Removal of form work at water tank Welding work at screening workshop	Stone masonry at retaining wall No.01 Excavation & leveling at retaining wall No.01 Assembling of batching plants parts Welding of safety fence Welding work at conveyor belt line Breaking of stones with jack hammer Excavation & mucking at batching plant area
<b>Kass Camp</b>	Making of stone masonry wall at RAR-01 White washing Construction of septic tank Stones masonry at Breast Wall Install of sewage pipelines Welding work at chinese dormitory	Fixing of electric wires Making of stone masonry wall at RAR-01 White washing Construction of septic tank Stones masonry at Breast Wall Making of steel stairs Welding of embedded parts at Chinese dormitory	Fixing of electric wires Making of stone masonry wall at RAR-01 White washing Construction of septic tank Stones masonry at Breast Wall Making of steel stairs Welding of embedded parts at Chinese dormitory	Fixing of doors for rooms Making of stone masonry wall at RAR-01 White washing Install of formwork for concrete Stones masonry at Breast Wall Plaster work for washrooms Install of sewage pipelines	Fixing of electric wires Making of stone masonry wall at RAR-01 White washing Construction of septic tank Stones masonry at Breast Wall Making of steel stairs Welding of embedded parts at Chinese dormitory
<b>CR-5-2 / LU-2</b>	Excavation & Mucking	Excavation & Mucking Wiremesh fixing	Excavation & Mucking Wiremesh fixing	Excavation & Mucking	Excavation & Mucking
Date/Day Location	<b>21 Mon.</b>	<b>22 Tue.</b>	<b>23 Wed.</b>	<b>24 Thu.</b>	<b>25 Fri.</b>
<b>Diversion Tunnel A INLET</b>	Gate slot Area Cleaning & chipping Part No.02 No Work Part No.03 Crown 10th lift Pouring of concrete Quantity poured (C-35=227m3 & Mortar=18m3)	Part No.02 No Work Part No.03 Crown Removal of scaffolding	Part No.02 Removal of scaffolding Part No.03 Crown Removal of scaffolding	Part No.02 Removal of scaffolding Part No.03 Crown Removal of scaffolding	Part No.02 & Part No.03 Removal of formwork & Curing
<b>Diversion Tunnel A UNDER GROUND</b>	INVERT U/S K0+141~K0+153 Right side Cleaning for invert 1m concrete Pouring of concrete Quantity 116m3 Finishing of concrete surface INVERT D/S K0+813~K0+825 Left side Invert cleaning for 1m concrete Pouring of concrete Quantity 132m3 Finishing of concrete surface	INVERT U/S K0+141~0+153 Right side Finishing of concrete surface K0+153~K0+165 Right side Invert cleaning for 1m concrete Pouring of invert 1m concrete Quantity 116m3 INVERT D/S K0+813~K0+825 Left side Finishing of concrete surface K0+429~K0+41 Left side Invert cleaning for 1m concrete K0+837~ 0+825 Left side Invert cleaning for 1m concrete Pouring of invert 1m concrete Quantity poured=144m3 Finishing of concrete surface	INVERT U/S K0+153~0+165 Right side Finishing of concrete surface No Work INVERT D/S K0+837~0+825 Left side Finishing of concrete surface	INVERT U/S K0+165~0+177 Right side Invert cleaning for 1m concrete INVERT D/S K0+837~0+849 Left side Invert cleaning for 1m concrete Pouring of concrete Quantity 129m3 Finishing of concrete surface K0+429~K0+441 Left side Pouring of invert 1m concrete Quantity 116m3 Finishing of concrete surface K1+400~ Left & Right Wall Drilling for weepholes	INVERT U/S K0+165~0+177 Right side Invert cleaning for 1m concrete Pouring of invert 1m concrete Quantity 108m3 Finishing of concrete surface INVERT D/S K0+849~0+861 Left side Invert cleaning for 1m concrete Pouring of invert 1m concrete Quantity 132m3 Finishing of concrete surface K0+441~ 0+453 Left side Invert cleaning for 1m concrete Pouring of invert 1m concrete Quantity 125m3 D/S K1+150~ Invert excavation & mucking
<b>Diversion Tunnel B Inlet Portal</b>	Sill Beam Lifting of Gate parts through slot Transition Part.4 (2nd lift vertical portion) Formwork fixing Part No.4 Fixing of scaffolding Part No.01	Sill Beam Cleaning & arrangement for concrete Transition Part.5 Arrangement for concrete Part No.4 Fixing of scaffolding Fixing of formwork Part No.01	Sill Beam (2 <sup>nd</sup> stage concrete) Right side Cleaning & arrangement for concrete Pouring of concrete Quantity 72m3 Transition Part.5 Pouring of concrete Part No.4	Transition Part V Pouring of concrete Quantity 446m3 Sill Beam Left side (2 <sup>nd</sup> stage concrete) Arrangement for concrete Part No.4 Fixing of formwork	Transition Part V Curing of concrete Sill Beam Left side (2nd stage concrete) Arrangement for concrete Part No.4 Fixing of formwork Steel Fixing Part No.01 Fixing of

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	No Work Part No.02 & 03 No Work	Fixing of scaffolding Part No.02 & 03 Removal of scaffolding	No Work Part No.01 Fixing of scaffolding Part No.02 & 03 Removal of scaffolding	Part No.01 Fixing of scaffolding Part No.02 & 03 No Work	scaffolding Part No.02 & 03 Removal of formwork
<b>Diversion Tunnel B UNDER GROUND</b>	Invert U/S No work Shear zone area Part No.02 No Work Part No 01 Left & Right Wall Curing & Green cutting Steel fixing Part No 03 crown No Work Invert D/S No work K0+980~ 1+040 Right Wall Drilling for Rock bolts 10:00Hrs~17:30Hrs K1+040~K1+130 Right Wall Grouting & install of Rock bolts	Invert U/S No work Shear zone area Part No. 02 No Work Part No 01(7 <sup>th</sup> lift) Left & Right Wall Steel fixing Part No 03 crown Removal of scaffolding Invert D/S No work K0+980~ 1+040 Right Wall Drilling for Rock bolts Grouting & install of Rock bolts K1+040~ 1+130 Right Wall Grouting & install of Rock bolts K0+980~ 1+050 Execution of 2 <sup>nd</sup> layer shotcrete	Invert U/S No work Shear zone area Part No.02 Formwork fixing Steel Fixing Part No 01(7 <sup>th</sup> lift) Left & Right Wall Steel fixing Part No 03 crown No Work Invert D/S No work K0+980~ 1+050 Right Wall Execution of 2nd layer shotcrete(40m3) K0+908~ Left Wall Drilling for weepholes K1+260~K1+285 Drilling for Rock bolts	Invert U/S No work Shear zone area Part No.02 Left & Right Wall 6th lift Pouring of concrete Part No 01 (7th lift) Left & Right Wall Steel fixing Part No 03 crown No Work Invert D/S No work K1+150~ Right side Drilling for blast Charging Blast 16:30Hrs Excavation & mucking K1+252~ 1+265 R/W & K1+230~K1+250 L/W Drilling for remaining Rock bolts Grouting & install of Rock bolts	Invert U/S No work Shear zone area Part No. 02 Left & Right Wall 6th lift Pouring Quantity 167m3 Part No 01 (7th lift) Left & Right Wall Steel fixing Part No 03 crown No Work Invert D/S No work K1+150~ Right side Excavation & mucking K1+155~ Drilling for blast Charging for blast Blast 14:30Hrs Excavation & mucking
<b>STARTER DAM</b>	Trial test	Trial test	Trial test	Trial test	Trial test
<b>ADIT 3</b>	Adit 3-Plug 03 Removal of formwork	Adit 3-Plug 03 (3rd lift) Fixing of formwork	Adit 3-Plug 03 (3rd lift) No Work	Adit 3-Plug 03 (3rd lift) Pouring of concrete Quantity poured=52m3	Adit 3-Plug 03 (3rd lift) Curing of concrete
<b>Traffic Diversion Tunnel Portal</b>	K0+784.8~ Excavation & mucking Drilling for additional blast Charging Blast 13:55Hrs Mucking Execution of 1st layer shotcrete (8m3) K0+787 Survey for blast Drilling for blast Charging Blast 3:40Hrs Excavation & mucking EI 834~838 Excavation & mucking Arrangement for 2nd layer shotcrete Execution of 2nd layer shotcrete Grouting for canopy tubes	K0+787.5~ Excavation & mucking Execution of 1st layer shotcrete K0+745 ~K0+770 Spraying remedial shotcrete K0+790~ Drilling for blast Charging Blast 6:40Hrs K0+772~ Fixing of wire mesh EI 834~838 Excavation & mucking Grouting for canopy tubes	K0+790~ Excavation & mucking Execution of 1st layer shotcrete K0+772~ Fixing of wiremesh K0+793~ Drilling for blast Charging Blast 4:00Hrs Excavation & mucking EI 834~838 Drilling for Rock bolts Excavation & mucking Fixing of wiremesh	K0+793~ Excavation & mucking Execution of 1st layer shotcrete K0+777~ Fixing of wiremesh K0+784~ Drilling for Rock bolts EI 834~838 Excavation & mucking Grouting & install of Rock bolts Fixing of wiremesh	K0+784~ Drilling for Rock bolts Arrangement for grouting Grouting & install of Rock bolts K0+795~ Drilling for blast Charging for blast Blast 4:20Hrs Excavation & mucking EI 833~835 Excavation & mucking Arrangement for 2nd layer shotcrete Execution of 2nd layer shotcrete (5m3)
<b>Cable crane foundation (Right Bank)</b>	Base Elevation 1019.88 Elevation of working area 1060~1057 Install of Rock bolts (L=10m)	Base Elevation 1019.88 Elevation of working area 1062~1057 Grouting & install of Rock bolts (L=10m)	Base Elevation 1019.88 Elevation of working area 1062~1057 Grouting & install of Rock bolts (L=10m)	Base Elevation 1019.88 Elevation of working area 1062~1057 Grouting & install of Rock bolts (L=10m)	Base Elevation 1019.88 Elevation of working area 1062~1057 Grouting & install of Rock bolts (L=10m)
<b>Uchar New Crushing plant</b>	Stone masonry at retaining wall No.01 Breaking of stones with jack hammer Assembling of batching plants parts Welding work at screening workshop Welding work at conveyor belt line Breaking of stones with jack hammer Excavation & mucking at batching plant area	Breaking of stones with jack hammer at batching plant area Stones masonry at retaining Wall 01 Welding work at conveyor belt line & screening workshop Assembling of batching plant equipment Breaking of stones with jack hammer Welding work at screening workshops	Stones masonry work at retaining wall 01 Drilling for boulder blast Assembling of mechanical parts at batching plant area Welding work at conveyor belt line & safety grill Install of scaffolding Breaking of stones with jack hammer	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 & safety grill Breaking of stones with jack hammer Steel Fixing at storage area	Stones masonry work at retaining wall 01 Backfilling at wall No.01 Assembling of mechanical parts at batching plant area Welding work at conveyor belt line & safety grill Breaking of stones with jack hammer Steel Fixing at Partition Wall storage area
<b>Kass Camp</b>	Plaster work for washrooms Making of stone masonry wall White washing Construction of septic tank Stones masonry at Breast Wall Install of swage pipelines Welding of embedded parts at chinese dormitory Brick masonry work	Plaster work for washrooms Making of stone masonry wall Making of septic tank Stones masonry at Breast Wall Install of swage pipelines Install of electric wires masonry work for check post	Plaster work for washrooms Making of stone masonry wall Making of septic tank Stones masonry at Breast Wall Install of swage pipelines Install of electric wires Masonry work for check post	Electrical wires fitting Making of stone masonry wall Dumping & leveling Install of swage pipelines Making of septic tank at different locations Masonry work for check post	Welding work for shelters Making of stone masonry wall Dumping & leveling Install of swage pipelines Making of septic tank at different locations Install of doors for rooms
<b>CR-5-2 / LU-2</b>	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking	Excavation & Mucking

**Daily Work Records of MW-02**

Date/Day Location	1 Tuesday	2 Wednesday	3 Thursday	4 Friday	5 Saturday	6 Sunday	7 Monday
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.	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.	Day Ch: K0+053.5 (approx.) No activity due to lack of resources  Night 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 Pilot Tunnel I-2	Day F.ch:0+241.0 Ch. 0+15.0~0+002 Drilling for bench 16 holes done and in progress Ch. 0+30.0~0+40.0 Excavation with jack hammer. Night F.ch:0+241.0 Ch. 0+15.0~0+000 Drilling for bench blast at	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 F. Ch:0+241.0~(D/S) Ch.: 0+000 (At Face) No Activity



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Transformer Cavern Bench II-1	F.ch:0+241.0 Ch.0+200 – 225 Mucking of II-1 bench Night F.ch:0+241.0 Ch:0+195.0~185.0 Drilling for Benching Blast Charging and blast conducted	Day F.ch:0+241.0 Ch. 0+15.0-0+000 08:00-16:10) Mucking Note: Mucking stop due to shotcrete jumbo are breakdown at Tc junction. Note: Ventilation and lighting problem in TC.  Night F.ch:0+241.0 Ch. 0+35-0+25 03:00-) Mucking	F.ch:0+241.0 Ch.:0+035-0+25 08:00-) Mucking is in progress Night F.ch:0+241.0 Ch.:0+020-0+10 20:00-) Mucking	Day F.ch:0+241.0 Ch.:0+30-0+00 13:00-Mucking in progress. Night F.ch:0+241.0 Ch.:0+005-0+002 20:40-00:25) Drilling for blast 1:20- 2:00) Charging for blast (Expo=20 kg)	day F.ch:0+241.0 Ch.:0+20-0+00 8:00- - Mucking 0+000 - 0+035 14:30 - Removal of under breaks and loose material from sides Night F.ch:0+241.0 No activity	Day F.ch:0+241.0 0+000 - 001 14:30 -) Drilling for bench blast via leg drill Night F.ch:0+241.0 0+000-0+002 20:30-21:10) Drilling for bench blast via leg drill 21:20-22:00) Charging (Exp=16Kg) Waiting to finish WPT 00:43) Blast conducted 01:00-02:20) Mucking and Scaling	F.ch:0+241.0 Ch.:0+238 D/S 20:00-22:00) Mucking and scaling Ch. 0+000 (U/S) Day-21:00) Drilling for additional blast conducted 22:30-00:20) Mucking and scaling
Transformer Cavern Pilot Tunnel I-1 & I-3	Day Tc i3 F. Ch: 0+241.0 (D/S) No Activity  Night TC I 1 F.ch:0+241.0 No Activity	TC I 1 Face change 0+241 No Activity 13 F. Ch: 0+241.0 (D/S) No Activity.	TC I 1 F.ch:0+241.0 No Activity I 3 F. Ch: 0+241.0 (D/S) No Activity.	Tc I1 F.ch:0+241.0 Ch.: 0+190-0+200 23:00- ) Drilling for trail PS tendon up to 6m (4 holes drilled) is in progress. . Tc I3 F. Ch: 0+241.0 (D/S) No Activity.	TC I 1 F.ch:0+241.0 Ch.: 0+200.50 21:30-23:00) Drilling for trail PS tendon up to 6m (2 holes drilled) I 3 F. Ch: 0+241.0 (D/S) No Activity	Tc i1 F.ch:0+241.0 20:40-00:30) Water pressure trial test for PS Tendon  Tc i3 Ch.: 0+036.75 - 051.75; 114.25 - 200 14:00 -) marking for missing rock dowels	TC I 1 F.ch:0+241. 8:00- Drilling for PS tendon 11m Tc I 3 Ch.: 0+036.75 - 14:00 -) marking for missing rock dowels
Powerhouse Cavern Pilot Tunnel (Left Crown Portion) I-2	F.CH Approx. 0+108.0(D/S) Ch.: 0+50-0+70.0 9:00_14:00) Mucking left side ramp Ch.:0+50.0-0+38.0 Mucking is in progress Ch.:0+38.0 12:40_Drilling for bench blast Night Ch0+48-54 Tensioning of Tensioned rock bolt	Day F. Ch:0+241.0~ approx. Ch.:0+187.45-0+193 .20 13:45-17:00) Tensioning of 07M tension rock bolts Trial test of PS tendon after 24hrs has been done. Location: P2-6 Night F.ch:0+241.0(D/S)	F. Ch:0+241.0~ approx. Ch.:0+211.6-0+10 10:00-17:10) Tensioning of 7m tension rock bolts P87-2(along=0.98mm) P89-1(Rejected, Head block cracked during tensioning of tension rock bolt) P87-1	Day F. Ch:0+241.0~ approx.  Ch.:0+211.6-0+228. 85 9:00-) Tensioning of 7m tension rock bolts  L99-5=2.87mm Night F.ch:0+241.0(D/S) No Activity	Day F.ch:0+241.0(D/S) 21:00-) Tensioning test of 7m tension rock bolts  Night No Activity	F.ch:0+241.0 (D/S) No Activity	Day F. Ch:0+241.0~ approx. No Activity  -More than 10 Convergence monitoring points between Ch.: 0+175 - 220 are damaged during blasting of benches
Powerhouse II-1 Bench	F.CH Approx. 0+108.0(D/S) Ch.: 0+50-0+70.0 9:00_14:00) Mucking left side ramp Ch.:0+50.0-0+38.0 8:00_Mucking is in progress Ch.:0+38.0 12:40_Drilling for bench blast 10 holes done and in progress Night F. Ch:0+241.0(D/S) Ch.: 0+038-0+028 22:45-03:30) Drilling for bench blast 03:35-) Charging for blast (225kg)  Ch.: 0+050-0+038 23:00- Mucking	Day F.CH Approx. 0+108.0(D/S)  Ch.:0+038. -0+018 8:20-15:40)) Mucking = Note: Mucking stop due to shotcrete jumbo are breakdown at Tc junction.  Ch.:0+28.0-0+018 08:36-) Drilling for bench blast 32 holes drilled & in progress Night F. Ch:0+241.0(D/S) Ch.: 0+028-0+018 19:00- 21:45) Charging for blast 23:55) Blast conducted  Ch.: 0+038-0+018 00:10-) Mucking of bench blast.  Ch.: 0+060-0+070 20:30-23:30) Excavation of II-1 left side by jack hammer.	Day F.CH approx. 0+108.0(D/S) Ch.:0+28.0-0+18.0 14:00-) Mucking  Ch.:0+18.0-0+08.0 16:05-) Drilling for bench blast  Ch.:0+28.0-0+18.0 20:25-) Mucking  Ch.:0+18.0-0+002 20:50-03:30) Drilling for bench blast (II-1 left part)  Note: Lighting & Ventilation problem in PH	Ch.:0+100-0+90 8:30-10:30) Invert excavation by jack hammer Ch.:0+28-0+18 13:00-Mucking in progress.  Night Ch. 0+28-0+18 20:30-2:30) Mucking  Ch.: 0+018-0+004 1:30-3:25) Charging for blast (Exp=250 kg)	Day F.ch:241.0 Ch.:0+28-0+04(u/s) 9:30- 16:00 Mucking and levelling Ramp  Note: > Lighting & Ventilation problem in PH Night Ch. 0+50-0+40 02:00-) Mucking of right ramp Ch.:040- 2:15- Drilling for bench blast right ramp  II-1, II-02(Right) Ch.:0+241 (Face) 02:35-) Fixing of Wire mesh	Day F.ch:241.0 0+000 - 040 (Right side ramp) 14:00 -) Drilling for bench blast (right side) 0+120 - 160 14:30 -) under breaks removal from invert by jackhammer 0+241 14:00 -) Installation of wire mesh on face  Night Ch. 0+30-0+60 (Right side ramp) 20:00-23:00) Charging for Invert blast (Exp=200Kg) 23:37) blast conducted 01:00-) Mucking Ch.:0+30- 02:00-) Drilling for bench blast right Ch.:0+241 20:30-) Installation of wire mesh on face	F.ch:241.0 0+50 - 0+30 (Right side ramp) 8:00- Mucking Ch.:0+30-00 9:15- Drilling for bench blast  Note: > Lighting & Ventilation problem in PH >Contractor is informed to maintain the house keeping /cleanliness & removal of slush. Night Ch. 0+30-0+08 (Right side ramp) Day-21:10) Charging for blast (Exp=175kg) 00:45) Blast conducted Ch.0+50-0+30 23:00-) Mucking
Powerhouse Cavern Pilot (Right Crown Portion)	I1 F. Ch:0+241.0(D/S)	Day F. Ch:0+241.0~ Approx. NO Activity	I 3 Day	I 1 F. Ch:0+241.0 (D/S) Ch.:0+241.0~	I 1 F. Ch:0+241.0(D/S) Ch.:0+241.0~	Ph. I 3 F. Ch:0+241.0 (D/S) I 2	Day F. Ch:0+241.0(D/S) Ch.:0+230-0+24

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I-1 & I-3	20:40-- Tensioning of tension rock bolts. Location: L65-5 (1.32mm) L64-5 (1.03mm) P65-1 (3.23mm) L66-5 (1.73mm) L67-5 (1.38mm) L69-5 (1.19mm) I3 F. Ch:0+241.0~ Approx. NO Activity	Night F. Ch:0+241.0(D/S) Ch.:0+241.0~ No Activity	F. Ch:0+241.0~ Approx. NO Activity  Night F. Ch:0+241.0~ Approx. NO Activity	I 3 F. Ch:0+241.0~ approx. NO Activity	No Activity Day No Activity I 3 F. Ch:0+241.0(D/S) Ch.:0+241.0~ No Activity Day No Activity	F. Ch:0+241.0(D/S) Ch.0+230~0+240 21:30~) Tensioning test of 7m tension rock bolts Location: L106-5=0.91mm L108-5=1.02mm L109-5=0.97mm p109-2=2.05mm	1 Tensioning of 7m tension rock bolts Location: Night F.ch:241.0 0+50 - 0+30 (Right side ramp) 8:00~ Mucking Ch.:0+30 Drilling for bench blast.
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& Night F. Ch:0+567.5~ No Activity due to resource limitations Night
Penstock Adit Tunnel towards Lower pressure Manifold area Tunnel No 1	PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area F.Ch. 0+028 Approx. (Pilot Tunnel) Enlargement section (09:00-11:00) Scaling of collapse area Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 20:25-00:30) 1st layer shotcrete at collapse area (Qty=12m³ PS)	No Activity PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area F.Ch. 0+028 Approx. (Pilot Tunnel) Enlargement section Ch.:0+008-0+013 08:10-16:45) Fixing of wire mesh Qty=42m² Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Enlargement section Ch.:0+005-0+000 (Manifold) 20:30-) Fixing of wire mesh 1st layer Qty=52.5	Day PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area F.Ch. 0+028 Approx. (Pilot Tunnel) Enlargement section Ch.:0+008-0+01 08:10-04:00) Fixing of wire mesh 08:10-04:00) Fixing of wire mesh	Day PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area F.Ch. 0+028 approx. (Pilot Tunnel) Enlargement section Ch.:0+000-0+010 08:10-) Installation of second layer wire mesh 63m² Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Enlargement section Ch.:0+000-0+005 (Manifold) 21:00-) Installation of second layer wire mesh (5 pcs)	Day PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area F.Ch. 0+028 Approx. (Pilot Tunnel) Enlargement section Ch.:0+000-0+010 08:00-) Installation of second layer wire mesh on crown portion (03 pcs) Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Enlargement section Ch.:0+000-0+010 (Manifold) 20:00-00:30) Rectification of 2nd layer of wire mesh 01:20-02:50) 3rd Layer shotcrete (Qty=16m³)	PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area F.Ch. 0+028 Approx. (Pilot Tunnel) Enlargement section Ch.:0+000-0+010 13:30 -) Drilling for rock dowels Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Enlargement section Ch.:0+000-0+005 20:20-23:45) Drilling for rock dowels (2rows) 23:55-) Installation of rock dowels is in progress	Day  Lower Pressure Tunnel-01-manifold area Night Lower Pressure Tunnel 01 Enlargement section Ch.0+000-0+01 0 21:30-23:00) Installation of rock dowels 23:00-02:00) Installation of rock dowels suspended due to jumbo break down 02:00-) Installation of rock dowels
Penstock Adit Tunnel towards Lower pressure Tunnel No 2-manifold area	PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) Plug Area Ch.:0+225.0~0+250.0 8:00-17:00) Manually Invert cleaning	PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) Plug Area Ch.:0+225.0~0+250.0 8:00-17:00) Manually Invert cleaning 10:30-15:30) Drilling of supporting bars for form working	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) Plug Area Ch.:0+225.0~0+250.0 8:00-) Manually Invert cleaning 09:30-) Drilling of supporting bars for form working	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) Plug Area Ch.:0+225.0~0+250.0 8:00-) For invert (Form working, cleaning, and drilling for support bars) in progress...	No Activity PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) Plug Area Ch.:0+225.0~0+250.0 8:00-) Formwork installation for invert bed concrete 14:30 - 15:00)	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) Plug Area Ch.:0+225.0~0+250.0 8:00-) Formwork installation for invert bed concrete Night No Activity	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) Plug Area Ch.:0+225.0~0+250.0 8:00-) Cleaning of invert and Formwork installation for

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			) Night PAT- 02 Design Excavation Completed Plug Area No Activity	Night PAT- 02 Design Excavation Completed Plug Area No Activity	grouting for invert rock dowels was suspended due to insufficient drilling depth. Night PAT design excavation is completed No Activity at plug Area		invert bed concrete Night PAT- 02 Design Excavation Completed Plug Area No Activity
Connection Tunnel to Powerhouse From STA	Day F. Ch:0+076 No activity due to resources limitation and shortage of labor  Night F. Ch:0+076 No activity due to resources limitation and shortage of workforce	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 workforce	Day F. Ch:0+076 No activity due to resources limitation and shortage of workforce  Night F. Ch:0+076 No activity due to resources limitation and shortage of workforce	Day F. Ch:0+076 No activity due to resources limitation and shortage of workforce  Night F. Ch:0+076 No activity due to resources limitation and shortage of workforce	Day F. Ch:0+076 No activity due to resources limitation and shortage of workforce  Night F. Ch:0+076 No activity due to resources limitation and shortage of workforce	Day F. Ch:0+076 No activity due to resources limitation and shortage of workforce  Night F. Ch:0+076 No activity due to resources limitation and shortage of workforce	Day F. Ch:0+076 No activity due to resources limitation and shortage of workforce  Night F. Ch:0+076 No activity due to resources limitation and shortage of workforce
STB from Powerhouse Connection Tunnel	F.Ch.0+099.0-(Ap prox.) Ch.:0+90.0~0+50.0 No activity Night F.Ch.: 0+098.0 21:30-21:50) Survey for blast 22:10-01:30) Drilling for blast  AFI not approved for blast.  Note: Ventilation problem in STB.	Day F.Ch.0+099.0~(Appr ox.) Ch.:0+90.0~0+50.0 No activity Night Ch.0+67~0+69 1 <sup>st</sup> Layer Shotcrete SF Night F.Ch.: 0+098.0 20:30-00:20) Drilling of support bars for ventilation duct. Ch.: 0+098.0~ 00:50~01:40) Charging for blast (50kg used) 01:50) Blast conducted 02:40~) Mucking	Day F.Ch.0+099.50~0+1 002.0 08:00~08:30) Mapping (Qv=1.45) 10:10~10:40) 1st layer Shotcrete (SF Qty=3m <sup>3</sup> ) 14:10~14:30) Survey for blast 16:10~19:30) Drilling for blast Night Junction Enlargement area Towards Left side Chamber #01 Ch.:0+35.0~0+43.0 20:30~) Installation and rectification of wire mesh	Day F.Ch.0+099.50~0+10 0.0 Ch.:0+60~0+90 9:30~10:20) Thickness test of shotcrete has been done. 11:00~11:30) Survey for blast 14:15~16:20) Drilling for blast Waiting for charging Night  F.Ch. 0+100.0 19:35) Blast conducted 23:30- Mucking and scaling is in progress.	Day F.Ch.0+102.0 Approx. Ch.:0+00 8:30~) Installation of exhaust fan Night F.Ch.: 0+100.0 No Activity	Day F.Ch.: 0+073.50 10:00 1320) Drilling for blast (holes) 1325 - 1400) Charging for blast (Exp= 48 kg) 14:05) Blast conducted 14:30) mucking Note: poor ventilation in STB  Night F.Ch. 0+100.0 Ch.:0+54~0+81 21:30-23:30) Pull out test (01pc)  Note: Ventilation problem in STB.	Day F.Ch.0+102.0 Approx. 14:00 - Pull out test for rock dowels  Note: -Ventilation problem in STB. Fan Not Operational Night F.Ch. 0+100.0 Ch.:0+54~0+81 No Activity Note: Ventilation problem in STB.
Surge Chamber Vault Access Tunnel	Day Towards Right side Chamber #02 No Activity Towards left side Chamber #01 F. Ch: 0+39.0~0+043.0 14:00_17:00 Grouting & Installation of rock dowels 15pcs Grouted Night Junction Enlargement area Towards Left side Chamber #01 Ch.: 0+039~0+043 21:15-22:45) Grouting of rock dowels (L=4m) (14 pcs grouted & 1 pc remaining) 6th not drilled at Ch.: 0+043. Ch.: 0+035~0+043 23:30-1:00) Fixing of wire mesh. (3 Pcs)	Day Towards Right side Chamber #02 No Activity Towards left side Chamber #01 08:00~) Installation of ventilation Exhaust fan. Ch.:0+35.0~0+43.0 8:00~) Installation of wire mesh Qty=63m <sup>2</sup> is in progress... Night Junction Enlargement area Towards Left side Chamber #01 Ch.: 0+035~0+043 21:00~) repairing of working platform	Day Towards Right side Chamber #02 No Activity Towards left side Chamber #01 Ch.:0+35.0~0+43.0 8:00~17:30) Installation of wire mesh Night Junction Enlargement area Towards Left side Chamber #01 Ch.:0+35.0~0+43.0 20:30~) Installation and rectification of wire mesh	Day Towards Right side Chamber #02 Ch.:0+23~0+25 13:20~14:10) 2nd layer shotcrete Ps Qty=8m <sup>3</sup> Towards left side Chamber #01 Ch.:0+35.0~0+43.0 15:30~16:00) Second layer shotcrete p Qty=8 Night Junction Enlargement area Towards Left side Chamber #01 Ch.:0+35.0~0+43.0 21:30~22:35) Second layer shotcrete (Qty=8m <sup>3</sup> ) 00:50-1:15) Invert leveling F.Ch: 0+045 1:40-2:00) Survey for blast 3:10- Drilling for blast is in progress.	Day Towards Right side Chamber #02 Ch.:0+23~0+25 Towards left side Chamber #01 Ch.:0+43 9:15~11:50) Charging for blast Explosive=175kg 12:30) Blast is conducted 13:00) Mucking and scaling Night  Junction Enlargement area Towards Left side Chamber #01 Ch. 0+43~ 20:30~00:00) Mucking and scaling 00:40-01:00) Mapping Qv=1.5	Day Towards Right side Chamber #02 Ch.:0+23~0+25 Towards left side Chamber #01 Ch.:0+46 Approx. 11:00~) Drilling for blast  Note: > Elevated temperature & Ventilation problem in VAT -delays in drilling due to frequent electricity breakdowns Night Junction Enlargement area Towards Left side Chamber #01 Ch. 0+46~ 20:00-21:30) Drilling for blast 21:40- 00:30) Charging Exp=175kg 00:58) Blast conducted 02:20~) Mucking  High temperature & Ventilation system is	Day Towards Right side Chamber #02 Ch.:0+25 Towards left side Chamber #01 Ch.:0+50 Approx. 08:30~) Mucking  Note: > Elevated temperature & Ventilation problem in VAT Night Junction Enlargement area Towards Left side Chamber #01 Ch. 0+47~ 20:30- 21:10) Charging for additional blast Exp=20kg 21:20) Blast conducted 22:00~01:30) Mucking and scaling 02:50~03:30) 1st layer shotcrete (Qty=8m <sup>3</sup> )  High temperature &

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						extremely poor in VAT	Ventilation system is extremely poor in VAT
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	Ch:0+80.0~0+200.0 12:00_15:20 Preparation of shotcrete 15:30_17:30 Shotcrete on slope 16m³ & in progress	Intake area El: 995.0 8:00_11:30 Excavation & mucking El: 993.0 Ch:0+150.0~0+200.0 10:30_12:00 Charging for blast 30 Holes depth=6m 12 Holes Depth=5m 20 Holes Depth=3m Total no of holes=62 12:25 Blast conducted. Lu Drilling for rock dowels	Lu1 Ch:0+200.0~0+120.0 7:30_5:00 Drilling for rock dowels Intake El: 993.0 8:00_17:00 Mucking	Intake El993 Mucking was in progress. Lu 1 Ch:0+075.0~0+80.0 & Ch:0+200.0~0+190.0) 10:46_12:00 Shotcrete on slope (Qty=12m³)	Intake Area El: 993.0 8:00_10:00 Mucking Lu 1 Ch:0+075.0~0+80.0 & Ch:0+200.0~0+190.0) No Activity due to rainy	Intake 1000 Excavation is in progress. Lu 1 Ch:0+075.0~0+80.0 & Ch:0+200.0~0+190.0) No Activity due to rainy	Intake El: 1000.0 13:00_17:00) Excavation Lu 1 Ch:0+075.0~0+80.0 & Ch:0+200.0~0+190.0) 11:00-14:00) Installation of wire mesh (2pcs)
CT-2 Adit Tunnel	F. Ch: 0+202 Ch0+199.0~0+202.0 8:15_9:00 1st layer PS shotcrete Qty=5m³ Ch:0+191.0~0+193.0 12:21_12:40 2nd layer PS shotcrete Qty=3m³ Ch:0+183~0+191.0 12:45_13:00 2nd layer of 2nd pass PS shotcrete Qty=2m³  Ch:0+202.0 13:20_14:00 Survey for blast Ch:0+194.0~0+197.0 14:00_14:30 Survey for rock dowels  Note: - Drilling does not start due D Jumbo is break down.	F. Ch: 0+205 Ch:0+202.0~0+205.0 Mucking & scaling Mapping Qv=1.5 Ch:0+194.0~0+Grouting & installation of rock dowels Qty=33pcs Grouted & 3 paces Remaining At Ch:0+194.0=R/w 1st remaining Ch:0+196.0=R/w 1st remaining Ch:0+197.0=R/w 1st remaining (Cement used 8505g) Ch:0+145.0~0+190.0 Thickness test of shotcrete Night Ch.:0+205~0+198.0~0+200.0 02:50~) Drilling for rock dowels is in progress	Day F. Ch: 0+208 Ch:0+205.0~0+208.0 Night_11:00 Mucking & scaling 11:30_12:00 Mapping Qv=2.08 Night Ch.:0+205~0+208 20:30-21:00) Shotcrete 1st layer (2.5m³) Ch.: 0+199~0+202 21:00-21:45) 2nd layer shotcrete (2.5m³) F. Ch: 0+208 21:50-22:20) Survey for blast 23:00- ) Drilling for blast	Day F. Ch: 0+211.0 Ch:0+208.0~0+211.0 Night Drilling for blast Charging for blast conducted Mucking is in progress Ch:0+203.0~0+205.0 Drilling for rock dowels Night F. Ch: 0+211.5 Ch.:0+202~0+204 Grouting of rock dowels (Qty= 27 pcs) Ch.: 0+208~0+211.5 Shotcrete 1st layer (2.5m³) Ch.: 0+202~0+205 2nd layer shotcrete (2.5m³) Ch.: 0+150~0+190 Joint bond test has been done.	Day F. Ch: 0+211.5 8:10_9:00 Survey for blast 9:30_13:00 Drilling for blast  Ch:0+205.0~208.0 13:00_Drilling for rock dowels is in progress Night F. Ch: 0+211.5 19:20~22:30) Mucking and scaling 23:10-23:30 Mapping Qv=2.08	Day F. Ch: 0+214.5 08:00 -) Drilling for Blast and rock dowels  Night F. Ch: 0+214.5~Day~20:30) Drilling for blast Ch. 0+209~0+211 20:30~00:40) Drilling for rock dowels 00:40~01:45) Charging for blast (Exp=225kg) 01:57) Blast conducted 02:30~) Mucking	Day F. Ch: 0+214.5 Grouting for rock dowels Qv = 2.08) Survey for blast Drilling for blast without 1st layer shotcrete at Ch.: 0+200 - 214 (Niche Area).  Night F. Ch: 0+218.0~Day~21:15) Drilling for blast Ch. 0+212~0+214 21:30~23:40) Drilling for rock dowels conducted Mucking
Switchyard Day work	No Activity	No Activity	No Activity	No Activity	No Activity	No Activity	Day work order
Switchyard Compound	EL 963 - 967 (5th layer) 9:00_13:00 ) Rectification of wire mesh at fifth layer center portion 13:00_15:35 Preparation of 2nd layer Shotcrete	Day EL 963 - 967 (5th layer) 8:00_13:00 2nd layer Shotcrete at center portion Qty=15m³  EL920	Day EL963 - 959 (5th layer) 8:00_Drilling for blast left side center portion.  EL920 7:30_ Excavation &	Day EL 961 - 957 (5th layer) 8:00_Excavation and mucking at fifth layer center portion right side	Day EL961 - 957 (5th layer) 7:40_Excavation by jack hammer at fifth layer center portion right side  EL920 No Activity	No Activity	Day EL 970 - 960(5th layer) No Activity  EL 920 No Activity  Night



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**Appendix K [16/35]**

Date/ Day Location	8 Tuesday	9 Wednesday	10 Thursday	11 Friday	12 Saturday	13 Sunday	14 Monday
	15:44_17:00 2nd layer Shotcrete Qty=10m <sup>3</sup> EL 960 - 963 (5th layer) 8:10_5:00) Excavation of center portion by jack hammer Night El: 940-950 (3rd layer) El: 950-960 (5th layer)	7:00_17:30 Excavation & mucking at left side Night El: 940-950 (3rd layer) El: 950-960 (5th layer)	mucking at left side Night El: 940-950 (3rd layer) El: 950-960 (5th layer)	No Activity Night El: 940-950 (3rd layer) El: 950-960 (5th layer)	Night El: 940-950 (3rd layer) El: 950-960 (5th layer)		El: 940-950 (3rd layer) El: 950-960 (5th layer)
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 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
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) 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+226.75~0+239.25 (I1, I2 & I3) 9:30-11:00) Grouting for rock dowels 4pcs  Note: Grouting is suspended due to access of leakage from the holes and packing are not properly done by the contractor.  Night 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) 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) No Activity

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<p>Transformer Cavern Bench II-1</p>	<p>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) Note: Ventilation and lighting problem in TC. Night F.ch:0+241.0 Ch.:0+02-0+10 U/S Day -21:30) Drilling for bench blast (left side Ramp) Note: <i>Ventilation and lighting problem in TC.</i></p>	<p>Day Ch.: 0+200 - 241 08:30 - 11:30) levelling of invert Ch. 0+30 - 0+15 13:00-) Mucking Note: Ventilation and lighting problem in TC. Night F.ch:0+241.0 (left side Ramp) Ch.:0+00-0+10 U/S 22:00-00:30) Charging for bench blast (Exp=125kg) 00:45) blast conducted 01:00-) Mucking Note: Ventilation and lighting problem in TC.</p>	<p>Day Ch.: 0+200 - 241 (left side Ramp) Ch. 0+20 - 0+00 8:00-11:30) Mucking of left side ramp Note: &gt;Ventilation and lighting problem in TC. Ventilation duct torn apart &gt; Issue is highlighted to contractor regarding improper Dewatering System at Ch.: 0+190 - 230 uneven levelling of invert. Night F.ch:0+241.0 (left side Ramp) Ch.:0+00-0+10 U/S Note: Ventilation and lighting problem in TC.</p>	<p>Day Ch.: 0+200 - 241 15:30 -) Drilling for dewatering pit at Ch.: 0+001 (Right side) Note: &gt; Issue is again highlighted to contractor regarding improper Dewatering System at Ch.: 0+190 - 230 uneven levelling of invert. Night F.ch:0+241.0 1, 2, and 3 Ch.:0+241 00:30-02:30) Removing of under break by jack hammer Note: Ventilation and lighting problem in TC.</p>	<p>F.ch:0+241.0 1, 2, and 3 Ch.:0+241 00:30-02:30) Removing of under break by jack hammer Note: Ventilation and lighting problem in TC.</p>	<p>Day F.ch:0+241.0 1, 2, and 3 Ch.:0+241 00:30-02:30) Removing of under break by jack hammer Note: Ventilation and lighting problem in TC.</p>	<p>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.</p>
<p>TC II-2(1) +TCII-2(2) (Left and Right)</p>	<p>Day F.ch:0+241.0 II-2 Right Ch.:0+ 105 U/S 9:00 -11:30) Mucking Ch:0+130-0+125 8:00- installation of 1st layer rebar mesh Ch.: 0+200 - 215 16:50 - 15:20) 1st layer SC Qty = 08m3 II-2 Left Ch:0+145-0+140 8:00- Installation of 1st layer rebar mesh Ch:0+110 U/S 9:30-11:30)) mucking Note: -Contractor is reminded again to install the required support work before advancing further. -lighting and Ventilation problem in TC Night F.ch:0+241.0 II-2 Right Ch. 0+239.5- D/S 22:30-11:20) Drilling for additional blast 02:20-02:45) Charging for blast (Exp=10kg) Waiting for Power house charging Ch.0+103- U/S 21:00-22:00) Drilling for blast 00:00-01:00) Charging for blast (Exp=30kg) Waiting for Power house charging II-2 Left Ch:0+140-0+135 20 :00-01:20) Installation of 1st layer rebar mesh Ch:0+110 U/S</p>	<p>Day F.ch:0+241.0 II-2 Right Ch.: 0+100 14:00 -) Survey for Blast 14:45 -) Drilling for Blast II-2 Left Ch:0+135 - 130 8:00- Installation of 1st layer rebar mesh Ch:0+105 U/S 9:30-11:30)) mucking Note: -lighting and Ventilation problem in TC Night F.ch:0+241.0 II-2 Right Ch:0+99~ U/S 22:00-00:00) Mucking and scaling II-2 Left Ch:0+108~ U/S 20:00-22:00) Mucking and scaling</p>	<p>Day F.ch:0+241.0 II-2 Right Ch.: 0+95 U/S 14:00~ 15:05) Drilling for blast 15:45-16:20) Charging for blast Exp=48kg Waiting for blast II-2 Left Ch:0+130-0+140 8:00- rectification of rebar mesh 1st layer Ch:0+105 U/S 13:00-14:00) Drilling for blast 15:20-15:45) Charging for blast Exp=48kg waiting for blast Note: -lighting and Ventilation problem in TC Night F.ch:0+241.0</p>	<p>Day F.ch:0+241.0 II-2 Right Ch.: 0+087-083 U/S 09:30 - 11:00) Mucking 12:00 - 13:00) Drilling for blast Waiting for charging II-2 Left Ch:0+150 - 135 8:00- rectification of rebar mesh 1st layer Ch:0+093 - 087 U/S 09:30 - 11:00) Mucking 14:00 - 15:00) Drilling for blast 16:00 -) Charging for blast Note: -lighting and Ventilation problem in TC Night F.ch:0+241.0 II-2 Right Ch.: 0+79 20:00-1:00) Mucking and scaling 01:00-1:40) Survey for blast 01:50-02:45) Drilling for blast waiting for charging Ch...0+235 -0+230 U/S 20:00-) Installation of rebar mesh without fist layer shotcrete on right wall II-2 Left Ch.: 0+87 u/s 20:30-01:00) Mucking and scaling 01:00-01:40) Survey for blast 03:20-) Drilling for blast Note: &gt;Ventilation and lighting problem in TC. Ventilation duct still not installed by the contractor.</p>	<p>F.ch:0+241.0 II-2 Right Ch.: 0+074 U/S 09:30 - 11:00) Mucking 13:15 - 14:30 ) Drilling for blast Waiting for charging Ch.: 0+235 - 230 08:00- )installation of rebar mesh II-2 Left Ch:0+200 - 210 8:00- installation of rebar mesh 1st layer Ch:0+089-0+86 U/S 09:30 - 11:00) Mucking 14:45 - ) Drilling for blast Note: Lighting and ventilation problem in TC Night F.ch:0+241.0 II-2 Right U/S Day-22:00) Mucking and scaling Ch:0+225-0+220 20:00- ) Installation of rebar mesh 1st layer Ch. 0+70 22:15-23:00) Survey for blast 23:15-00:20 ) Drilling for blast 00:35-01:35) Charging for blast (Exp=30kg) Waiting for blast II-2 Left U/S Ch. 0+89-0+86 Day-22:00) Mucking and scaling Ch:0+208-0+213 20:00-) Installation of rebar mesh 1st layer Ch. 0+86- 22:15-23:00)</p>	<p>Day F.ch:0+241.0 II-2 Right Ch.: 0+065 U/S 09:30 - 10:30) Mucking 10:30 - 10:45) Survey for blast Ch.: 0+095 - 125 13:45 - 14:30) 1st layer SC Qty = 08m3 Ch.: 0+140 - 125 17:15 - 17:45) 2nd layer SC Qty = 07m3 Ch.: 0+225 - 230 08:00- installation of rebar mesh II-2 Left Ch:0+235 - 240 8:00- installation of rebar mesh 1st layer Ch:0+081 U/S 09:30 - 10:30) Mucking 10:45 - 11:00) Survey for blast 11:15 - ) Drilling for blast Ch.: 0+150 - 125 16:30 - 18:15) 2nd layer SC Qty = 14m3 Ch.: 0+215 - 230 12:20 - 12:55) 1st layer Shotcrete Qty =8m3 Ch.: 0+130 - 110 14:30 - 15:15) 1st layer Shotcrete Qty = 14m3 Note: Lighting and ventilation problem in TC Night F.ch:0+241.0 II-2 Right Ch.: 0+065-0+062 U/S 20:00-21:30) Mucking and scaling Ch. 0+062- 23:30-00:00) survey for blast II-2 Left U/S Ch:0+079-0+76 U/S 21:45-01:00) Mucking and scaling Ch. 0+76- 01:20-01:45) Survey for blast</p>	<p>Day F.ch:0+241.0 II-2 Right Ch.: 0+160 - 140 16:00 - 17:30) 2nd layer SC Qty = 11.5m3 Ch.: 0+220 - 225 08:00- ) Installation of 1st layer rebar mesh F.Ch.: 0+062 II-2 Left Ch:0+0+76 10:40 - 11:00) Survey for blast 11:00- 13:00) Drilling for Blast 14:25 - 15:10) Charging for blast EXP = 50KG waiting for blast Note: Lighting and ventilation problem in TC Night F.ch:0+241.0 II-2 Right Ch.: 0+059-0+56 U/S 20:00-22:00) Mucking and scaling Ch. 0+056- 23:00-23:30) survey for blast 23:50-01:25) Drilling for blast 01:30-02:35) Charging for blast (Exp=40kg) II-2 Left U/S) Charging for blast (Exp= 56kg) Ch. 0+231-0+236 21:00-) Installation of 1st layer rebar mesh Note: &gt; Ventilation and lighting problem in TC. Ventilation duct still not</p>

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	20:00-21:00) Drilling for blast 01:00~02:15) Charging for blast (Exp=40kg) Waiting for Power house charging				Survey for blast 00:30~01:30) Drilling for blast 01:30~02:25) Charging for blast (Exp=32kg) Waiting for blast	Note: > Ventilation and lighting problem in TC. Ventilation duct still not installed by the contractor.	installed by the contractor.
Transformer Cavern Pilot Tunnel I-1 & I-3	TC I 3 Ch.: 0+134~0+241 9:30-) marking for missing rock dowels TC I 1 Day F.ch:0+241.0 I-1 Ch.:0+140~241 13:00~ Demarcation for missing rock dowels 1, 2, and 3 Ch.:0+190.5~0+20 0.5 13:00~ Installation of supporting bars for PS tendon Night F.ch:0+241.0 I-1, I-2, I-3 Ch.:0+140~0+241 20:30~23:20) Demarcation for PS Tendon 23:30~01:00) Surveyor busy other sites surveying 01:00~03:00) Demarcation for PS Tendon.	TC 13 F. Ch: 0+241.0 (D/S) No Activity  TC I 1 Day F.ch:0+241.0 Ch.: 0+190.5 - 200.5 08:00 - 17:00) installation of trial PS tendons Ch.: 0+200.5 (PSTT 41-5 PSTT 41-6) (5m anchorage length) Ch.: 0+195.5 (PSTT 40 -5 PSTT 40-6) (5.5 m anchorage length) Ch.: 0+190.5 (PSTT 39-5 PSTT 39-6) (4.5 m anchorage length) Night F.ch:0+241.0 I-1, I-2, I-3 Ch.:0+175~0+235 23:00~) Drilling for missing rock dowels 00:00~) Installation of missing rock dowels	Day TC I 3 F. Ch: 0+241.0 (D/S) No Activity Tc I 1 F.ch:0+241.0 Note: >Ch.: 0+150 - 170. Shotcrete Detachment and cracks on crown has been notified to the contractor for rectification > TC-ET Junction Shotcrete cracks still not rectified by the contractor. Contractor is reminded again.	Day Tc I 3 F. Ch: 0+241.0 (D/S) Ch.:0+220~0+180 23:15~01:20) Drilling for missing rock dowels T c i 1 F.ch:0+241.0 Ch.: 0+190.5 - 200.5 11:00 -) Grouting for trial PS tendons. Ch.: 0+190.5 = 39-5, 39-6 Ch.: 0+195.5 = 40-5, 40-6 Ch.: 0+200.5 = 41-5, 41-6  Ch.: 0+000 15:30 -) Installation of ventilation duct  Note: >Ventilation and lighting problem in TC. Ventilation duct still not installed by the contractor > Ch.: 0+150 - 170. Shotcrete Detachment and cracks on crown has been notified again to the contractor for rectification > TC-ET Junction Shotcrete cracks still not rectified by the contractor. Contractor is reminded again.	T C I 1 F. Ch: 0+241.0 (D/S) Ch.:0+220~0+180 23:15~01:20) Drilling for missing rock dowels  I 3 F.ch:0+241.0 Ch.: 0+190.5 - 200.5 11:00 -) Grouting for trial PS tendons. Ch.: 0+190.5 = 39- 5, 39-6 Ch.: 0+195.5 = 40- 5, 40-6 Ch.: 0+200.5 = 41- 5, 41-6  Ch.: 0+000 15:30 -) Installation of ventilation duct  Note: >Ventilation and lighting problem in TC. Ventilation duct still not installed by the contractor > Ch.: 0+150 - 170. Shotcrete Detachment and cracks on crown has been notified again to the contractor for rectification > TC-ET Junction Shotcrete cracks still not rectified by the contractor. Contractor is reminded again.	T C I 3 F. Ch: 0+241.0 (D/S) Ch.:0+220~0+180 23:15~01:20) Drilling for missing rock dowels I 1 F.ch:0+241.0 I-1, I-2, I-3 Ch. 0+120~0+150 21:30~) Drilling for missing rock dowels 5m Ch. 0+175~0+190 21:30~) Installation of missing rock dowels 5m	I 3 F. Ch: 0+241.0 (D/S) Ch.:0+220~0+180 23:15~01:20) Drilling for missing rock dowels I 1 Day Ch.: 190.5 - 200.5 08:30 -) Pouring of Sika Crete for trial PS tendons (05 pcs done) Ch.: 0+180 10:20~) Drilling for PS Tendon  Note: > Lighting problem in TC >Detachment of Shotcrete has been again notified to the contractor at Ch.: 0+150 - 170 for rectification.  Night F.ch:0+241.0 I-1, I-2, I-3 Ch.: 190.5~0+180 21:00- 00:30) Formwork and Pouring of Sika Crete for trial PS tendons (01 pcs done)
Powerhouse Cavern Pilot tunnel 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) Note: Ventilation and lighting problem in TC. Night F.ch:0+241.0  Ch.:0+02~0+10 U/S Day ~21:30)	F.ch:241.0 0+30 - 0+15(Right side ramp) 8:00~ Mucking in progress... Ch.:0+12~0+00 10:30~ Drilling for bench blast  Note: > Lighting & Ventilation problem in PH >Contractor is informed to maintain the house keeping /cleanliness & removal of slush.  Night Ch. 0+30~0+08 (Right side ramp)	Day F.ch:241.0 0+25- 0+10(Right side ramp) 8:00~ Mucking for right side ramp in progress... Night Ch. 0+30~0+08 (Right side ramp)	Day F Ch.:0+241 0+25- 0+10(Right side ramp) 1:00~) Mucking for right side ramp in progress. )	Day F.ch:241.0 0+25- 0+10(Right side ramp) 16:00~) Mucking for right side ramp in progress.  Note: Contractor is notified to mark the changes on the wall night	Day F. Ch:0+241.0(D/S) Ch.: 0+120 - 241 08:30 - 03:30) Tensioning of 7m tension rock bolts Drilling for PS tendons  Night F. Ch:0+241.0(D/S) I-1, I-2, I-3 Ch. 0+195~ 22:30~) Installation of supporting bar for PS tendon Ch. 0+241~ 0+230 01:20~) Drilling for PS tendon 20:30~21:30) Tension test of 7m	Day &Night FCh.:0+241 No Activity

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	Drilling for bench blast (left side Ramp) Note: Ventilation and lighting problem in TC.	Ch.:0+12~0+00 21:30~) Drilling for bench blast				tension rock bolts Location: P19-1 = (1.08mm)	
Powerhouse Cavern Pilot tunnel (Left Crown portion) I-2	Day F. Ch:0+241.0~ Approx. No Activity  Note: -Lighting & Ventilation problem in PH  Night No Activity	Day F. Ch:0+241.0~ Approx. No Activity  Note: -Lighting & Ventilation problem in PH	Day F. Ch:0+241.0~ Approx. No Activity  Note: -Lighting & Ventilation problem in PH  Night F.ch:0+241.0 (D/S)	Day F. Ch:0+241.0~ Approx. No Activity Note: -Lighting & Ventilation problem in PH	Day F. Ch:0+241.0~ Approx. No Activity Note: -Lighting & Ventilation problem in PH  Night F. Ch:0+241.0~ Approx. No Activity Note: -Lighting & Ventilation problem in PH	Night F. Ch:0+241.0(D/S) I-1, I-2, I-3 Ch.: +240.0~0+200.0 20:30~) Removing of form work & repairing of defective head block of tension rock bolts Ch.:0+109.25~0+67.85 20:30~03:00) Tensioning of tension rock bolts	F. Ch:0+241.0~ Approx. No Activity Note: -Lighting & Ventilation problem in PH
Powerhouse Cavern Pilot I-1 & I-3	PH I 3 F. Ch:0+241.0~ Approx. NO Activity  PH I 1 F.ch:241.0 0+50 - 0+20(Right side ramp) 12:00~ Mucking in progress.  Note: > Lighting & Ventilation problem in PH >Contractor is informed to maintain the house keeping /cleanliness & removal of slush.	Day I 1 Ch.: 0+235 - 240 09:00- 10:30) installation of formwork and pouring of sika Crete for head block for tension rock bolts (1 pc) In night F. Ch:0+241.0(D/S) I-1, I-2, I-3 21:20~) Tensioning test of 7m tension rock bolts Location P103-1 = (1.89mm) P107-2 = (1.28mm)  Note: Lighting & Ventilation problem in PH I 3 F. Ch: 0+241.0 (D/S) No Activity	Day I 3 F. Ch:0+241.0~ Approx. NO Activity  I 1 Day F. Ch:0+241.0(D/S) I-1, I-2, I-3 Ch.:0+195~0+240 9:30~15:00) Tensioning test of 7m tension rock bolts Location P107-2=1.70mm P71-1=2.65mm  Ch.:0+215~0+235 9:00~Installation of formwork and pouring of sika crete114 for head block of TRB. (2 pcs)  Note: Ventilation Problem in PH	PH I 3 F. Ch:0+241.0(D/S)  PH I 1 F. Ch:0+241.0(D/S) I-1, I-2, I-3 Ch.:0+215~0+235 20:00~) Installation of supporting bars for tension rock bolts Ch.0+130~0+180 20:30~) Tensioning test of 7m tension rock bolts Location P3-2= (1.55mm) L32-5 =(0.72mm) P35-1 =(1.86mm) P39-3 = (3.34mm)	Day I 3 F. Ch:0+241.0~ Approx. NO Activity I 1 F. Ch:0+241.0(D/S) I-1, I-2, I-3 Ch.:0+120~0+200 22:00~03:30) Tensioning of 7m tension rock bolts Location: P27-1 =(2.48mm) P49-1 =(1.19mm)	Day F. Ch:0+241.0(D/S)  Ch.:0+67.5~0+90.00 23:00~02:45) Installation of form work & pouring of sika Crete for head block of tension rock bolts (3PCS)	I 3 F. Ch:0+241.0 (D/S)  I 1 F. Ch:0+241.0(D/S) Ch.: 0+224.25 9:30) Installation of PS tendon 13.5. Without any prior Assembly inspection. CGGC Engineer notified about the issue  Night F. Ch:0+241.0(D/S) I-1, I-2, I-3  Ch. 0+241~ Drilling for PS tendon Ch. 0+241~0+200 23:00~00:00) Survey and Marking for PS Tendon
01A Drain Tunnel Left Crown of PH I-2	F.ch:0+046.0 (Approx.) Vertical Shaft	Ch. 0+ 280-250 No Activity	F. Ch:0+041.5 No Activity Approx.) Vertical Shaft	F.ch:0+046.0(Approx.) Vertical Shaft  Night No Activity	F.ch:0+046.0(Approx.) Vertical Shaft	F.ch:0+046.0(Approx.) Vertical Shaft	Day No activity  Night 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~ No Activity due to resource limitations Night No Activity	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
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+028 Approx. (Pilot)	Day PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area F.Ch. 0+029 Approx. (Pilot Tunnel)	Day PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area F.Ch. 0+031 Approx. (Pilot Tunnel)	Day PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area F.Ch. 0+034.5 Approx. (Pilot)	Day PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area F.Ch. 0+035 Approx. (Pilot)	Day PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area Ch.: 0+036- 039 Approx. (Pilot)	Day PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area Ch.: 0+042 Approx. (Pilot)



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	<p>Tunnel) Enlargement section Ch.:0+000~0+005 8:00~11:00 Packing of rock dowels 14:00- 17:00) Grouting for rock dowels (18 pcs grouted. 01 rejected due to leakage)</p> <p>Note: Contractor has been notified about the improper contact rock dowels plates with the final shotcrete surface</p> <p>Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Enlargement section Ch.0+29.0~21:00~22:30) scaling and invert leveling 23:40~00:45) Survey for blast 01:00~) Drilling for blast is in progress</p>	<p>8:00~8:55) Drilling for blast 9:00~11:00) Charging for blast Exp=167kg 11:15) Blast is conducted 13:00~ Mucking in progress... Night PAT-01 Design Excavation is complete Lower Pressure Tunnel 01 Enlargement section Ch.0+29.0~22:00~01:30) Mucking and scaling 01:40~02:20) Mapping Qv=1.42</p>	<p>Ch.:0+29~0+31 12:20~13:00) 1st layer shotcrete PS 5m<sup>3</sup></p> <p>Note: Contractor was notified to provide the required support as per design</p> <p>Night F.Ch. 0+100.0 No Activity</p> <p>Note: Ventilation problem in STB.</p>	<p>Tunnel) 08:30 -) Mucking Note: Contractor was notified to provide the required support as per design</p> <p>Night PAT-01 Design Excavation is complete Lower Pressure Tunnel-01-manifold area F.Ch.0+32~0+34.5 (Pilot Tunnel) 20:00~00:40)) Mucking and scaling 01:30~02:00) Mapping Qv=1.45 3:15~3:50) 1st layer shotcrete PS 3m<sup>3</sup></p> <p>Note: Contractor was notified to provide the required support as per design.</p>	<p>Tunnel) 08:30 - 13:00) Drilling 14:00 -) Charging for blast at face and for additional blast at invert under break at Ch.: 0+028 (200 KG)</p> <p>Note: Ventilation not operational at site</p> <p>Night PAT-01 Design Excavation is complete Lower Pressure Tunnel-01-manifold area Ch. 0+39~ (Pilot Tunnel) 20:30~21:00) Survey for blast 21:30~) Drilling for invert blast</p> <p>Note: &gt;Contractor was notified to provide the required support as per design. &gt;Lighting, High temperature &amp; Ventilation system is very poor in PAT1</p> <p>Note: &gt;Contractor was notified to provide the required support as per design. &gt;Lighting, High temperature &amp; Ventilation system is very poor in PAT1</p>	<p>Tunnel) 08:55 - 09:20) 1st layer SC Qty = 04m<sup>3</sup></p> <p>Note: Ventilation not operational at site</p> <p>Night PAT-01 Design Excavation is complete Lower Pressure Tunnel-01-manifold area F.Ch. 0+35 Approx. (Pilot Tunnel) Note: Without Geological mapping contractor spray first layer shotcrete 23:00~23:40) 1st layer shotcrete Qty=4m<sup>3</sup> Further No activity</p> <p>Note: &gt;Contractor was notified to provide the required support as per design. &gt;Lighting, High temperature &amp; Ventilation system is very poor in PAT1</p>	<p>Tunnel) 08:30 -) Mucking Note: Lighting and Ventilation not operational at site</p> <p>Night PAT-01 Design Excavation is complete Lower Pressure Tunnel-01-manifold area F.Ch. 0+35 Approx. (Pilot Tunnel) Note: Without Geological mapping contractor spray first layer shotcrete 23:00~23:40) 1st layer shotcrete Qty=4m<sup>3</sup> Further No activity</p> <p>Note: &gt;Contractor was notified to provide the required support as per design. &gt;Lighting, High temperature &amp; Ventilation system is very poor in PAT1</p>
Penstock Adit Tunnel towards Lower pressure Tunnel No 2	<p>Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) Plug Area Ch.:0+225.0~0+250.0 8:00~13:30) Invert grouting 4pcs</p> <p>Day PAT- 02 Design Excavation Completed Plug Area No Activity</p>	<p>Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) Plug Area Ch.:0+225.0~0+250.0 8:00~) Invert cleaning</p> <p>Night PAT- 02 Design Excavation Completed Plug Area No Activity</p>	<p>PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) PAT 2 Plug Area Ch.:0+225.0~0+250.0 8:00 ~ Invert cleaning and Installation of formwork for key area in plug invert concrete</p> <p>Night</p>	<p>Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) PAT 2 Plug Area) Invert cleaning and Installation of formwork for key area in plug invert concrete</p> <p>Night PAT- 02 Design Excavation Completed</p>	<p>Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) PAT 2 Plug Area) Invert cleaning and Installation of formwork for key area in plug invert concrete</p> <p>Night PAT- 02 Design Excavation Completed</p>	<p>Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) PAT 2 Plug Area Invert cleaning and Installation of formwork for key area in plug invert concrete</p> <p>Night PAT- 02 Design Excavation Completed Plug Area No activity</p>	<p>Day PAT- 02 Design Excavation Completed 2 Plug Area Ch.:0+225.0~0+250.0 8:00 -) Installation of formwork for in plug invert concrete</p>
GIS Cavern Access Tunnel from STA	<p>Day F.CH:0+116 approx. No Activity</p> <p>Night F.CH:0+116 approx. No Activity</p>	<p>Day F.CH:0+116 approx. No Activity</p> <p>Night F.CH:0+116 approx. No Activity</p>	<p>Day F.CH:0+116 approx. No Activity</p> <p>Night F.CH:0+116 approx. No Activity</p>	<p>Day F.CH:0+116 approx. No Activity</p> <p>Night F.CH:0+116 approx. No Activity</p>	<p>Day F.CH:0+116 approx. No Activity</p> <p>Night F.CH:0+116 approx. No Activity</p>	<p>Day F.CH:0+116 approx. No Activity</p> <p>Night F.CH:0+116 approx. No Activity</p>	<p>Day F.CH:0+116 approx. No Activity</p> <p>Night F.CH:0+116 approx. No Activity</p>
Connection Tunnel to Powerhouse From STA	<p>F. Ch:0+076 No Activity</p>	<p>F. Ch:0+076 No Activity</p>	<p>F. Ch:0+076 No Activity</p>	<p>F. Ch:0+076 No Activity</p>	<p>F. Ch:0+076 No Activity</p>	<p>F. Ch:0+076 No Activity</p>	<p>F. Ch:0+076 No Activity</p>
STB from Powerhouse Connection Tunnel	<p>Day F.Ch.0+102.0 Approx. Ch.:0+00 10:30~ 16:00) Drilling for support bars of exhaust fan</p> <p>Note:</p>	<p>F.Ch.0+102.0 Approx. No Activity</p> <p>Note: -Ventilation problem in STB. Fan Not Operational</p>	<p>Day F.Ch.0+102.0 Approx. 8:30~Installation of anchors bars for shifting of ventilation fan</p> <p>Note: -Ventilation problem</p>	<p>Day F.Ch.0+102.0 Approx. 13:00 -) welding works for shifting of ventilation fan from STB to PCT</p> <p>Note:</p>	<p>F.Ch. 0+102.0 Ch.:0+98~0+102 23:50~00:15) 1st layer shotcrete Qty =3m<sup>3</sup></p> <p>Note: Ventilation problem in STB. F.Ch. 0+102.0 Ch.:0+98~0+102</p>	<p>Day F.Ch.0+102.0 Approx. No Activity</p> <p>Night F.Ch.: 0+084.50(Approx.) 20:00~22:50) Mucking &amp; scaling</p>	<p>Day F.Ch.0+102.0 Approx. Ch.: 0+060 - 090 12:45 -) remedial Shotcrete in progress 08m<sup>3</sup></p> <p>Note: Ventilation fan</p>

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	-Ventilation problem in STB. Fan Not Operational  Night Junction Enlargement area Towards Left side Chamber #01 Ch.:0+50~20:00~03:45) Mucking and scaling  High temperature & Ventilation system is poor in VAT		in STB. Fan Not Operational Night F.Ch. 0+100.0 No Activity  Note: Ventilation problem in STB.	Ventilation problem in STB. Fan Not Operational Night F.Ch. 0+100.0 No Activity  Note: Ventilation problem in STB.	Note: Ventilation problem in STB.	23:00~23:25) Mapping (Qv=1.45) 01:30~02:10) 1st layer shotcrete (SF Qty=2)	operational but still connected to small duct Night F.Ch. 0+102.0 Ch.:0+98~0+102  Note: Ventilation problem in STB.
Surge Chamber Vault Access Tunnel	Day Towards Right side Chamber #02 Ch.:0+25 Towards left side Chamber Day Ch.:0+50 Approx. 9:40~ 16:00) Drilling for blast Waiting for charging Note: > Elevated temperature & Ventilation problem in VAT  Night Junction Enlargement area Towards Left side Chamber #01 Ch.:0+50~20:00~03:45) Mucking and scaling  High temperature & Ventilation system is poor in VAT	Day Towards Right side Chamber #02 Ch.:0+25 Towards left side Chamber #01 Ch.:0+53 Approx. 8:00~9:30) Mucking and scaling 9:30~10:00) Mapping Q=1.68 11:45~12:10) 1st layer shotcrete PS 5m³  > Contractor has been told to Provide the required support on previous rounds before proceeding further  Night Junction Enlargement area Towards Left side Chamber #01 Ch. 0+43~0+49 21:30~22:30) Drilling for rock dowels Drilling jumbo break down Drilling for rock dowels	Day Towards Right side Chamber #02 Ch.:0+25 Towards left side Chamber #01 Ch.:0+43~0+52 09:50 - 10:35) levelling and compaction of invert with roller 10:50 -) Installation of wire mesh on left and right walls  > Contractor is reminded again to Provide the required support on previous rounds as per design before proceeding further  Night Junction Enlargement area Towards Left side Chamber #01	Day PAT-01 Design Excavation is complete Lower Pressure Tunnel-01-manifold area F.Ch.0+32~0+34.5 (Pilot Tunnel) 20:00~00:40)) Mucking and scaling 01:30~02:00) Mapping Qv=1.45 3:15~3:50) 1st layer shotcrete PS 3m³  Night PAT-01 Design Excavation is complete Lower Pressure Tunnel-01-manifold area F.Ch.0+32~0+Mucking and scaling 01:30~02:00) Mapping Qv=1.45 1st layer shotcrete PS 3m³	Day Towards Right side Chamber #02 Ch.:0+25 Towards left side Chamber #01 Ch.:0+53 Approx. Ch.:0+ 045 - 051 09:00 - 16:30) grouting for rock dowels (36 pcs grouted. 02 holes blocked. 02 dowels cannot be inserted due to wire mesh.  Note: > Elevated temperature & Ventilation problem in VAT  Night Junction Enlargement area Towards Left side Chamber #01 Ch.:0+47~52 20:00~03:30) Rectification of wire mesh	Day Towards Right side Chamber #02 Ch.:0+25 Towards left side Chamber #01 Ch.:0+045 - 051 08:35 - 09:10) 2nd layer SC Qty = 08m3 Ch.:0+53 Approx. 11:20 - 11:45) Survey for blast 14:00 -) Drilling for blast  Note: > Elevated temperature & Ventilation problem in VAT  Night Junction Enlargement area Towards Left side Chamber #01 Ch.:0+53~22:00~) Mucking and scaling  Note: Elevated temperature & Ventilation system is extremely poor in VAT	Day Towards Right side Chamber #02 Ch.:0+25 Towards left side Chamber #01 Ch.:0+045 - 051 12:30 - 13:30) 2nd layer SC Qty = 08m3 Ch.:0+56 Approx. Ch.: 0+053 - 056 11:20 - 11:50) 1st layer SC Qty = 04m3  Note: > Elevated temperature & Ventilation problem in VAT  Night Junction Enlargement area Towards
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+949.5.0 No Activity  Night F.Ch. 0+949.5.0 No Activity	Day No Activity  Night No Activity	Day F.Ch. 0+949.5.0 Design excavation is complete  Night F.Ch. 0+949.5.0 Design excavation is complete	Day F.Ch. 0+949.5.0 Design excavation is complete  Night F.Ch. 0+949.5.0 Design excavation is complete	F.Ch. 0+949.5 Design excavation is complete  Night F.Ch. 0+949.5.0 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 Ch:0+075.0~0+80.0 & Ch:0+200.0~0+190.0) No activity Intake EI: 1000.0  No Activity	Lu 1 Ch:0+075.0~0+80.0 & Ch:0+200.0~0+190.0) No activity Intake EI: 1000.0  No Activity	Lu 1 Ch:0+200.0~0+250.0 08:00~) Installation of wire mesh (5Pcs) Intake EI: 1000.0 No Activity	Lu 1 Ch:0+200.0~0+250.0 08:00~) Installation of wire mesh Intake EI:993.0~0+990.0 08:00~) Excavation & Mucking	Lu 1 Ch.: 0+200.0~0+225.0 13:30~) Installation of wire mesh  1st layer shotcrete. Intake EI: 993.0~0+990.0 12:30~)	Lu 1 Ch.: 0+200.0~0+225.0 8:00 -11:30) assembling of scaffolding pipes platform for wire mesh installation 12:00~) Fixing of Installation of wire mesh Ch.:0+250.0~0+240	LU 1 Ch:0+200.0~0+250.0 no activity Intake EI: 993.0~0+990.0 No Activity



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							support work is remaining.
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	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  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  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  Night Right side F. Ch.: 0+53.5 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 Pilot Tunnel I-1 & I-3	Day TC I 1 Ch.: 190.5 - 200.5 Removing of Formwork and repairing of sika Crete head block for trial PS tendon night F.ch:0+241.0 I-1, I-2, I-3 Ch. 0+200~0+100 Installation of missing rock dowels 5m (30 Pieces) TC i3 F. Ch: 0+241.0 (D/S) Ch.:0+220~0+180 Drilling for missing rock dowels	Day TC I1 F.ch:0+241.0 I-1, I-2, I-3 No Activity TC I 3 F. Ch: 0+241.0 (D/S) Ch.:0+220~0+180 23:15~01:20) Drilling for missing rock dowels	Day TC I 1 F. Ch.: 0+241 Fixing of wire mesh at face (3 Pcs) Ch.: 0+190.5~0+200.5 Night F.ch:0+241.0 I-1, I-2, I-3 Ch. 0+180~0+140 Drilling for Ps tendon TC I 3 Day F Ch.: 0+134~0+241 Night F. Ch: 0+241.0 (D/S) Ch.:0+220~0+180 Drilling for missing rock dowels	Day F. Ch:0+241.0~ (D/S) Ch.: 0+005 - 010 Rectification rebar mesh Ch.: 0+000 - 100 Marking of 03 out of 5 rock dowels for pullout Test Night No Activity	Day Tc I 1 Ch.: 0+190.5~0+200.5 Tensioning of trail PS tendon. Location: 200.5 = 41-5 200.5 = 41.6 tensioning cycles 1-5 complete. Lock test remaining 195.5 = 40-6 tensioning cycles 1-5 complete. Lock test remaining  Ch.: 0+241 15:30 -) installation of wire mesh on face 01 pc installed Night No Activity	Date Day Tc I 3 F. Ch: 0+241. (D/S) Ch.:0+220~0+180 No Activity TC I 1 Day No Activity	Day TC I 1 CH: 0+200.5 Location 41-5) Applied Residual Load after 24hrs to PS Tendon Trial. Night No Activity TC I 3 Day F Ch.: 0+134~0+241 Night F. Ch: 0+241.0 (D/S) Ch.:0+220~0+180
Transformer Cavern Bench II-1	Day & Night F Ch.: 0+200 - 241 No activity	Day & Night F Ch.: 0+200 - 241 No activity	Day No Activity Night Ch. 0+241.0 No activity	Day No Activity Night Ch. 0+241.0 No activity	Day Ch. 0+241.0 No activity Night Ch. 0+241.0 No activity	Day No Activity	Day F Ch. 0+241.0 Night Ch. 0+241.0
TC II-2(1) +TCII-2(2) (Left and Right)	Day F.ch:0+241.0 II-2 Right Ch.: 0+220+225.0 Installation of 1st layer rebar mesh CH:0+57~0+54 Mucking and scaling Ch:0+54.0 Survey for blast  II-2 Left Ch. 0+230 ~	Day F.ch:0+241.0 II-2 Right Ch.: 0+050 Mucking started Drilling for blast  II-2 Left Ch.: 0+062 Mucking started but not finished Drilling for blast. Drilling suspended due to breakdown of	Day F.ch:0+241.0 II-2 Right Ch.: 0+195 ~ 0+198 Installation of rebar mesh Ch. 0+54~0+50 Mucking and scaling Ch. 0+42~ Drilling for blast Charging for blast (Exp=35kg) Blast carried out Mucking and scaling	Day F.ch:0+241.0 II-2 Right Ch.: 0+042.0 Mucking F.Ch: 0+033.5 Survey for blast Drilling for blast Charging for blast (40 kg)  II-2 Left Ch.: 0+125~0+130 Installation of rebar	Day F.ch:0+241.0 II-2 Right Ch.: 0+115~0+120 Fixing of rebar mesh Ch.: 0+090~ Drilling for missing rock dowels Ch.: 0+030 Mucking and scaling Survey for blast Drilling for blast	Day F.ch:0+241.0 II-2 Right Ch.: 0+110~0+117 Fixing of rebar mesh Ch.: 0+015.0~ 08:00- Mucking and scaling Survey for blast Drilling for blast Charging for blast (30 KG) 12:10) Blast conducted Mucking & scaling Ch.: 0+009.0~ Survey for	Day F.ch:0+241.0 II-2 Right Ch.: 0+105~0+120 8: Rectification of rebar mesh Ch.:0+050~0+030 Removing of under break by jack hammer II-2 Left CH: 0+015~ Survey for blast Drilling for blast



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	0+235.0 Installation of 1st layer rebar mesh Ch. 0+80~0+95 Removing of under break by Jack hammer Ch. 0+67~0+72 Mucking and scaling Ch. 0+67.0~ Survey for blast Night F.ch:0+241.0 II-2 Right Ch. 0+208+0+200.0 Installation of 1st layer rebar mesh Ch. 0+125 ~ 0+160 2nd layer remedial shotcrete Qty= 8m <sup>3</sup> Ch. 0+054~ survey for blast Drilling for blast Charging for blast (Exp=40kg) Waiting for blast  II-2 Left U/S Ch. 0+68~ Survey for blast Drilling for blast Charging for blast (Exp= 56kg) Waiting for blast II-2 Left Ch. 0+222 ~ 0+230.0 Installation of 1st layer rebar mesh	jumbo  Note: Lighting and ventilation problem in TC Night F.ch:0+241.0 II-2 Right Ch. 0+205+0+210.0 Installation of 1st layer rebar mesh Ch. 0+125 ~ 0+160 Ch. 0+54~0+50 Mucking and scaling Ch. 0+50~ Survey foe blast Drilling for blast  II-2 Left U/S Ch.0+~62~0+59 Mucking and scaling Ch. 0+59~ Survey for blast Ch. 0+215~ 0+220.0 Installation of 1st layer rebar mesh  II-2 Left U/S Ch.0+~62~0+59 Mucking and scaling Ch. 0+59~ Survey for blast Ch. 0+215~ 0+220.0 Installation of 1st layer rebar mesh  II-2 Left U/S Ch. 0+68~ Survey for blast Drilling for blast Charging for blast (Exp=40kg) Waiting for blast	II-2 Left U/S Ch.0+~62~0+59 Ch.+ 0+56~ Drilling for blast 22:15~22:45) Charging for blast (Exp=40kg) Blast carried out Mucking and scaling Night F.ch:0+241.0 II-2 Right Ch.: 0+198 ~ 0+205 Installation of rebar mesh Ch.: 0+042.0 (U/S) Ch.: 0+198 ~ 0+205 Installation of rebar mesh Ch.: 0+53.5~0+042.0 Mucking Survey for blast Drilling for blast  II-2 Left F.Ch.: 0+059 (U/S) Ch.: 0+212~0+215 Installation of rebar mesh Survey for blast Ch.: 0+060~0+085 Removal of under breaks	mesh F.Ch: 0+052 Survey for blast) Drilling for blast Charging for blast (40 kg) Night F.ch:0+241.0 II-2 Right Ch.: 0+033.5~0+030 Mucking and scaling Ch. 0+030~) Survey foe blast Drilling for blast  II-2 Left U/S F.Ch: 0+052~0+49 Mucking and scaling Ch. 0+49 Survey for blast Ch. 0+120~0+125 Installation of 1st layer rebar mesh	Charging for blast (13 KG) II-2 Left F.Ch: 0+049~0+043 Mucking and scaling Ch.: 0+043)survey for blast drilling for blast Charging for blast (36 kg) Night F.ch:0+241.0 II-2 Right Ch.: 0+030~0+026 Mucking and scaling Ch. 0+026~0+23 Survey foe blast Drilling for blast Charging for blast (Exp=35kg) Blast carried out Mucking and scaling Ch. 0+23 Survey for blast Drilling for blast II-2 Left U/S Ch. 0+115~0+120 Installation of 1st layer rebar mesh F.Ch: 0+047~0+43 Mucking and scaling Ch. 0+43~0+39.5 Survey for blast Drilling for blast Charging for blast (Exp= 40kg) Blast carried out Mucking and scaling Ch. 0+39.5~ Survey for blast Drilling for blast	blast Drilling for blast Charging for blast Exp=30kg (09 holes) 17:05) Blast carried out II-2 Left Ch.: 0+117.0~0+125.0 Fixing of rebar mesh CH:0+25~0+30 Mucking and scaling survey for blast drilling for blast Charging for blast (Exp=45kg) Night F.ch:0+241.0 II-2 Right Ch.: 0+09.0~0+06 Mucking and scaling Ch. 0+05~0+001.5 (approx.) Survey foe blast Drilling for blast Charging for blast (Exp=35kg) Blast carried out Mucking and scaling Ch.: 0+110~0+105 Fixing of rebar mesh II-2 Left U/S Ch.: 0+120.0~0+115 Rectification of 1st layer rebar mesh CH:0+026~0+023 Mucking and scaling Ch. 0+023~0+018 Survey for blast Drilling for blast Charging for blast (Exp= 45kg) Blast carried out Mucking and scaling Ch. 0+018~0+014 Survey for blast 2:40_) Drilling for blast	Charging for blast Exp=50kg Blast conducted Mucking & scaling CH: 0+010.0~ Survey for blast Drilling for blast for blast is in progress... Night F.ch:0+241.0 II-2 Left CH:0+010~0+06 Mucking & scaling Survey for blast Drilling for blast Charging for blast (Exp45kg) Blast conducted Mucking & scaling Ch:0+018.0~0+60.0 Excavation of Side darning by jack hammer II-2 Right Ch.: 0+42.0~0+00.0 Mucking Ch.:0+115.0~0+ Rectification of layer rebar mesh
Transformer Cavern Pilot Tunnel I-2	Day F. Ch:0+241.0~ (D/S) Ch.: 0+140 - 170  Night No Activity	Day & Night 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	Day F. Ch:0+241.0~ (D/S) No Activity Night F. Ch:0+241.0~ (D/S) 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	Day F. Ch:0+241.0~ (D/S) Ch.: 0+000 (At Face) No Activity	Day 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 No Activity Night Ch. 0+241.0 01:20~) Fixing of wire mesh at face	Day F.CH Approx. 0+ F.ch:241.0 Ch.: 0+000~0+004 Mucking and scaling Arrangements for drilling of under breaks blast.	Day F.CH Approx. F.ch:241.0 Ch.: 0+000~0+004 Drilling for blast for removing under breaks. Night No Activity	Day No Activity F Ch.:0+241 No Activity	Day 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+120) Mucking Survey for blast Drilling for blast CH: 0+180 - 185 Installation of 1st layer rebar mesh. Ch.: 0+225 - 210 2nd layer SC Qty = 15m <sup>3</sup>  II-2 LEFT (2) F.Ch.: 0+120 Mucking Survey for blast Ch.: 0+175 - 180	Day II-2 RIGHT (1) Ch.0+108 Mucking Survey for blast Drilling for blast Ch.: 0+241 - 230 2nd layer SC Qty = 7m <sup>3</sup> CH: 0+189-0+203) 2nd layer SC Qty=7m <sup>3</sup>  II-2 LEFT (2) F.Ch. 0+112 Mucking Survey for under break removal at	Day II-2 RIGHT (1) Ch.0+175_0+170.0 08:20- ) Installation of rebar mesh is in progress. 08:00- 12:00) Mucking & scaling Ch.: 0+099 9:20-9:35) Survey for blast 14:30-15:45) Drilling for blast 16:00- 16:30) Charging for blast ( Exp= 35 kg) 17:00) Blast carried out	Day II-2 RIGHT(1) Ch.0+108~0+160 Removal of under break by jack hammer Ch.: 0+160- 165.0 installation of rebar mesh  Ch.: 0+089 Mucking and scaling Survey for blast Drilling for blast Charging for blast (38 kg) II-2 LEFT (2)	Day II-2 RIGHT (1) Ch.0+100~0+092 Removal of under break by jack hammer  Ch.: 0+086~0+078 Mucking and scaling 11:25-11:37) Survey for blast Drilling for blast Charging for blast (kg) II-2 LEFT (2) F.	Day II-2 RIGHT (1) Ch.0+115-0+125 Day Removal of under break by jack hammer CH:0+217-0+224 Installation of 2nd layer rebar mesh Ch.: 0+73-0+70.0 Mucking and scaling Survey for blast) Drilling for blast Charging for blast (Exp=45.5kg) (17 holes) Waiting for blast II-2 LEFT (2) F.	Day II-2 RIGHT (1) CH:0+213-0+217 Installation of 2nd layer rebar mesh Ch.: 0+067-0+061 Mucking and scaling Survey for blast Drilling for blast Charging for blast (no of holes=16) Blast conducted Mucking & scaling in

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	<p>installation of rebar mesh Night II-2 RIGHT(1) Ch:0+175.0 - 0+180 Installation of rebar mesh Ch.0+123-0+118 Charging for blast (Exp=50kg) Blast carried out Mucking and scaling Ch.0+118- Survey for blast</p> <p>II-2 LEFT (2) Ch.: 0+175 ~ 0+170 Installation of rebar mesh Ch. 0+170-0+160 1st layer shotcrete 8m³ Ch. 0+118-0+114.5 Charging for blast (Exp=63kg) Blast carried out Mucking and scaling Ch. 0+114.5-03:15-03:30 Survey for blast.</p>	<p>Ch.: 0+115. (Below PH 1A Drain tunnel ventilation fan) Drilling for additional blast for under break. Ch.: 0+171 - 165 installation of rebar mesh night II-2 RIGHT (1) Ch.0+108-0+105 Mucking and scaling Ch. 0+105- Survey for Blast Drilling for blast</p> <p>II-2 LEFT (2) Ch.: 0+175 ~ 0+170 Installation of rebar mesh Ch. 0+112-00+108 Mucking and scaling Ch. 0+108- Survey for Blast Ch. 0+235-0+215 2nd layer shotcrete Qty=16m³</p>	<p>II-2 LEFT (2) F.Ch:0+105-0+101 08:10-09:35) Mucking &amp; scaling 09:35-10:05) Survey for blast 12:30-14:05) Drilling for blast</p> <p>Ch.: 0+170- 165.0 08:15-) installation of rebar mesh CH:0+215.0-0+10:35-) Second layer shotcrete PS (Qty=21 m³) Night II-2 RIGHT (1) Ch.0+170_0+165.0 21:50-) Installation of rebar mesh is in progress. Ch. 0+99-0+95 20:00-22:00) Mucking and scaling Ch. 0+95- 00:30-00:50) Survey for blast 01:40-02:55) Drilling for blast 03:00-03:45) Charging for blast (Exp=35kg) II-2 LEFT (2) Ch. 0+103 ~ 0+99 21:00-23:00) Mucking and scaling Ch. 0+99- 00:15-00:30) Survey for blast</p> <p>Drilling for blast Charging for blast (Exp=40kg) Wafting for blast</p>	<p>F.Ch:0+091 Mucking &amp; scaling Survey for blast Drilling for blast Charging for blast (44 kg)</p> <p>Ch.: 0+160- 165.0 installation of rebar mesh Night II-2 RIGHT (1) Ch. 0+00-004 Mucking Ch. 0+136-0+125 Removing of under break area. Ch.: 0+089-0+86) Mucking and scaling Ch.0+86- Survey for blast Drilling for blast Charging for blast (Exp=35kg) waiting for blast</p> <p>II-2 LEFT (2) Ch. 0+160-0+155 Installation of rebar mesh 1st layer</p> <p>F.Ch:0+091-0+88 Mucking and scaling Ch. 0+88- Survey for blast Drilling for blast Charging for blast (Exp=40kg) waiting for blast</p>	<p>Ch:0+088-0+084 Mucking &amp; scaling Survey for blast</p> <p>Ch.: 0+155- 145.0 installation of rebar mesh Night II-2 RIGHT(1) Ch. 0+227-0+223 Installation of rebar mesh 2nd layer Ch:0+164.0-0+112 First layer shotcrete SF Qty=16m³ Ch.: 0+78-0+73.0 Mucking and scaling Ch.0+73.0 Survey for blast Drilling for blast Charging for blast (Exp=25kg) Ch. 0+172-0+181 First layer shotcrete SF Qty=16m³</p> <p>II-2 LEFT (2) Ch:0+0+150.0-0+146.0 20:40_Installation of first layer rebar mesh F.Ch:0+79.0 Ch:0+084-0+79 Mucking and scaling Ch. 0+79- Survey for blast Drilling for blast</p>	<p>Ch:0+79-0+75 Mucking &amp; scaling Survey for blast Drilling for blast) Charging for blast (Exp=50kg) (16 holes) Night II-2 RIGHT (1) Ch:0+215-0+219 Installation of 2nd layer rebar mesh Ch.0+70-0+67 Mucking and scaling Ch:0+67- Survey for blast Drilling for blast Charging for blast (Exp=35kg) Waiting for blast II-2 LEFT (2) Ch:0+0+145.0-0+In stallation of first layer rebar mesh Ch:0+075-0+72 Mucking and scaling Ch. 0+72-) Survey for blast Drilling for blast Charging for blast (Exp=45kg)</p>	<p>progress... II-2 LEFT (2) F. Ch:0+072-0+067 8:00-Mucking and scaling Survey for blast Drilling for blast Charging for blast Exp=50kg (no of holes=15) Blast conducted Mucking &amp; scaling in progress... Ch.: 0+085-0+095.0 0.0 _Installation of 2nd layer rebar mesh Ch.: 0+061-0+057.0 Mucking &amp; scaling Ch:0+057.0- Survey for blast Drilling for blast Charging for blast II-2 LEFT (2) Ch:0+229.0-0+234.0 20:15 Installation of 2nd layer rebar mesh Ch:0+00-10.0 Mucking F. Ch:0+066-0+060.0 Mucking &amp; scaling Ch:0+060.0- Survey for blast Drilling for blast</p>	
Powerhouse Cavern Pilot tunnel (Left Crown portion) I-2	Day F. Ch:0+241.0- Approx. No Activity	Day & Night F. Ch:0+241.0- Approx. No Activity	Day F. Ch:0+241.0- Approx. No Activity Night F. Ch:0+241.0- Approx. No Activity	Day F. Ch:0+241.0- Approx. No Activity Night F. Ch:0+241.0- Approx. No Activity	Day F. Ch:0+241.0- Approx. No Activity Night F. Ch:0+241.0- Approx. No Activity	Day F. Ch:0+241.0- Approx. No Activity Night F. Ch:0+241.0- Approx. No Activity	Day F. Ch:0+241.0- Approx. No Activity Night F. Ch:0+241.0- Approx. No Activity	
Powerhouse Cavern Pilot (Crown Portion) PH-I-3 & I-1	Day PH I 3 F. Ch:0+241.0- Approx. No Activity PH I 1 F. Ch:0+241.0 (Ch. 0+241-0+230 Drilling for PS tendon, Delays in Drilling due to unavailability of water. Drilling for PS tendon Ch. 0+220-0+190 Installation of PS Tendon 13.5m Night F. Ch:0+241.0(D/S) I-1, I-2, I-3 Ch. 0+241- 0+230 Drilling for PS tendon, Delays in Drilling due to unavailability of water. Drilling for PS	Day PH i1 F. Ch:0+241.0 (D/S) Ch.: 0+195 - 150 installation of support bars for PS tendons Night F.Ch:0+241.0(D/S) I-1, I-2, I-3 Ch. 0+241- 0+230 Drilling for PS tendon, Ch. 0+175-0+190 Installation of supporting bars for Post Tendon Ch. 0+240-0+225 water pressure test Location: Permeability PH-105-12 => 4.123 PH-103-12 => 3.917 PH-102-11 => 2.619 PH-104-11 => 2.143 PH-101-12 => 3.917	Day PH I 3 F. Ch:0+241.0- Approx. No Activity Night F. Ch:0+241.0(D/S) PH I 1 Night F. Ch:0+241.0(D/S) Ch.: 0+241-0+230 installation of support bars for PS tendons Ch.:0+219.65- Drilling for PS tendon Night F. Ch:0+241.0(D/S) I-1, I-2, I-3 Ch. 0+220-0+210 Drilling for PS Tendon Ch. 0+196.65-0+205 Water pressure test	Day F. Ch:0+241.0- Approx. NO Activity Night F. Ch:0+241.0- Approx. NO Activity	Day F. Ch:0+241.0- Approx. NO Activity Night F. Ch:0+241.0- Approx. NO Activity	Day PH I 3 No Activity I 1 Ch:0+241.0(D/S) Ch.: 0+143.75 Assembling and installation of PS tendons Location: PH 63-10 Night F. Ch:0+241.0(D/S) Installation of PS tendon location PH64-8 (Ch:0+146.5) PH63-7 (Ch:0+143.75) PH63-8 (Ch:0+143.75) Ch. 0+208- water pressure test (Packer position 00) Location Permeability P79-7 (Value	Day No Activity PH I3 F. Ch:0+241.0- Approx. NO Activity Night F. Ch:0+241. (D/S) PH i1 Day F. Ch:0+241.0(D/S) Ch.: 0+241-0+180 Fixing of supporting bar for PS tendon Night F. Ch:0+241. (D/S) Installation of PS tendon location PH64-8 (Ch:0+146.05) PH63-7 (Ch:0+143.75) PH63-8 (Ch:0+143.75)	Day PH I 3 F. Ch:0+241.0- Approx. No Activity Night F. Ch:0+241.0- Approx. No Activity I 1 Day F. Ch:0+241.0 (D/S) Ch.: 0+241-0+210.45 Installation of PS tendon Location: (P92-7, P88-9, P91-9, P92-10) Ch:0+79.35-0+150.65 Water

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	tendon	Note PH-94-8 is cancel due to leakage PH I 3  Night F. Ch:0+241.0(D/S)			2.920 rejected due to leakage) P79-9 (Value 4.464) P83-9 (Value 3.821) P80-10 (Value 3.929)		pressure test (Depth of holes 6m, Packer position 00)
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+046.0(Approx. ) Vertical Shaft Night F.ch:0+046.0(Approx. ) Vertical Shaft	Day F. Ch:0+046.0(Appro x.) Vertical Shaft Night F.ch:0+046.0(Appro x.) Vertical Shaft	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	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
Penstock Adit Tunnel towards Lower pressure Mani fold area Tunnel No 1	Day PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area Ch.: 0+041.5 Approx. (Pilot Tunnel) Survey for blast Drilling for blast (pilot tunnel). Contractor started drilling without providing required support on previous rounds. only 1st layer Shotcrete is prayed  Note: VENTILATION IS NON- FUNCTIONAL Night PAT-01 Design Excavation is complete Lower Pressure Tunnel-01-manifold area Ch.: 0+041.5~ (Pilot Tunnel) Charging for blast (Exp=175kg) Blast conducted, Mucking	Day PAT-01 Design Excavation is completed Lower Pressure Tunnel-01-manifold area Ch.: 0+044 Approx. (Pilot Tunnel) Charging for additional blast (06 KG) Blast conducted Mucking and Scaling mapping Qv = 1.67 1st layer shotcrete (PS Qty=4m³) Night PAT-01 Design Excavation is complete Lower Pressure Tunnel-01-manifold area Ch.: 0+044 approx. (Pilot Tunnel) Ch. 0+00~0+05 Fixing of rock dowels plates Right side Ch. 0+17 Drilling for blast Charging for blast (Exp=50kg) waiting for blast Left side Ch. 0+19 Drilling for blast Charging for blast (Exp=50kg)	Day PAT- 02 Design Excavation Completed Plug Area Ch. 0+014~0+025 Mucking Note: Mucking stopped by DHC OHS due to ventilation issue. Installation of ventilation duct from PAT-01 & PAT-02 junction. Night PAT-01 Design Excavation is complete Lower Pressure Tunnel-01-manifold area Ch.: 0+044 approx. (Pilot Tunnel) Right side Ch. 0+17~0+20 Mucking and scaling Mapping QV=1.87 waiting for 1st layer shotcrete  Left side Ch. 0+19~0+23 Mucking and scaling Mapping QV=1.87 waiting for 1st layer shotcrete	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 01 Manifold. Right side Ch.: 0+017~0+021 Shotcrete 1st layer (2m³)  Left side Ch.: 0+019~0+022 Shotcrete 1st layer (2m³)  Installation of ventilation duct at STA-PAT junction. Night PAT-01 Design Excavation is complete Lower Pressure Tunnel-01-manifold area Ch.: 0+044 approx. (Pilot Tunnel) Lower Pressure Tunnel-01-manifold area Ch.: 0+044 approx. (Pilot Tunnel) Ch.: 0+005 - 007.5 (crown enlargement) 1st layer shotcrete crown Qty=3m³ Drilling for blast at crown section only Charging for blast (Exp=28kg)	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 01 Manifold. Ch.: 0+005 - 007.5 (crown enlargement) Mucking and scaling Mapping (Qv= 0.44) Night PAT-01 Design Excavation is complete Lower Pressure Tunnel-01- manifold area Ch.: 0+044 approx. (Pilot Tunnel) Ch.: 0+005 - 007.5 (crown enlargement) 1st layer shotcrete crown Qty=3m³ Installation of wire mesh Qty=21.5m² and in progress	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 01 Manifold. Ch.: 0+005 - 007.5 (crown enlargement) Installation of wire mesh (3pcs) Night PAT-01 Design Excavation is complete Lower Pressure Tunnel-01- manifold area Ch.: 0+044 approx. (Pilot Tunnel) Ch.: 0+005 - 007.5 (crown enlargement) Rectification of wire mesh 2nd layer shotcrete Qty=10m³	Day PAT- 01 Design Excavation Completed Lower Pressure Tunnel 01 Manifold. Ch.: 0+002.5 (crown enlargement) Survey for Rock dowels Drilling for dowels Installation & packing of rock dowels 08pcs Night PAT-01 Design Excavation is complete Lower Pressure Tunnel- 01-manifold area Ch.: 0+044 approx. (Pilot Tunnel) Ch.: 0+002.5 (crown enlargement) Grouting for rock dowels 6pcs Grouted & 1 & 3 no rejected due to leakage
Penstock Adit Tunnel towards Lower pressure Manifold area Tunnel No 2	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) Ch.: 0+014 - 0+025 Drilling for blast for under breaks removal of invert Charging for invert under breaks removal (30 KG). Blast conducted  PAT 2 Plug Area Ch.:0+225.0~0+25	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold) Ch.: 0+014 - 0+025 Manual mucking by labor. PAT 2 Plug Area Ch.:0+225.0~0+250. 0 no activity  VANTILATION IS NON-FUNCTIONAL	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold. PAT 2 Plug Area Ch.:0+250.0~0+257.0 Manual mucking by labor. Night PAT- 02 Design Excavation Completed Plug Area Ch. 0+014~0+025	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold. Ch.:0+014.0~0+025. 0 Manual mucking by labor. PAT 2 Plug Area No Activity Night PAT- 02 Design Excavation Completed	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold. Ch.:0+014.0~0+02 5.0 Manual mucking by labor. PAT 2 Plug Area No Activity Night PAT- 02 Design Excavation Completed	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold. Ch.:0+014.0~0+025. 0 Manual mucking by labor. PAT 2 Plug Area No Activity Night PAT- 02 Design Excavation Completed Plug Area Ch. 0+014~0+025	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold. Ch.:0+014.0~0+ 025.0 Manually mucking by labor. PAT 2 Plug Area No Activity Night PAT- 02 Design Excavation Completed

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	0.0 Installation of formwork for in plug invert concrete night PAT- 02 Design Excavation Completed Plug Area Ch. 0+014~0+025 Manual mucking by labor.	Night PAT- 02 Design Excavation Completed Plug Area Ch. 0+014~0+025 Manual mucking by labor.	Manual mucking by labor.	Plug Area Ch. 0+014~0+025 Manual mucking by labor.	Plug Area Ch. 0+014~0+025 Manual mucking by labor.	Manual mucking by labor.	Lower Pressure Tunnel 02 (towards manifold. Ch.:0+014.0~0+025.0 21:00- ) Manually mucking by labor
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 Due to lack of resource	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+102.0 Approx. No activity Notes Ventilation problem in STB Night F.Ch.0+102.0 Approx. No activity Notes Ventilation problem in STB	Day & night F.Ch.0+102.0 Approx. No activity Ventilation problem in STB	Day F.Ch.0+102.0 Approx. Charging for blast (67 Kg) Blast carried out mucking is in progress. Night F.Ch. 0+102.0 Ch.:0+98~0+102.	Day F.Ch.0+104 Survey for blast Drilling for blast is in progress. Night F.Ch. 0+102.0 Ch.:0+98~0+102 Mucking and scaling	Day F.Ch.0+104 Shotcrete 1st layer (3m³) Survey for blast night F.Ch.0+104~ Drilling for blast Charging for blast (Exp=55kg) Blast carried out	Day F.Ch.0+106 Mucking and scaling Mapping Qv=1.45 First layer shotcrete sf Qty=3m³ Night F.Ch.0+104~ Survey for blast Drilling for blast Charging for blast (Exp=55kg)	Day F.Ch.0+106 Mucking and scaling 13:40~14:07) Mapping Qv=1.67 17:15~17:45) Spraying 1st Layer Shotcrete SF (Qty=3m3) Night F.Ch.0+106 21:40_22:00) Survey for blast 00:30_) Drilling for blast & rock dowels
Surge Chamber Vault Access Tunnel	Day Towards Right side Chamber #02 Ch.:0+25 Towards left side Chamber #01 Ch.: 0+056 - 0+059 (Approx.) Mucking and scaling Mapping Qv = 1.83 Survey for additional blast on right side wall Note: > High temperature & Ventilation problem in VAT	Day Towards Right side Chamber #02 Ch.:0+25 Towards left side Chamber #01 Ch.: 0+010 - 020 (Approx.) drilling for thickness test holes 0+000 - 040 Marking for rock dowels for pullout test, Night Junction Enlargement area Towards Left side Chamber #01 Ch. 0+59 Grouting for rock dowels 8pcs Ch. 0+51~0+57 Installation of wire mesh	Day Junction Enlargement area Towards Left side Chamber #01 F.Ch. 0+59 Ch. 0+57 Grouting for rock dowels 8pcs Ch. 0+51~0+57 Installation of wire mesh	Day Towards Right side Chamber #02 F. Ch.:0+25  Towards left side Chamber #01 F.ch: 0+058 Ch. 0+0051 - 055 08:00-) Installation of wire mesh (3 Pcs) Night Junction Enlargement area Towards Left side Chamber #01 Ch. 0+58 Ch. 0+051 - 0+ 055 Rectification of wire mesh is in progress	Day Towards left side Chamber #01 F. Ch.: 0+031 (Approx.) Ch.: 0+023.5 - 030 Grouting for rock dowel. Grouting machine Breakdown at site. No pc grouted Towards left side Chamber #01 Ch.: 0+023 - 025 Installation of wire mesh (2 pcs) Night Junction Enlargement area	Day Towards Right side Chamber #02 F. Ch.:0+25 Towards left side Chamber #01 Night Junction Enlargement area Towards Left side Chamber #01 Ch. 0+58 No activity	Day Towards Right side Chamber #02 F. Ch.:0+25 No Activity Towards left side Chamber #01 F.ch: 0+058 No Activity Night Junction Enlargement area Towards Left side Chamber #01 No activity
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 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	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



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**Appendix K [28/35]**

							No Activity
Existing shaft tunnel from I1 drain tunnel	Day Vertical Existing shaft No Activity	Day Vertical Existing shaft No Activity	Day Vertical Existing shaft No Activity	Day Vertical Existing shaft No Activity	Day Vertical Existing shaft No Activity	Day Vertical Existing shaft No Activity	Day Vertical Existing shaft No Activity
	Night No Activity	Night No Activity	Night No Activity	Night No Activity	Night No Activity	Night No Activity	Night No Activity
CR-5-1 Access road and LU-1 Intake Area	Day Intake area El: ▼993.0~0+990.0 Excavation & mucking Night Installation of wire mesh (3pcs) Ch.: 0+195 - 200 shifting of scaffolding pipe platform.	Day Intake El: ▼993.0~0+990.0 Excavation & mucking Lu 1 Ch.: 0+200.0~0+225.0 Installation of wire mesh is in progress.	Day Intake area El: ▼993.0~0+990.0 Excavation & mucking LU 1 Ch:0+200.0~0+225.0 Installation of wire mesh is in progress (6pcs)	Day Intake Area El: ▼993.0~0+990.0 Excavation & mucking Lu 1 Ch:0+195.0~0+215.0 Installation of wire mesh (2pcs)	Day Intake Area El: ▼993.0~0+990.0 Excavation & mucking Lu 1 Ch.: 0+190.0~0+200.0 Installation of wire mesh Ch.:0+200.0~0+180.0 Drilling for rock dowels is in progress.	Day Intake Area El: ▼993.0~0+990.0 No Activity LU 1 Ch.: 0+190.0~0+200.0 Installation of wire mesh is in progress. Ch.:0+200.0~0+180.0 Drilling for rock dowels is in progress.	Day Intake Area El: ▼993.0~0+990.0 No Activity LU 1 Ch.: 0+200.0~0+140.0 Installation of wire mesh is in progress. Ch.:0+200.0~0+140.0 Drilling for rock dowels 08 holes is drilled & is in progress.
	CT-2	Day Ch.: (0+231.0) Drilling for blast Charging for blast (Exp= 225KG) Blasted) Mucking Charging for additional blast Ch.:0+228.0~0+229.0 Drilling for rock dowels CT-02 Portal Erection of steel structure for provision shades above generators night Ch. 0+233~0+235 Survey and mapping Qv=1.87) 1st layer shotcrete Qty= 3m³ Grouting and installation of rock dowels Ch. 0+228 => 5pcs installed Ch. 0+229 =>5 pcs installed Grouting of Missing rock dowels Ch. 0+225 => 1pcs installed Ch. 0+227 => 3 pcs installed Ch.0+235~ Survey for blast 01:35~) Drilling for blast	Day Ch.: 0+233 Drilling for face blast and niche blast on left wall Charging for blast (Exp=225kg) Blast Conducted Charging for blast Ch.:0+230.0~0+231.0 Drilling for rock dowels CT-02 Portal Erection of steel structure for provision shades above generators Night Ch. 0+233~0+235 Ch:0+235~ Drilling for blast Charging for blast (Exp=225kg) Blast carried out Mucking	Day F. Ch.: Ch.: 0+236.40 1st layer shotcrete (PS Qty=4.0m³) Survey for blast Drilling for blast Night Ch.: 0+237.0 Charging for blast (Exp=225kg) Blast carried out 21:20~01; 20) Mucking and scaling 01:20~01:45) Mapping Qv=1.87 Ch.:0+232~0+233 Grouting for rock dowel 5m (18 pcs)	Day Ch.: 0+238.60 1st layer shotcrete (PS Qty=4.0m³) Survey for blast Drilling for blast Night Ch. 0+234~0+236 Drilling for rock dowels Ch. 0+238.60~ Charging for blast (Exp=225kg) Blast carried out Mucking is in progress.	Day Ch.: 0+241.0 Geological mapping 1st layer shotcrete (PS Qty=3m³) Survey for blast & rock dowels Drilling for blast ch.:0+234.0~0+236.0 Grouting of rock dowels (Grouted=27pcs cement=400kg) Ch.:0+170.0~0+200.0 Installation of service water pipelines Night F.Ch.0+241 Ch. 0+237~0+238) Drilling for rock dowels Ch.0+190~0+220 Drilling for weep hole Ch. 0+241~ Drilling for blast Charging for blast (Exp=225kg) Blast carried out Mucking is in progress	Day F.ch:0+241.0 II-2 Right Ch.: 0+110~0+117 Fixing of rebar mesh Ch.: 0+015.0~ 08:00- Mucking and scaling Survey for blast Drilling for blast Charging for blast (30 KG) Blast carried out Mucking & scaling Ch.: 0+009.0~ Survey for blast Drilling for blast Charging for blast (Exp=30kg (09 holes) 17:05) Blast carried out II-2 Left Ch.: 0+117.0~0+125.0 Fixing of rebar mesh CH:0+25~0+30 Mucking and scaling survey for blast drilling for blast Charging for blast (Exp=45kg Night F.ch:0+241.0 II-2 Right Ch.: 0+09.0~0+06 Mucking and scaling Ch. 0+05~0+001.5 (approx.) Survey foe blast 20:30_21:40) Drilling for blast Charging for blast (Exp=35kg) Blast carried out Mucking and scaling Ch.: 0+110~0+105 20:00~) Fixing of rebar mesh II-2 Left U/S Ch.: 0+120.0~0+115 Rectification of
Switch Yard Compound	Day EL▼ 965 - 960 (5th layer) Drilling for blast for 5th layer is in progress Removal of under breaks from 5th layer near water tank EL ▼ 920.0~ No activity Night El: ▼940~950 (3rd layer)	Day EL▼ 965 - 960 (5th layer) 2nd Layer shotcrete (PS Qty=10m³) Removal of under breaks from 5th layer right side EL▼ 920.0~ No activity	Day EL▼ 967.0 - 963.0 (5th layer) 2nd Layer shotcrete (PS Qty=5.0m³) EL▼ 970.0 - 960.0 (5th layer) 1st layer shotcrete left side of 5th layer (PS Qty=10m³) EL▼ 920.0~ No activity	Day EL▼ 967.0 - 963.0 (5th layer) Drilling for blast (remaining holes) Charging for blast (Exp=485.0kg) EL▼ 950.0 - 942.0 (5th layer) Demarcation for 5th layer right side. EL▼ 950.0 - 957.0 (4th layer) Excavation & mucking	Day EL▼ 967.0 - 963.0 (5th layer) Excavation is in progress EL▼ 920.0~ Excavation & mucking	Day EL▼ 967.0 - 963.0 (5th layer) Excavation is in progress	Day EL▼ 962.0 - 957.0 (5th layer) Drilling for blast of 5th layer EL▼ 946.0 7:30~) Excavation is in progress

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	El: ▼950~960 (5th layer)			EL ▼ 920.0~ No activity			
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 Tuesday	23 Wednesday	24 Thursday	25 Friday
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 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+193The 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.8:30- ) Mucking of vertical shaft blast  Night F. Ch:0+193The 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	Day F. Ch:0+193The 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.  Night F. Ch:0+193The 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	Day Exhaust tunnel The Total length of Tunnel is 215m & excavation of tunnel has been completed  Night Exhaust tunnel The Total length of Tunnel is 215m & excavation of tunnel has been completed
Service Tunnel C	Note: -Design Excavation (450 m) has been Completed. Ch.:0+341~0+359.0 Grouting for rock dowels	Day Note: -Design Excavation (450 m) has been Completed.  Night Note: -Design Excavation (450 m) has been Completed.	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. No Activity regarding to Support work
Transformer Cavern Tunnel i-2	Day F. Ch:0+241.0~ (D/S) Ch.: 0+000 - 100 Pull out test could not be performed due to unavailability of lifting platform	Day F. Ch:0+241.0~ (D/S)  Night 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	Day F. Ch:0+241.0~ (D/S) Ch.:0+160~0+17014:00~) again Back fill grouting in progress. Location: P35-2, P34-3, P34-2 Night Grouting leakage Approximately 1m downstream of the hole now Contractor Going to control the leakage with cloth & cement mortar.
Transformer Cavern Bench II-1	Day F.ch:0+241.0 F.Ch.: 0+065 Ch.: 0+065 - 50 excavation and Mucking Ch.: 190 - 210 removal of underbreaks from invert Night F.ch:0+241.0 TC II-01 Ch.: 0+050 ~ 0+040 Drilling for bench blast (32 holes) Ch.: 0+065~0+50 20:30-) Excavation and Mucking	Day Ch. 0+241.0 No activity  Night Ch. 0+241.0 No activity	Day Ch. 0+241.0 No activity  Night Ch. 0+241.0 No activity	Day Ch. 0+241.0No activity Night Ch. 0+241.0No activity

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**Appendix K [30/35]**

<p>TC II-2(1) +TCII-2(2) (Left and Right)</p>	<p>Day F.ch:0+241.0 II-2 Ch.: 0+160 - 175 (Right) 08:30 -) Installation of rebar mesh on right side Ch.: 160 - 185 (left) 13:30 - 15:30) removal of underbreaks Note: Grouting for rock dowels at Ch.: 0+163 - 181.75 Left side not started today due to G Machine break down Night II-2(1) Right No Activity II-2(2) Left Ch.: 0+160-0+170 20:00- 5:20) Fixing of 1st layer rebar mesh</p>	<p>Day F.ch:0+241.0II-2 Right Ch: 0+094-0+1008:00-14:00) Installation of 1st layer rebar mesh II-2 LeftCh:0+010-0+000 (At face)09:00-13:00) Removal of under break by jack hammer. Night F.ch:0+241.0II-2 Right Ch:0+100.0-0+90.020:40_) Rectification of 1st layer Rebar mesh Ch:0+055.0-00:00_) Drilling for rock dowels</p>	<p>Day F.ch:0+241.0II-2 Right Ch: 0+054-0+04110:00-16:30) Installation of rock dowels. (49 pcs installed) Night F.ch:0+241.0II-2 Right Ch:0+95.0-0+90.020:00_) Rectification of 1st layer Rebar meshCh:0+040.05-0+49.2500:50_Gr outing for rock dowels 23 Grouted &amp; progress II-2 LeftCh:0+210.0-0+200.020:20_) Rectification of 1st layer Rebar mesh</p>	<p>F.ch:0+241.0RightCh.:0+53-0+40.515:20- Installation of rock dowels platesCh.:0+200-0+24015:30- Excavation and making drainage by jack hammer Night F.ch:0+241.0II-2 Right No activityII-2 Left No activity</p>
<p>Transformer Cavern Pilot Tunnel I-1 and I-3</p>	<p>Day F. Ch:0+241.0~ (D/S) No Activity</p>	<p>Day TC I1 CH:0+190.5~200.59:00-16:26) Stressing &amp; lock process of trail PS Tendon. Location:( TC 39-5, 39-6, 41-6)</p>	<p>Day TC I 1 CH:0+190.5~200.5 9:00-11:03) Stressing &amp; lock test process of trail PS Tendon. Location: (P40-5, P41-6 )14:30-16:30) Residual load after 24 hours. Location: P39-5, P39-69:00- 11:20) Pressure grouting (back filling)</p>	<p>Day TC I 1 CH:0+190.5~200.5 8:50-11:08) Residual load test. Location: P40-5, P40-6, P41-6 Night No Activity Tc I 3 No Activity</p>
<p>Powerhouse Cavern Pilot tunnel (Crown portion) I-2</p>	<p>No Activity F. Ch:0+241.0~ Approx Ch.: 0+050 - 100 10:35 -12:30) Drilling for thickness test holes in Arcular portion Ch.: 000 - 005 fixing of formwork and pouring of sika Crete 114 for head block of tension rock bolt.</p>	<p>Day F. Ch:0+241.0~ Approach.: 0+1158:30- ) Repairing of Exhaust fan in 01A-Drain. 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>Powerhouse Cavern Pilot tunnel Bench II-1</p>	<p>Day F.CH Approx 0+108.0(D/S) Ch.: 0+108 - 098 09:25 -) Drilling for bench blast. Frequent breakdowns in Drilling machine. Contractor resumed drilling with 1z15 after 14:00</p>	<p>Day F.ch:241.0 Night F Ch.:0+241No Activity</p>	<p>Day F.ch:241.08:30-13:45) Fixing of wire mesh on face D/S (8 pcs) Night F.Ch.:0+241No Activity</p>	<p>Day F.ch:241.0&gt;Lighting and Ventilation Problem in PH Night F Ch.:0+241No Activity</p>
<p>PH II-2(1) +Ph. II-2(2) (Left and Right)</p>	<p>Day II-2 (1) Left &amp; Right 220 - 205 (Right), 230 - 241 (Left) 07:30 - 08:30) Charging for additional blast (37 KG) 08:43 -) Blast 09:15 -) Mucking Night II-2 (1) Left &amp; Right Ch.: 0+220-0+230 (Right side) 20:00-21:30) Drilling for additional bench blast at right side 23:00-00:10) Charging for blast (Exp=50 kg)</p>	<p>Day II-2 RIGHT (1) CH:0+190-0+19508:10- 14:00) Installation of 2nd layer rebar mesh Ch: 0+047-0+0438:00-16:30) Mucking and scaling. Ch: 0+0439:45-10:00) Survey for blast14:30-15:40) Drilling for blastII-2 LEFT (2) F. Ch:0+051-0+0478:00-14:00) Mucking and scalingF.ch: 0+04710:00-10:15) Survey for blast15:50-) Drilling for blast Ch: 0+205-0+19014:30-15:45) Shotcrete 2nd layer (Qty = 15m3) Night II-2 RIGHT (1) Ch:0+0+196.0-0+18920:00_) Rectification of 2nd layer rebar mesh Ch: 0+043 -0+39.020:00_22:00) Mucking &amp; scaling Ch 0+39.023:00_23:20) Survey for blast 23:45_00:00) Drilling for blast 01:00_2:10) Charging for blast (Exp=35kg) waiting for blast LEFT (2) Ch:0+0219.0-0+0215.020:00_) Installation of 2nd layer rebar mesh (Exp=45kg)</p>	<p>Day II-2 RIGHT (1) F. Ch: 0+039-0+358:00-14:00) Mucking and scaling10:15-10:30) Survey for blast16:30-) Drilling for blastII-2 LEFT (2) F.ch: 0+044-0+038.58:00-14:30) Mucking and scaling10:30-10:45) Survey for blast Ch.: 0+241-0+1158:00- ) Excavation for side drain. Night Ch:0+0+198.0-0+187 Rectification of 2nd layer rebar mesh Ch 0+35 Drilling for blast 22:30-23:30) Charging for blast (Exp=35kg) No of Holes=14waiting for blast LEFT (2) Ch:0+0210.0-0+0221.0 20:00_) Rectification of 2nd layer rebar mesh Ch 0+038.5-01:30-02:00) Drilling for blast</p>	<p>Day II-2 RIGHT (1) Ch: 0+190-0+2008:20-) Rectification of rebar mesh 2nd layer. Ch: 0+035-0+328:00-9:40 ) Mucking and scaling8:40-8:55) Survey for blast9:20-10:50 ) Drilling for blast12:40-14:00) Charging for blast (38 kg)15:31) Blast carried out Ch: 0+170-9:00- ) Excavation for side drain.II-2 LEFT (2)Ch: 0+212-0+2208:20- ) Rectification of rebar mesh 2nd layerF.ch: 0+038.5-0+358:00-9:00 ) Mucking and scaling8:55-9:10) Survey for blast11:10-13:00) Drilling for blast14:10-15:20) Charging for blast (Exp=60 kg)15:31) blast carried out Ch.: 0+040-0+24010:00-11:30 ) Excavation for side drain.</p>
<p>Powerhouse Cavern Pilot (Right Crown Portion) I-3 &amp; I-1</p>	<p>Day F. Ch:0+241.0~ Approx Ch.: 0+000 09:00 - 13:30) installation and rectification of wire mesh on face. (1 pc installed) 16:00 -) Arrangements for Shotcrete</p>	<p>Day I-1 F. Ch:0+241.0(D/S) Ch.:0+240-0+20010:00- 15:20) Installation of supporting bars for PS tendon Night</p>	<p>Day I-3 F. Ch:0+241.0~ Approx NO Activity Night F. Ch:0+241.0 (D/S)</p>	<p>PH I 1 F. Ch:0+241.0(D/S) 10:00- Installation of PS tendon. (No pcs installed) Location: PH 86-10 PH I 3 No Activity</p>

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	Ch.: 0+100 - 000 14:00 - 15:50) Drilling for thickness test holes in Arcular portion Night F. Ch:0+241.0(D/S) ) Joint thickness test of Shotcrete at I-3 Arcular portion.	F. Ch:0+241.0(D/S) Ch:0+0+219.65~141.4520:30_ ) Installation of PS tendon Location:PH98-7, PH 96-7, PH92-8, PH68-7, PH62-8 Day I-3 F. Ch:0+241.0~ Activity Night F. Ch:0+241.0(D/S)	Day I-1 F. Ch:0+241.0(D/S) No Activity Night F. Ch:0+241.0(D/S) Ch:0+0+219.65~141.45	
01A Drain Tunnel Left Crown PH I-2	Day F.ch:0+046.0(Approx.) No activity	Day F.ch:0+046.0(Approx.) Vertical Shaft Night F.ch:0+046.0(Approx.) Vertical Shaft	Day F.ch:0+046.0(Approx.) Vertical Shaft Night F.ch:0+046.0(Approx.) Vertical Shaft	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+567.5No activity due to lack of resources Night F. Ch:0+567.5No activity due to lack of resources	Day F. Ch:0+567.5No activity due to lack of resources Night F. Ch:0+567.5No activity due to lack of resources	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 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	Day PAT- 01 Design Excavation Completed Lower Pressure Tunnel 01 Manifold.Ch.: 0+022~0+017 (LPT-01 crown enlargement)8:30-12:30) Mucking and scaling12:50-13:10) Mapping (QV=0.69) Ch.: 0+022~0+01714:50- 16:30) Shotcrete 1st layer (12m³) Night PAT-01 Design Excavation is complete Lower Pressure Tunnel-01-manifold reach.: 0+044 approx. (Pilot Tunnel) Ch.: 0+003~ (crown enlargement) Ch. 0+22~0+1720:00~) Installation of wire mesh Qty=84m²	Day PAT- 01 Design Excavation Completed Lower Pressure Tunnel 01 Manifold.Ch.: 0+022~0+016 (LPT-01 crown enlargement) 8:00- Fixing of wire mesh (5 pcs) Night PAT-01 Design Excavation is complete Lower Pressure Tunnel-01-manifold reach.: 0+044 approx. (Pilot Tunnel) Ch.: 0+003~ (crown enlargement) NO Activity	Day PAT- 01 Design Excavation Completed Lower Pressure Tunnel 01 Manifold.Ch.: 0+022~0+016 (LPT-01 crown enlargement)9:30-11:00) Rectification of wire mesh.13:33- ) Shotcrete 2nd layer (9m³ PS) Note: 5m³ Shotcrete out of 7m³ rejected due to time over. (Mixture 2M07) Night PAT-01 Design Excavation is complete Lower Pressure Tunnel-01-manifold reach.: 0+044 approx. (Pilot Tunnel) Ch.: 0+003~ (crown enlargement) NO Activity
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	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold.Ch.:0+014.0~0+025.00 8:00-15:30) Manual Mucking by Labour. PAT 2 Plug Area No Activity Night PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold.Ch.:0+014.0~0+025.02 1:30- ) Manually mucking by Labour.	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold.Ch.:0+014.0~0+025.008:00- ) Invert cleaning and Manual Mucking by Labour. PAT 2 Plug Area No Activity Night PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold.Ch.:0+014.0~0+025.020:00- ) Invert cleaning and Manual Mucking by Labour.	Day PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold.Ch.:0+014.0~0+025.008:00- ) Invert cleaning and Manual Mucking by Labour. PAT 2 Plug Area No Night PAT- 02 Design Excavation Completed Lower Pressure Tunnel 02 (towards manifold.Ch.:0+014.0~0+025.020:00- ) Invert cleaning and Manual Mucking by Labour.
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
Service Tunnel B	Day Towards left side Chamber #01 F. Ch: 0+032 - 035 (Approx) 08:15 -) mucking Towards Right side Chamber #01 Ch.: 0+022.5 - 25 Night Junction Enlargement area Towards left side Chamber #01 Ch.: 0+032~0+036 22:45-23:25) Shotcrete 1st layer (8m³ PS) 1:10-1:35) Survey for blast 1:40-5:20) Drilling for blast	Day F.Ch.:0+108.5 Ch.: 0+106.5~0+108.5 14:40-15:05) Shotcrete 1st layer (3m³) Night Junction Enlargement area Towards Left side Night F.Ch.:0+108.5~ 20:00_20:25) Survey for blast 20:35_23:40) Drilling for blast Ch: 0+097.0 Drilling for rock dowels 23:50_1:10 Charging for blast (Exp=57kg) 01:14 Blast carried out 2:00_Mucking is in progress	Day Ch.:0+108.5 9:20- 13:00) Mucking and scaling 13:15-13:30) Mapping (Qv1.87) Night F.Ch.:0+108.5~ Grouting suspended due to high temperature, dust, and air flow issue Further No Activity	Day Ch.:0+110 8:30-9:35) Charging for blast (65 kg) 09:50) Blast carried out 13:00- Mucking and scaling Night F.Ch.:0+108.5~ NO Activity



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**Appendix K [32/35]**

	5:20- Charging for blast is in progress.			
Surge Chamber Vault Access Tunnel	Vertical Day Right and left 13:30- Invert leveling and mucking Night Junction Enlargement area Towards Left side 23:00_Invert Mucking	Vertical Day Right and left 13:30- Invert leveling and mucking Night Junction Enlargement area Towards Left side 23:00_Invert Mucking	Day Towards Right side Chamber #02 Ch.:0+25 Towards left side Chamber #01 Ch. 0+059~ 9:25 9:40 Survey for blast 10:00_12:30 Drilling for blast 12:35_15:40 Charging for blast (Exp=150kg) 16:19 Blast carried out Night Junction Enlargement area Towards Left side Ch. 0+059~ 20:00~23:00) Mucking and scaling 00:00_1:30 Charging for Additional Blast 1:47 Blast carried out	Day Towards Right side Chamber #02 Ch.:0+25 Towards left side Chamber #01 Ch. 0+059~0+62 ap 11:30-12:20) Shotcrete 1st layer (8m³) Night Junction Enlargement area Towards Left side Ch. 0+059~ No activity
Existing shaft tunnel from I1 drain tunnel	Day Vertical existing shaft No activity Night F.Ch. vertical Existing shaft excavation is complete No Activity	Day Vertical existing shaft No activity Night F.Ch. vertical Existing shaft excavation is complete No Activity	Day Ch. 0+ 280-250 No activity Night F.Ch. 0+949.5Design 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
Drain Tunnel	F.Ch. 0+949.5Design excavation is complete	F.Ch. 0+949.5Design excavation is complete	F.Ch. 0+949.5Design excavation is complete	F.Ch. 0+949.5Design excavation is complete
CR-5-1 Access road and LU-1 Intake Area	Day Lu 1 Ch:0+200.0~0+160 08:00~) Installation of wire mesh is in progress. (7 pcs installed) Ch.:0+200.0~0+180.0 8:00-) Drilling for rock dowels is in progress. Ch: 0+220~0+240 14:00-16:45) Grouting of rock dowels (45 pcs). Intake Area El: ▼993.0~0+990.0 No Activity	Day Lu 1 Ch:0+190.0~0+16008:00~) Installation of wire mesh is in progress. (6 pcs installed) Ch.:0+210.0~0+190.08:00-) Drilling for rock dowels is in progress. (6 holes) Ch: 0+220~0+200.007:30-) Grouting of rock dowels (30 pcs). Intake Area El: ▼993.0~0+990.0No Activity	Day LU 1 Ch:0+180.0~0+160 08:00~) Installation of wire mesh is in progress. (4 pcs installed) Ch: 0+180~0+200.0 13:30-16:45) Grouting of rock dowels (25 pcs). Intake Area El: ▼993.0~0+990.0 No Activity	Lu 1 Ch:0+204.0~0+226.0 07:30~12:30) Rectification of wire mesh. 12:00~15:00) Second layer shotcrete Qty=15m³ Ch: 0+190~0+120.0 13:30-15:00) Grouting of rock dowels (30 pcs). Used cement=750kg Ch:0+180~0+140 08:00~) Installation of wire mesh 3pcs & is in progress.
CT-2 Adit Tunnel	Day F.Ch.: 0+243.0 07:00~09:15) Charging for blast (EXP=225kg) 09:20) Blast carried out 09:30~14:30) Mucking and scaling Ch: 0+239~0+240 15:30- ) Grouting for rock dowels (18 pcs) Charging for niche blast 09:20) Blast carried out 09:30~13:30) Mucking and scaling	Day F.Ch.: 0+245.0Ch.: 0+220~0+2457:30-9:45) Excavation and mucking of invert and face scaling Ch.: 0+24510:00-10:40) Survey for blast 11:00~) Drilling for blast Night F.Ch.: 0+245Ch. 0+320.0~0+330Day~22:00) Drilling for Niche rock dowels. 0+245~22:30~01:20) Charging for blast (Exp=225kg) 01:30) Blast carried out 02:00~) Mucking is in progress	Day F.Ch.: 0+245.0 Ch.: 0+241~0+242 7:30-9:00) Grouting of rock dowels (18 pcs) Ch.: 0+220~0+230 9:00-11:00) Grouting of rock dowels (55 pcs) Ch.: 0+245~0+247 11:00-11:30) Mapping ( Night F.Ch.: 0+247 Ch. 0+247 19:20~19:50) Survey for blast 20:00~23:40) Drilling for blast	Day F.Ch.: 0+247.0 Ch.:0+190~0+220 10:45~12:05) Soundness test Night F. Ch: 0+247 Day_21:00 Drilling for blast 21:00_23:30 Drilling for rock dowels 00:00_1:35 Charging for blast (Exp=225kg) 1:48 Blast carried out 2:10_Mucking is in progress
Switch yard Compound	EL ▼ 960~970 (5th layer Left side) 10:30-16:30) Shotcrete 1st layer (25m³) EL ▼ 961~957.3 (5th layer) 7:30- Drilling for blast	Day EL ▼ 960~970 (5th layer Left side) 07:30~) Fixing of wire mesh 1st layer EL ▼ 961~957.3 (5th layer Left side center portion)7:30-2:40 Drilling for blast (40 holes) EL ▼ 95802:55~) Drilling for blast is in progress	Day EL ▼ 960~970 (5th layer Left side) 07:30~10:30) Fixing of wire mesh 1st layer (10 Pcs) 14:30-15:00) joint thickness test done at 5th layer EL ▼ 961~957.3 (5th layer Left side center portion) 10:00-14:30) Charging for blast (290 kg) (47 holes) EL ▼ 963~957 (5th layer left side) 8:00- ) Drilling for blast manually. EL ▼ 963~957 (5th layer left side)	Day EL ▼ 961~957.3 (5th layer Right side center portion)7:30- Mucking EL ▼ 963~957 (5th layer Right side)11:40-13:35) 1st layer shotcrete Qty=11m³EL ▼ 963~957 (5th layer left side)8:00-) manual drilling for blast EL ▼ 950-970(5th layer left side )10:30- ) Drilling for PVC pipe.
Switch yard Day work order	Day work order No Activity	Day work order No Activity	Day work order No Activity	









