DASU HYDROPOWER CONSULTANTS Dasu Hydropower Project Joint Venture of DOLSAR

With sub-consultants

EME C

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Contract No: DHP-CSA01 Our Ref. No: DHC/Dasu/WAPDA/GEN/zic/23- 576

Date: 06th June, 2023

Mr. Anwar-ul-Haque

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

Subject: Dasu HPP – 33rd ENVIRONMENTAL PROGRESS REPORT FOR THE PERIOD FROM JANUARY TO MARCH 2023

Please find enclosed 33rd Environmental progress report for the period from January to March 2023. This report is submitted for your further necessary action please.

Sincerely Yours,

Project Manager Dasu Hydropower Consultants

Encl: As above

Copy to:

1. Office file



PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY

Dasu Hydropower Project

Environmental Quarterly Progress Report

Report Number: 33

Reporting Period: January to March 2023

May 2023

Project Management Unit & Dasu Hydropower Consultants

CEAP	Construction Environmental Action Plan			
CGGC	China Gezhouba Group Co. Ltd.			
DHC	Dasu Hydropower Consultants			
DHP	Dasu Hydropower Project			
DHP-I	Dasu Hydropower project Stage-1			
DO	Dissolved oxygen			
ECP	Environmental codes of practice			
EOT	Extension of time			
ESA	Environmental and Social Assessment			
ESHS	Environment Social Health and Safety			
ISM	Implementation Support Mission			
MW	Main works			
NEQS	National Environmental quality standards			
PC-02	Project Colony-Phase-2			
рН	Power of hydrogen and Hydroxyl Ion			
PMU	Project Management Unit			
ROW	Right of Way			
WAPDA	Water and power development authority			
WTEIR	Walkthrough Environmental Inspection Report			

ACRONYMS

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Annexure C: PHOTO LOG

Executive Summary

This report presents the progress of the environmental performance of the Stage-I implementation of the Dasu Hydropower Project (DHP or the Project) from January to March 2023 and activities conducted during the period by the Project Management Unit (PMU) of the Pakistan Water and Power Development Authority (WAPDA or the Employer) and Construction Supervision Consultant (Dasu Hydropower Consultant or DHC or the Engineer). This quarterly progress report has been prepared to meet the World Bank-approved Environmental and Social Assessment (ESA) requirements of DHP. The progress on Occupational health and safety (OHS) and Social performance of the Project are covered under separate reports.

i. Key Construction Activities

Details of various contracts in the Stage-I of DHP (DHP-I) and a summary of major construction activities conducted under each contract during the reporting period are given in the below table.

S. No.	Contract Name	Contractor	Major Activities During This Quarter
A.	Main Works Contracts		
	MW-01: Main Hydraulic Structure. Spillway. Low Level	Group Company Limited (CGGC)	Preparatory Works Contractor Camp in Kass area is under construction i.e., - Stone Masonry for Retaining Wall-74% 1# Batching Plant and 1# Crushing Plant at Uchar Area - Fencing Wall-59% - Construction of Generator's house-95% - Installation of generators system for power supply started on March 20, 2023 and works are on-going in the month of March. 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 & Chuchang Area and fixing of blind sheet along CR2 & CR9. Diversion Tunnel A Underground excavation for Diversion Tunnel No. A was started on August 9th, 2019 and completed on March 7, 2023. 712,768m ³ / 712,768m ³ (100%). Concrete Works (Dutside) - 17,940m3 / 18,200m3 (98.57%) completed till end of March, 2023.The concreting works before the river diversion is completed at the Inlet Structure Outside 2) Inlet Structure Works (Ioutside) - (Carete Works: 10,444m ³ / 10,444m ³ (100%) completed on March 18, 2023. 3) Invert Levelling Concrete (A25) - L/S- 1,227m / 1,524m (100%) 4) Im Invert Structural Concrete (A25) - L/S- 1,250m / 1,411.55m (98%) Diversion Tunnel B Underground excavation for Diversion Tunnel No. B was started on May 30th, 2019 and completed on January 28, 2023. 623,515m ³ / 623,515m ³ (100%) 1) Inlet Structure Works (Outside) - 17,941m ³ / 21,600m ³ (83%) completed till end of March, 2023. No concrete observed during the month of March, 2023. Invert Levelling Concrete (A25) - L/S- 1,129.00m ³ (10%) completed on January 29, 2023. Im Invert Structural Concrete (A25) - L/S- 1,1309m / 1,309m (100%) - R/S- 1,309m / 1,309m (100%) - R/S- 1,309m / 1,309m (100%) - R/S- 1,163.52m / 1,163.52m (100%) - R/S- 1,203.00000000000000000000000000000000000

Table ES1: Details of major construction activities carried out in DHP during the current quarter

S. No.	Contract Name	Contractor	Major Activities During This Quarter
			Concrete Works: 891m ³ / 1647m ³ (54%) completed till end of March, 2023.
			Inlet Dyke Some Part of Inlet Dyke in front of Diversion Tunnel No. A was removed for
			making
			platform for the Construction of Inlet Structure Slab. - Inlet dyke in front of Diversion Tunnel No. B was removed from El. 788m to El.
			776m. 4
			No. of blasts carried out on January 31, 2023, 12th, 13th & 16th February, 2023
			to remove DT.B Inlet Dyke.
			Diversion Tunnel Outlet dyke Construction Works- Outlet Dyke in front of DT.B was blasted on February 10, 2023.
			Demolishing of Diversion Tunnel Outlet Dyke for removal of water from Diversion
			Tunnel carried out during the month of September 2022
			 Right Bank Bypass Tunnel on The Right Bank -1st U/G Blast at Inlet carried out on February 4, 2023 at Ch. 0+025m and
			progress up to
			 Ch. 0+118m (93m) till end of March, 2023. 1et U/C Bloct at authet apriid out on Enhrupy 14, 2023 at Ch. 0 (528m and
			 1st U/G Blast at outlet carried out on February 14, 2023 at Ch. 0+528m and progress up to Ch. 0+462m (66m) till end of March, 2023.
			 Total underground excavation progress is 159m/ 503m (32%) till end of
			March, 2023. Main Dam
			Right Bank Abutment (Siglo Area)
			- U/S Temporary Access Road Construction- 70%
			 D/S Temporary Access Road Construction- 79% Excavation and support of Right Bank Cable crane Platform above El.
			 Excavation and support of Right Bank Cable crane Platform above El. 1065m- 75%
			- Excavation and support of Right Bank Cable crane Platform slope El.
			 1065m to El.1050m- 72% Excavation and support of Right Bank Cable crane Platform slope El.
			1050m to El. 1035m- 10% (Now El. 1047m)
			Left Bank Abutment
			 Excavation of the second layer of CR5-2 Road (1032~1018)- 100% Left Bank Cable Crane Platform Excavation- 0%
			Upstream Starter Dam Concrete Works
			Concrete works of U/S Starter Dam started on March 8, 2023 and progress
			is 3,505.50m3/ 37,337 (9.40%) till end of March, 2023. Cut-off Wall
			 - Cut-off Wall Drilling started on December 24th, 2022 from the right side and
			remained
			 continued during the month of January-2023. Drilling progress achieved 2184m²/4,748.40m2 (46%) till end of March 2023.
			Concrete pouring for Cut off wall started on January 17, 2023 and progress
			 is -1438.50m3/ 4810m3 (30%) till end of March, 2023 Concrete pouring for the Guide wall of the Cut-off wall started on Dec 3rd,
			2022-122m/122m (100%) completed till end of March, 2023
			Left Bank Traffic Diversion
			Tunnel Underground Execution from
			 Underground Excavation from U/S started on April 1, 2021 and
			 progressed up to 1037m till end of
			 March, 2023. - Underground Excavation from d/s started on December 15, 2022 and
			progressed up to Ch.1245 (120m) till end of March, 2023.
			Total U/G Excavation Progress 1,157m/1,365 (85%)
			Upstream Starter Dam Concrete Works Concrete works of U/S Starter Dam started on March 8, 2023 and progress is 5090.50m3/37,337 (13.6%) till end of
			March, 2023.
	MW-02: Under Ground Power	CGGC	Preparatory Works Surge Chamber Vault Access Tunnel
	Complex, Tunnels and		 Bench Excavation and Support of SCVAT #1 Gallery was in progress (current
	Hydraulic Steel Structure		chainage 0+67 m (25 Jan. 2023))
			 Bench Excavation and Support of SCVAT #2 Gallery was in Progress (Current chainage
			0+026 m (25 Jan. 2023)
			The excavation and supporting works were suspended due to lack of ventilation sustain sizes, lanuary 2023. The bottom enlargement was in progress in March
			system since January 2023. The bottom enlargement was in progress in March 2023 to secure additional space for ventilation system.
			GIS Room Access Tunnel
			 No activity in this month. The excavation was commenced on 01 March 2020 and substantially completed
			in March 29, 2023 (113m in total 98.9% of the total length of 114.18 m)
			Exhaust Tunnel
			Excavation and supporting works of the vertical shaft were commenced on 26th October 2022 and completed on 15th February 2023.
		L	potobol 2022 and completed on Totil i ebildary 2023.

S. No.	Contract Name	Contractor	Major Activities During This Quarter
			Exhaust Vertical Shaft The enlargement was commenced on 03-Jan-2023 and completed on 15-Feb-
			2023.
			 Excavation and support work was suspended due to poor ventilation and lighting. Underground Transformer Cavern
			Total Excavation Volume up to the second bench is 55,300.7m ³ of total excavation volume of 234,829.30m ³ , which is the progress of 23.5% in total.
			 Installation of PS Tendon was commenced on 23rd February 2023. The works
			of PS tendon for arch portion was in progress. Power Intake
			· Protection fence was in progress (Ditch Excavation) Surface Excavation at
			EL.1000m to EL980m,972m. Lower Pressure Tunnel
			(1) Penstock Adit Tunnel No.01
			 Excavation of the Lower pressure Tunnel #1 was Started 08 May 2022. The crown enlargement was No Activity due shift of all resources to other
			contract works (MW-01) (Current Chainage is 0+47m January 2023). (2) Penstock Adit Tunnel No.02
			 Lower pressure tunnel # 2 Invert Cleaning and 921m³ Plug Concrete poured in
			Jan. 2023. The activities were suspended due to shift of all resources to other contract works (MW-01). The tunnel supporting works (steel arch installation) was
			resumed on 23 Mar.2023
			Tailrace Tunnel (1) Upstream Audit Tunnel CT1
			• Excavation/Enlargement junction with transition/tailrace & CT1 was started on
			21st Jan 2023 & enlargement of CT1 section at both junctions was completed on 13th Feb 2023.
			 (2) Downstream Adit Tunnel CT2 Excavation was completed on 19th Feb 2023 and Support work was in progress.
			(3) Tailrace Tunnel No.1
			 The excavation was commenced on 03-Feb-2023 from CT2 and 19-Feb-2023 from CT1 and excavation and support works were in progress.
			(4) Tailrace Tunnel No.2
			 The excavation was commenced on 15-Feb-2023 from CT1 and 21-Feb-2023 from CT2, and the excavation and support work were in progress.
			Switchyard EL.958m to EL.943m 4th Bench central Portion Excavation and mucking was in
			progress.
			 Support work on 4th bench slope (El 950 to 940) of both left and right side was in progress.
			EI.935 Drilling for Boulder Blast.
			 Removing Debris was in progress by daywork order.
3	EM-01		Construction Activities (1) Excavation:
		Power China	• Excavation of Terrace No 15 and Terrace No. 16 was in Progress.
		Engineering Ltd (GE-PC)	(2) Boundary Wall: • Excavation from CP14 to CP15 in Progress
			Lean concrete from CP14 to CP15 in Progress
			 Block masonry/ Plinth Beam (RCC) CP6 to CP15 in Progress. Block masonry/Plinth Beam (RCC) was in progress: CP6TO CP15 was in
			progress. (3) Retaining Walls/Stone Masonry
			 Compaction of Terrace No 6, and 15 in Progress.
			 Lean Concrete of Terrace No 6, and 15 in Progress. Stone Masonry of Terrace No 6, and 15 in Progress.
			(4) HSE Work:
			 Safety Training was conducted for workers at site. Morning TBT was conducted on site.
			(5) Watch Towers: • Excavation for watchtower was completed.
			Foundation Concrete and Concrete Structure was completed.
			 Block Masonry Completed: Nil Changes as per Engineer/Wapda Instruction: yet to be done.
			(6) Under Construction Buildings in March, 2023.
			Security Building Office Building
			Residency Building
			Backfilling by layer Including Cut Quantities are 89442 m ³ and Fill Quantities are 58,176
	Preparatory Works Road Contracts		
1	KKH-01 Relocation of	China Civil	The major activities undertaken during this month were:
	Karakoram Highway from KM	Engineering Construction	 Limited Construction Activities in this month. Slope protection works and excavation activities at third bench Zero Point
	0+000 to 25+200 (preparatory	Company	continued during the month.
	works)	(CCECC)	

S. No.	Contract Name	Contractor	Major Activities During This Quarter
			 Excavation and primary support works of K-4 Tunnel outlet side RD=K4+355 continued during the month and 271m heading and benching 139m completed. Preparation for secondary lining assembling of formwork completed. Excavation and primary support works of Logro-A tunnel inlet side RD=K9+449 continued during the month and 297m heading, benching 256m completed. Preparation for secondary lining assembling of formwork. Improvement works including construction of retaining walls & laying of RCCP for Khoshe Bypass Road continued during the month. Construction of camp, workshop and batching plant in Uchar continued during the month. Preparatory works for Uchar Bridge resumed and continued during the month. Preparatory works for Uchar Bridge resumed and continued during the month. Preparatory works for Uchar Bridge resumed and continued during the month. Parseen Bridge in Kaigah direction Camp construction continued during the month. Construction of access road for Abutment 02 in Kaigah direction started and continued. Tunnel excavation and primary support works of Logro-B RD=K11+905 18m and Dugah tunnel RD=K23+645 outlet side 5m heading completed during the month. Construction of camp, workshop and batching plant in Kaigah for Dugah tunnel continued during the month. Preparation for slope protection works on right side pier 01 of Uchar Bridge suspended during the month. Construction of access road on left side pier 02 of Uchar Bridge started and continued during the month.
	RAR-01 Construction of Right Bank Access Road from Komila to Seo Dam Site (preparatory works)	CCECC	 continued during the month. 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. Slope cutting from catch point around K0+400 to K0+600 in progress. Excavation for road around K1+200, drilling and blasting around K2+200 and section Komila Bypass in progress. Sub grade preparation i.e. levelling etc from K1+500 to K1+750 in progress. Drilling, blasting and excavation work for local access around K2+100 in progress and completed. Embankment filling in Nullah for causeway around K1+350 in progress. Granular backfilling at causeway rip rap area in progress. Toe wall protection in nullah at K1+350 and stone masonry rip rap in progress and completed. Concrete for causeway cutoff wall & Slab (L/S) in progress and completed. Concrete for causeway cutoff wall, lean & A1 concrete for slab at K0+356. Concrete for causeway cutoff wall, lean & A1 concrete for slab at K0+300 completed. Concrete for causeway cutoff wall & slab (R/S) in progress and completed. Stone masonry retaining walls around K1+252 and K1+272 in progress and completed. Granular & stone dust backfilling behind the completed R/walls in progress.
	KKH-02: Relocation of Karakoram Highway from RD 25+200 to 62+213	CGGC	 The major construction activities undertaken during this month were: Excavation and blasting work at K24+730-800, K26+370-700, K33+520-700, K36+270-450, K42+290-490, K46+200-300 is continue. New access road has commenced at K38, K40 for gobbar tunnels and bridge (both faces). Work has been stopped at k31 due to weak geology and at K44 (both sides) due to SMR package.
	RAR-02: Construction of Right Bank Access Road from Dam Site to Uttar Gah	CGGC	 The major construction activities undertaken during this month were: Excavation and blasting work continue from K13+370 to K13+800. Cable crossing work at K20 is almost done. Work at seer gayal access road has been stopped by locals on 17th of March due to the nonpayment of houses in reservoir area. The contractor is working on four working faces in kandia, K33+400, K34+450 & K36+410. Work at k35 has been stopped by locals due to SMR package. Request for removal of houses inside and below the RAR-02 has been forwarded to the Employer. The Contractor mobilized to the Kaigah Contractor's camp and brought new equipment and manpower. The Contractor is planning to start Kandia working face and has already started Largani cable way to start new working face by 1st Week of April 2023.
	RAR-03: Construction of Right Bank Access Road from		Procurement is in progress

S. No.	Contract Name	Contractor	Major Activities During This Quarter
	Uttar Gah to Shatial		
11	Electrification Contracts		
1	and Commissioning of 132 kV Single Circuit Transmission Line and Grid Station (From Switchyard Dubair Khawar to proposed Grid Station Dasu)	Corporation Company (PCCC)	Activities carried during the month: • Excavation/cutting of access road to Grid Station is in progress. • Breast wall at Alignment-1 of access road is completed. • Breast wall at Alignment-2 of access road is in progress. • Fencing work of switchyard is in progress. • Roof treatment on Control house building is completed. □ Foundation of Earth Mast is completed. • Erection of Gantries on Terrace-1 and Terrace-2 is completed.
2	TL-02: 10kV Distribution Line to Resettlement Villages		Procurement is in progress
III 1	Colony Works PCI-01R: Project Colony & Infrastructure	China Gansu International Corporation for	The major construction activities undertaken during this month were: • Door fixing at Residence Cat -2B is in progress. • Boundary wall masonry and plastering at residence Cat -2, Cat -2A, 2B, 2C &
		Technical Cooperation (CGICOP)	 2D in progress. Ppr and plumbing work in bath rooms at residence cat-2B, 2C and 2D in progress. Electrician work at 2B and 2C in progress. Ramp construction towards the car porch at residence Cat -2 and 2A in progress. Painting at residence Cat 2 and 2A in progress. Bathroom fixtures fixing at residence Cat -2B & 2 C in progress. Installation of windows aluminum at Residence Cat 2,2B and 2c in progress. Laying of Base course for Secondary roads s1, s2 and s3 in progress. Car porch concreting at residence Cat 2A & 2 B in progress. Block masonry at residence Cat 3 and Cat 4 in progress. Plastering at residence cat -3 and residence cat-4 in progress. Form work and reinforcing fixing for the mumties of cat 3 and cat 4 is in progress. Sluice vales construction in progress. Septic tank type a construction in progress. Construction of storm drain along P1 road in progress. External boundary wall: block masonry and plastering in progress.
2	PCI-02: Project Colony and		Yet to be procured
1	Infrastructure Resettlement Villages Contracts Resettlement of Villages Left		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 • Block masonry at Mosque is in progress. • Stone masonry for breast wall in progress. (3) Kuz Choochang Site Upper & Lower Portions • Stone masonry retaining wall in progress. (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 No activity
1	Bank of Indus River LBRV- 10	Engineering Group Limited (Zhongmei)	
3	RV: Resettlement of Village Chuchang & Construction of Shatyal Museum	Khyber Grace (Pvt.) Limited (KGL)	Retaining wall work at Kuz Chuchang Site still in progress Work has been stopped by locals at Shatial rock carving site since 20-10-2020.
4	Right Bank of Indus Řiver RBRV-10	17th Bureau Group Co. Ltd. (CR17B)	No activity
5	Resettlement of Villages Left Bank of Indus River LBRV- 13- Right Bank of Indus River RBRV-12		The works are yet to be designed (subject to agreement with the affected communities)
6 V	Resettlement of Villages RV-01 & RV-02 Other Works		The works are yet to be finalized
1	VTC-01: Vocational Training Centre for Men and Women		Procurement is in progress

ii. Site Inspections and Meetings

The Environment Team of PMU WAPDA and DHC daily visits the construction sites and completes the monitoring checklists. In addition, the Senior Environmental Specialists of DHC and Dep.Director Environment PMU WAPDA conducted weekly inspections to ensure environmental compliances. The observations made were shared with the contractor for rectification. During the daily inspections some issues are communicated directly to the contractor through WhatsAPP group for immediate redressal while for the remaining a Walkthrough Environmental Inspection Reports (WTEIR) for any non-compliances is also a regular activity through which the contractors are intimated . Further, the team also conducts monthly environmental progress review meetings with the contractors.

iii. Key Non-Compliances

The details of non-compliances noticed during the implementation of various site visits are given in below Table. The Contractors are instructed to address these non-compliances through the issue of WTEIRs and letters.

Contract	No. of WTEIRs			Num	ber of L	etters	Main Non-Compliances					
Contract	Jan	Feb	Mar	Jan	Feb	Mar	Main Non-Compliances					
MW-01& MW- 02	10	5	4	3	9	12	Minor oil spills, Fugitive Dust, Hiring of Environmental officer, Water pH level beyond NEQS in the Sedimentation Ponds, Air Dispersion Modeling and non- submission of Seo Crush Plant installation NOC's					
ККН-01					Minor oil spill, inadequate Waste Management, Inappropriate Utilities in Camp for Labor and Staff, Housekeeping, Fuel Storage without containment, improper Sedimentation Tank at k9.							
RAR-01	1	0	0	0	1	1	Dust and minor oil spill.					
PCI-01R	2	0	0	1	1	4	Dust, Waste Littering, use of fuel Wood for cooking in labour camps, Minor oil spill, Sewage					
KKH-02	0	0	0	0	2		Dust Issue, Minor oil spill, Non-hiring Environmental Officer, Spoil Disposal Management Issue					
RAR-02	2	0	1	1	1	0	Dust, Non-hiring of Environmental Officer, Spoil Disposal Management Issue, Rolling of Debris down the slope					
TL-01	0	0	0	0	2	2	Improper Waste Management, inadequate Housekeeping, Minor Oil Spill, inadequate drinking water facility at site					
EM-01	3	0	1	0	0	1	Contract is in Design Stage. EM-01 Camp Construction is in progress i.e., excavation and back filling of terraces., Waste management, use of Wood as fuel, Scarcity of and unhygienic toilets, Hiring of Env Officer.					

Table ES-2: Major Non-compliances & Number of WTEIRs Issued During This Quarter

Contractors have conducted corrective actions to the issues raised by the Engineer, and these actions were reviewed in the monthly progress review meetings. A summary of issues raised during this quarter and their status is given in below Table.

Contract	No. of Iss	Issues	Closed		Issues S	Still Oper	١	Issues Partially Closed				
	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar
MW-01&-02	15	17	15	2	4	1	9	11	12	4	2	2
KKH-01	13	21	20	6	2	4	6	19	11	1	0	5
RAR-01	4	3	3	2	2	1	0	1	2	2	0	0
TL-01	6	7	3	1	5	1	5	2	2	0	0	0
PCI-01R	9	10	6	1	4	0	7	5	6	1	1	0
EM-01	8	13	9	0	8	3	8	5	5	0	0	1
KKH-02	12	11	10	3	2	2	6	7	8	3	2	0
RAR-02	8	9	10	2	2	1	6	6	8	0	1	1

iv. Monitoring of Air, Noise, Water and Wastewater

During the quarter, the Contractors conducted no quarterly environmental monitoring as they are in negotiations with a new third-party environmental laboratory to conduct the monitoring. The monthly environmental spot monitoring was conducted during the quarter. The results of the spot monitoring are given below:

Contractor		Upstream and Downstream of the Construction Area from River Indus											
	Turbidity			рН			Conductivity			DO			
	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar	
MW-01	41	48.2	477	8.5	8.6	8.4	190	203	246	9.8	5.0	7.7	
MW-02	65.4	52.8	54.5	8.3	8.8	8.4	195.9	221	269	8.8	12.3	7.5	

Table ES-4: Spot monitoring of Surface Water

Locations at MW-01 is: Upstream of Uchar crush plant in River Indus, Locations at MW-02 is:

Downstream near Khoshe Batching plant,

Table ES-5: Spot Monitoring of Wastewater and Compliance with NEQS

	Sr. No.		Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar	Jan	Feb	Mar	Remarks			
		Τι	irbidity			рΗ		Cor	nducti	vity		DO					
	1	>1000	>1000	976	9.5	9.7	10.2	4.3	103.3	126	9.9	4	5.1	The Contractor was instructed to			
MW-01	2	116.8	594	135.4	11.1	11.0	11.2	295	237	477	9.3	8.5	6.6	increase the freshwater addition			
	3	968	473	-	10.8	9.6	-	317	194	-	8.2	6	-	to lower the pH value and			
	1	407	966	-	10.7	11.2	-	27.3	503	-	4.6	5.8	-	Turbidity.			
MW-02	2	250	317	52.5	10.0	10.3	11.4	98	103	706	5.0	5.5	0.0	Also the contractor was advised to consider weak acid addition to lower the pH value.			
	3	330	544	76	11.4	11.4	11.1	1871	1291	1066	7.8	6.7	6.1				
Standard		20	DO NTU			6-8	•		µs/cm			ppm	•				

Note: Samples were not taken from MAT Pond, CT-02 Pond(MW-02) and Uchar Crushing Plant(MW-01)

Locations at MW-01 are: 1. Sedimentation pond of Uchar crush plant, 2. Sedimentation pond at Uchar Batching plant,

3. Sedimentation pond near Adit-1). Locations at MW-2 are: 1. Sedimentation Pond at Main Access Tunnel (MAT) 2. Sedimentation Pond at Khoshe Batching Plant

v. Other Activities conducted

The outstanding issues in the Project and other key activities conducted by the environmental team of DHC during this quarter are given in below Table.

Sr.	Activity	
Sr. No.	Activity/ Outstanding	Progress in this Quarter
	Issue	
1	Sedimentation Tanks of MW-01 and MW-02	The addition of fresh water to the sedimentation tank is time and again "Engineer" has implemented through the CGGC contractor. But this issue seems to be not working in the lowering down of the pH levels in sedimentation Tank. As as further step as described in the IFC guidelines addition of acid to the sedimentation tank was suggested to the CGGC contractor. The "Engineer" conducted a "Jar test" in which samples were taken from the sedimentation tank outside the Main Access Tunnel (MAT). The waste water pH was 11.2 at the time of sampling. By addition of of simple fresh water it was reduced to 10.7 and no further reduction in the pH levels. A meeting was conducted with CGGC EHS Team and Laboratory Team on 1st of March 2023 for conducting an experiment on the sedimentation tank of MAT for lowering of pH in the sedimentation Tank with using mild acid dilution in the sedimentation tank. The environment Team of DHC arranged diluted sulfuric acid(H ₂ SO ₄) with 25% V/V of 50 % concentration. There were seven samples which were runned down in which 0.1 ml, 0.3 ml, 0.5ml, 1ml, 2.5ml, 4ml, 5ml, was used. The Sample size was 1000ml. The experiment resulted in reducing the pH level to a range where it was coming within the NEQS limit. The final effective quantity which was 0.3ml in 900ml resulted in a pH level of 7.8. Later on the contractor did his own calculations based on this experimentation tanks of MW-01 & MW-02. The total amount of acid to be used in the sedimentation tanks of MW-01 & MW-02. The total amount required in a month was too costly and might have had some environmental and safety implications. Therefore, this option is still under consideration but not applied on site. It is important to notice that this option is clearly written in the IFC Guidelines to treat the waste water.
2		The Screening Report for the newly identified site at Kaigah (Near 24+0 to 24+400RD of relocated KKH-01) with basic design drawings/layout plans were submitted to WAPDA on 4th of August 2022. The Revenue department started their survey in

		the start of 2 nd week of Jan 2023 but it was stopped by the community due to some ownership title issues among the community. The revenue team tried three times to conduct the survey by then the two parties of local community submitted different applications to WAPDA which could have led to a fierce conflict/violence. The next two months of February and March 2023 WAPDA and Revenue teams tried to re-console and settlement among the aggrieved parties but all went in vein. The "Engineer" is still of the view that Kaigah(24+00 to 24+500RD) is best available site for SWD activity with having least amount of people having residential claims i.e., 5 dwellings only(as per community claim) and best topography for construction of Land fill site.
3	WAPDA with agenda of updation of traffic	
4	WAPDA with agenda of WB	Meeting on 26 th of February 2023 with D.G SSE WAPDA for discussion on presentation to be given to World Bank on 27 th of February 2023. The Engineer's Team gave presentation to the D.G SS&E of WAPDA for last moment addition or subtractions of any details which the proprietor of the DHPP deems fit so.
5	Implementation Support Mission (ISM) Dated 26- 02-2023 to 28-02-	Environment team prepared and delivered presentations on two topics i.e., "EMAP implementation" as well as for "Traffic Management Plan" for World Bank Implementation Support Mission. Meetings and site visits were conducted from 26 th to 28 th of February 2023. World Bank, DHC, WAPDA environment teams inspected underground works of MW-01 and MW-02 with WB Teams and inspected the site on 26 th and 28 th of February2023.
6	Section joined the Virtual Meeting	
7	Advisor to Chairman WAPDA regarding the	A meeting was held on 17 th of March 2023 at WAPDA PMU Hall. Environment section was called upon to participate in the meeting to brief WAPDA Advisor project regarding DHPP traffic management plan. The Advisor project instructed to submit the plan by 31 st March 2023 after incorporating Basha Dam (DBDP) project logistic data. WAPDA has been requested to provide the data. The work on TMP is continued by the "Traffic Engineer" under supervision of Environment Section, DHC.
8	Site visit to Kuza	The Traffic Engineer (joined DHC on 25 th of Jan, 2023.) along with Sr. Environmentalist visited Kuzabanda Site on 04 th & 5 th of March 2023, to re-visit the parking spaces, layby areas, establishment of site offices along route from rest area of Kuzabanda up till Dasu Town as well as explore options like installation of traffic safety markers/signboards, guard railings etc.
		A meeting was held in DHC 3-4 times among the Environment Specialist of MSC and Chief Environmentlist and Sr. Environmentlist DHC. During the reporting quarter DHC has shared through PMU, WAPDA, the "required data with MSC" (as per their demand and on direction of D.D Environemnt WAPDA) as and when it was requested by MSC. Six monthly data compilation undertaken and shared by the DHC Environment Section as requested by WAPDA for MSC consultants.
11		Total trees cut down due to construction of DHPP components or associated activities are 4182 up till Dec 2022. There is no data available during the current reporting period, i.e., Jan-March 2023.
		There were No Physical Cultural Resources found on any construction site of DHPP during this quarter, i.e., Jan-March 2023.
13	Grievance	There is a one tier Independent Grievance Redressal Committee which is headed by a

	<i>l</i> echanism	retired Additional Deputy Commissioner (A.D.C). The Engineer's Environment Section is in close liason with this IGRC and till date there has been no registered grievances regarding Environmental component of DHPP. A monthly meeting is conducted with IGRC chaiman from Jan- March 2023, for discussion on having any grievance regarding environmental issues.
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1 Introduction

1.1 Background

Dasu Hydropower Project (DHP or the Project) is a World Bank-financed project in Pakistan and implemented by the Pakistan Water and Power Development Authority (WAPDA). The Project consists of a 242 m high concrete dam with an installed capacity of 4320 MW. The dam site is located 7 km north of Dasu km North of Dasu town in the Kohistan district of the Khyber Pakhtunkhwa Province and 350 km North of Islamabad, the capital city of Pakistan.

WAPDA has established a Project Management Unit (PMU) at Dasu to implement the Project and hired Dasu Hydropower Consultants (DHC) as the Engineer or Construction Supervision Consultant to oversee the implementation. Nippon Koei Ltd., Japan, is the lead consulting firm.

This report presents the progress of the environmental performance of the DHP from January to March 2023 and activities conducted during the period by the environmental staff of PMU and DHC. The progress of the Occupational Health and Safety (OHS) and the Project's social aspects are **presented in separate standalone quarterly reports and hence are not covered in this report.0m**

1.2 Environmental Compliance Requirements of DHP

The key documents that describe the environmental compliance requirements of DHP are:

- An Environmental and Social Assessment (ESA) of DHP was prepared by WAPDA in 2014 through a team of independent consultants and submitted to World Bank. The World Bank has approved the ESA, and its successful implementation is a critical legal covenant of the financing agreement with WAPDA. Hence the environmental performance requirements of DHP should comply with the environmental management plan (EMP) in the ESA.
- The environmental conditions and specifications in the bidding documents of the Contractors.
- The Contractors must prepare Construction Environmental Action Plans (CEAPs) before mobilization with site-specific management plans to address various environmental risks and impacts. The CEAPs were reviewed and approved by the Engineer.

During the detailed design of DHPP (2012-2013), the design consultant has prepared an Environmental Management Action Plan (EMAP), which consists of 7 volumes of documents¹. These are the internal and background documents of WAPDA and the basis for preparing ESA by independent consultants of WAPDA for Word Bank approval.

During the implementation of DHP (2017-2018), WAPDA has prepared Detailed Ecological and Biodiversity Management Plans (DEBMP) consisting of 7 plans². The Project's biodiversity aspects will be addressed by implementing these plans. WAPDA is yet to start implementing these plans, and once the implementation begins, their progress will be presented through a separate quarterly report.

1.3 **Project Description**

The DHP is planned to be implemented in two stages, with each stage consisting of two phases. Currently, Stage I of the DHP (DHP-I) is under implementation with the World Bank financing. The stage-wise proposed activities in the DHP are given in Table 1.1:

Stage	Phase	Description of Works
Stage I	Phase-1	Construction of the dam with full height including whole gate facilities for such as spillway, 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 switchvard.
	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.

Table 1.1:Stage I and Stage II activities in DHP

¹ The EMAP documents are Volume 1: Executive Summary, Volume 2: Environmental Impact Assessment, Volume 3: Terrestrial Ecology, Volume 4: Aquatic Ecology, Volume 5: Physical Cultural Resources, Volume 6: Environmental Baseline Quality, Volume 7: Cumulative and Induced Impact Assessment, and Volume 7: Environmental Management Plan. The DEMBP plans are Plan 1: Aquatic Ecology – Fisheries Management Plan, Plan 2: Task 3: Terrestrial Ecology Management Plan, Plan 3: Avian

² The DEMBP plans are Plan 1: Aquatic Ecology – Fisheries Management Plan, Plan 2: Task 3: Terrestrial Ecology Management Plan, Plan 3: Avian Risk Management Plan, Plan 4: Wildlife Conservation Management Plan, Plan 5: Forestry Management Plan, Plan 6: Watershed Management Plan, and Plan 7: Physical Cultural Resources (PCR) Baseline and Management Plan

Stage II		Third waterway tunnel until the tailrace outlet; underground powerhouse complex for another 3-unit 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.

1.4 Procurement Status of Contracts

The DHP-I will be implemented under several construction contracts. These are grouped into two categories, (i) the Preparatory Works, which include the project colony, access roads, power lines and resettlement villages, and (ii) Main Works, which include the construction of the dam, underground powerhouse and related electromechanical works.

The Procurement Status of Contracts works, Resettlement Works and Main Works is presented in Table 1.2.

	Dete of Dete of Commencement Original Updated											
S. No.		Date of Award	Date of Signing	Commencement Date	completion date	Completion Date	Name of Contractor					
	MW-01: Main Hydraulic Structure, Spillway, Low-Level Outlets, River Diversion, and Hydraulic Steel Structures	2016	07.03. 2017		22-1-2023	21-11-2026	China Ghezouba Group Company Limited (CGGC)s					
	MW-02: Under Ground Power Complex, Tunnels and Hydraulic Steel Structure	2016	07.03. 2017	23.06. 2017	21-2-2023	01-10-2026	China Ghezouba Group Company Limited (CGGC)					
	EM-01: Procurement of Plant Design, Supply, Installation, Testing & Commissioning of Hydro- Mechanical and Electrical Equipment	2018	2018	20.5. 2020	18-6-2025	NA	G.E. Hydro China Co. Ltd. & Power China Zhongmei Engineering Corporation Ltd. Joint Venture (GE-PC JV)					
	KKH-01: Relocation of Karakoram Highway from KM 0+000 to 25+200	2015	16.03. 2015	24.07. 2015	20-2-2017	22-7-2024	China Civil Engineering Construction Company (CCECC)					
	RAR-01: Construction of Right Bank Access Road from Komila to SEO Dam Site and VO-007 of Komila bypass	08.02. 2015	16.03. 2015	24.07. 2015	22-7-2016	31-8-2022	China Civil Engineering Construction Company (CCECC					
	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)	2015	24.04. 2015	02.10. 2015	17-6-2016	18-10-2022	Power China Corporation Company (PCCC)					
		2017	20.04. 2017	26.12. 2017	25-12-2018	31-7-2022	Zhongmei Engineering Group Limited					
	Resettlement of Villages Left Bank of Indus River LBRV-12		20.04. 2017	26.12. 2017	25-12-2018	31-7-2022	Zhongmei Engineering Group Limited					
	RAR-02: Construction of Right Bank Access Road from Dam Site to Uttar Gah	2016	17.01. 2017	20.12. 2021	18-5-2023		China Ghezouba Group Company Limited (CGGC)					
	KKH-02: Relocation of Karakoram Highway from KM 25+200 to 62+213	2017	25.04. 2017	15-5-2022	31-12-2024	NA	China Ghezouba Group Company Limited (CGGC)					
10	Right Bank of Indus River RBRV-10		25.04. 2017	Commencement Letter not yet issued/ Land Issue	-	NA	China Railway 17th Bureau Group Co. Ltd. (CR17B)					
	Infrastructure (Rebid)		17.9. 2017	20.5.2018	17-5-2021	31-10-2022	China Gansu International Corporation for Economic and Technical Cooperation (CGICOP)					
	RV: Resettlement of Village Chuchang & Construction of Shatial Museum (Re-Bid)		17.06. 2018	17.06. 2018	15-12-2020 8 16-9-2018	31-12-2022	Khyber Grace (Pvt.) Limited (KGL)					

1.5 Status of Project Implementation

The overall construction progress of signed contracts up to reporting period is given in Table 1.3.

Table 1.3:Overall Construction Progress

Sr.	Contract	Elapsed Time		me Work Progress up to reporting period		Progress in This Time period
No.		Quarter	%Age	Scheduled %	Actual %	
1	ICB No. DASU- KKH-01(ii)	91.3	176.7	100.0		The major activities undertaken during this month were: • Limited Construction Activities in this month.

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	1			•		
2	ICB No. DASU- RAR-01(iii)	91.3	155.3	100.0	98.8	 Slope protection works and excavation activities at third bench Zero Point continued during the month. Excavation and primary support works of K-4 Tunnel outlet side RD=K4+355 continued during the month and 271m heading and benching 139m completed. Preparation for secondary lining assembling of formwork completed. Excavation and primary support works of Logro-A tunnel inlet side RD=K9+449 continued during the month and 297m heading, benching 256m completed. Preparation for secondary lining assembling of formwork. Improvement works including construction of retaining walls & laying of RCCP for Khoshe Bypass Road continued during the month. Construction of camp, workshop and batching plant in Uchar continued during the month. Preparatory works for Uchar Bridge resumed and continued during the month. Preparation for slope protection works on Dasu direction started and continued during the month. Barseen Bridge in Kaigah direction Camp construction continued during the month. Construction of access road for Abutment 02 in Kaigah direction started and continued. Tunnel excavation and primary support works of Logro-B RD=K11+905 18m and Dugah tunnel RD=K23+645 outlet side 5m heading completed during the month. Construction of slope protection works on right side pier 01 of Uchar Bridge suspended during the month. Preparation for slope protection works on right side pier 01 of Uchar Bridge suspended during the month. Construction of access road on left side pier 02 of Uchar Bridge started and continued during the month. The major activities undertaken during this month were: Construction of Komila bypass in progress. Slope cutting from catch point around K0+400 to K0+600 in progress. Slope cutting from catch point around K0+400 to K0+600 in progress. Slope cutting from catch point around K0+400 to K1+750 in progress. Sub grade preparation i.e. levelling etc from K1+500 to K1+750 in pr
						in progress and completed. Concrete for causeway cutoff wall & Slab (L/S) in progress and completed. Concrete for causeway cutoff wall, lean & A1 concrete for slab at
						 Concrete for causeway cutoff wall & slab (R/S) in progress and completed. Stone masonry retaining walls around K1+252 and K1+272 in progress and completed. Granular & stone dust backfilling behind the completed R/walls in progress. Breast wall stone masonry around k0+700 to K0+850 in progress. Stone masonry parapet wall around K11+200 at RAR-01 in progress.
3	ICB No. DASU- TL-01(iv)	89.0	63.2	100.0	92.2	Activities carried during the month: Activities carried during the month: • Excavation/cutting of access road to Grid Station is in progress. • Breast wall at Alignment-1 of access road is completed. • Breast wall at Alignment-2 of access road is in progress. • Fencing work of switchyard is in progress. • Roof treatment on Control house building is completed. □ Foundation of Earth Mast is completed.
						Foundation of Earth Mast is completed. Frection of Gantries on Terrace-1 and Terrace-2 is completed.

	SU-69.3	61.3	41.7	20.4	Preparatory Works
MW-01					Contractor Camp in Kass area is under construction i.e., - Stone
					Masonry for Retaining Wall-74% 1# Batching Plant and 1# Crushing Plant at Uchar Area
					- Fencing Wall- 59%
					- Construction of Generator's house- 95%
					- Installation of generator system for power supply started on March 20, 2023 and works are on-going in the month of March.
					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 &
					Chuchang Area and fixing of blind sheet along CR2 & CR9.
					Diversion Tunnel A Underground excavation for Diversion Tunnel No. A was started on
					August 9th, 2019 and completed on March 7, 2023. 712,768m ³ /
					712,768m ³ (100%). Concrete Work of Diversion and Adit Tunnels
					Diversion Tunnel A
					1) Inlet Structure Works (Outside) - 17,940m3 / 18,200m3 (98.57%) completed till end of March,
					2023.The concreting
					works before the river diversion is completed at the Inlet Structure
					Outside 2) Inlet Lining Works (Inside)
					- Concrete Works: 10,444m3 / 10,444m3 (100%) completed on
					March 18, 2023. 3) Invert Levelling Concrete (C20)
					- L/S- 1,427m / 1,524m (97%)
					- R/S- 1,524m/1,524m (100%)
					4) 1m Invert Structural Concrete (A25) - L/S- 1,296m / 1,411.55m (92%)
					- R/S- 1,387m/1,411.55m (98%)
					Diversion Tunnel B
					Underground excavation for Diversion Tunnel No. B was started on
					May 30th, 2019 and completed on January 28, 2023. 623,515m ³ / 623,515m ³ (100%).
					1) Inlet Structure Works (Outside)
					- 17,941m ³ / 21,600m ³ (83%) completed till end of March, 2023. No
					concrete observed during the month of March, 2023. Invert Levelling Concrete (C20)
					- L/S- 1,309m / 1,309m (100%)
					- R/S- 1,309m/1,309m (100%) Started on January 24, 2021 and completed on January 29, 2023.
					1m Invert Structural Concrete (A25)
					- L/S- 1,163.52m / 1,163.52m (100%)
					- R/S- 1,163.52m/1,163.52m (100%) Started on April 26, 2022 and completed on February 3, 2023.
					Outlet Structure Works
					- Concrete Works: 1829.20m3/ 1829.20m3 (100%) started on May 7, 2021 and completed on May 9, 2022.
					- Additional Concrete: Additional concrete at DT.B outlet wall started
					on January 16,2023 and completed on Jan 28, 2023. Total Quantity poured was 358 / 358m ³ (100%).
					Adit Plug Concrete
					- Concrete Works: 891m ³ / 1647m ³ (54%) completed till end of March 2023
					March, 2023. Inlet Dyke
					Some Part of Inlet Dyke in front of Diversion Tunnel No. A was
					removed for making platform for the Construction of Inlet Structure Slab.
					- Inlet dyke in front of Diversion Tunnel No. B was removed from El.
					788m to El. 776m. 4 No. of blasts carried out on January 31, 2023, 12th, 13th & 16th
					February, 2023 to remove DT.B Inlet Dyke.
					Diversion Tunnel Outlet dyke Construction Works-
					Outlet Dyke in front of DT.B was blasted on February 10, 2023.
					Demolishing of Diversion Tunnel Outlet Dyke for removal of water from Diversion Tunnel carried out during the month of September
					2022
					 Right Bank Bypass Tunnel on The Right Bank -1st U/G Blast at Inlet carried out on February 4, 2023 at Ch.
					0+025m and progress up to
					 Ch. 0+118m (93m) till end of March, 2023.
					 1st U/G Blast at outlet carried out on February 14, 2023 at Ch. 0+528m and progress up to Ch. 0+462m (66m) till end of March,
1	1	1		1	

						 Total underground excavation progress is 159m/ 503m (32%) till end of March, 2023. Main Dam
1						Right Bank Abutment (Siglo Area)
						 U/S Temporary Access Road Construction- 70%
						 D/S Temporary Access Road Construction- 70% D/S Temporary Access Road Construction- 79%
						 - D/S remporary Access Road Construction- 79% - Excavation and support of Right Bank Cable crane Platform
						above El. 1065m- 75%
						 Excavation and support of Right Bank Cable crane Platform slope El. 1065m to El.1050m-72%
						•
						 Excavation and support of Right Bank Cable crane Platform slope El. 1050m to El. 1035m- 10% (Now El. 1047m)
						Left Bank Abutment
						 Excavation of the second layer of CR5-2 Road (1032~1018)-
						- Left Bank Cable Crane Platform Excavation- 0%
						Upstream Starter Dam Concrete Works
						 Concrete works of U/S Starter Dam started on March 8, 2023
						and progress is 3,505.50m3/ 37,337 (9.40%) till end of March,
						2023.
						Cut-off Wall
1						 Cut-off Wall Drilling started on December 24th, 2022 from the right side and provide all
1						right side and remained
1						continued during the month of January-2023. Drilling progress
						achieved 2184m ² /4,748.40m2 (46%) till end of March 2023.
1						 Concrete pouring for Cut off wall started on January 17, 2023
1						and progress is -1438.50m3/ 4810m3 (30%) till end of March,
						2023
1						 Concrete pouring for the Guide wall of the Cut-off wall started
						on Dec 3rd, 2022-122m/122m (100%) completed till end of
						March, 2023
						Left Bank Traffic Diversion
						• Tunnel
1						 Underground Excavation from
						 U/S started on April 1, 2021 and
						 progressed up to 1037m till end of
						• March, 2023.
						 Underground Excavation from d/s started on December 15,
						2022 and progressed up to Ch.1245 (120m) till end of March,
						2023.
						 Total U/G Excavation Progress 1,157m/1,365 (85%)
						Upstream Starter Dam Concrete Works Concrete works of U/S
						Starter Dam started on March 8, 2023 and progress is
						Starter Dam started on March 8, 2023 and progress is 5090.50m3/37.337 (13.6%) till end of March, 2023.
1						Starter Dam started on March 8, 2023 and progress is 5090.50m3/37,337 (13.6%) till end of March, 2023.
5		60.2	64.2	E2 9	8.0	5090.50m3/37,337 (13.6%) till end of March, 2023.
5		69.3	64.2	52.8	8.9	5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works
5	ICB No. DASU- MW-02	69.3	64.2	52.8	8.9	5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel
5		69.3	64.2	52.8	8.9	5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel • Bench Excavation and Support of SCVAT #1 Gallery was in
5		69.3	64.2	52.8	8.9	5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel • Bench Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+67 m (25 Jan. 2023))
5		69.3	64.2	52.8	8.9	5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel • Bench Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+67 m (25 Jan. 2023)) • Bench Excavation and Support of SCVAT #2 Gallery was in
5		69.3	64.2	52.8	8.9	5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel • Bench Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+67 m (25 Jan. 2023)) • Bench Excavation and Support of SCVAT #2 Gallery was in Progress (Current chainage
5		69.3	64.2	52.8	8.9	5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel • Bench Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+67 m (25 Jan. 2023)) • Bench Excavation and Support of SCVAT #2 Gallery was in Progress (Current chainage 0+026 m (25 Jan. 2023)
5		69.3	64.2	52.8	8.9	5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel • Bench Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+67 m (25 Jan. 2023)) • Bench Excavation and Support of SCVAT #2 Gallery was in Progress (Current chainage 0+026 m (25 Jan. 2023) • The excavation and supporting works were suspended due to lack
5		69.3	64.2	52.8	8.9	5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel • Bench Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+67 m (25 Jan. 2023)) • Bench Excavation and Support of SCVAT #2 Gallery was in Progress (Current chainage 0+026 m (25 Jan. 2023) • The excavation and supporting works were suspended due to lack of ventilation system since January 2023. The bottom enlargement
5		69.3	64.2	52.8	8.9	5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel • Bench Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+67 m (25 Jan. 2023)) • Bench Excavation and Support of SCVAT #2 Gallery was in Progress (Current chainage 0+026 m (25 Jan. 2023) • The excavation and supporting works were suspended due to lack of ventilation system since January 2023. The bottom enlargement was in progress in March 2023 to secure additional space for
5		69.3	64.2	52.8	8.9	5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel • Bench Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+67 m (25 Jan. 2023)) • Bench Excavation and Support of SCVAT #2 Gallery was in Progress (Current chainage 0+026 m (25 Jan. 2023) • The excavation and supporting works were suspended due to lack of ventilation system since January 2023. The bottom enlargement was in progress in March 2023 to secure additional space for ventilation system.
5		69.3	64.2	52.8	8.9	5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel • Bench Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+67 m (25 Jan. 2023)) • Bench Excavation and Support of SCVAT #2 Gallery was in Progress (Current chainage 0+026 m (25 Jan. 2023) • The excavation and supporting works were suspended due to lack of ventilation system since January 2023. The bottom enlargement was in progress in March 2023 to secure additional space for ventilation system. GIS Room Access Tunnel
5		69.3	64.2	52.8	8.9	5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel • Bench Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+67 m (25 Jan. 2023)) • Bench Excavation and Support of SCVAT #2 Gallery was in Progress (Current chainage 0+026 m (25 Jan. 2023) • The excavation and supporting works were suspended due to lack of ventilation system since January 2023. The bottom enlargement was in progress in March 2023 to secure additional space for ventilation system. GIS Room Access Tunnel • No activity in this month.
5		69.3	64.2	52.8	8.9	 5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel Bench Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+67 m (25 Jan. 2023)) Bench Excavation and Support of SCVAT #2 Gallery was in Progress (Current chainage 0+67 m (25 Jan. 2023)) Bench Excavation and Support of SCVAT #2 Gallery was in Progress (Current chainage 0+67 m (25 Jan. 2023)) The excavation and supporting works were suspended due to lack of ventilation system since January 2023. The bottom enlargement was in progress in March 2023 to secure additional space for ventilation system. GIS Room Access Tunnel No activity in this month. The excavation was commenced on 01 March 2020 and
5		69.3	64.2	52.8	8.9	5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel • Bench Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+67 m (25 Jan. 2023)) • Bench Excavation and Support of SCVAT #2 Gallery was in Progress (Current chainage 0+026 m (25 Jan. 2023) • The excavation and supporting works were suspended due to lack of ventilation system since January 2023. The bottom enlargement was in progress in March 2023 to secure additional space for ventilation system. GIS Room Access Tunnel • No activity in this month. • The excavation was commenced on 01 March 2020 and substantially completed in March 29, 2023 (113m in total 98.9% of
5		69.3	64.2	52.8	8.9	5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel • Bench Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+67 m (25 Jan. 2023)) • Bench Excavation and Support of SCVAT #2 Gallery was in Progress (Current chainage 0+026 m (25 Jan. 2023) • The excavation and supporting works were suspended due to lack of ventilation system since January 2023. The bottom enlargement was in progress in March 2023 to secure additional space for ventilation system. GIS Room Access Tunnel • No activity in this month. • The excavation was commenced on 01 March 2020 and substantially completed in March 29, 2023 (113m in total 98.9% of the total length of 114.18 m)
5		69.3	64.2	52.8	8.9	5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel • Bench Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+67 m (25 Jan. 2023)) • Bench Excavation and Support of SCVAT #2 Gallery was in Progress (Current chainage 0+026 m (25 Jan. 2023) • The excavation and supporting works were suspended due to lack of ventilation system since January 2023. The bottom enlargement was in progress in March 2023 to secure additional space for ventilation system. GIS Room Access Tunnel • No activity in this month. • The excavation was commenced on 01 March 2020 and substantially completed in March 29, 2023 (113m in total 98.9% of the total length of 114.18 m) Exhaust Tunnel
5		69.3	64.2	52.8	8.9	5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel • Bench Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+67 m (25 Jan. 2023)) • Bench Excavation and Support of SCVAT #2 Gallery was in Progress (Current chainage 0+026 m (25 Jan. 2023) • The excavation and supporting works were suspended due to lack of ventilation system since January 2023. The bottom enlargement was in progress in March 2023 to secure additional space for ventilation system. GIS Room Access Tunnel • No activity in this month. • The excavation was commenced on 01 March 2020 and substantially completed in March 29, 2023 (113m in total 98.9% of the total length of 114.18 m) Exhaust Tunnel Excavation and supporting works of the vertical shaft were
5		69.3	64.2	52.8	8.9	5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel • Bench Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+67 m (25 Jan. 2023)) • Bench Excavation and Support of SCVAT #2 Gallery was in Progress (Current chainage 0+026 m (25 Jan. 2023) • The excavation and supporting works were suspended due to lack of ventilation system since January 2023. The bottom enlargement was in progress in March 2023 to secure additional space for ventilation system. GIS Room Access Tunnel • No activity in this month. • The excavation was commenced on 01 March 2020 and substantially completed in March 29, 2023 (113m in total 98.9% of the total length of 114.18 m) Exhaust Tunnel Excavation and supporting works of the vertical shaft were commenced on 26th October 2022 and completed on 15th February
5		69.3	64.2	52.8	8.9	5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel • Bench Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+67 m (25 Jan. 2023)) • Bench Excavation and Support of SCVAT #2 Gallery was in Progress (Current chainage 0+026 m (25 Jan. 2023) • The excavation and supporting works were suspended due to lack of ventilation system since January 2023. The bottom enlargement was in progress in March 2023 to secure additional space for ventilation system. GIS Room Access Tunnel • No activity in this month. • The excavation was commenced on 01 March 2020 and substantially completed in March 29, 2023 (113m in total 98.9% of the total length of 114.18 m) Exhaust Tunnel Excavation and supporting works of the vertical shaft were commenced on 26th October 2022 and completed on 15th February 2023.
5		69.3	64.2	52.8	8.9	 5090.50m3/37,337 (13.6%) till end of March, 2023. Preparatory Works Surge Chamber Vault Access Tunnel Bench Excavation and Support of SCVAT #1 Gallery was in progress (current chainage 0+67 m (25 Jan. 2023)) Bench Excavation and Support of SCVAT #2 Gallery was in Progress (Current chainage 0+026 m (25 Jan. 2023)) The excavation and supporting works were suspended due to lack of ventilation system since January 2023. The bottom enlargement was in progress in March 2023 to secure additional space for ventilation system. GIS Room Access Tunnel No activity in this month. The excavation was commenced on 01 March 2020 and substantially completed in March 29, 2023 (113m in total 98.9% of the total length of 114.18 m) Exhaust Tunnel Excavation and supporting works of the vertical shaft were commenced on 26th October 2022 and completed on 15th February 2023. Exhaust Vertical Shaft
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Dasu Hydropower Project Environmental Quarterly Progress Report No. 33 (Jan to March 2023)

						 Protection fence was in progress (Ditch Excavation) Surface Excavation at EL.1000m to EL980m,972m. Lower Pressure Tunnel (1) Penstock Adit Tunnel No.01 Excavation of the Lower pressure Tunnel #1 was Started 08 May 2022. The crown enlargement was No Activity due shift of all resources to other contract works (MW-01) (Current Chainage is 0+47m January 2023). (2) Penstock Adit Tunnel No.02 Lower pressure tunnel # 2 Invert Cleaning and 921m3 Plug Concrete poured in Jan. 2023. The activities were suspended due to shift of all resources to other contract works (steel arch installation) was resumed on 23 Mar.2023 Tailrace Tunnel (1) Upstream Audit Tunnel CT1 Excavation/Enlargement junction with transition/tailrace & CT1 was started on 21st Jan 2023 & enlargement of CT1 section at both junctions was completed on 13th Feb 2023. (2) Downstream Adit Tunnel CT2 Excavation was completed on 19th Feb 2023 and Support work was in progress.
						 (3) Tailrace Tunnel No.1 The excavation was commenced on 03-Feb-2023 from CT2 and 19-Feb-2023 from CT1 and excavation and support works were in progress. (4) Tailrace Tunnel No.2 The excavation was commenced on 15-Feb-2023 from CT1 and 21-Feb-2023 from CT2, and the excavation and support work were in progress. Switchyard EL.958m to EL.943m 4th Bench central Portion Excavation and mucking was in progress. Support work on 4th bench slope (El 950 to 940) of both left and based on the support work on the support work on the support work on the slope (El 950 to 940) of both left and the support work on the slope (El 950 to 940) of both left and the support work on the slope (El 950 to 940) of both left and the support work on the slope (El 950 to 940) of both left and the support work on the slope (El 950 to 940) of both left and the support work on the slope (El 950 to 940) of both left and the support work on the slope (El 950 to 940) of both left and the support work on the slope (El 950 to 940) of both left and the support work on the slope (El 950 to 940) of both left and the support work on the slope (El 950 to 940) of both left and the support work on the slope (El 950 to 940) of both left and the support work on the slope (El 950 to 940) of both left and the support work on the slope (El 950 to 940) of both left and the support work on the slope (El 950 to 940) of both left and the support work on the slope (El 950 to 940) of both left and the support work on the slope (El 950 to 940) of both left and the support work on the slope (El 950 to 940) of both left and the slope (El 950 to 940) of both left and the slope (El 950 to 940) of both left and the slope (El 950 to 940) of both left and the slope (El 950 to 940) of both left and the slope (El 950 to 940) of both left and the slope (El 950 to 940) of both left and the slope (El 950 to 940) of both left and the slope (El 950 to 940) of both left and the slope (El 950 to 940) of both left and the
			10.0	100.0	07.0	right side was in progress. • El.935 Drilling for Boulder Blast. • Removing Debris was in progress by daywork order.
	LBRV-11			100.0	97.0	No activity In this quarter
6	ICB No. DASU- LBRV-10(v)	47.2 2	206.8	90.0	87.0	-Parapet wall construction is in progress. -Access road work is in progress. -Water supply line work is in progress
7	ICB No. DASU- LBRV-12	51.2 2	228.3	100.0	98.0	No activity In this quarter
8	ICB No. DASU- PCI-01R		253.3		61.2	 The major construction activities undertaken during this month were: Door fixing at Residence Cat -2B is in progress. Boundary wall masonry and plastering at residence Cat -2, Cat -2A, 2B, 2C & 2D in progress. Ppr and plumbing work in bath rooms at residence cat-2B, 2C and 2D in progress. Electrician work at 2B and 2C in progress. Ramp construction towards the car porch at residence Cat -2 and 2A in progress. Painting at residence Cat 2 and 2A in progress. Bathroom fixtures fixing at residence Cat -2B & 2 C in progress. Installation of windows aluminum at Residence Cat 2,2B and 2c in progress. Laying of Base course for Secondary roads s1, s2 and s3 in progress. Car porch concreting at residence Cat 3 and Cat 4 in progress. Plastering at residence cat -3 and residence cat 4 in progress. Conduction of pressure tests of water supply pipes in progress. Septic tank type a construction in progress. Septic tank type a construction in progress. Construction of storm drain along P1 road in progress. Stone masonry of breast wall in progress along P1 road.
-	ICB NO. DASU- RV(Vi)	40.0 2		00.0	υ2.0	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 • Block masonry at Mosque is in progress. • Stone masonry for breast wall in progress.

P Schem maschry retaining wall in progress. 4 (Choochang Site 2.4.3) 4 (Choochang Site 2.4.3) No activity 6 (Shatial Rock Carving Site 9 (CB No. DASU- EM-01 84.4 96.4 16.4 7.1 9 (CB No. DASU- EM-01 84.4 96.4 16.4 7.1 Construction Activities - Fracing Wall Concrete Columns from points P2 to P3 is in progress. 9 (CB No. DASU- EM-01 84.4 96.4 16.4 7.1 Construction Activities - Excavation of Terrace No.15 and Terrace No.16 was in Progress. - Excavation of Terrace No.15 and Terrace No.16 was in progress. - Block masonry/Plinth Beam (RCC) Was in progress. - Block masonry/Plinth Beam (RCC) Was in progress. - Block masonry/Plinth Beam (RCC) Was in progress. - Compaction of Terrace No 6, and 15 in Progress. - Store Masonry of Terrace No 6, and 15 in Progress. - Store Masonry of Terrace No 6, and 15 in Progress. - Store Masonry Compress. - Store Masonry Compress. - Compaction of retrace No 6, and 15 in Progress. - Store Masonry Compress. - Store							
 4) Choochang Site 2.8 3 No activity (5) Shatial Rock Carving Site (6) No Site 2.9 3 (7) Nork 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 PD 3 is in progress. (7) For data 25m along there are a summarian and the summary of activities: Fencing Wall (7) Excervation (7) Excervation: Fixaa and the summarian an							(3) Kuz Choochang Site Upper & Lower Portions
P CB No. DASU- Solver Total Concrete Structure Notice State St							
9 CB No. DASU- 30. 56.4 16.4 7.1 Fending Wall Concrete Columns from Points P2. De P3 is in progress. Installation of CI Post dia 75mm along river side is completed. Store pitching of parking area is in progress. Super structure work above pinith beam for staff residence building in progress. 9 CB No. DASU- EM-01 56.4 16.4 7.1 Construction Activities (1) Excavation: Progress. Construction Activities (1) Excavation of Terrace No. 16 was in Progress. Progress. 9 CB No. DASU- EM-01 56.4 16.4 7.1 Construction Activities (1) Excavation of Terrace No. 16 was in Progress. Progress. Progress. 9 CB No. DASU- EM-01 56.4 16.4 7.1 Construction Activities (1) Excavation of Terrace No. 16 was in Progress. Progress							
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9 CB No. DASU- BM-01 34.4 56.4 16.4 7.1 Construction Activities Super structure work above pinith beam for staff residence building in progress. 9 CB No. DASU- EM-01 34.4 56.4 16.4 7.1 Construction Activities (1) Excavation of Terrace No. 15 and Terrace No. 16 was in Progress. Excavation from CP14 to CP15 in Progress Elock masonry/Plinth Beam (RCC) CP6 io CP15 in Progress. Elock masonry/Plinth Beam (RCC) Vas in progress. Elock masonry/Plinth Beam (RCC) Vas in progress. Compaction of Terrace No 6, and 15 in Progress. Elock masonry/Plinth Beam (RCC) vas in progress. Elock masonry of Terrace No 6, and 15 in Progress. Elock Masonry Compated. Nil Compacts ape EngineerWapda Instruction: yet to be done. Elock Masonry Concrete 31 Conconcrete 31 Concrete 31 Concrete 31 Concrete 31 Concrete							
9 CB No. DASU- 54.4 56.4 16.4 7.1 Construction Activities (1) Excavation is in progress. Super structure work above plinth beam for staff residence building in progress (2) Boundary Walt: EM-01 9 CB No. DASU- EM-01 56.4 16.4 7.1 Construction Activities (1) Excavation: Excavation form CP14 to CP15 in Progress Block masonry/Plinth Beam (RCC) Ves1 in Progress. Elack masonry/Plinth Beam (RCC) was in progress. CB Not AmonyPlinth Beam (RCC) was in progress. CB Not Mason Contret and Contret Structure was completed. Foundation Concrete and Contrete Structure was completed. Foundation Concrete and Concrete Structure was completed. Foundation activities undertaken during this month were: Excavation activities undertaken during this month were: Excavation activities undertaken during this month were: Charges as per EngineerWayada Instruction; yet to be done. GI Under Construction Building Pad42 man and Fill Quantities are 58,176 10 CB No. DASU- RAR-02 94.4 98.5 1.7							•
9 CB No. DASU- EM-01 94.4 56.4 16.4 7.1 Constructure work above plinth beam for staff residence building in progress 9 CB No. DASU- EM-01 94.4 56.4 16.4 7.1 Construction Activities (1) Excavation: Excavation of Terrace No. 15 and Terrace No. 16 was in Progress. Elock masony/ Plinth Beam (RCC) CP15 in Progress Lean concrete from CP14 to CP15 in Progress. Elock masony/ Plinth Beam (RCC) CP5 to CP15 in Progress. Elock masony/ Plinth Beam (RCC) CP5 to CP15 in Progress. Elock masony/ Plinth Beam (RCC) as in progress. State Masony of Terrace No 6, and 15 in Progress. Elock masony Plinth Beam (RCC) as in progress. State Masony of Terrace No 6, and 15 in Progress. Elock masony of Terrace No 6, and 15 in Progress. Elock masony of Terrace No 6, and 15 in Progress. Elock Masony of Cornece No 6, and 15 in Progress. Elock Masony of Cornece No 6, and 15 in Progress. Elock Masony of Cornece No 6, and 15 in Progress. Elock Masony of Cornece No 6, and 15 in Progress. Elock Masony of Cornece No 6, and 15 in Progress. Elock Masony of Cornece No 6, and 15 in Progress. Elock Masony of Cornece No 6, and 15 in Progress. Elock Masony of Cornece No 6, and 15 in Progress. Elock Masony of Cornece No 6, and 15 in Progress. Elock Masony of Cornece No 6, and 15 in Progress. Elock Masony of Cornece No 6, and 15 in Progress. Elock Masony of Cornece No 6, and 15 in Progress. Elock Masony of Cornece No 6, and 15 in Progress. Elock Masony of Cornece No 6, and 15 in Progress. Elock Masony of Cornece No 6, and 15 in Progress. Elock Masony of Cornece No 6, and 15 in Progress. Elock Masony of Cornece No 6, and 15 in Progress. Elock Masony of Cornece No 6, and 15 in Progress. Elock Masony of Cornece No 6, and 15 in Progress. Elock Masony Orneploted No 10, and 10 in Progress. Elock Masony Orne							
9 ICB No. DASU- EM-01 34.4 56.4 16.4 7.1 Construction Activities (1) Excavation: EXcavation of Terrace No 15 and Terrace No. 16 was in Progress. 2) Boundary Walt: Excavation for MCP14 to CP15 in Progress Hear Concrete from CP14 to CP15 in Progress. Block masonry/Piinth Beam (RCC) Cyes to CP15 in Progress. Block masonry/Piinth Beam (RCC) Cyes to CP15 in Progress. 3) Retaining Walts/Stone Masonry Compaction of Terrace No 6, and 15 in Progress. Hear Concrete from CP14 to CP15 in Progress. Compaction of Terrace No 6, and 15 in Progress. Stone Masonry of Terrace No 6, and 15 in Progress. Compaction of the Compactive Structure was completed. Foundation Concrete and Concrete Structure was completed. Foundation Concrete and Concrete Structure was completed. Foundation Concrete Construction adultangs in March, 2023. Security Building Residency Building Residency Building RAR-02 10 ICB No. DASU- RAR-02 94.4 98.5 1.7 The major construction adulties are 88176 The major construction adulties and basing work contructor is adving the month were: Excavation and blasting work contructor is planning to start Kandia working face in the Contractor in working on four working faces in kandia, X34400, K34+450 & X36+410. * Work							
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(both sides) due to SMR package.							
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• Elapsed time of each contract/package is from commencement until the end of the reporting period.

Scheduled progress of KKH-01 is based on EOT-02. The Contractor is preparing revised schedule (EOT-03) for re-alignment (new tunnels & bridges)

• The contractor is preparing revised schedule (EOT-4 for the remaining works of RAR-01 including VO of Komila bypass

• The revised schedule of TL-01 (EOT-4) is under preparation with the contractor

• Revised schedules (EOT-02) of LBRV-10&12 is based on change in scope of non-handover sites is under process.

• Revised schedule (EOT-1) of Dasu -RV based on change in scope is under progress.

1.6 Environmental Staffing of PMU and DHC

The staff in the environmental unit of PMU and DHC are given in Table 1.4. The OHS staff of DHC are not included in this table.

Sr. No.	Position	Staff Status
Α	PMU	
1	Director	Vacant
2	Deputy Director	Imran Tariq
3	Assistant Director Environment	Vacant
4	Deputy Director Ecology	Farhat Ali Khan
5	Assistant Director Ecology	Liaqat Ali
6	Supervisor Ecology	Vacant
7	Supervisor Env &OHS	Junaid
8	Supervisor Env &OHS	Arslan
В	DHC	
1	Chief Environmentalist	Zafar Iqbal Chaudhry
2	Sr. Environmentalist	Sardar Alam
3	Sr. Environmentalist	Awais Hassan
	Sr. Environmentalist	Ahsan Akhlaq
4	Jr. Environmentalist	Vacant
5	Supervisor	Nasir Khan
6	Supervisor	Hidayatullah
7	Supervisor	Mehmood Khan
8	Environmental Advisor	Venkata Nukala

Table 1.4:Environmental Staff of PMU and DHC

1.7 Structure of this Report

This report is divided into various chapters, and the contents of each chapter are briefly given in Table 1.5.

Chapter No.	Chapter Name	Contents of the Chapter
Chapter 1	Introduction	Introduction to the Project, description of project works and status of
		implementation
Chapter 2	Main Works Contracts	Progress of implementing MW-01 and MW-2 contracts, environmental inspections
		and monitoring conducted, and key environmental issues and non-compliances noticed
		during implementation.
Chapter 3	KKH-01 Contract	Progress of implementing the KKH-01 contract, environmental inspections and
		Monitoring conducted, and key environmental issues and non-compliances noticed during
		implementation.
Chapter 4	RAR-01 Contract	Progress of implementing the RAR-01 contract, environmental inspections and
		Monitoring conducted, and key environmental issues and non-compliances noticed during
		implementation.
Chapter 5	TL-01 (132 KV	Progress of implementing 132 KV Transmission Line contract, environmental
	Transmission Line	Inspections and monitoring conducted, and key environmental issues and non-
	Contract)	compliances noticed during implementation.
Chapter 6	PCI-01R Contract	Progress of implementing PCI-01R contract, environmental inspections and monitoring
		conducted, and key environmental issues and non-compliances noticed
	D L D L D	During implementation.
Chapter 7	RAR-02	Progress of implementing other contracts (RAR-02), environmental inspections
		And monitoring carried out, and key environmental issues and non-compliances noticed
Ob a stars 0	KKU 1 00	during implementation.
Chapter 8	KKH-02	Progress of implementing other contracts (KKH-02), environmental inspections
		And monitoring carried out, and key environmental issues and non-compliances noticed
Chapter 9	EM-01	during implementation. EM-01 status Progress in implementing the RAR-01 contract, environmental inspections and
Chapter 9	EIVI-01	Monitoring conducted, and key environmental issues and non-compliances noticed during
		implementation.
Chapter 10	Other Environmental	Status of solid waste disposal site, WB Mission other important Meetings
Chapter 10	Aspects	Status of solid waste disposal site, with mission other important meetings
Annexure A		Minutes of Environmental progress review meetings during the quarter
Annexure B		Results of monthly Environmental Spot monitoring
Annexure C		Photolog

Table 1.5:	Structure of this Report
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2 Main Works Contracts (MW-01 & MW-02)

2.1 Overview of Contracts

A brief overview of the MW-01 and MW-02 contracts is given in Table 2.1. The MW-01 contract works are related to the dam construction, and MW-02 works are related to the powerhouse construction. CGGC is the Contractor for both MW-01 and MW-02 contracts.

Sr. No.	Item	MW-01	MW-02
1	Contract Number	ICB No. Dasu-MW-01	ICB No. Dasu-MW-02
2		Main Hydraulic Structure, Spill Way, Low-Level Outlets, River Diversions and Hydraulic Steel Structures	Underground Power Complex, Tunnels and Hydraulic Steel Structures
3		China Gezhouba Group Co. Ltd (CGGC)	CGGC
4	Commencement Date	June 23, 2017	June 23, 2017
5	Original Contract Completion Date	Jan 22, 2023	Feb 21, 2023

Table 2.1:	Overview of MW-01 and MW-02 Contracts
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2.2 Contractor Environmental Action Plan

The Contractor has submitted the Contractor Environmental Action Plan (CEAP) with the sitespecific management plans to address the environmental impacts and risks of the construction activities. In addition, the Contractor has also prepared an Occupational Health and Safety Management Plan (OHSMP), and details of these plans are not covered in this report. The CEAP consists of 17 site-specific management plans. All these plans were approved by the Engineer except the plans on waste management and construction camp, which were conditionally approved. Contractor has been instructed to submit the remaining plans.

2.3 Contractor's Facilities and ESHS Staff

The facilities established by the Contractor, such as workers' camps and construction yards, are given in Table 2.2. The Environmental Social Health and Safety (ESHS) Staff of the Contractor are given in Table 2.3.

Sr. No.	Facility	Location	Details	Remarks
Α.	Worker's Camps			
1	Chinese Workers Camp(MW-01)	Barseen, Kass	Jan# 210, Feb# 246, March# 227	
2	Chinese Workers Camp(MW-02)	Barseen, Kass	Jan# 257, Feb# 229, March# 220	
3	Pakistan Workers Camps(MW-01)	Barseen, Uchar	Jan# 1581, Feb#1486 , March# 1465	
4.	Pakistan Workers Camps(MW-02)	Barseen Uchar	Jan# 1313, Feb# 1647, March# 1931	
В.	Crushing/Batching Plants			
1	Crushing Plant	Uchar	A small plant with 120 tons/hr capacity	
2	Crushing plant	Uchar Thoki	250 tons/hr	Under construction
3	Batching plant	Uchar	60 m ³ /hr capacity	
4	Batching plant	Khoshe	240 m ³ /hr capacity	
5	Pozzolan Plant	Chilas	-Construction of Chillas Pozzolan milling plant- 87% completed -Equipment Installation of Chillas pozzolan milling plant- 70% completed	

Table 2.2: Contractor's Facilities

Sr. No.	Position	MW-01 Contract	MW-02 Contract	Remarks
1	Director EHS	Sun Kang	Sun Kang	
2	Environmental Officer	Vacant		The contractor has been instructed to fill the vacant positions for each contract
3	Environment supervisor	Rahmat		The contractor has been instructed to fill the vacant positions for each contract

2.4 Construction Activities

Details of construction activities conducted during the reporting period are shown in Table 2.4 and Table 2.5 for MW-01 and MW-02 Works, respectively.

Sr. No.	Work Site	Details of Works	Remarks					
1	Diversion Tunnel A	Inlet structure Works Outside	98.57% Completed					
	Diversion Tunnel A	Inlet Lining Works (Inside)	100% Completed					
2	Diversion Tunnel B	Inlet structure Works Outside	100% Completed					
	Diversion Tunnel B	Inlet Lining Works (Inside)	100% Completed					
3	Adit Tunnels(3-2)	Excavation works	100% Completed					
5	Left bank traffic diversion Tunnel	Excavation works	85% Completed					
6	Chilas Pozzolan Plant	Equipment Installation	70%Completed					
	Main Dam							
		Temp Road(U/S &D/S)	70% & 79 %					
7	Right Bank Abutment	Excavation & Support RB Cable Crane PF	72% &75% (1065-1050 El)					
			10%(1050-1035 El)					
8	Left Bank Abutment	Excavation of the second layer of CR5-2	100%					
9	U/S Starter Dam	Concreting	9.4%					
10	Cutt Off Wall	Drilling	46%					
		Concreting	30%					

Table 2.4;	Construction A	Activities in	MW-01	Contract
	0011011 4011011 /			001101000

Table 2.5:	Construction Activities in MW-02 Contract

Sr.	Work Site	Details of	Remarks
No.		Works	
1	Surge Chamber VAT	Excavation	97.7% completed
2	STA	Excavation	99.5 % completed
3	GIS Room access tunnel	Excavation	98.9% completed
4	Underground powerhouse Crown portion	Excavation	17.34% completed
5	Underground Transformer cavern Crown portion	Excavation	23.5% completed
6	Drain tunnel	Excavation	97.36% completed
7	Penstock Adit tunnel No.1	Excavation	100 % completed
7	Chilas Pozzolan Plant	Equipment	Same plant will be used for
		Installation	both contracts

2.5 Construction Supervision and Environmental Compliances

2.5.1 Site Inspections and WTEIRs

Site visits to the construction areas are conducted daily by the environmental staff to supervise environmental compliance of the construction activities. Daily monitoring checklists are filled after the observations are noted at site. In addition, Joint Inspections with WAPDA on every Tuesday of the week for one or two contracts of DHPP, Schedule starting from 14th of Feb 2023, walkthrough environmental inspections have also been conducted weekly at all work sites regularly by the senior environmental staff of DHC and PMU to identify any environmental issues and noncompliance. The issues identified at the construction sites are communicated with the Contractor through Walk-Through Environmental Inspection Reports (WTEIRs). The Contractor has also been instructed to address these issues within a suggested timeframe. The Contractor has resolved the non-compliances and submitted rectification reports. The WTEIRs, consisting of both non-compliances and rectifications, are given in the following tables.

 Table 2.6:
 Walk-Through Environmental Inspection Report 68

Report No. E-68

Date of Issuance: 03-01-2023

Sr. No	Date and Location of Inspection	EHS observation s	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
68.1	03-01-2023 Switch yard labor camp (MWs-02)	Littering		The contractor is instructed to keep waste bins on side and collect solid waste and dispose of properly according to ECPs.	immediate		

68.2	03-01-2023 CR9 generator room + work shop (MW- 02)	Oil spill	Contactors is instructed to remove the spill replace the spill by fresh soil and sand. After that dispose off the toxicity soil as per ECPs and SOPs.	Immediate	
68.3	03-01-2023 CT-2 kitchen. (MW-02)	Fuel wood.	The contractor is instructed to provide LPG for workers and reduce the dependency on local forest as soon as possible.	Reminder	

68.4	03-01-2023 MAT sedimentatio n pound + CT-02 sedimentatio n pound. (MW-02)	Untreated water.	<image/>	The contractor is instructed to keep always open fresh water in sedimentation pound and stop over flow water from the first chamber.	immediate	
68.5	03-01-2023 CT-02 (MWs-02)	Animals		The contractor is instructed to remove animals from construction site.	immediate	

(*Note: The contractor did the rectifications and sent the rectifications in the Whatsapp Group; Verification for which was done by DHC Field Staff on the next day of Pictures being shared in the Whats App Group)

Table 2.7:	Walk-Through Environmental Inspection Report 69

Report No. E-69

Date of Issuance: 06-01-2023

Sr. No	Date and Location of Inspection	EHS observation s	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
69.1	06-01-2023 Near A1 tunnel (MW- 01)	Littering		The contractor is instructed to keep waste bins on side and collect solid waste and dispose of properly according to ECPs.	immediate		

	r					,
69.2	06-01-2023	Oil spill		Contactors is	Immediate	
	Baching			instructed to remove		
	plant CR2 +			the spill replace the		
	HT office			spill by fresh soil and		
	(MW-01)			sand.		
				After that dispose off		
				the toxicity soil as per ECPs and SOPs.		
				ECPs and SOPs.		
			- ANTAL - AND AND "			
			the second s			
			The second s			
69.3	06-01-2023	Animals		The contractor is	immediate	
	Old crushing			instructed to remove		
	plant uchar			animals from construction site.		
	(MW-01)			construction site.		

(*Note: The contractor did the rectifications and sent the rectifications in the Whatsapp Group; Verification for which was done by DHC Field Staff on the next day of Pictures being shared in the Whats App Group)

Table 2.8: Walk-Through Environmental Inspection Report 70

Report No. E-70

Date of Issuance: 19-01-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timelin e	Action Taken by the Contractor	Completion Date
70.1	17-01-23 CT-02 labor camp.	Solid waste	Jan 17, 2023 9:21:22 AM 235: S10 Intex number: 4651	Contactor is instructed to place the waste bins at the site. collect the solid waste from different place and put them to the bins at the site Dump the waste in to proper dumping site approved by engineers.	immedi ately		

70.2	17-01-23 CT-02 tunnel portal	Oil spillage	Transformer and the second sec	The contractor is instructed to remove the oil spill from the site by replacing fresh soil. Follow SOPs and ECPs.	immedi ate	
70.3	17-01-23 CT-02 labor camp	Unhygienic condition	Jan 17, 2023 9:22:40 AM 113* SE Index number: 4664	The contractor is instructed to maintain the hygienic condition in kitchen and also discard the kitchen waste into proper waste bins. Place a waste bins in the kitchen	immedi ate	

70.4	17-01-23 CT-02 labor camp	Improper workers accommodatio n	Jan 17, 2023 9:24:40 AM 160°S Index number: 4666	The contractor is instructed to follow the living condition in rooms as per instruction in CEAPS and IFC guidelines.	immedi ate	
70.5	17-01-23 CT-02 labor camp	poor welfare facilities	Jan 17, 2023 9-28, 41 AM Index number: 4073	Contactor is instructed to provide welfare facilities in toilets and washrooms and also provide hot water facility to the work force. Follow SOPs and ECPs.	immedi ate	

70.6	17-01-23 CT-02 labor camp	Fuel wood.	Jan 17, 2028 9:29:39 AM 11° N Index number: 4574	Contactor is instructed to provide LPG gas for cooking purposes Use of fuel wood is strictly prohibited.	immedi ate	
70.7	17-01-23 Labor camp barseen.	Poor sanitation		The contractor is instructed to provide proper sanitation facilities to the work force Follow SOPs and ECPs.	immedi ate	

70.8	17-01-23 Management camp barseen.	Unhygienic condition	The contractor is instructed to maintain the hygienic condition in kitchen and also discard the kitchen waste into proper waste bins. Place a waste bins in the kitchen	immedi ate	
70.9	17-01-23 Management camp barseen	Improper workers accommodatio n	The contractor is instructed to follow the living condition in rooms as per instruction in CEAPS and IFC guidelines.	immedi ate	

70.1	17-01-23 Management camp barseen. And labor camp barseen	poor welfare facilities	Contactor is instructed to provide welfare facilities in toilets and washrooms and also provide hot water facility to the work force. Follow SOPs and ECPs.	immedi ate	
70.1	17-01-23 Management camp barseen. And labor camp barseen	Fuel wood	Contactor is instructed to provide LPG gas for cooking purposes Use of fuel wood is strictly prohibited.	immedi ate	

Note: The compliance was undertaken by the CGGC Contractor and reported in the Whatsapp group which was duely verified by DHC and WAPDA 2-3 days after the compliance by CGGC. Also it was noted that that there was no common room/ dinning hall for the Pakistani staff/labor

Table 2.9: Walk-Through Environmental Inspection Report 71

Report No. E-71

Date of Issuance: 19-01-2023-

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
71.1	18-01-23 CR-02 near Adit -1 tunnel	Inadequate housekeeping	Dan.18, 2023 10:25:01 AM Index number: 4779	The contractor is instructed to keep and maintain good housekeeping at the site as per ECPs and SOPs.	immediate		

71.2	18-01-23 CR-02 In front of CR- 02 mosque.	Open burning	Dan 18, 2023 10:48:16 AK 169 Index number: 4789	The contractor is instructed to stop This practice immediate. Open burning strictly prohibited. Follow CEAPs and ECPs. Educate and conduct TBT training in every morning to the work force regarding any non-compliances.	immediate	
71.3	18-01-23 CR-02 workshop.	Workshop waste (grease etc.)	Jan 18, 2023 10:52: Die Ant 22:63 - 92 Index index index index index	The contractor is instructed to Place separate waste bin for workshop waste i- e grease etc.		

71.4 18-01-23 Near batching plant CR-02	Solid waste		Contactor is instructed to collect the solid waste.litteing from scattered place and also place	
		Jan to 102 for an Index number: 4784	waste bins there. Follow SOPs and ECPs.	

Note: The compliance was undertaken by the CGGC Contractor and reported in the Whatsapp group which was duely verified by DHC and WAPDA 2-3 days after the compliance by CGGC. Also it was noted that there was no common room/ dinning hall for the Pakistani staff/labor

Table 2.10: Walk-Through Environmental Inspection Report 72

Report No. E-72

Date of Issuance: 20-01-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
72.1	20-01-2023 traffic diversion tunnel (MW- 01)	Inadequate housekeeping		The contractor is instructed to keep and maintain good housekeeping at the site as per ECPs and SOPs.	immediate		
72.2	20-01-2023 HT office slope CR2 (MW-01)	Improper waste mgt		Contactor is instructed to collect the solid waste.litteing from scattered place and also place waste bins there. Follow SOPs and ECPs.	immediate		

72.3	20-01-2023 coffer dam (MW-01)	Heavy dust during drilling	The contractor is instructed to ensure maintenance of equipment and ensure wet drilling at construction site as soon as possible	Immediate	
72.4	20-01-2023 uchar old crushing plant	Poor maintenance of sedimentation tank	The contractor is instructed to remove the sludge immediately and dispose it to designated disposal site.	Immediate	

72.5	20-01-2023 thoki crushing plant Uchaar(MW- 01)		<image/>	The contractor is instructed to provide dinning place/container with availability of safe drinking water.	Immediate	
72.6	20-01-2023 Thoki crushing plant Uchaar(MW- 01)	Oil spill		The contractor is instructed to remove oil spill by replacing contaminated soil with fresh soil and dispose off properly according to ECPs	Immediate	

72.7 20-01-2023 uchar old crushing plant (MW-01) Pet Animals cage	The contractor is instructed to remove animals from construction site.it is strictly prohibited
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Note: The compliance was undertaken by the CGGC Contractor and reported in the Whatsapp group which was duely verified by DHC and WAPDA 2-3 days after the compliance by CGGC. Also it was noted that that there was no common room/ dinning hall for the Pakistani staff/labor

Table 2.11: Walk-Through Environmental Inspection Report 73

Report No. E-73

Date of Issuance: 22-01-2023

Sr. No	Date and Location of Inspection	Environment Observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
73.1	21-01-2023 CT- 02 main gate	Littering on the Slope above Indus River.		The contractor is instructed to keep waste bins on site and collect solid waste from the slopes and dispose of properly according to ECPs.	Immediate		

73.2	21-01-2023 power house + switch yard	Oil spill	<image/>	Contactors is instructed to remove the oil spill and replace the contaminated soil by fresh soil and sand. Dispose off the contaminated soil as per ECPs and SOPs.	Immediate	

73.3	21-01-2023		and the second s	The contractor is	Immediate	
10.0	Underground		A CONTRACTOR	instructed to	innealato	
	power house	No drinking		provide clean		
		water		drinking water for		
			A STATE OF THE OWNER	underground		
				working Staff		
			and the first state and the second state of th			
			the second second			
			21-Jan-2023, 10:01			
					1	

73.4	21-01-2023 power house + starter dam Siglo	Empty chemical and fuel drums	The contractor is instructed to remove empty drums and admixture chemical tanks from the site to avoid any environmental incident at site. Transport the empty drum/ chemical tank to designated Storage site having concrete foundation and proper boundary.	Immediate		
73.5	21-01-2023 starter dam	Improper dispose of sludge	The contractor is instructed to dispose off sludge away from river bank ensure disposal at designated dumping site rather than releasing it in the flowing Indus River.	Immediate		

73.6	21-01-2023	Substandard	During comp	Immediate	
/3.0	switch yard labor camp	Substandard accommodatio n	During camp inspection it was observed that there are total of 21 rooms and in one room 6 and 9 workers are living	mmediate	
			The contactor is instructed to provide ILO standard accommodation for workers:		
			a) separate bed for each worker;		
			b) adequate headroom, providing full		
			and free movement, of not less than		
			203 centimetres;		
			c) the minimum inside dimensions of a		
			sleeping space should be at least 198		
			centimetres by 80 centimetres;		
			d) beds should not be arranged in tiers of		
			more than two;		
			e) bedding materials should be reasonably		
			comfortable;		
			f) bedding and		

	I			 1
			bedframe	
			materials	
			should be	
			designed to deter	
			vermin;	
			g) separate	
			accommodation of	
			the sexes;	
			h) adequate	
			natural light during	
			the daytime	
			and adequate	
			artificial light;	
			i) a reading lamp	
			for each bed;	
			j) adequate	
			ventilation to	
			ensure sufficient	
			movement of air in	
			all conditions	
			of weather and	
			climate;	
			k) heating where	
			appropriate;	
			I) adequate supply	
			of safe potable	
			water;	
L	I	1		

		-				
73.7	21-01-2023 switch yard labor camp	Fuel wood	<image/>	The contractor is instructed to provide LPG for cooking and heating purposes. Use of Wood as fuel is strictly prohibited as per WB approved ESA, WB guidelines and ECP's.	Immediate	

switch yard sewerage system system instructed to connect the sewage water pipe	 _				1	
to septic tank with immediate effect.		connect the	<image/>	Improper sewerage system	21-01-2023 switch yard labor camp	73.8

Note: The compliance was undertaken by the CGGC Contractor and reported in the Whatsapp group which was duely verified by DHC and WAPDA 2-3 days after the compliance by CGGC. Also it was noted that that there was no common room/ dinning hall for the Pakistani staff/labor

Table 2.12: Walk-Through Environmental Inspection Report 74

Report No. E-74

Date of Issuance: 27-01-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completio n Date
74.1	27-01-2023 DTA outlet office (MWs- 01)	Littering		The contractor is instructed to keep waste bins on side and collect solid waste and dispose of properly according to ECPs.	immediate		31-01- 2023
74.2	27-01-2023 DTA outlet office (MWs- 01)	Oil spill		Contactors is instructed to remove the spill replace the spill by fresh soil and sand. After that dispose off the toxicity soil as per ECPs and SOPs.	Immediate		31-01- 2023

74.3	27-01-2023 DTB outlet (MWs-01)	Inadequate housekeeping	The contractor is instructed to keep and maintain good housekeeping at the site as per ECPs and SOPs.	Immediate	31-01- 2023
74.4	27-01-2023 DTA outlet + near A1 sedimentation pound (MWs- 01)	Empty fuel drums.	The contractor is instructed to remove empty drums from the site to designated site	Immediate	

74.5	27-01-2023 near A1 sedimentation pound (MWs- 01)	Open burning		The contractor is instructed to stop This practice immediate. Open burning is strictly prohibited. Follow CEAPs and ECPs. Educate and conduct TBT training in every morning to the work force regarding any environmental non-compliances.	Immediate		
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Table 2.13: Walk-Through Environmental Inspection Report 75

Report No. E-75

Date of Issuance: 28-01-2023

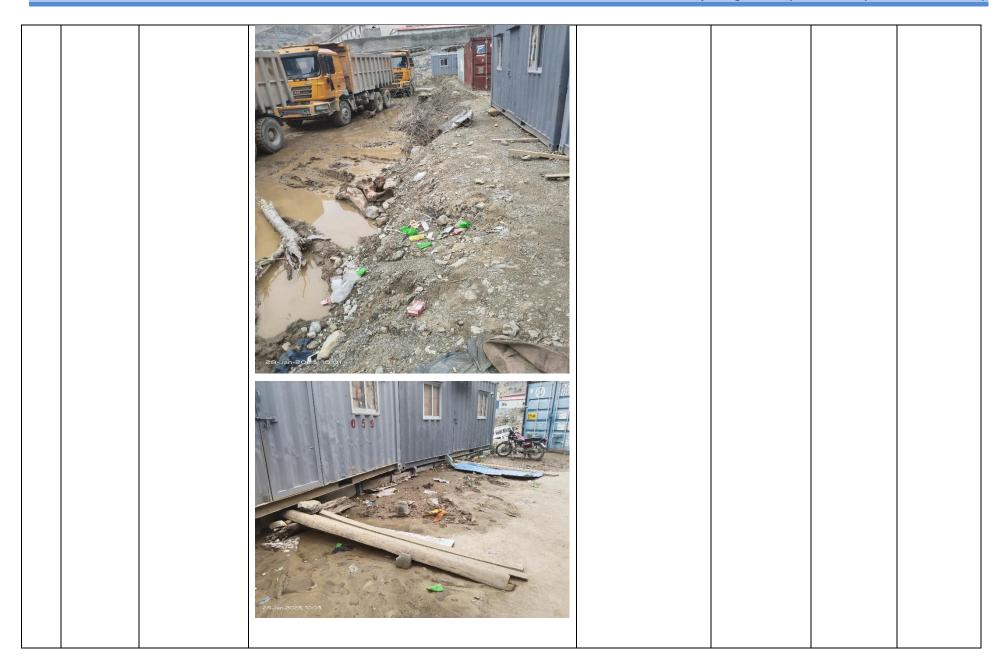
Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
75.1	28-01-2023 Switchyard Labor camps (CT-3)	Chemical Tanks		Chemical Tanks are in use for Drinking water, Cooking etc. It is strictly instructed the contractor to remove the chemical tanks from camps and provide safe tanks ASAP.	Immediate		

*Note: The Contractor rectified some of the issues highlighted in this WTEIR but some were not addressed till April 2023 like use of fire wood. The sub contractor whose responsible for food of the labor was not complying to the WB policies. Other were rectified and reported through Whatsapp Group(Verified by DHC Field Staff)

75.2	28-01-2023	Inadequate		It is instructed the contractor keep	Immediate	
	Switch yard Labor camps (CT-3)	housekeeping	27 Jan 2028, 1/27	contractor keep maintain good housekeeping at all sites. Clean and clear all the sites ASAP.		







75.3	28-01-2023 Switch yard Labor camps (CT-3)	Fuel wood		Fuel wood are used for cooking Purpose at both camps. It is instructed the contractor to provide LPG Gas ASAP.	Immediate	
			P7-Jan-2023, 1126			



75.4	28-01-2023 Switch yard Labor camps (CT-2)	maacquate	Instructed the contractor to maintain good kitchen at all camps.	Immediate	

Table 2.14:Walk-Through Environmental Inspection Report 76

Report No. E-76

Date of Issuance: 28-01-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
76.1	28-01-2023 CR-02 HT office (MWs- 01)	Littering	<image/>	The contractor is instructed to keep waste bins on side and collect solid waste and dispose of properly according to ECPs.	immediate		

		<u></u>				,
76.2	28-01-2023	Oil spill		Contactors is	Immediate	
	CR-02 HT office (MWs-			instructed to remove the spill		
	01)			replace the spill by		
	01)			fresh soil and		
				sand.		
			Alternation and the second			
				After that dispose		
				off the toxicity soil as per ECPs and SOPs.		
				SOPS		
				001 3.		
			to the second second			
			A A A A A A A A A A A A A A A A A A A			
			A THE STORE OF THE			
			A CALLER A			
			A A A A A A A A A A A A A A A A A A A			
76.3	28-01-2023	Heavy dust		The contractor is	Immediate	
70.3	DTB outlet	neavy dust		instructed to	Inneulate	
	(MWs-01)			ensure wet drilling		
	(11110 01)			inside the tunnel		
				and reduce dust		
				emissions		

76.4	28-01-2023 CR-02 toilets (MWs-01)	Poor hygienic condition	The contractor is instructed to past a daily cleaning checklist and ensure cleaning on daily basis and disinfect the toilets at least once a week.	Immediate	
76.5	28-01-2023 CR-02 workshop (MWs-01)	Water sprinkling over oil spill	It was observed many time at CR- 02 workshop workers are sprinkling water on oil spill. the contractor is instructed educate the workers and remove oil spill according to ECPs	Immediate	

*Note: The Contractor rectified some of the issues highlighted in this WTEIR but some were not addressed till April 2023 like use of fire wood. The sub contractor whose responsible for food of the labor was not complying to the WB policies. Other were rectified and reported through Whatsapp Group(Verified by DHC Field Staff)

Table 2.15: Walk-Through Environmental Inspection Report 77

Report No. E-77

Date of Issuance: 30-01-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
77.1	30-01-2023 CR-02 workshop slope	Discarded food waste	Jan 30, 2023 10:05:42 AM 21 Market 1994	The contractor is instructed to keep waste bins on side and collect solid waste and dispose of properly according to ECPs.	immediate		1-02-2023

77.2	30-01-2023 CR-02 workshop slope	Oil spill	Jan 30, 2023 10:11:38 AM 272 M 10:10 M	Contactors is instructed to remove the spill replace the spill by fresh soil and sand. After that dispose off the toxicity soil as per ECPs and SOPs.	Immediate	1-02-2023
			Index number: 4847			

Dasu Hydropower Project Environmental Quarterly Progress Report No. 33 (Jan to March 2023)

			1	1		
77.3	30-01-2023 CR-02 workshop slope	Discarded fruit waste	And Proto 1202 de dad	The contractor is instructed to keep separate organic and organic waste, bins on site. Collect waste and dispose of properly according to ECPs.	Immediate	01-02-2023
	Near fuel storage area CR-02	solid waste	terrer de la constante references de la constant			
	At CR-02 main gate entrance	Littering	Jan 30-20 3 10 1 5 5 5 AM Inde number: 4853			

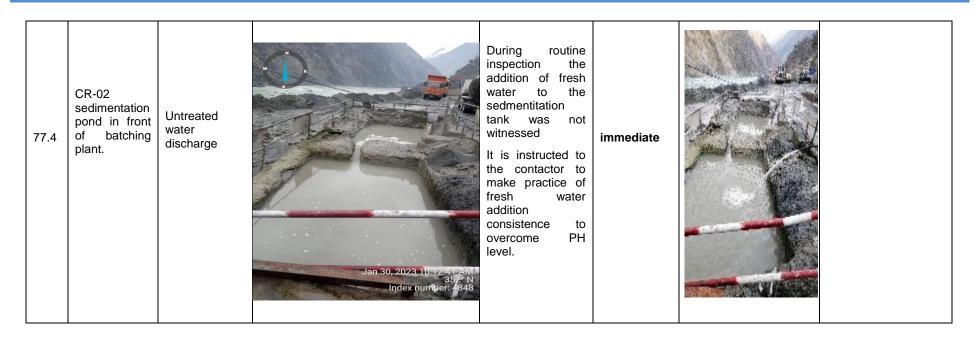


Table 2.16:	Walk-Through Environmental Inspection Report 78
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Date of Issuance: 16-02-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
78.1	15-02-2023 CR-9	Inadequate housekeeping		Contractor is instructed the keep maintain good housekeeping at all sites. Clean and clear all the sites ASAP.	Immediate		

78.2	15-02-2023 CR-9		Contractor is Instructed to remove contaminated soil with clean and fresh Soil as per SOPs provided in ECPs ASAP. Note: Submit incident report.	Immediate	

			Tes 22 2 2 2		
78.3	15-02-2023 MAT Sedimentation Tank	Fuel wood	Contractor is instructed to Clean and clear the sediments from Tank and remove the sludge and sand at dumping area Immediately. Keep cleaning practice twice a week.	Immediate	

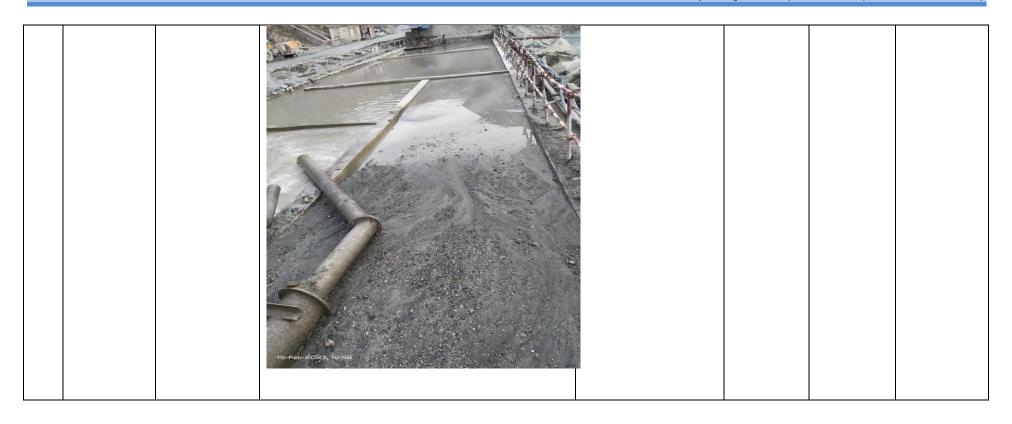


Table 2.17:	Walk-Through Environmental Inspection Report 79
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Date of Issuance: 16-02-2023-

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
79.1	15-02-2023 CR-02 office front	Solid waste, littering	Feb 15, 2023 11:23:34 AM Index number: 50:71	The Contactor is instructed to place waste bins at the site. collect the solid waste from different place and put them into the bins at the site After that dump the litter at designated site.	immediate		

79.2	15-02-2023 CR-02 workshop.	Oil spill	Feb 15, 2023 11:24:18 AM, 14*N, Index numbers 5015	The contractor is instructed to use spill Kit or spill sheet during mechanical work and remove the oil spill from the site by replacing contaminated soil with fresh soil and store contaminated soil in a drum temporary then transport to the designated site.	immediate	
79.3	15-02-2023 CR-02 near audit 1 sedimentation tank	Inadequate housekeeping	Feb 15, 2023 11.07.52 AM Sage SW Idex number: 5005	The contractor is instructed to keep away construction material from walkways and ensure good housekeeping at site.	immediate	

79.4	15-02-2023 CR-02 near audit 1 sedimentation tank	Open burning	Feb 15, 2028, 12: 07,48, AM, 2028, MB, 2024,	The contractor is instructed to arrange awareness session with all work force to avoid open burning of solid waste.	immediate	
79.5	15-02-2023 CR-02 workshop	Improper disposal of waste bin. (Workshop waste)	Teb 15, 2023 11:25:28 AM S60" N Index number: 5019	The contractor is instructed to dispose and discard the waste into the waste bins. After that dispose the waste into onward disposal site to overcome further scattering of waste.	immediate	

*Note: The Contractor rectified some of the issues highlighted in this WTEIR but some were not addressed till April 2023 like use of fire wood and provision of spill kits for oil spills. Other were rectified immediatelyand reported through Whatsapp Group(Verified by DHC Field Staff

Table 2.18: Walk-Through Environmental Inspection Report 80

Report No. E-80

Date of Issuance: 16-02-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
80.1	16-02-2023 CR-02 HT office and workshop	Solid waste, littering		The Contactor is instructed to place waste bins at the site. collect the solid waste from different place and put them into the bins at the site Impart training to all site specific staff regarding Waste management	Immediate		

80.2	16-02-2023 CR-02 HT office and batching plant waste oil place	Oil spill	<image/>	The contractor is instructed to use spill Kit or spill sheet during mechanical work. Oil spillage is strictly prohibited as per ECP's and remove the contaminated soil from the site and replacing it with fresh soil and store contaminated soil in a drum temporarily then transport to the designated storage site.	immediate	
80.3	16-02-2023 CR-02 workshop	Inadequate housekeeping		The contractor is instructed to keep away construction material from walkways and ensure good housekeeping at site.	Immediate	

80.4	16-02-2023 batching plant waste oil place	Improper placement of fuel drums. And poor shelter.	<image/>	The contractor is instructed to provide concrete pavement foundation and put each drum on a drip tray and extend the shelter and protect the drums from weathering.	Immediate	
80.5	16-02-2023 CR-02 toilets	Poor Hygienic Toilets		The contractor is instructed to clean toilets on daily basis and paste a daily cleaning checklist on toilets and open clogging toilets as soon as possible	Immediate	

80.6	16-02-2023 CR-02 HT office	Animals		The contractor is instructed to stop the entrance of dogs at construction site. Animals which are PET or wild are not to be roaming on any construction site especially dogs (There is no rabies vaccine found in RHC Dasu nor DHQ Dasu.	immediate		
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*Note: The Contractor rectified some of the issues highlighted in this WTEIR but some were not addressed till April 2023 like use of fire wood and provision of spill kits for oil spills and dirty toilets due to pebbles usage by the labor causing to choke the laterines... Other were rectified immediatelyand reported through Whatsapp Group(Verified by DHC Field Staff

 Table 2.19:
 Walk-Through Environmental Inspection Report 81

Date of Issuance: 17-02-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
81.1	17-02-2023 Coffer dam Sigloo near kitchen	Solid waste littering		The Contactor is instructed to place waste bins at the site. collect the solid waste from different place and put them into the bins at the site Follow SOP's provided in ECP's	immediate		

		r	1	[1	
81.2	17-02-2023	Oil spill		The contractor is	Immediate		
	Coffer dam			instructed to use			
	Sigloo near			spill			
	workshop			Kit an anill about			
	-			Kit or spill sheet			
				during			
			Piece Contraction of the	mechanical work,			
				storage of oil			
				Drums and			
				remove the			
				contaminated			
			ALLON A CARLON - I CALLON S	sand/soil from the			
				site by replacing			
			A A A A A A A A A A A A A A A A A A A	the contaminated			
				soil with fresh soil			
				and store			
				contaminated soil			
				in a drum			
				temporary then			
				transport to the			
				designated site.			
81.3	17-02-2023	Inadequate		The contractor is	Immediate		
00	Coffer dam	housekeeping		instructed to keep			
	Sigloo near	nousekeeping		away			
	workshop		A A A A A A A A A A A A A A A A A A A	construction			
	workshop		And a second share the second s	material from			
			STATES TO BE	walkways and			
				ensure good			
			A CAR A C	housekeeping at			
			a the second sec	site.			
			N. K. Y. C. L. M. K.				
			A A A A A A A A A A A A A A A A A A A				
		l		1		1	

81.4	17-02-2023 Coffer dam Sigloo site toilets and kitchen	Poor toilets kitchen	hygienic and	<image/>	The contractor is instructed to clean toilets on daily basis and paste a daily cleaning checklist on toilets and increase number of toilets. Ensure availability of water all the time at these toilets. Also ensure cleanliness in kitchen at every time as soon as possible. The grey water from Toilets must	immediate	
					kitchen at every time as soon as possible.		

81.6	17-02-2023 Coffer dam Sigloo site kitchen	Poor facility	mess	<image/>	The contractor is instructed to provide a cook and Helper to serve food for workers and follow ECPs and CEAP and provide all facility in mess hall which are mentioned.	immediate		
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81.7	17-02-2023	No hot water		The contractor is	immediate	
01.7					IIIIIIeulate	
	Coffer dam	and no supply in		instructed to		
	Sigloo site	washrooms		provide hot water		
	labor camp			in washrooms		
				and provide		
				proper water		
				supply on 24 hrs		
				basis in each		
				washroom as		
				well.		
			The state of the s			

*Note: The Contractor rectified some of the issues highlighted in this WTEIR but some were not addressed till April 2023 like use of fire wood and provision of spill kits for oil spills and dirty toilets due to pebbles usage by the labor causing to choke the laterines... Other were rectified immediatelyand reported through Whatsapp Group(Verified by DHC Field Staff

 Table 2.20:
 Walk-Through Environmental Inspection Report 82

Date of Issuance: 18-02-2023

Sr. No	Date and Location of Inspection	observations Picture Contractor		Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
82.1	18-02-2023 CT-2	Waste near CT-2		Contractor is instructed to keep the site clear and ensure Zero waste on site policy. It is further instructed that that waste bins should be installed at this site and all staff members of CGGC either Labor or Staff should be apprised these things in the induction training as well as refresher trainings.	Immediate		
82.2	18-02-2023 CR-02	Oil spill near Adit A		Contractor is Instructed to remove contaminated soil with replace the contaminated soil with clean and fresh Soil as per SOPs provided in ECPs.	Immediate		

82.3	18-02-2023 Thoki Crushing Plant	Oil Spill	Contractor is Instructed to remove contaminated soil with replace the contaminated soil with clean and fresh Soil as per SOPs provided in ECPs.	Immediate	

82.5	18-02-2023 Adit Tunnel A	Waste at Slope	bee op op of	Contractor is instructed to keep the slopes clean from the waste and clear the site with immediate effect. Also impart training/ awareness session for all staff of this site regarding littering and waste management clauses. If the staff is not complying impose fines on them to ensure smooth environmental compliance.	Immediate	
82.6	18-02-2023 Near Traffic diversion Tunnel along KKH	Dust		Contractor is instructed to keep to ensure water sprinkling on daily basis at least thrice a day.	Immediate	

 Table 2.21:
 Walk-Through Environmental Inspection Report 83

Date of Issuance: 03-03-2023-

	Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
8	3.1	03-03-2023 CR2 HT office	Solid waste, littering		The Contactor is instructed to place waste bins at the site. collect the solid waste from different place and put them into the bins at the site After that dump the litter at designated site.	immediate		

83.2	03-03-2023 uchar old crushing plant	Inadequate housekeeping		The contractor is instructed ensure good housekeeping at site.	immediate	
83.3	03-03-2023 uchar old crushing plant	Improper placement of fuel drums	<image/>	The contractor is instructed to keep fuel drum in a concrete banded palce and provide proper shelter and protect from rains as soon as possible.	immediate	

· · · · · · · · · · · · · · · · · · ·					
83.4 03-03-2023 batching plant CR2	Untreated water	<image/>	The contractor is instructed to remove sludge from the pound and install a permanent fresh water pipe that should be fix with one location and ensure addition of fresh water for all time as soon as possible.	immediate	

83.5	03-03-2023	animals		The contractor is	immediate	
	uchar old			instructed to		
	crushing plant			remove animals		
	+ CR2 HT office			from construction site which is		
	once		A Star of SA	strictly prohibited		
				and stop entrance		
				of animals in		
				construction site.		

*Note: The Contractor rectified some of the issues highlighted in this WTEIR but some were not addressed till April 2023 like animals on the site, provision of spill kits for oil spills and enough waste bins. Other were rectified immediatelyand reported through Whatsapp Group(Verified by DHC Field Staff

 Table 2.22:
 Walk-Through Environmental Inspection Report 84

Date of Issuance: 04-03-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
84.1	04-03-2023 CT2 + switchyard labor camp	Solid waste, littering		The Contactor is instructed to place waste bins at the site. collect the solid waste from different place and put them into the bins at the site After that dump the litter at designated site.	immediate		

84.2	04-03-2023 CT2	Oil spill		The contractor is instructed to use spill Kit or spill sheet during mechanical work and remove the oil spill from the site by replacing contaminated soil with fresh soil and store contaminated soil in a drum temporary then transport to the designated site.	immediate	
84.3	04-03-2023 CT2 + switchyard labor camp	Poor hygienic toilets and kitchen	<image/>	The contractor is instructed to clean toilets on daily basis and paste a daily cleaning checklist on toilets and increase toilets And also make ensure cleanliness in kitchen at every time as soon as possible.	immediate	

84.4	04-03-2023 CT2 + switchyard labor camp	Fuel woods	The contractor is instructed to provide LPG stove and oven for workers as soon as possible.	immediate	
84.5	04-03-2023 switchyard labor camp	Poor sewerage system	The contractor is instructed to connect toilets pipe to the septic tank as soon as possible.	immediate	

(*Note: The contractor had been repeatedly instructed to remove the waste from the slopes, stop using fire wood for cooking, dirty toilets and kitchen space but these were pending issues till April 2023). DHC Field Staff continued to monitor and push the contractor to comply witht the ECP's.

Table 2.23:	Walk-Through Environmental Inspection Report 85
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Date of Issuance: 11-03-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
85.1	11-03-2023 CT2 near kitchen	Solid waste, littering		The Contactor is instructed to place waste bins at the site. collect the solid waste from different place and put them into the bins at the site After that dump the litter at designated site.	immediate		

85.2	11-03-2023 CR9 generator room and CR9 work shop	Oil spill		The contractor is instructed to use spill Kit or spill sheet during mechanical work and remove the oil spill from the site by replacing contaminated soil with fresh soil and store contaminated soil in a drum temporary then transport to the designated site.			
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85.4	11-03-2023 CT2 kitchen	Fuel woods	<image/>	The contractor is instructed to provide LPG stove and oven for workers as soon as possible.	Reminder 2	
85.5	11-03-2023 CT2 toilets	Poor sewerage system		The contractor is instructed to connect toilets pipe to the septic tank as soon as possible.	immediate	

85.6	11-03-2023 CT-2 and CR9 Grease place	Improper placement of fuel drums.	<image/>	The contractor is instructed to develop concrete banded palace for fuel storage place approximately lined should be 6 inches height as soon as possible	immediate	
85.7	11-03-2023 CR9 sedimentation pound	Sedimentation pound full with sludge		The contractor is instructed to clean the as soon as possible and add fresh water continually at every time	immediate	

85.8	11-03-2023 CT-2 toilets	Poor sanitation facility	The contractor is instructed to make functional hand washing basin and keep clean at every time.	immediate	
85.9	11-03-2023 CT2 sedimentation pound	Extra pipe	The contractor is instructed to remove extra pipe from the pound which is not for any use	immediate	

(*Note: The contractor complied on most of the non compliances like sedimentation tank, and toilets cleaning but failed to replace the fire wood as the CGGC claims that there is no budgetary provision for LPG gas to be provided to all labor.) DHC Field Staff continued to monitor and push the contractor to comply with the ECP's

Table 2.24: Walk-Through Environmental Inspection Report 86

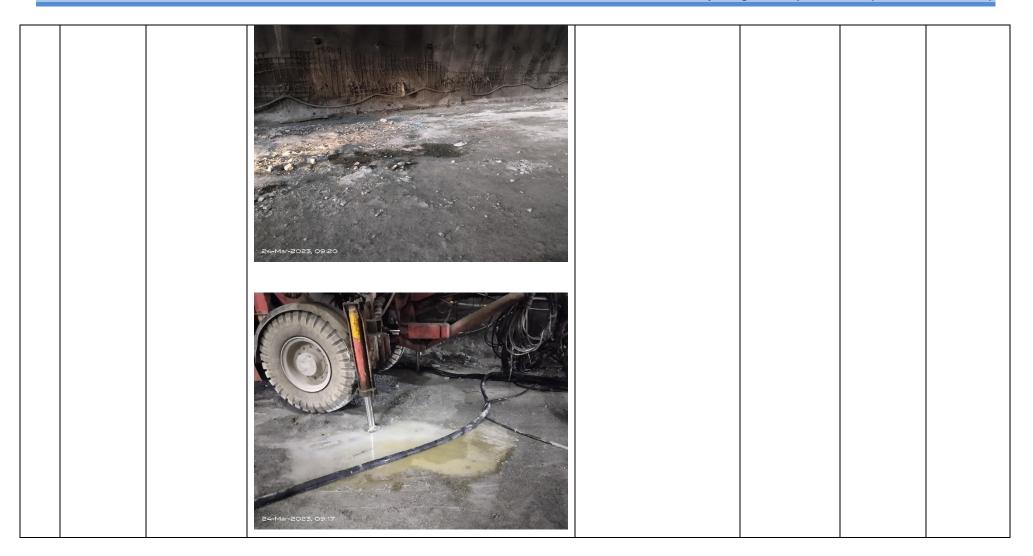
Report No. E-86

Date of Issuance: 26-03-2023

S	D Inspection		Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completio n Date
86	24-03-2023 CR-9 Workshop	Solid Waste	- Mi zouz oza	It is instructed to the contractor to keep the site clear from solid waste.	Immediate		

86. 2	24-03-2023 CR-09 Batching Plant	Oil spill	Stmesors coos	The contractor is Instructed to remove contaminated soil and replace it with clean and fresh Soil as per SOPs provided in ECPs. Treat this issue as urgent and report to the Engineer's office.	Immediate	
			24-140-2023, 09:02			

86. 3	24-03-2023 Power house	Oil Spill		The contractor is Instructed to remove contaminated soil with clean and fresh Soil as per SOPs provided in ECPs submit incident report.	Immediate	
			24MA-2G23, 0318			



86. 5	24-03-2023 Powerhous e and Sedimentati on Pond CR-09	Sludge created in the Power house.s	Permeters of the second s	The contractor is instructed to remove the sludge from Power house and from Outside the Sedimentation pond and dump into designated spoil disposal site.	Immediate	

24-Mar-2023, 00-25-1		
24-1/11-2023, 09-35		

86.	24-03-2023	Oil Spill		The contractor is	Immediate	
6	CT-2			Instructed to remove		
	-			contaminated soil with		
				clean and fresh Soil as		
				per SOPs provided in ECPs.		
				EGPS.		
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86. 7	24-03-2023 CT-2	Fuel wood	The contractor is instructed to provide LPG instead fuel wood	Immediate	

86.	24-03-2023 CT-2	Improper Placement Chemical Tanks		It is instructed to the contractor to construct concrete platform under the chemical tanks and placed all the tanks on the platform with protection bund.	Immediate		
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2.5.2 Notices and Letters

In addition to the 19 WTEIRs discussed in the earlier section, the Engineer has issued notices to the Contractor on several persistent issues during the reporting period. There were 24 Letters/instructions issued to the Contractor during the reporting period of Jan-March 2023 (additional details are given in chapter 10).

2.5.3 Quarterly Monitoring of Air, Noise, Water and Wastewater

The Contractor has not yet conducted any quarterly environmental monitoring trough a third party monitoring laboratory. Negotiations with a third-party environmental monitoring laboratory (Bureau Veritas) were underway during 1st quarter of 2023 which had to be approved from "The Engineer" on behalf of Contractor CGGC.

The Third-Party Environmental Monitoring Laboratory i.e., Bureau Veritas failed to produce KP-EPA Registration certificate. After a long session of discussions among the concerned parties as well as with WAPDA Environmental Staff, Contractor (CGGC) requested time up till 25th of Jan 2023 for the new Third Party Laboratory i.e. Bureau Veritas for quarterly environmental monitoring. So far the Bureau Veritas has failed to produce Registration Certificate from Federal EPA nor from KPK EPA. After the Therefore the matter is still pending with the contractor, CGGC was adivised by DHC to look for a new laboratory as Bureau Veritas has failed to full fill statutory requirements. The contractor was still looking for a new third party laboratory by end of the March 2023.

2.5.4 Spot Monitoring of Wastewater Quality

Monthly spot monitoring was carried out during the reporting quarter to assess the quality of wastewater. The wastewater discharges from the construction sites are collected in the sedimentation ponds and assessed monthly for turbidity, conductivity, pH and dissolved oxygen (DO). These tests are conducted by the Contractor in the presence of the Environment team of PMU and DHC using portable equipment. The pH level in most of the samples showed high alkalinity due to the use of admixture chemicals with concrete inside the tunnels for shotcreting. Fortunately, the receiving body is of huge volume (River Indus) and the dilution factor resolves the issue which was confirmed from downstream surface water quality testing. The surface water was tested downstream of the sedimentation tanks to assess the pH value which was the same as was at upstream of the sedimentation tanks. The coordinates of the sampling locations are given below:

Sr.No	Location	Coordinates
Surface	water	
1	Upstream Indus River at Uchar	35 ⁰ 20'31.83" N 73 ⁰ 12'17.76"E
2	Downstream Indus River near Kass area truss bridge	35 [°] 17'27.27" N 73 [°] 13'14.83''E
Wastewa	ater	
1	Uchar crusher plant sedimentation pond	35 [°] 20'25.56" N 73 [°] 12'17.76"E
2	Uchar Batching plant sedimentation pond(CR-02)	35 [°] 18'31.9" N 73 [°] 12'01.71"E
3	Sedimentation tank near Adit-1	35 [°] 18'16.87" N 73 [°] 10'57.78"E
4	Sedimentation tank near MAT	35 ⁰ 17'21.15" N 73 ⁰ 10'35.55"E
5	Sedimentation tank at Khoshe batching plant(CR-09)	35 ⁰ 17'07.72" N 73 ⁰ 10'48.27"E
6	Sedimentation Tank at CT-02	35° 17' 48.13"N 73 [°] 12'.29.73" E

 Table 2.14:
 Location of the Spot Monitoring

 Table 2.15:
 Results of Spot Monitoring MW-01

Sr. No.	Quarter		-	Conductivity (uS/cm)	рн	DO mg/l	l'emperature,	visual presence of Petroleum	Remarks
		Uchar crusher plant sedimentation pond	>1000	4.3	9.5	9.9	6.5	Nil	
1		CR-02 Batching plant sedimentation pond	116.8	295	11.1	9.3	5.9	Nil	
		Sedimentation tank near Adit-1	968	317	10.8	8.2	11.6	Nil	
		CT-02 sedimentation Pond	330	1871	11.4	7.8	15.4	Nil	
		Uchar crusher plant sedimentation pond	>1000	103.3	9.7	4.0	10.2	Nil	
		CR-02 Batching plant	594	237	11	8.54	12	Nil	

2	Feb	sedimentation pond							
		Sedimentation tank	473	193.8	9.6	6.0	14.4	Nil	
		near Adit-1							
		CT-02 sedimentation Pond	544	1291	11.4	6.7	18.7	Nil	
		Uchar crusher plant sedimentation pond	976	126	10.2	5.1	13.9	Nil	
3	Mar	CR-02 Batching plant sedimentation pond	135.4	477	11.2	6.6	15.9	Nil	
		Sedimentation tank near Adit-1	-	-	-	-	Ι	Nil	Sedimentation Tank was full of sludge therefore no sampling/testing was conducted from this waste water tank @ Adit-01
		CT-02 sedimentation Pond	76	1066	11.1	6.1	20	Nil	
		NEQS	200NTU		6-8		<40		

Table 2.16:Results of Spot Monitoring MW-02

							5		
Sr. No.	Quarter	Location	Turbidity (NTU)	Conductivity (uS/cm)	рΗ	DO mg/l	Temperature, °C	The visual presence of Petroleum Product	Remarks
1		Sedimentation tank near MAT	407	27.3	10.7	4.60	11.2	Nil	
		Sedimentation tank at Khoshe batching plant	250	98.1	9.98	5.01	7.5	Nil	
2		Sedimentation tank near MAT	966	503	11.2	5.8	13.6	Nil	
		Sedimentation tank at Khoshe batching plant	317	130	10.3	5.5	11.6	Nil	
3		Sedimentation tank near MAT	-	-			-	Nil	
		Sedimentation tank at Khoshe batching plant	52.5	706	11.4	5.6	16.9	Nil	
NEQ	S		200 ntu		6-8		<40		

2.6 Contractor's Effect Monitoring

The monitoring requirements of the Contractor as per the bidding documents are given in the following table. The Engineer's observation of the monitoring status is also given in the last column of this table.

C	Devenueter	Leastion		Status	
Sr.	Parameter	Location	Means Monitoring	Frequency	Status
No.					
1	Landslides	37 identified landslide prone areas in EIA	Visual Inspection on stability of landslides	Fortnightly	Geology team of the Engineer supervised this aspect during the reporting quarter and issued necessary instructions to the Contractors for the areas where there was a potential of landslide. As far as the 37 landslides are concerned that are coming in the reservoir area and the effect will be monitored once the dam impounding is started.
2	Erosion		Visual inspection of erosion prevention measures and occurrence of erosion	Quarterly	Quarterly visual inspection carried out. No occurrence was recorded during the quarter.
3		tributaries at the downstream of the construction sites. The locations of sampling can be same locations of baseline water quality or new locations recommended by the CSC.	Temperature, pH, Conductivity, TSS, turbidity, nitrate, Wastewater – BOD. TSS, turbidity, TDS, COD, grease and oil, iron, ammonia, sulfates, chlorides)		The Contractor is in negotiation with Bureau Veritas (B.V) Environmental laboratory to conduct the third-party environmental monitoring. But till the end of this Quarter (Jan-March 2023) B.V failed to submit certificate of registration from EPA KPK neither from Feral EPA. From March 2023 the CGGC contractor is looking for a new Laboratory whom can be hired for third party Laboratory.
4		quarry areas along KKH and blasting areas	Visual inspection to ensure good standard equipment is in use and dust suppression measures (spraying of waters) are in place.	Weekly	Weekly visual inspections were carried out during the quarter and instructions were given to contractor for compliance. The Contractor was strictly instructed to increase water sprinkling frequency. The dust is under control.

 Table 2.17:
 Status of Contractor's Effect Monitoring

5			Air quality monitoring for		The Contractor is in negotiation with
	(PM10, NO2, SO2, CO2, CO)	and settlements at the close to the construction	24 hours for the parameters		Bureau Veritas (B.V) Environmental laboratory to conduct the third-party
		works and along KKH. The			environmental monitoring. But till the
		locations of sampling can			end of this Quarter (Jan-March 2023)
		be same locations of			B.V failed to submit certificate of
		baseline air quality or new			registration from EPA KPK neither from
		locations recommended			Feral EPA. From March 2023 the CGGC
		by the CSC.			contractor is looking for a new
		-			Laboratory whom can be hired for third
					party Laboratory.
6		At all the construction sites	Visual Inspection	Quarterly	Quarterly visual inspections were carried
		for dam, KKH and tunnels			out during the quarter and no issue
-	equipment				was observed.
7		Near the sensitive sites			The Contractor is in negotiation with
		and settlements at the			Bureau Veritas (B.V) Environmental
		close to the construction			laboratory to conduct the third-party
		works and along KKH. The locations of sampling can			environmental monitoring. But till the end of this Quarter (Jan-March 2023)
		be same locations of			B.V failed to submit certificate of
		baseline air quality or new			registration from EPA KPK neither from
		locations recommended			Feral EPA. From March 2023 the CGGC
		by the CSC			contractor is looking for a new
		-			Laboratory whom can be hired for third
					party Laboratory.
8	Waste	5	Visual inspection on spoil		The Contractor is disposing the spoil in
	Management	disposal area	disposal in accordance with		the designated spoil dumping site at
			EMP Sub plan on Waste		Khoshe and is also transporting the spoil
			Management		to the crushing plant at Uchar as raw
9	Construction		Visual inspection that solid		material for aggregate Quarterly monitoring was carried out and
J J	camps and		waste is disposed of at		contractor disposed the waste in
	construction		designated site		Barseen area as a temporary
	management				arrangement till the landfill site is
	-				finalized by the DHPP.
10	Spills from	Material storage sites and	Visual Inspection for leaks	Quarterly	Quarterly monitoring was carried out.
	Hydrocarbon	construction yards	and spills		The spills were recorded during the
					quarter and contractor was instructed to
	T (" 0 ()				rectify the issue.
11	Traffic Safety		Visual inspection to see		Supervised by OHS
		roads to the construction	whether Traffic Management Plan (EMP		
		areas	Sub Plan 12) is		
			implemented		
12	Local Roads	Approach Roads	Visual inspection to ensure	Quarterly	Quarterly monitoring was carried out
			local roads are not damaged		and no damage was observed to
			č		the local roads
13		At the physical and			The contractor kept in consideration this
	0		implementation of EMP Sub		aspect during the excavation activities.
	Sites		Plan 13 on Physical Cultural		There was no archeological site present
	D. I.		Resources Management		in the current construction area.
14	0	In construction sites and			Weekly Monitored. The contractor
	and Sanitation		workers are provided with		provided Filtered water in large water
			safe water and sanitation facilities on the site		coolers to the workers at the sites.
	1	1	Iacinites on the site		

2.7 Key Performance Indicators

The key performance indicators identified in the ESA³ of DHP to mitigate the environmental impacts and risks during construction can be summarized into five categories, as shown in the following table:

³ See Table 8.2: Mitigation Plan for Construction Stage of ESA of Dasu Hydropower Project

Table 2.18:	Key Performance Indicators for compliance with mitigation measures
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Sr. No	Key Performance Indicator	Description of the Indicator			
1		The number of non-compliances noticed and reported to the			
	compliance reports	Contractor.			
2		The number of complaints or grievances received from the communities on the construction-			
	complaints or	related nuisances such as traffic,			
	grievances	dust, noise and vibration, or any other construction-related activities			
3	Number of	The number of accidents or incidents, or near misses involving construction activities and			
	accidents/incidents	construction vehicles			
4	Number of exceeding	The number of parameters in ambient air and noise quality, drinking water, wastewater discharges and			
	values against NEQS	surface waters found beyond the national standards.			
5.	Other Indicators	Any other indicators that are not covered in the above categories are given in 'other indicators.' This			
		includes the number of times chance finds are noticed, the number of trainings conducted, etc.			

A detailed assessment of the status of compliance with the performance indicators and their status during the reporting period is given in the following table. Any indicators related to OHS and social aspects are covered in the relevant reports, not in this report.

Activity	Environmental Impact/Issue	Number of any non- compliance reports	Number of related incidents	Number of related grievances	Exceeding values against NEQS (air, noise, water, etc.)	Other Indicators	Remarks
1. Contractor	1.1 Traffic Management						None reported in this quarter
Mobilization and	1.2 Soil Erosion and						-do-
Demobilization	Contamination						
	1.3 Air Quality						-do-
	1.4 Noise						-do-
	1.5 Public Safety						-do-
	1.6 Damage to Infrastructure						-do-
2. Contractor's	2.1 Soil and Water Contamination						-do-
Camp	2.2 Air Quality						No quarterly environmental monitoring is done
	2.3 Vegetation loss					Number of trees felled:0	
	2.4 Noise						No monitoring is done
	2.5 Health and Safety						Covered under OHS Quarterly Report
	2.6 Social and Gender Issues						Covered under Social Quarterly report
	2.7 Damage to PCRs					Number of chance finds: 0	None reported this quarter
	2.7 Increased load on local services						Covered under Social Report
	3.1 Traffic Management						Two letters were issued on the hauling of
Equipment	5						oversized equipment
	3.2 Soil Erosion and Contamination						None reported
	3.3 Air Quality						-do-
	3.4 Noise						-do-
	3.5 Public Safety					Number of trainings provided:	Covered under social report
	3.6 Damage to infrastructure						None reported
	4.1 Changes to topography						-do-
of Dam	4.2 Landslides					Number of landslides: Number	-do-
Powerhouse and						of blasting events:	
other Infrastructure	4.3Soil erosion					Number of incidences borrow pits not covered:	'-do-
	4.4. Soil and water contamination				4		
	4.5 Water pollution				5		
	4.6 Air Quality	Nil					
	4.7 Health and Safety					Covered under OHS	Covered under OHS report
	4.7 Noise and vibration				5		-do-
	4.8. Landscape and visual	Nil					Nil
	Intrusion						
	4.9. Vegetation Loss	Nil				The number of trees felled:0 The number of saplings planted:0 The survival rate of samplings after one	

 Table 2.19:
 Key Performance Indicators and their Status during the reporting period

					vear: 0	
4 10 Fauna/wildlife	Nil					-do-
4.12 Mortality of fish	Nil				50000	-do-
,						Covered under BEDMP
						None reported
	Nil					-do-
						-do-
						-do-
						Covered under Social Report
						do
······					1 0	
4.21 Increased load on local services and						-do-
supplies						
5.1 Changes to topography	Nil					No quarry operation started
5.2 Landslide						
5.3 Soil erosion						
5.4 Soil and water contamination						
5.5 Air Quality						
5.6 Health and Safety						
5.7 Noise and Vibration						
	NII					
		7				7 incidences of waste management are
7.2 Odor		ľ				mentioned in WTEIRs of this quarter
	 4.12 Mortality of fish 4.13 Impact on ecological connectivity 4.14 Damage to infrastructure 4.15 Damage to PCRs 4.16. Loss of access to villages 4.17 Disturbance to visual landscape and natural habitats 4.17. Social conflicts due to labour influx 4.18 Local cultural values 4.20. Health impacts on local community 4.21 Increased load on local services and supplies 5.1 Changes to topography 5.2 Landslide 5.3 Soil erosion 5.4 Soil and water contamination 5.5 Air Quality 5.6 Health and Safety 5.7 Noise and Vibration 5.7 Landscape and Visual Intrusion 5.8 Vegetation loss 5.9 Fauna / Wildlife 5.10 Damage to infrastructure 5.12 Damage to PCRs 6.1 Changes to topography 6.2 Landslide 6.3 Soil erosion 6.4 Air Quality 6.5 Landscape and Visual Intrusion 6.6 Vegetation loss 7.1 Soil and water contamination 	4.12 Mortality of fish Nil 4.13 Impact on ecological connectivity 4.14 Damage to infrastructure 4.15 Damage to PCRs Nil 4.16. Loss of access to villages Nil 4.17 Disturbance to visual landscape and Nil natural habitats A.17. Social conflicts due to labour influx 4.18 Local cultural values 4.20. Health impacts on local community 4.21 Increased load on local services and supplies 5.1 Changes to topography Nil 5.2 Landslide 5.3 Soil erosion 5.4 Soil and water contamination 5.5 Air Quality 5.6 Health and Safety 5.7 Noise and Vibration 5.7 Landscape and Visual Intrusion 5.8 Vegetation loss 5.9 Fauna / Wildlife 5.10 Damage to infrastructure 5.12 Damage to PCRs 6.1 Changes to topography 6.1 Changes to topography 6.2 Landslide 6.3 Soil erosion 6.4 Air Quality 6.5 Landscape and Visual Intrusion 6.6 Vegetation loss 7.1 Soil and water contamination	4.12 Mortality of fish Nil 4.13 Impact on ecological connectivity 4.14 Damage to infrastructure 4.15 Damage to PCRs Nil 4.16 Loss of access to villages Nil 4.17 Disturbance to visual landscape and Nil 1 natural habitats 4.17. Social conflicts due to labour influx 4.17. Social conflicts due to labour influx 4.18 Local cultural values 4.20. Health impacts on local community 4.21 Increased load on local services and supplies 5.1 Changes to topography Nil 5.2 Landslide 5.3 Soil erosion 5.4 Soil and water contamination 5.5 Air Quality 5.6 Health and Safety 5.7 Noise and Vibration 5.7 Landscape and Visual Intrusion 5.8 Vegetation loss 5.9 Fauna / Wildlife 5.10 Damage to pPCRs 6.1 Changes to topography Nil 6.2 Landslide 6.3 Soil erosion 6.4 Air Quality 6.5 Landscape and Visual Intrusion 6.5 Landscape and Visual Intrusion Nil 6.6 Vegetation loss 7	4.12 Mortality of fish Nil 4.13 Impact on ecological connectivity	4.10. Fauna/wildlife Nil 4.12 Mortality of fish Nil 4.13 Impact on ecological connectivity	4.12 Mortality of fish Nil species 4.13 Impact on ecological connectivity image of the species image of the species 4.14 Damage to infrastructure image of the species image of the species 4.15 Damage to PCRs Nil image of the species 4.16 Damage to PCRs Nil image of the species 4.17 Disturbance to visual landscape and Nil imatural habitats imatural habitats A.17. Social conflicts due to labour influx imatural habitats imatural habitats 4.17. Social conflicts due to labour influx imatural habitats imatural habitats 4.18 Local cultural values imatural habitats imatural habitats 4.20. Health impacts on local community imatural habitats imatural habitats 5.1 Changes to topography Nil imatural habitats imatural habitats 5.3 Soil end water contamination 5.4 in Quality imatural habitats imatural habitats 5.4 Canditide imatural habitats imatural habitats imatural habitats 5.4 Canditide imatural habitats imatural habitats imatural habitats 5.4 Changes to topography Nil imatural habitats imatural habitats

2.8 NCR Issued in this Quarter

During the quarter, three NCRs were issued to the MW-01 and MW-02 contractor and details are given in the following table.

	Table		duitor
Sr. No.	Contract	Subject	Issuance Date
1	MW-01	Persistent Oil Spills at Construction Sites	22 nd Feb 2023
2	MW-02	Persistent Oil Spills at Construction Sites	22 nd Feb 2023
3	MW-01	Dumping of Sludge material on the right bank of the Indus River near coffer dam area and Diversion Tunnel-C.	15 th March 2023

Table 2.20: Non-conformance reports (NCRs) issued during the quarter

2.9 Overall Compliance Status – Tri-Partite monthly Meetings

During the quarter, monthly meetings were held with the Contractor by the Engineer and PMU to discuss pending environmental non-compliance and the actions taken by the Contractor to address these issues. The minutes of these meetings are shown in Annexure A.

The Major pending issues are:

- Third party environmental monitoring
- Adaptive measures for the closure of NCRs
- Status of Air dispersion modelling for the proposed Seo crusher plant
- Appointment of Environmental Officer

3 KKH-01 Contract

3.1 Overview of Contracts

A brief overview of the KKH-01 contract is given in Table 3.1. The KKH-01 contract works are related to the construction of 25.2 km road along with the tunnels and bridges.

Sr. No.	Item	Data
1	Contract Number	ICB No. Dasu-KKH-01
2	Contractor Name	Relocation of Karakorum Highway (KKH) RD0+000 to RD 25+200
3	Contractor	China Civil Engineering Construction Corporation (CCECC)
4	Commencement Date	March 16, 2015
5	Contract Completion Date	Feb 20, 2017
6	Updated Completion Date	July 22, 2024

Table 3.1: Overview of KKH-01 Contract

3.2 Contractor Environmental Action Plan

The Contractor has submitted the Contractor Environmental Action Plan (CEAP) with the sitespecific management plans to address the environmental impacts and risks of the construction activities. In addition, the Contractor has also prepared an Occupational Health and Safety Management Plan (OHSMP), and details of these plans are not covered in this report.

3.3 Contractor's Facilities and ESHS Staff

The facilities established by the Contractor, such as workers' camps and construction yards, are given in Table 3.2. The Environmental Social Health and Safety (ESHS) Staff of the Contractor are given in Table 3.3.

Sr.	Facility	Location	Details	Remarks
No.				
Α.	Worker's Camps			
1	Chinese Workers Camp		About 101 workers live ir this camp	h
2	Pakistan Workers Camps	Uchar/K4/K8/K3/K 6/K9/Logro-B/Uchar & Dugah	About 842 workers live ir these camp	
В.	Crushing/Batching Plants			
1	Crushing Plant	Uchar & K-05, Kaigah Bypass		The crushing Plant in Kaigah is under construction
2	Batching plant	Uchar & K-06, Dugah Tunnel		There are three batching plant for KKH-01. One is at K-06 and One is at Uchar and at Dugah Tunnel outlet (Under construction)
C.	Other Facilities			
1	Construction Yard	Uchar, Kaigah		The Kaigah Facilities are currently under construction.
2.	Explosive Magazine	Barseen	20 Ton capacity	

Table J.Z. Contractor S Facilities	Table 3.2:	Contractor's Facilities
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 Table 3.3:
 Contractor's ESHS Staff

Sr. No.	Position	KKH-01 Contract	Remarks
1	Manager EHS	Manzoor Hussain	
2	Environmental Officer	Vacant	
3	Environmental Supervisor	Arif Hussain	
4	Environmental Supervisor	Yasser Hussain	
5	Environmental Supervisor	Rahat Hameed	

3.4 Construction Activiites at KKH-01

Details of construction activities conducted during the reporting period are shown in Table 3.4.

Table 3.4:	Construction Activities in KKH-01 Contract
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Sr. No.	Work Site	Details of Works	Remarks
1	K4 Tunnel	 Excavation and primary support works of K-4 TunnelCor outlet RD=K4+471 continued during the month and 155m heading completed. Excavation and primary support works of K-4 Tunnel outlet side RD=K4+355 continued during the month and 271m heading and benching 139m completed. Preparation for secondary lining assembling of formwork completed. 	ntinued during the quarter

	L	
2	Logro-A Tunnel inlet	 Excavation and primary support works of Logro-AContinued during the quarter tunnel RD=K9+333 continued during the month and 181m heading completed. Excavation and primary support works of Logro-A
		tunnel inlet side RD=K9+396 continued during the
		month and 244m heading, benching 120m completed.
		Preparation for secondary lining assembling of
		formwork in progress.
		 Excavation and primary support works of Logro-A tunnel inlet side RD=K9+396 continued during the month and 244m heading, benching 120m completed.
		Preparation for secondary lining assembling of
		formwork in progress.
		 Excavation and primary support works of Logro-A
		tunnel inlet side RD=K9+449 continued during the
		month and 297m heading, benching 256m completed.
		Preparation for secondary lining assembling of
	Khaaka Dumaaa Daad	formwork.
3	Khoshe Bypass Road	Improvement works including construction of retainingContinued during the quarter
		walls & laying of RCCP for Khushe
4	Llahan Dridaa	Bypass Road continued during the month.
4	Uchar Bridge	Preparatory works for Uchar Bridge resumed and Continued during the quarter apartimued during the month. Brangeration for
		continued during the month. Preparation for
		slope protection works on Dasu direction started and continued during the month.
		 Preparation for slope protection works on right side pier
		01 of Uchar Bridge suspended during the month.
		Construction of access road on left side pier 02 of Uchar
		Bridge started and continued during the
		month.
5	Barseen Bridge	After backfilling for camp area of Barseen Bridge in Continued during the quarter
-		Kaigah direction construction works started & continued during the month.
		 Barseen Bridge in Kaigah direction Camp construction
		continued during the month. Construction of access
		road for Abutment 02 in Kaigah direction started and
		continued.
6	Uchar Contractor Camp	Construction of camp, workshop and batching plant in Continued during the quarter Uchar continued during the month.
7	Kaigah Contractor Camp	 Backfilling with stone masonry for the retaining wall on Continued during the quarter
		Kaigah Bypass suspended during the month.
		 Construction of camp, workshop and batching plant in
		Kaigah for Dugah tunnel continued during the month.
8	Logro-B Tunnel	 Installation of serial arches and Canopy pipes at outlet Continued during the quarter
		let area of Logro-B during the month started and
		continued.
		 Installation of serial arches and Canopy pipes at outlet
		let area of Logro-B during the month continued.
9	Zero Point	Slope protection works at Zero point third bench and Continued during the quarter
		excavation activities at third bench continued during the
		month.

3.5 Construction Supervision and Environmental Compliances

3.5.1 Site Inspections and WTEIRs

Site visits to the construction areas are conducted daily by the environmental staff to supervise environmental compliance of the construction activities and complete daily monitoring checklists. In addition, Joint Inspections with WAPDA on every Tuesday of the week for one or two contracts of DHPP, Schedule starting from 14th of Feb 2023, walk-through environmental inspections have been conducted at all work sites regularly by the senior environmental staff of DHC and PMU to identify any environmental issues and non-compliance. The issues identified at the construction sites are communicated with the Contractor through Walk-Through Environmental Inspection Reports (WTEIRs). The Contractor has also been instructed to address these issues within a suggested timeframe. The Contractor has rectified these non-compliances and submitted the report with the actions taken. The WTEIRs, consisting of both non-compliances and rectifications, are given in the following tables

Table 3.5: Walk-Through Environmental Inspection Report 40

Report No. E-40

Date of Issuance: 19-01-2023

Sr. No	Date and Location of Inspection	EHS observati ons	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
40.1	19-01-2023 K4 Tunnel Portal	Fuel/ Oil Spills Spillage at slope		Contractor is instructed to replace the soil with clean and fresh soil immediate basis. And use spill kits for oil spill on the site. Dispose off the contaminated soil in a drum. Dispose of the contaminated soil as per SOPs provided in ECP			27-01-2023

Sr. No	Date and Location of Inspection	EHS observati ons	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
40.2	19-01-2023 K4 Tunnel Portal and Camp	Solid waste along the slopes	<image/>	The Contractor is strictly instructed to halt this process and clean the existing mess created along the slopes. The Contractor is instructed to arrange an awareness session with the staff regarding waste management. Provide wastebins at the location.	Immediate	<image/>	27-01-2023

Sr. No	Date and Location of Inspection	EHS observati ons	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
							27-01-2023
40.3	19-01-2023 K4 Camp	Erosion along the slope		The contractor is instructed to arrange proper sanitation system as per the IFC guidelines for construction camps. By arranging proper sanitation system the soil erosion could be stopped. This needs your immediate attention.	Immedia te		27-01-2023

Sr. No	Date and Location of Inspection	EHS observati ons	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
							27-01-2023
40.4	19-01-2023 K4 Tunnel Camp	Untidy Washroo ms		The Contractor is instructed to clean the washrooms and arrange water for flushing otherwise this will of no use at all. A bucket and a mug or Muslim shower should be arranged ASAP.	Immedia te		27-01-2023

Sr. No	Date and Location of Inspection	EHS observati ons	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
							27-01-2023
40.5	19-01-2023 K4 Camp	Oil spill		This issue has so many times been instructed but either there is no capability or well to implement the protocol. The Contractor is instructed to clean the area as per the protocol and report.	Immedia te		27-01-2023

Sr. No	Date and Location of Inspection	EHS observati ons	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
40.6	19-01-2023 K9 camp	Overcro wded accomm odation		Contractor accommodate more than 10 Workers at each room. Contractor is instructed refer to IFC guidelines. Density standards are expressed either in terms of minimal volume per resident or of minimal floor space. Usual standards range from 10 to 12.5 cubic meters (volume) or 4 to 5.5 square meters (surface). If the above condition is met then 2 to 8 persons per room can be accommodated. The Contractor is instructed to increase the rooms and facilitate their workers for good productivity.		Accommodation over crowded issue has been communicated with higher management and waiting for their response to build more rooms	27-01-2023

Sr. No	Date and Location of Inspection	EHS observati ons	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
40.7	19-01-2023 K9	Improper Sludge disposal		The Contractor is instructed to submit the disposal plan of the improperly designed sedimentation tank. Spreading slude this is unacceptable. It should be hauled to the designated site only.	Immedia te		27-01-2023
40.8	19-01-2023 K9	Empty Chemical tanks		The Contractor is instructed to remove the empty chemical drums and send it to the vendor for reuse/refill/recycling.		Contractor is keeping empty chemical (sigunit) drums for temporarily. They are removinf drums following their schedule	

Table 3.6: Walk-Through Environmental Inspection Report 41

Report No. E-41

Date of Issuance: 21-01-2023-

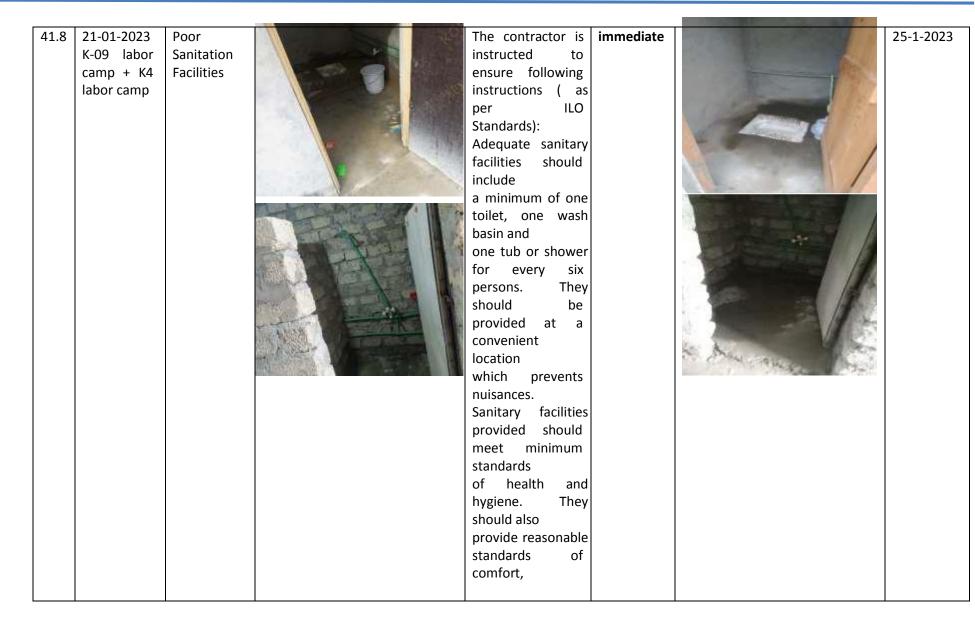
Sr. No	Date and Location of Inspection	Environment observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
41.1	21-01-2023 K-04 Tunnel steel plant slope + office slope	Littering		The Contactor is instructed to place waste bins at the site. collect the solid waste from different place and put them into the bins at the site Furthermore, It is also reminded that training to all staff should be done on regular basis like every fortnightly on waste management.			25-1-2023

41.2	21-01-2023 K-04 Tunnel workshop	Oil spill	The contractor is instructed to remove oil spill from site by replacing contaminated soil with fresh soil and store contaminated soil in a drum temporarily at a storage space with a impermeable base and a boundary wall/ fence.	Immediate	25-1-2023
41.3	21-01-2023 water filling station	Improper disposal of solid waste.	The contractor is instructed to clean the slope and dispose off solid waste at designated dumping site which is approved by "The Engineer". Also impart training to all site staff and start imposing fines if the staff is	Reminder	25-1-2023

			committing non- compliance.	The server of the server	
41.4	21-01-2023 K-09 sedimentati on pound	Improper disposal of sludge and no signage	The contractor is instructed to add fresh water and install sediment traps before the sedimentation pond and install appropriate signage. Ensure disposal of waste water in a form which is compliant to NEQS and the sludge from the sedimentation pond at designated dumping site.		25-1-2023

	ſ	1	and case monorphics		ſ	1	1
41.5		Sub-	UNH/VER	There are 16	immediate	Accommodation over crowded	25-01-2023
	K-09 labor	standard	NAME OF TAXABLE PARTY.	rooms and more		issue has been communicated	
	camp + K4	accommoda	Sector March 1995	than 100 workers		with senior management, we	
	labor camp	tion		are at k4 and at k9		are waiting for their response to	
			A STATE AND A STATE	182 workers and		construct more new rooms	
				20 rooms each			
				room contain 7,8			
				and 10 workers.			
				The rooms are in			
				capable of			
				providing shelter			
				from water during			
				raining season and			
				room is not having			
			STATES AND STATES	a proper roof. The contractor is			
			Shutter	provide proper bedding for each			
				worker i.e., 1 bed			
				for a single			
				labor/staff and a			
				closets in side			
				every room. The			
				rooms should			
				have a proper roof			
				rather than			
				putting CGI sheets			
				which do not stop			
				rain water even.			

41.6	21-01-2023 K-09 labor camp + K4 labor camp	Geyser is not functional	The contractor is instructed to provide hot water for workers. Repair geyser with immediate effect.		25-1-2023
41.7	21-01-2023 K4 labor camp	Untreated water	The contractor is instructed to connect sewage water to septic tank with immediate effect.		25-1-2023



cold fresh runnin	g
water.	
There should b	e
separate sanitar	у
facilities	
provided for mer	
and for women	ı.
Sanitary	
facilities shoul	d
have ventilation t	0
the open	
air, independent	y
of any other pa	rt
accommodation.	
Soap and hygien	c
adequately	
stocked.	
	There should be separate sanitar facilities provided for mer and for womer Sanitary facilities shoul have ventilation t the open air, independent of any other par of th accommodation. Soap and hygieni paper should be adequately

*Note: There is no Mess Hall for workers, No waiters for serve foods, No recreational facilities for workers. At K9 drinking water providing from water sprinkler for workers. Total workers were 182 at the time of inspection. The contractor CCECC rectified most of the non compliances but left only ones which had a construction/procurement aspect involved in it.

Table 3.7: Walk-Through Environmental Inspection Report 42

Report No. E-42

Date of Issuance: 16-02-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
42.1	16-02- 2023 K4	Fuel/ Oil Spills	<image/>	Contractor is instructed to replace the soil with clean and fresh soil immediate basis. And use spill kits for oil spill on the site. Dispose of the toxicities Soil in a drum. Dispose of the contaminated soil as per SOPs provided in ECP Note Submit incident report			20-02-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
42.2	16-02- 2023 K9 Tunnel Portal	Waste at slope	<image/>	Contractor is Instructed to keep the site clean and provide the proper waste bins at all sites. Also impart training for waste management to all site staff.	Immediate		20-02-023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
42.3	16-02- 2023 K4 Camp	Improper drainage		Contractor is instructed to keep proper drainage system at construction site and Camp immediately. Follow ECP's and EMP for addressing Water Supply and Drainage issues.		<image/>	20-02-023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
42.4	16-02- 2023 K4 Tunnel	Open defecation		Contractor is Instructed to construct / place portable Toilets at/ near Tunnel portal immediate.	Immediate		20-02-023

42.5	19-01- 2023 K9 Tunnel	Oil spill		instructed to replace the soil with clean and fresh soil immediate basis. And use spill kits for oil spill on the site. Dispose of the toxicities Soil in a drum. Contractor is instructed to	20-02-023
			The second second	instructed to construct banded area	
			· · · · · · · · · · · · · · · · · · ·	for storage.	

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
42.6	16-02- 2023 K9	Spare parts		Contractor is instructed to remove the spare parts from site and arrange proper area for parts.		<image/>	20-02-023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
42.7	16-02- 2023 K9	Sludge		Instructed the contractor to remove the sludge from site and dump at dumping site and do not throw the sludge at site at Future.			20-02-023
42.8	16-02- 2023 K9	Chemical Tank		Instructed the contractor to remove the chemical tanks from site and replace at proper storage ASAP.		Contractor is keeping diesal in the drums for the purpose of generator fuel on temporarily basis. They are Instructed to remove the tanks from site and replace at proper storage ASAP.	20-02-023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
42.9	16-02- 2023 К4	Dust		Instructed the contractor to ensure the water sprinkling each site on dust.			20-02-023

Table 3.8: Walk-Through Environmental Inspection Report 43

Report No. E-43

Date of Issuance:18-02-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
43.1	18-02- 2023 K-04 tunnel steel plant slope + office slope	Littering		The Contactor is instructed to place waste bins at the site. collect the solid waste from different place and put them into the bins at the site Follow SOP's provided in ECP's.			20-02-023

43.2	18-02- 2023 K-04 generator room	Oil spill	The contractor is instructed to remove oil spill from site by replacing contaminate d soil with fresh soil and store contaminate d soil in a drum temporarily and then transport to the designated site.		20-02-023
43.3	18-02- 2023 K4 labor camp	Poor sewerage system	The contractor is instructed to connect grey water to septic tank immediately		20-02-023

43.4	18-02-	Heavy dust		The	immediate		20-02-023
	2023		LAN DE LA CAL	contractor is			
	K4 road			instructed to		and the second s	
			A A A A A A A A A A A A A A A A A A A	install speed		Market Market	
				limit			
			A STATE OF THE STA	signboards at			
			CERA ILLICASA	different			
				location on			
			A REAL PROPERTY AND A REAL	road and			
				reduce dust			
				emissions by			
			A BARLES	ensuring			
			A REAL PROPERTY AND A REAL	water			
				sprinkling			
				and increase			
				water			
				sprinkling			
				frequency on			
				dirt roads.			

Table 3.9: Walk-Through Environmental Inspection Report 44

Report No. E-44

Date of Issuance: 24 -02-2023

Sr. No	Date and Location of Inspectio n	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completio n Date
44. 1	23 -02- 2023 Kaigah Tunnel	Fuel/ Oil Spills		Contractor is instructed to replace the soil with clean and fresh soil immediate basis. And use spill kits for oil spill on the site. Dispose of the toxicities Soil in a drum. Dispose of the contaminated soil as per SOPs provided in ECP	Immediate		





44. 2	23-02- 2023 Kaigah Tunnel Portal	Waste, Littering	Instructed the contractor to keep clean the site and provide the proper waste bins at all sites.		

44. 3	23-02- 2023 Kaigah Tunnel Portal	Nominal Washroom for more than 35 Workers	Contractor is instructed to construct the Washrooms for worker at camp and Site as well. No washroom at camp and camp. Workers doing open defecation at site which is prohibited.++	Immediate	

44.	23-02- 2023 Kaigah Tunnel Portal	Unhygienic Kitchen as well living room	Contractor is instructed to construct a Separate kitchen and maintain clean and hygienic	ASAP	

44. 5	23-02- 2023 Kaigah Tunnel Portal	Improper placement of drums	Instructed the contractor to remove the Oil drums from site and replace at proper storage ASAP.	Immediate	

			<image/>			
44. 6	23-02- 2023 Kaigah Tunnel Portal	Unsafe Drinking Water	Juine Juine Juine Juine	Instructed the contractor to Provide safe drinking water for workers ASAP.		

Table 3.10: Walk-Through Environmental Inspection Report 45

Date of Issuance: 25 -03-2023

Report No. E-45

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
45.1	25-03-2023 K4	Fuel/ Oil Spills		Contractor is instructed to replace the soil with clean and fresh soil immediate basis. And use spill kits for oil spill on the site. Dispose of the toxicities Soil in a drum. Dispose of the contaminated soil as per SOPs provided in ECP	Immediate	The oil spills were removed from the sites and disposed of the contaminated soil replace with fresh soils.	27-03-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
45.2	25-02-2023 K4 Tunnel Portal	Waste, Littering		Instructed the contractor to keep clean the site and provide the proper waste bins at all sites.	Immedia te	The sites have cleaned and waste bins provided at different locations at site.	27-03-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
45.3	25-03-2023 K4 Tunnel Portal	Oil storage		Contractor is instructed to construct the banded platform for Oil storage.	Immediate	Constructed the bund and platform for Oil storage	27-03-2023
45.4	25-03-2023 K9 Tunnel Portal	Open Burning		Instructed the contractor to stop Wood burning at site.	ASAP	The spot has been cleaned and instructed to all labours to avoid wood burning at working sites.	27-03-2023

Sr. No	Date and Location of Inspection	EHS observations	Pic ture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
44.5	23-02-2023 K9 Tunnel Portal	Improper placement of Chemical Tanks		Instructed the contractor to remove the Chemical Tanks from site and replace at proper storage ASAP. Need to construct proper platform for Empty tanks.	Immediate	The empty Chemical Tanks removed from the site Tank is keeping to fill water for construction purpose temporarily. So, label pasted on the tank	27-03-2023
45.6	25-03-2023 K9 Tunnel Portal	Chemical Spill		Contractor is instructed to replace the soil with clean and fresh soil immediate basis. And use spill kits for oil spill on the site. Dispose of the toxicities Soil in a drum. Dispose of the contaminated soil as per SOPs provided in ECP	ASAP	The chemical were removed and treated by fresh soill on the site.	27-03-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
45.7	5-03-2023 K9 Tunnel Portal	Oil spills		Contractor is instructed to replace the soil with clean and fresh soil immediate basis. And use spill kits for oil spill on the site. Dispose of the toxicities Soil in a drum. Dispose of the contaminated soil as per SOPs provided in ECP Construct a banded fuel oil storage at site and store properly.	ASAP	The oil spillage was removed and replace with de an and fresh soil on the site.	27-03-2023

Table 3.11:	Walk-Through Environmental Inspection Report 46
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Report No. E-46

Date of Issuance: 31 -03-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
46. 1	31 -03- 2023 Logro Tunnel B	Fuel/ Oil Spills	RIRAS ROY200 OCCUPACIÓN DE CONTRACTOR ON	Contractor is instructed to replace the soil with clean and fresh soil immediate basis. And use spill kits for oil spill on the site. Dispose of the toxicities Soil in a drum. Dispose of the contaminated soil as per SOPs provided in ECP	Immediate		

46. 2	31 -03- 2023 Logro Tunnel B	Waste, Littering	Instructed the contractor to keep clean the site and provide the proper waste bins at all sites.	Immediate	

51 MAR 2023, 0030		

			ALMAR 2022 032			
46. 3	31 -03- 2023 Logro Tunnel B	Oil Drums and Chemical tanks storage	Atter202, 0912	Instructed the contractor to remove the Chemical Tanks and Oil drums from site and replace at proper storage ASAP. Need to construct proper platform for Empty tanks.	Immediate	

51-Mar-2027, 09:51		
E CREAS EC (Y201) E O CONTRACTOR O CONTRAC		

46. 4	31 -03- 2023 Logro Tunnel B	Inadequate Housekeepin g	Instructed the contractor to maintain good housekeeping .		

3.5.2 Notices and Letters

Total sixteen No. of Letters were issued to the KKH-01 Contractor in additon to the issuance of 7 WTEIRs by the Engineer during the reporting quarter from Jan –March 2023.

3.5.3 Quarterly Monitoring of Air, Noise, Water and Wastewater

During the quarter the scope of the work was i.e., breast wall construction, K4, K3, K8 working camps establishment work as well as K3, K4, K9, Logro-B, Uchar and Dugah, Tunnels, Uchar, Uchar and Barseen bridges was going on etc. The KKH-01 has balance quantities for Environmental monitoring which will be utilized once the construction works starts momentum.

3.6 Contractor's Effect Monitoring

The monitoring requirements of the Contractor as per the bidding documents are given in the following table. The Engineer's observation of the monitoring status is also given in the last column of this table.

Sr. No.	Parameter	Location	Means Monitoring	Frequency	Status
1		areas in EIA	stability of landslides	Fortnightly	Most of the identified landslides will be triggered Once the reservoir impounding is started. However, the construction related landslides are Supervised by DHC Geology team during the reporting quarter. Slope stabilization works were in place during the quarter
2		material storage sites	Visual inspection of erosion prevention measures and occurrence of erosion		Quarterly monitored visually. No occurrence was recorded during the quarter.
3	quality	at the Downstream of the construction sites. The locations of sampling can be same locations of baseline water quality or new locations recommended by the CSC.	key parameters given in NEQS (river water quality		Not done due to the current limited scope of work. If the Work pace is enhanced in next quarter then it might re start again.
4	(dust, smoke)	areas along KKH and blasting areas	Visual inspection to ensure good standard equipment is in use and dust suppression measures (spraying of waters) are in place.		Weekly visual inspections were carried out during the Quarter and instructions were given to contractor for compliance. The Contractor was strictly instructed to Increase water sprinkling frequency. The dust is under control. In this regard a Real time Whats App group is also established to quickly communicate with contractor if any non- compliance is noted
5	(PM10, NO2, SO2, CO2, CO)	and settlements at the close to the construction works and along KKH. The locations of sampling can be same locations of baseline air quality or new locations recommended by the CSC.			Not done due to the current limited scope of work
6	plant	At all the construction sites for dam, KKH and tunnels	Visual Inspection	Quarterly	Quarterly visual inspections were carried out during the quarter and no issue was observed.
7	Noise and vibration	Near the sensitive sites and settlements at the close to the construction		Quarterly	Not done due to the current limited scope of work

 Table 3.11:
 Status of Contractor's Effect Monitoring

		works and along KKH. The			
		locations of sampling can be same locations of baseline air quality or new			
		locations recommended by the CSC			
8	Waste Management		Visual inspection on spoil disposal in accordance with EMP Sub plan on Waste Management	-	The Contractor is disposing the spoil in the designated spoil dumping site at Khoshe and is also transporting the spoil to the crushing plant at Uchar as a raw material for aggregate
9	Construction camps and construction management		Visual inspection that solid waste is disposed of at designated site		Quarterly monitoring was carried out. The Contractor is temporarily storing the waste at the camp. The Organic waste is dumped in a pit at Uchar and covered with soil. This temporary practice is adopted due to non-availability of landfill site. Whereas the reusable and recyclable material are sent to local vendors.
10	Spills from Hydrocarbon	Material storage sites and construction yards	Visual Inspection for leaks and spills	Quarterly	Quarterly monitoring was carried out. The spills were recorded during the quarter were communicated to the contractor through the walkthrough environmental inspection reports.
11	Traffic Safety		whether Traffic Management Plan (EMP Sub Plan 12) is implemented		Supervised by OHS
12	Local Roads		Visual inspection to ensure local roads are not damaged		This aspect was also monitored on Quarterly basis. No damage was observed to the local roads
13	archeological Sites		implementation of EMP Sub Plan 13 on Physical Cultural Resources Management		The contractor kept in consideration this aspect during the excavation activities. There was no archeological site present in the current construction area.
14	Drinking water and sanitation		Ensure the construction workers are provided with safe water and sanitation facilities on the site		Weekly monitored. The contractor provided water coolers to the workers at the sites.

3.7 Key Performance Indicators

The key performance indicators identified in the ESA⁴ of DHP to mitigate the environmental impacts and risks during construction can be summarized into five categories, as shown in the following table.

Table 5.12: Ney Performance indicators for compliance with mitigation measures	Table 3.12:	Key Performance Indicators for compliance with mitigation measures
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Sr. No	Key Performance Indicator	Description of the Indicator
	Number of any non-compliance reports	The number of non-compliances noticed and reported to the Contractor.
2	grievances	The number of complaints or grievances received from the communities on the construction- related nuisances such as traffic, dust, noise and vibration, or any other construction-related activities
3		The number of accidents or incidents, or near misses involving construction activities and construction vehicles
		The number of parameters in ambient air and noise quality, drinking water, wastewater discharges and surface waters found beyond the national standards.
5		Any other indicators that are not covered in the above categories are given in 'other indicators.' This includes the number of times chance finds are noticed, the number of trainings conducted, etc.

A detailed assessment of the status of compliance with the performance indicators and their status during the reporting period is given in the following table. Any indicators related to OHS

⁴ See Table 8.2: Mitigation Plan for Construction Stage of ESA of Dasu Hydropower Project

and social aspects are covered in the relevant reports, not in this report.

Activity	Environmental Impact/Issue	Number of any non- compliance reports	Number of related incidents	Number of related grievances	Exceeding in values against NEQS (air, noise, water, etc.)	Other Indicators	Remarks
1. Contractor Mobilization and	d3.1 Traffic Management	Nil					Contractor traffic management plan
Demobilization							implemented
	3.2 Soil Erosion and	Nil					
	Contamination	N 111					
	3.3 Air Quality	Nil					
	3.4 Noise	Nil					
	3.5 Public Safety	Nil					
	3.6 Damage to Infrastructure	Nil					
4. Contractor's Camp	4.1 Soil and Water						2 Incident of minor spill reported to
	Contamination	N 111					Contractor which was rectified
	4.2 Air Quality	Nil					
	4.3 Vegetation loss	Nil				Number of trees felled: 0	
	4.4 Noise	Nil					
	4.5 Health and Safety						Covered under OHS Report
	4.6 Social and Gender Issues						Covered under social report
	4.7 Damage to PCRs	Nil				Number of chance finds: 0	
	4.7 Increased load on local services						Covered under social report
5. Transportation of Equipment	5.1 Traffic Management						
	5.2 Soil Erosion and Contamination	Nil					
	5.3 Air Quality	Nil					
	5.4 Noise	Nil					
	5.5 Public Safety	Nil				Number of trainings provided:	Covered under OHS Report
	5.6 Damage to infrastructure	Nil					
7. KKH Construction	7.1 Changes to topography						
	7.2 Landslides	Nil					
	7.3 Soil erosion						
	7.4 Soil and water contamination	Nil					
	7.5 Air Quality	Nil			3		Fugitive dust issues were monitored and raised in the What's app group as well as in WTEIR were issued to the contractor and rectified by the contractor and provided above
	7.6 Health and Safety						Covered under OHS
	7.7 Noise and Vibration	Nil					
	7.7 Landscape and Visual Intrusion	Nil					
	7.8 Vegetation loss	Nil					Not reported during the quarter
	7.9 Fauna / Wildlife	Nil					Not reported during the quarter
	7.10 Mortality of Fish	Nil					Not reported during the quarter

 Table 3.13:
 Key Performance Indicators and their Status during the reporting period

	7.12 Damage to infrastructure	Nil		Not reported during the quarter
	7.13 Damage to PCRs	Nil		Not reported during the quarter
	7.14 Disturbance of Visual	Nil		Nil
	Landscape and Natural			
	Habitats			
	7.15 Social conflict due to the Influx	of		Covered under Social report
	Workers and In- migrants			
	7.16 Conflicts due to cultural			Covered under Social report
	inappropriate behaviors by th workers	e		
	7.17 Adverse Effects on Health			
	Situation			
	7.17 Increased Load on Local			
	Services and Supplies			
7. Quarry Operation	7.1 Changes to topography			No quarry operation has starte
	7.2 Landslide			The excavated rock
	7.3 Soil erosion			is used as a raw material f aggregate.
	7.4 Soil and water contamination			
	7.5 Air Quality			
	7.6 Health and Safety			
	7.7 Noise and Vibration			
	7.7 Landscape and Visual			
	Intrusion			
	7.8 Vegetation loss			
	7.9 Fauna / Wildlife			
	7.10 Damage to infrastructure			
8. Spoil Area	7.12 Damage to PCRs	Nil		
Management	8.1 Changes to topography 8.2 Landslide	INII		
Management	8.3 Soil erosion			
	8.4 Air Quality			
	8.5 Landscape and Visual			
	Intrusion			
	8.6 Vegetation loss			
12. Waste Management	12.1 Soil and water contamination		6	6 incidences of Waste manageme
	12.2 Odor			which were reported in WTEIR b
	12.3 Solid Waste Management			The Engineer and rectified by the
	g			contractor.

3.8 Non-conformance report (NCR) issued in this Quarter

During the quarter the no NCRs were issued for the non-compliances observed at site.

3.9 Overall Compliance Status – Tri-Partite Monthly Meetings

During the quarter, three monthly meetings were held with the Contractor by the Engineer and PMU to discuss pending environmental non-compliance and the actions taken by the Contractor to address these issues. The minutes of these meetings are shown in Annexure. The following were the major issues discussed during the meetings:

- Ensure water sprinkling at Khoshe access Road, Dugah Tunnel, Logro B Tunnel Area and BArseen Access Road to Barseen Bridge Site, Shaal Area, Kaigah By Pass Area
- Ensure solid waste management
- Oil spillages removal
- Proper disposal of used oils and other chemical by hiring a registered Vendor for collection of discarded materials.

4 RAR-01 Contract

4.1 Overview of Contracts

A brief overview of the RAR-01 contract is given in Table 4.1. The RAR-01 contract works are related to the construction of 12 km of road from Komila town up to the dam site.

Table 4.1:	Overview of RAR-01 Contract
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Sr. No.	Item	Data
1	Contract Number	ICB No. Dasu-RAR-01
2	Contractor Name	Right Bank Access Road RD0+000 to RD 12+000
3	Contractor	China Civil Engineering Construction Corporation (CCECC)
4	Commencement Date	March 16, 2015
5	Contract Completion Date	Aug 22, 2016
6	Updated Completion Date	August 31, 2022

4.2 Contractor Environmental Action Plan

The Contractor has submitted the Contractor Environmental Action Plan (CEAP) with the sitespecific management plans to address the environmental impacts and risks of the construction activities. In addition, the Contractor has also prepared an Occupational Health and Safety Management Plan (OHSMP), and details of these plans are not covered in this report.

4.3 Contractor's Facilities and ESHS Staff

The facilities established by the Contractor, such as workers' camps and construction yards, are given in Table 4.2. The Environmental Social Health and Safety (ESHS) Staff of the Contractor are given in Table 4.3.

Sr. No.	Facility	Location	Details	Remarks
Α.	Worker's Camps			
1	Chinese Workers Camp	Zaal	Jan#20, Feb#20 and Mar #22	
2	Pakistan Workers Camps	Zaal	Jan#105, Feb# 138 and Mar #129	
В.	Crushing/Batching Plants			
1	Crushing Plant	Kass	The crushing plant has now been removed	
2	Batching plant	Kass	The Batching plant will be removed as the road work has almost been completed	1
C.	Other Facilities			
1	Construction Yard			
2	Explosive Magazine	Kass	20 Ton capacity	

Table 4.2:Contractor's Facilities

Table 4.3: Contractor's ESHS Staff

Sr. No.	Position	RAR-01 Contract	Remarks
1	Manager EHS	Junaid Gillani	
2	Environmental Officer	Vacant	
3	Environmental Supervisor	Kifayatullah	

4.4 Construction Activities

Details of construction activities conducted during the reporting period are shown in Table 4.4.

 Table 4.4:
 Construction Activities in RAR-01 Contract

Sr. No.	Work Site	Details of Works	Remarks
1	K0+400 to K0+ 600, K0+700 & K0+850 K11+200, K1+252, K1+272, K1+350, K1+ 750, K1+500	 Slope cutting from catch point around K0+400 to K0+600 in progress. Sub grade preparation i.e. levelling etc from K1+500 to K1+750 in progress. Breast wall stone masonry around k0+700 to K0+850 in progress. Stone masonry parapet wall around K11+200 at RAR-01 in progress. Stone masonry retaining walls around K1+252 and K1+272 in progress and completed. Embankment filling in Nullah for causeway around K1+350 in progress. Toe wall protection in nullah at K1+350 and stone masonry rip rap in progress and completed. 	
2	Miscellaneous	 Concrete for causeway cutoff wall & slab (R/S) in progress and completed. Granular & stone dust backfilling behind the completed R/walls in progress. Granular backfilling at causeway rip rap area in progress. 	1 3 4 4

4.5 Construction Supervision and Environmental Compliances

4.5.1 Site Inspections and WTEIRs

Site visits to the construction areas are conducted daily by the environmental staff to supervise environmental compliance of the construction activities and complete daily monitoring checklists. In addition, Joint Inspections with WAPDA on every Tuesday of the week for one or two contracts of DHPP, Schedule starting from 14th of Feb 2023, walk-through environmental inspections have been conducted at all work sites regularly by the senior environmental staff of DHC and PMU to identify any environmental issues and non-compliance. The issues identified at the construction sites are communicated with the Contractor through Walk-Through Environmental Inspection Reports (WTEIRs). The Contractor has also been instructed to address these issues within a suggested timeframe. The Contractor has rectified these mistakes and submitted the report with the actions taken. The WTEIRs, consisting of both non-compliances and rectifications, are given in the following tables.

Table 4.5: Walk-Through Inspection Report 18

Report No. E-18

Date of Issuance: 26-01-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
18.1	26-01-2023 Zaal Camp (Chinese Side)	Oil spill		The contractor is instructed to remove the spill by replacing with fresh soil and soil After that dispose of the toxicity as per ECPs and SOPs.	Immediate		

Dasu Hydropower Project Environmental Quarterly Progress Report No. 33 (Jan to March 2023)

18.2	26-01-2023 zal pakistani camp	Littering	The contractor is instructed to increase waste bins in camp and dispose off littered materials in those waste bins as per SOP's provided in ECP's. Contractor is instructed to conduct refresher training sessions for all labor and staff on Waste Management.	Immediate	
18.3	26-01-2023 zal pakistani camp	Poor hygienic condition	The contractor is instructed to paste a daily cleaning checklist on toilets and ensure cleaning twice a day on daily basis. Disinfect the toilets at least once a week.	Immediate	

18.4	26-01-2023 Zaal Camp	Fuel wood		The contractor is instructed to remove fuel woods and close all wood burning spots with immediate effect, because every kind of wood burning is strictly prohibited.	Immediate		
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4.5.2 Notices and Letters

Two letters have been issued to the contractor during the reporting quarter other than WTEIR issued by the "Engineer" during the reporting Period from Jan-Mar 2023.

4.5.3 Quarterly Monitoring of Air, Noise, Water and Wastewater

No quarterly environmental monitoring was conducted during the quarter

4.5.4 NCR's Issued in this Quarter

No NCR is issued in this quarter for RAR-01 Contract.

4.6 Contractor's Effect Monitoring

The monitoring requirements of the Contractor as per the bidding documents are given in the following table. The Engineer's observation of the monitoring status is also given in the last column of this table.

Sr.	Parameter	Location		Frequency	Status
Sr. No.				requency	
1			Visual Inspection on stability of landslides	Fortnightly	Most of the identified landslides will be triggered once the reservoir impounding is started. However, the construction related landslides are supervised by DHC Geology team during the reporting quarter.
		5	Visual inspection of erosion prevention measures and occurrence of erosion		Quarterly monitored visually. No occurrence was recorded during the quarter.
	water quality	locations of sampling can be same locations of baseline water quality or new locations recommended by the CSC.	river water quality and wastewater discharges for the key parameters given in NEQS (river water quality – DO, BOD, COD, Temperature, pH, Conductivity, TSS, turbidity, nitrate, Wastewater – BOD, grease and oil, iron, ammonia, sulfates, chlorides)		Not done due to the current limited scope of work. If the work pace is enhanced in next quarter then it might re start again.
	(dust, smoke)	blasting areas	Visual inspection to ensure good standard equipment is in use and dust suppression measures (spraying of waters) are in place.	,	Weekly visual inspections were carried out during the quarter and instructions were given to contractor for compliance. The Contractor was strictly instructed to increase water sprinkling frequency. The dust is under control. In this regard a Real time WhatsApp group is also established to quickly communicate with contractor if any non-compliance is noted
	(PM10, ÑO ₂ , SO ₂ , CO ₂ , CO)	Near the sensitive sites and settlements at the close to the construction works and along KKH. The locations of sampling can be same locations of baseline air quality or new locations recommended by the CSC.	24 hours for the parameters specified in NEQS 2000	Quarterly	Not done due to the current limited scope of work
		At all the construction sites for dam, KKH and tunnels	Visual Inspection	Quarterly	Quarterly visual inspections were carried out during the quarter and no issue was observed.
7	Noise and vibration	Near the sensitive sites and settlements at the close to the construction works and along KKH. The locations of sampling can be same locations of baseline air quality or new locations recommended by the CSC		Quarterly	Not done due to the current limited scope of work
		At the designated rock disposal area	Visual inspection on spoil disposal in accordance with EMP Sub plan on	Quarterly	The Contractor is disposing the spoil in the designated spoil dumping site at Kass area

 Table 4.6:
 Status of Contractor's Effect Monitoring

			Waste Management		
8	Construction camps and		Visual inspection that solid waste is disposed of at	Quarterly	Quarterly monitoring was carried out. The Contractor is temporarily storing the waste at the
	construction		designated site		camp. The Organic waste is
	management				dumped in a pit at Uchar and covered with soil.
	management				This temporary practice is adopted due to non-
					availability of landfill site.
					Whereas the reusable and recyclable
					material are sent to local vendors.
9	Spills from	Material storage sites and	Visual Inspection for leaks	Quarterly	Quarterly monitoring was carried out. The
			and spills		spills were recorded during the quarter were
	-	2			communicated to the contractor through the
					walkthrough environmental inspection reports.
10		Along KKH and access		Quarterly	Supervised by OHS
		roads to the construction			
			Management Plan (EMP		
			Sub Plan 12) is		
10			implemented	0 1 1	
12	Local Roads	Approach Roads	Visual inspection to ensure	-	This aspect was also monitored on
			local roads are not		Quarterly basis. No damage was observed to the local roads
13	Cultural and		damaged Visual observation on	Quarterly	The contractor kept in consideration this
15			implementation of EMP Sub		aspect during the excavation activities. There
			Plan 13 on Physical Cultural		was no archeological site present in the current
	Ones		Resources Management		construction area.
14	Drinking		Ensure the construction	Weekly	Weekly monitored. The contractor
	•		workers are provided with		provided water coolers to the workers at the
1	sanitation		safe water and sanitation		sites.
			facilities on the site		

4.7 Key Performance Indicators

The key performance indicators identified in the ESA⁵ of DHP to mitigate the environmental impacts and risks during construction can be summarized into five categories, as shown in the following table.

Table 4.7:	Key Performance Indicators for compliance with mitigation measures
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Sr. No	Key Performance Indicator	Description of the Indicator
1	Number of any non-compliance reports	The number of non-compliances noticed and reported to the Contractor.
2	Number of public complaints or	The number of complaints or grievances received from the communities on the
	grievances	construction-related nuisances such as traffic, dust, noise and vibration, or any other
		construction-related activities
3	Number of accidents/incidents	The number of accidents or incidents, or near misses involving construction activities and
		construction vehicles
4	Number of parameters exceeding	The number of parameters in ambient air and noise quality, drinking water,
	over NEQS	Waste water discharges and surface waters found beyond the national standards.
5	Other Indicators	Any other indicators that are not covered in the above categories are given in 'other
		indicators.' This includes the number of times chance finds are noticed, the number
		of trainings conducted, etc.

A detailed assessment of the status of compliance with the performance indicators and their status during the reporting period is given in the following table. Any indicators related to OHS and social aspects are covered in the relevant reports, not in this report.

⁵ See Table 8.2: Mitigation Plan for Construction Stage of ESA of Dasu Hydropower Project

Activity	Environmental Impact/Issue		Number of any non- compliance reports	Number related incidents	ofNumber of related grievances	Exceeding Parameters aga Standards (air, noise, wa etc.)	ainst ter, Other Indicators
Remar							
3. 1. Design/Pre- Construction Stage							Not relevant
3. Contractor Mobilization and Demobilization	3.1 Traffic Management	Nil					
	3.2 Soil Erosion and Contamination	Nil					
	3.3 Air Quality	Nil					
	3.4 Noise	Nil					
	3.5 Public Safety	Nil					
	3.6 Damage to Infrastructure	Nil					
4. Contractor's Camp	4.1 Soil and Water Contamination	Nil					
	4.2 Air Quality	Nil					
	4.3 Vegetation loss	Nil				Number of trees felled: 0	
	4.4 Noise	Nil					
	4.5 Health and Safety	Nil					Covered under OHS Report
	4.6 Social and Gender Issues	Nil					Covered under social report
	4.7 Damage to PCRs	Nil				Number of chance finds: 0	
	4.7 Increased load on local services	Nil					Covered under social report
5. Transportation of Equipment	5.1 Traffic Management	Nil					
	5.2 Soil Erosion and Contamination						No issue reported in this quarter
	5.3 Air Quality						No issue reported in this quarter
	5.4 Noise	Nil					No issue reported in this quarter
	5.5 Public Safety					Number of training provided:	gsNo issue reported in this quarter
	5.6 Damage to infrastructure						
7. RAR-01 Construction	7.1 Changes to topography						
	7.2 Landslides						
	7.3 Soil erosion						
	7.4 Soil and water contamination		2				No issue reported in this quarter
	7.5 Air Quality						No issue reported in this quarter
	7.6 Health and Safety						Covered under OHS Report
	7.7 Noise and Vibration						Covered under OHS Report
	7.7 Landscape and Visual Intrusion						
	7.8 Vegetation loss					Number of trees felled: 0	No issue reported in this quarter
	7.9 Fauna / Wildlife						No issue reported in this quarter
	7.10 Mortality of Fish	Nil					No issue reported in this quarter
	7.12 Damage to infrastructure	Nil					No issue reported in this quarter
	7.13 Damage to PCRs	Nil					No issue reported in this quarter

Table 4.8: Key Performance Indicators and their Status during the reporting period

	7.14 Disturbance of Visual Landscape and Natural Habitats	Nil			No issue reported in this quarter
	7.15 Social conflict due to the Influx of Workers and In-migrants				Covered under Social section report
	7.16 Conflicts due to culturally inappropriate behaviors by the workers				Covered under Social section report
	7.17 Adverse Effects on Health Situation	Nil			Covered under Social section report
	7.17 Increased Load on Local Services and Supplies				
8. Spoil Area Management	8.1 Changes to topography 8.2 Landslide 8.3 Soil erosion 8.4 Air Quality 8.5 Landscape and Visual Intrusion 8.6 Vegetation loss	Nil	2		Fugitive Dust (one Time) due to Improper Spoil Disposal
12. Waste Management	12.1 Soil and water contamination 12.2 Odor	Nil			

4.8 Overall Compliance Status – Tri-Partite monthly Meetings

During the quarter, three monthly meetings were held with the Contractor by the Engineer and PMU to discuss pending environmental non-compliance and the actions taken by the Contractor to address these issues. The minutes of these meetings are shown in Annexure. The major environmental issues discussed during the meetings were:

- Solid waste management procedures to be reported in MPR
- Oil spillage removal at zaal Camp (Chinese Side of Zaal Camp)
- Bunding and canopies for Genrator
- Fugitive Dust Emmission from Bypass Construction
- Proper disposal of spoil disposal

5 TL-01 Contract

5.1 Overview of Contracts

A brief overview of the TL-01 contract is given in Table 5.1. The TL-01 contract works are related to the construction of transmission line from Pattan up to Chuchang and a Grid station at Kuz Chuchang.

Sr. No.	ltem	Data
1	Contract Number	ICB No. Dasu-TL-01
2	Contract Name	Procurement, Design, Supply, Installation, Testing and Commission of 132KV Single Circuit Transmission Line and Grid Station (From 132KV Switchyard Dubair Khwar to Proposed 132 KV Grid Station Dasu)
3	Contractor	Power China Corporation of China Ltd (PCCL)
4	Commencement Date	November 02, 2015
5	Contract Completion Date	June 18, 2016
6	Updated Completion Date	November 18, 2022

 Table 5.1:
 Overview of TL-01 Contract

5.2 Contractor Environmental Action Plan

The Contractor has submitted the Contractor Environmental Action Plan (CEAP) with the sitespecific management plans to address the environmental impacts and risks of the construction activities. In addition, the Contractor has also prepared an Occupational Health and Safety Management Plan (OHSMP), and details of these plans are not covered in this report.

5.3 Contractor's Facilities and ESHS Staff

The facilities established by the Contractor, such as workers' camps and construction yards, are given in Table 5.2. The Environmental Social Health and Safety (ESHS) Staff of the Contractor are given in Table 5.3.

Sr. No.	Facility	Location	Details	Remarks			
Α.	Worker's Camps						
1	Chinese Workers Camp	Dasu	Jan # 2, Feb # 2, March # 5				
2	Pakistan Workers Camps	Dasu	Jan # 41, Feb # 49, March # 35				
В.	Crushing/Batching Plants						
1	Crushing Plant	Nil					
2	Batching plant	Nil					
C.	Other Facilities						
1	Construction Yard						
	Explosive Magazine	Dubair, lower kohis	tan The explosives are purchased from a licensed supplier at Dubair	t			

Table 5.2: Contractor's Facilities

 Table 5.3:
 Contractor's ESHS Staff

Sr. No.	Position	TL-01 Contract	Remarks
1	Manager EHS	Mr. Waleed	
2	Environmental Supervisor	vacant	

5.4 Construction Activities

Details of construction activities conducted during the reporting period are shown in Table 5.4.

Sr. No.	Work Site	Details of Works	Remarks	
1		Foundation work for Gantries at Grid Station is completed Excavation/cutting of access road to Grid Station is in progress	In progress	
2	Access road	Breast wall at Alignment-1 of access road is in progress.	In progress	
3	Switchyard	Fencing work of switchyard is in progress.	In progress	

 Table 5.4:
 Construction Activities in TL-01 Contract

5.5 Construction Supervision and Environmental Compliances

5.5.1 Site Inspections and Rectifications

Site visits to the construction areas are conducted daily by the environmental staff to supervise environmental compliance of the construction activities and complete daily monitoring checklists.

The active site work was mainly restricted to the grid station with no major environmental noncompliances during this quarter. The small scale environmental non compliances are being referred to the contractor directly conveyed to the relevant staff on the site, others are conveyed to the contractor via what's app group which is more effective method for rectification of site issues. The contractor has rectified these mistakes and submitted the report with the corrective actions taken. Although the rectification was done at site, but the reports were not submitted to the Engineer due to non-hiring of the environmental manager. No WTEIR is issued in the reporting period.

5.5.2 Notices and Letters

Four number of letters were issued to the contractor by the Engineer during the reporting period from Jan-Mar 2023.

5.5.3 Non-confromance Report issued in this quarter

No NCRs was issued to the contractor during the reporting quarter from Jan-Mar 2023.

5.6 Contractor's Effect Monitoring

The monitoring requirements of the Contractor as per the bidding documents are given in the following table. The Engineer's observation of the monitoring status is also given in the last column of this table.

Sr. No.	Parameter	Location	Means Monitoring	Frequency	Status
1	Landslides	37 identified landslide	Visual Inspection on	Fortnightly	NA
	Lanushues		stability of landslides	roranginay	
2	Erosion		Visual inspection of	Quarterly	Quarterly visual inspection done.
_			erosion prevention measures		No incident was recorded during the
		5	and occurrence of erosion		quarter.
3	Surface	In the rivers and	Sampling and analysis of	Quarterly	ŇA
	water quality		river water quality and		
			wastewater discharges for the		
			key parameters given in NEQS		
			(river water quality – DO, BOD,		
			COD, Temperature, pH,		
			Conductivity, TSS, turbidity,		
			nitrate, Wastewater – BOD. TSS, turbidity, TDS, COD,		
			grease and oil, iron, ammonia,		
			sulfates, chlorides)		
4	Air Quality		Visual inspection to ensure	Weekly	Weekly visual inspections were
			good standard equipment	,	carried out during the guarter at
	(· · ·)	KKH and blasting areas	is in use and dust suppression		the Grid Station and instructions
		_	measures		were given to contractor for
			(spraying of waters) are in		compliance. The Contractor
			place.		was strictly instructed to increase
					water sprinkling frequency. The dust
					is under control.
5	Air Quality		Air quality monitoring for 24 hours for the parameters	Quarterly	N.A
	(PM10, NO2, SO2, CO2, CO)		specified in NEQS 2000		
	302, 002, 00)	construction works	specified in NEQS 2000		
		and along KKH. The			
		locations of sampling can			
		be same locations of			
		baseline air quality or new			
		locations recommended			
		by the CSC.			
6			Visual Inspection	Quarterly	Quarterly visual inspections
		sites for dam, KKH			were carried out during the quarter
		and tunnels			and no issue was observed.
7	Noise and		24-hour noise monitoring	Quarterly	NA
	vibration	sites and settlements at			
		the close to the construction works and			
		along KKH. The locations of sampling			
		can be same locations of			
		baseline air quality or new			
		locations recommended			
		by the CSC			
8	Waste		Visual inspection on spoil	Quarterly	Small scaled project do not produce

Table 5.6: Status of Contractor's Effect Monitoring

	Management		disposal in accordance with EMP Sub plan on Waste Management		large amount of Waste and if produced then Spoil is being dumped at the Khoshe disposal site
9	Construction camps and construction management		Visual inspection that solid waste is disposed of at designated site	Quarterly	Quarterly visual inspection was carried out. The Contractor is temporarily storing the waste at the camp. The Contractor is disposing the spoil in the waste bins of Local government at Komila bazar. This temporary practice is adopted due to non- availability of landfill site. Whereas the reusable and recyclable material are sent to local vendors.
10			Visual Inspection for leaks and spills	Quarterly	Quarterly visual inspection was carried out during the quarter.
11	Traffic Safety	Along KKH and access roads to the construction areas	Visual inspection to see whether Traffic Management Plan (EMP Sub Plan 12) is implemented		Supervised by OHS
12	Local Roads	Approach Roads	Visual inspection to ensure local roads are not damaged	Quarterly	Quarterly visual inspection was carried out and no damage was observed to the local roads
. –	archeological	cultural resources identified in the EIA	Visual observation on implementation of EMP Sub Plan 13 on Physical Cultural Resources Management		The contractor kept in Consideration this aspect during the excavation activities. There was no archeological site present in the current construction area.
14	3	and construction camps	Ensure the construction workers are provided with safe water and sanitation facilities on the site		Monitored. The contractor Provided water coolers to the workers at the sites.

5.7 Key Performance Indicators

The key performance indicators identified in the ESA⁶ of DHP to mitigate the environmental impacts and risks during construction can be summarized into five categories, as shown in the following table.

Table 5.7:	Key Performance Indicators for compliance with mitigation measures
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Sr. No	Key Performance Indicator	Description of the Indicator
	Number of any non-compliance	The number of non-compliances noticed and reported to the
1	reports	Contractor.
		The number of complaints or grievances received from the communities on the
	grievances	construction-related nuisances such as traffic, dust, noise and vibration, or any other
2		construction-related activities
	Number of accidents/incidents	The number of accidents or incidents, or near misses involving construction activities and
3		construction vehicles
4		The number of parameters in ambient air and noise quality, drinking water, wastewater discharges and surface waters found beyond the national standards.
•	values.	
		Any other indicators that are not covered in the above categories are given in 'other
5.		indicators.' This includes the number of times
		chance finds are noticed, the number of trainings conducted, etc.

A detailed assessment of the status of compliance with the performance indicators and their status during the reporting period is given in the following table. Any indicators related to OHS and social aspects are covered in the relevant reports, not in this report.

⁶ See Table 8.2: Mitigation Plan for Construction Stage of ESA of Dasu Hydropower Project

	-							
Activity	Environmental Impact/Issue	Number of any non- compliance reports	Number related incidents	of	Number of related grievances	Exceeding values against NEQS (air, noise, water, etc.)	Other Indicators	Remarks
1.Design/Pre- Construction Stage								Not relevant
2. Contractor Mobilization and Demobilizatior	3.1 Traffic Management	Nil						
	3.2 Soil Erosion and	Nil	2					Reported and rectifie
	Contamination							immediately within
								days of incident; A
								communication done i
								the Whatsapp group
								Physical verification wa
								done by DHC field Sta
								and closed the points.
	3.3 Air Quality	Nil						No Third Part
								monitoring is undertake
	3.4 Noise	Nil						No Third Part
								monitoring is undertake
	3.5 Public Safety	Nil						
	3.6 Damage to Infrastructure	Nil						
Contractor's Camp	4.1 Soil and Water	Nil						
	Contamination							
	4.2 Air Quality	Nil						
	4.3 Vegetation loss	Nil					Number of trees fallen= 0	
	4.4 Noise	Nil						
	4.5 Health and Safety							Covered under OHS Report
	4.6 Social and Gender Issues							Covered under socia report
	4.7 Damage to PCRs						Number of chance finds: 0	
	4.7 Increased load on local services							Covered under socia report
4. Transportation of Equipment	5.1 Traffic Management	Nil						
	5.2 Soil Erosion and							
	Contamination							
	5.3 Air Quality	Nil						
	5.4 Noise	Nil						
	5.5 Public Safety						Number of trainings	6
	,						provided:0	
	5.6 Damage to infrastructure	Nil						
5. Spoil Area	8.1 Changes to topography	Nil						
Management	8.2 Landslide							
	8.3 Soil erosion							
	8.4 Air Quality							
	8.5 Landscape and Visual							
	Intrusion							
	8.6 Vegetation loss							
6. Waste Management	12.1 Soil and water contamination	Nil						No WTEIR issued in thi
	12.2 Odor							quarter nor any wast

Table 5 9.	Key Derformance Indiactors and their Status during the reporting period
Table 5.8:	Key Performance Indicators and their Status during the reporting period

			issue reported in this
			month.

5.8 Overall Compliance Status – Tri-Partite Monthly Meetings

During the quarter, three monthly meetings were held with the Contractor by the Engineer and PMU to discuss pending environmental non-compliance and the actions taken by the Contractor to address these issues. The minutes of these meetings are shown in the Annexure. The Major issues discussed during the meetings were:

- Maintaining Good Housekeeping
- Dust suppression measures on the grid station road
- Provision of Drinking water to Labor and staff at site.
- Prevention of Oil Spills at Grid Station Site.

6 PCI-01R Contract

6.1 Overview of Contracts

A brief overview of the PCI-01R contract is given in Table 6.1. The PCI-01R contract works are related to the construction of project colony and infrastructure at Chuchang.

Table 6.1:	Overview of PCI-01R Contract
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Sr. No.	Item	Data
1	Contract Number	ICB No. Dasu- PCI-01R
2	Contract Name	Construction of Project Colony and Infrastructure
3	Contractor	China Gansu International Corporation for Economic and Technical Corporation (CGICOP)
4	Commencement Date	Oct 17, 2017
5	Contract Completion Date	May 17, 2021
6	Revised Completion Date	October 31, 2022

6.2 Construction Environmental Action Plan(CEAP)

The Contractor has submitted the Construction Environmental Action Plan (CEAP) with the sitespecific management plans to address the environmental impacts and risks of the construction activities. In addition, the Contractor has also prepared an Occupational Health and Safety Management Plan (OHSMP), and details of these plans are not covered in this report.

6.3 Contractor's Facilities and ESHS Staff

The facilities established by the Contractor, such as workers' camps and construction yards, are given in Table 6.2. The Environmental Social Health and Safety (ESHS) Staff of the Contractor are given in Table 6.3.

		Table 0.2.	Contractor & Facilities	
Sr. No.	Facility	Location	Details	Remarks
Α.	Worker's Camps			
1	Chinese Workers Camp	Chuchang	About 13 workers live in this camp	
2	Pakistan Workers Camps	Chuchang	About 334 workers live in this camp	
В.	Crushing/Batching Plants			
1	Crushing Plant	Chuchang		Not operational
2	Batching plant	Chuchang		Not operational
C.	Other Facilities			
1	Construction Yard	Chuchang		

Table 6.2:Contractor's Facilities

Table 6.3:	Contractor's ESHS Staff
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Sr. No.	Position	PCI-01R Contract	Remarks
1	Manager EHS	Mr. Fazal Mabood	
2	Environmental Officer	Vacan t	
3	Environmental Supervisor	Vacant	

6.4 Construction Activities

Details of construction activities conducted during the reporting period are shown in Table 6.4.

Sr. No.	Work Site	Details of Works	Remarks
1	DHPP Project Office	Additional Door polishing in progress at project office building. Paint repairing in progress at project office.	In progress
2	Category 2 Houses	 Roof treatment at residence cat-2C and 2D units in progress. Marble tile fixing for floor at cat -2D is in progress. Boundry wall construction at residence cat -2, cat -2A & 2B in progress. Kuphrail tile fixing on roof of resident CAT - 2D in progress. Sand filling in kitchens and bathrooms at residence cat-2C 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 -2C & 2D in progress. Electrifion work at 2Band 2C in progress. Plumbing and bath room fixture at cat 2B, 2C in progress. Marble skirting at cat 2 is in progress. 	
3	Category 1 Houses	Rectification of bath rooms of cat -1 in progress.	In progress
4	Category 3 & 4		In progress
5	Water supply related	External water supply from Indus River: excavation for the retaining wall in progress. • Laying of water supply pipes in colony in progress.	In progress

			 Conduction of pressure tests of water supply pipes in progress. Sluice vales construction in progress. At S5 road excavation for the water supply is in progress. 	
6	Drainage &	Disposal	 Sluice vales construction in progress. 	In progress
	Issues		 Septic tank type A construction in progress. 	
			 Construction of Manhole cap covers along P1 road in progress. 	
7	Boundary Wall		 External boundary wall: block masonry and plastering in progress. 	In progress

6.5 Construction Supervision and Environmental Compliances

6.5.1 NCR's issued in this Quarter

No NCR's has been issued in this quarter from January to March 2023

6.5.2 Site Inspections and WTEIRs

Site visits to the construction areas are conducted daily by the environmental staff to supervise environmental compliance of the construction activities and complete daily monitoring checklists. In addition, Joint Inspections with WAPDA on every Tuesday of the week for one or two contracts of DHPP, Schedule Schedule starting from 14th of Feb 2023, walk-through environmental inspections have been conducted at all work sites regularly by the senior environmental staff of DHC and PMU to identify any environmental issues and non-compliance. The issues identified at the construction sites are communicated with the Contractor through Walk-Through Environmental Inspection Reports (WTEIRs). The Contractor has also been instructed to address these issues within a suggested timeframe. The Contractor has rectified these mistakes and submitted the report with the actions taken. The WTEIRs, consisting of both non-compliances and rectifications, are given in the following tables.

Table 6.6: Walk-Through Inspection Report-No.40

Date of Issuance: 01-01-2023

Report No. E-40

Date of Response: 09-01-2023

Sr. No	Date and Location of Inspection	EHS observations	Before Rectification Picture	Action Taken by the Contractor	After Rectification picture
40.1	01-01-2023 Wapda colony chuchang	Littering of solid waste	Lan 1, 2023 12:32:02 PM Index number: 432	Collected the scattered waste from site and disposed off at designated site, also conducted awareness session regarding safe disposal of waste and use of waste bins	

40.2	01-01-2023 In front of Officer colony	Oil spill	Jan 1, 2023 12:31:31 PM 23*NE Index number: 4471	Cleaned the spilled area and replaced it with fresh soil	
40.3	01-01-2023 Wapda colony	Inadequate Housekeeping	Jan 12023 1213840 PM Jan 12023 1213840 PM Jan 12023 1213840 PM	Housekeeping is done, collected all the scattered waste from site and disposed off properly at designated site	

40.4	01-01-2023 In front of Officer colony	Improper disposal solid waste	of	Collected the waste from dust din and emptied it and place at site also label and install awareness signage's	
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Table 6.7: Walk-Through Inspection Report-No.41

Date of Issuance: 28-01-2023

Report No. E-41

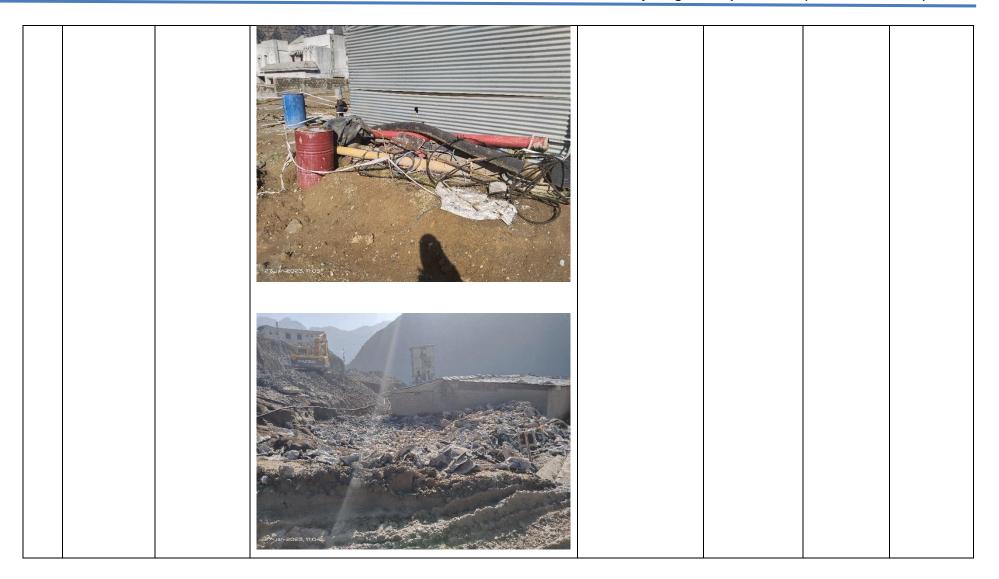
Sr. No	Date and Location of Inspection	EHS observation s	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completio n Date
41. 1	27-01-2023 WAPDA Colony Labor camp	Littering		Contractor is instructed to remove the littering from site and keep clean the site.	Immediate		

41.	27-01-2023	Poor	The contractor is	Immediate	
2	Labor camp	drainage system	to construct a proper drainage system at labor camp ASAP.		

41. 3	27-01-2023 WPADA Colony Labor camp	Fuel wood	It is instructed the contractor to provide LPG gas.	Immediate	

41. 4	27-01-2023 WPADA Colony Crushing plant	Oil Spillage near Crushing plant CGICOP	It is instructed the contractor to remove contaminated soil with clean and fresh soil as per SOPs provided in ECP.	Immediate	

41. 5	27-01-2023 WPADA Colony	Inadequate housekeepin g	Instructed the contractor to remove construction waste from site ASAP.		



6.5.3 Notices and Letters

In addition to the Joint Inspections and WTEIRs (discussed in the previous section), the Engineer also issues Notices and Letters as in this quarter i.e., Jan-Mar 2023; six letters/ notices were issued.

6.5.4 Quarterly Monitoring of Air, Noise, Water and Wastewater

5th Quarterly environmental monitoring was postponed with the consent of Employer as the work were very limited during the quarter. The monitoring will be conducted once the construction work starts momentum.

6.6 Contractor's Effect Monitoring

The monitoring requirements of the Contractor as per the bidding documents are given in the following table. The Engineer's observation of the monitoring status is also given in the last column of this table.

Sr. No.	Parameter	Location	Means Monitoring	Frequency	Status
1	Landslides		Visual Inspection on stability of		NA
		prone areas in EIA	landslides	g,	
2	Erosion	material storage sites	Visual inspection of erosion prevention measures and occurrence of erosion		Quarterly monitored visually. No incident was recorded during the quarter.
3		tributaries at the downstream of the construction sites. The locations of sampling can be same locations of baseline water quality or new locations recommended by the	Sampling and analysis of river water quality and wastewater discharges for the key parameters given in NEQS (river water quality – DO, BOD, COD, Temperature, pH, Conductivity, TSS, turbidity, nitrate, Wastewater – BOD. TSS, turbidity, TDS, COD, grease and oil, iron, ammonia, sulfates, chlorides)		5th Quarterly Environmental monitoring was postponed with the consent of Employer due to limited construction work i.e., whitewashing/paint, electrification etc.
4		quarry areas along KKH and blasting areas	Visual inspection to ensure good standard equipment is in use and dust suppression measures (spraying of waters) are in place.		Weekly visual inspections were carried out during the quarter at the DHPP Colony site and instructions were given to contractor for compliance. The Contractor was strictly instructed to increase water sprinkling frequency. The dust is under control.
5	(PM10, NO2, SO2, CO2, CO)	Near the sensitive sites and settlements at the close to the construction works and along KKH. The locations of sampling can be same locations of baseline air quality or new locations recommended by the CSC.	hours for the parameters specified in NEQS 2000		5th Quarterly Environmental monitoring was postponed with the consent of Employer due to limited construction work i.e., whitewashing/paint, electrification etc.
6		At all the construction sites for dam, KKH and tunnels		Quarterly	Quarterly visual inspections were carried out during the quarter and no issue was observed.
7	vibration	Near the sensitive sites and settlements at the close to the construction works and along KKH. The locations of sampling can be same locations of baseline air quality or new locations recommended by the CSC		Quarterly	5th Quarterly Environmental monitoring was postponed with the consent of Employer due to limited construction work i.e., whitewashing/paint, electrification etc.
8	Waste Management	disposal area	Visual inspection on spoil disposal in accordance with EMP Sub plan on Waste Management		Spoil (if any) is being dumped at the Khoshe disposal site
9	Construction camps and construction management		Visual inspection that solid waste is disposed of at designated site		Quarterly visual inspection was carried out. The Contractor is temporarily storing the waste at the camp. The Contractor using the Organic waste as compost for the kitchen garden while the reusable and recyclables are

 Table 6.9:
 Status of Contractor's Effect Monitoring

					temporarily stored at the site for onward sending to local trash vendor.
10		5	Visual Inspection for leaks and spills	Quarterly	Weekly and Quarterly visual inspection was carried out. The non-compliances are reported to the contractor in the WTEIRs for rectification.
11	Traffic Safety	roads to the construction	Visual inspection to see whether Traffic Management Plan (EMP Sub Plan 12) is implemented		Supervised by OHS
12	Local Roads	Approach Roads	Visual inspection to ensure local roads are not damaged	Quarterly	Regular monitoring was carried out and no damage was observed to the local roads
13		identified in the EIA	Visual observation on implementation of EMP Sub Plan 13 on Physical Cultural Resources Management	,	The contractor kept in consideration this aspect during the excavation activities. There was no archeological site present in the current construction area.
14	0	construction camps	Ensure the construction workers are provided with safe water and sanitation facilities on the site	,	Monitored. The contractor provided water coolers to the workers at the sites.

6.7 Key Performance Indicators

The key performance indicators identified in the ESA⁷ of DHP to mitigate the environmental impacts and risks during construction can be summarized into five categories, as shown in the **following table**.

Table 6.10:	Key Performance Indicators for compliance with mitigation measures
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Sr. No	Key Performance Indicator	Description of the Indicator
1	Number of any non-compliance reports	The number of non-compliances noticed and reported to the Contractor.
2		The number of complaints or grievances received from the communities on the construction-related nuisances such as traffic, dust, noise and vibration, or any other construction-related activities
3		The number of accidents or incidents, or near misses involving construction activities and construction vehicles
4		The number of parameters in ambient air and noise quality, drinking water, wastewater discharges and surface waters found beyond the national standards.
5.		Any other indicators that are not covered in the above categories are given in 'other indicators.' This includes the number of times chance finds are noticed, the number of trainings conducted, etc.

A detailed assessment of the status of compliance with the performance indicators and their status during the reporting period is given in the following table. Any indicators related to OHS and social aspects are covered in the relevant reports, not in this report.

⁷ See Table 8.2: Mitigation Plan for Construction Stage of ESA of Dasu Hydropower Project

Environmental Impact/Issue			Number of related grievances	Exceeding values against NEQS (air, noise, water, etc.)	Other Indicators	Remarks
						Not relevant
3.1 Traffic Management	Nil					
	Nil					
	Nil					
		1				The rain water and labor camp
Contamination						drainage(sewage) water was stagnant behind the CGICOP Main camp inside the Colony area. Reported in Joint inspection with WAPDA and rectified through PM of CGICOP Mr. Liu.
4.2 Air Quality	Nil					
4.3 Vegetation loss	Nil				Number of trees felled:0	
4.4 Noise	Nil					
4.5 Health and Safety						Covered under OHS Report
						Covered under social report
Issues						
4.7 Damage to PCRs	Nil				Number of chance finds: 0	
						Covered under social report
5.1 Traffic Management	Nil					
Contamination						
					Number of trainings provided	
5.6 Damage to infrastructure						
8.2 Landslide 8.3 Soil erosion 8.4 Air Quality	Nil					
Intrusion 8.6 Vegetation loss						
9.2 Landslide9.3 Soil erosion9.4 Soil and water contamination9.5 Air Quality9.6 Health and Safety	Nil	1				1 incident of Oil spillage, 1 incidences of inadequate housekeeping, 1 incidence of Fire Wood usage and three incidences of Solid Waste littering reported through WTEIR for rectification
	3.1 Traffic Management 3.2 Soil Erosion and Contamination 3.3 Air Quality 3.4 Noise 3.5 Public Safety 3.6 Damage to Infrastructure 4.1 Soil and Water Contamination 4.2 Air Quality 4.3 Vegetation loss 4.4 Noise 4.5 Health and Safety 4.6 Social and Gender Issues 4.7 Damage to PCRs 4.7 Increased load on local services 5.1 Traffic Management 5.2 Soil Erosion and Contamination 5.3 Air Quality 5.4 Noise 5.5 Public Safety 5.6 Damage to infrastructure 8.1 Changes to topography 8.2 Landslide 8.3 Soil erosion 8.4 Air Quality 8.5 Landscape and Visual Intrusion 8.6 Vegetation loss 9.1 Change in topography 9.2 Landslide 9.3 Soil erosion 9.4 Soil and water contamination 9.4 Soil and water contamination	non- compliance reports 3.1 Traffic Management Nil 3.2 Soil Erosion and Contamination 3.3 Air Quality Nil 3.4 Noise Nil 3.5 Public Safety Nil 3.6 Damage to Infrastructure Nil 3.6 Damage to Infrastructure Nil 3.6 Damage to Infrastructure Nil 4.1 Soil and Water Contamination 4.2 Air Quality Nil 4.3 Vegetation loss Nil 4.4 Noise Nil 4.5 Health and Safety 4.6 Social and Gender Issues 4.7 Damage to PCRs Nil 4.7 Increased load on local services 5.1 Traffic Management Nil 5.2 Soil Erosion and Contamination 5.3 Public Safety 5.4 Noise 5.5 Public Safety 5.6 Damage to infrastructure 8.1 Changes to topography 8.3 Soil erosion 8.4 Air Quality	non- compliance reportsrelated incidents3.1 Traffic ManagementNil3.2 Soil Erosion and ContaminationNil3.3 Air QualityNil3.4 NoiseNil3.5 Public SafetyNil3.6 Damage to InfrastructureNil4.1 Soil and Water1Contamination14.2 Air QualityNil4.3 Vegetation lossNil4.4 NoiseNil4.5 Health and Safety14.6 Social and Gender Issues1IssuesNil4.7 Damage to PCRsNil4.7 Damage to PCRsNil4.7 Increased load on local services5.1 Traffic ManagementNil5.2 Soil Erosion and Contamination15.3 Air Quality55.4 Noise55.5 Public Safety55.6 Damage to topography 8.1 Changes to topography 8.2 LandslideNil8.3 Soil erosion 8.4 Air QualityNil8.4 Vegetation loss19.1 Change in topography 9.2 Landslide19.3 Soil erosion 9.4 Soil and water contamination 9.5 Air Quality19.4 Soil and water contamination 9.5 Air Quality1	non- compliance reportsrelated incidentsrelated grievances3.1 Traffic ManagementNii3.2 Soil Erosion and ContaminationNii3.3 Air QualityNii3.4 NoiseNii3.5 Public SafetyNii3.6 Damage to InfrastructureNii4.1 Soil and Water1Contamination14.2 Air QualityNii4.4 Noise1Contamination14.5 Health and Safety14.6 Social and Gender Issues14.7 Damage to PCRsNii4.7 Increased load on local services55.1 Traffic ManagementNii5.2 Soil Erosion and Contamination55.3 Air Quality15.4 Noise15.5 Public Safety15.6 Damage to topography 8.1 Changes to topography 8.2 Landslide 8.3 Soil erosion18.4 Air Quality18.5 Soil and water contamination15.6 Damage to topography 8.2 Landslide19.1 Change in topography 9.2 Landslide19.3 Soil erosion19.4 Soil and water contamination19.5 Air Quality19.1 Change in topography 9.2 Landslide19.3 Soil erosion19.4 Keith and Safety19.5 Air Quality19.6 Health and Safety1	non-compliance reports related incidents related grievances values against NEQS (air, noise, water, etc.) 3.1 Traffic Management Nil	non-compliance reports related incidents values against grievances values against NEOS (air, noise, water, etc.) 3.1 Traffic Management Nil 3.2 Soil Erosion and Contamination Nil 3.3 Air Quality Nil 3.4 Fourity Nil 3.4 Fourity Nil 3.4 Fourity Nil

 Table 6.11:
 Key Performance Indicators and their Status during the reporting period

	9.7 Landscape and Visual Intrusion 9.8 Vegetation loss 9.9 Fauna / Wildlife 9.10 Damage to infrastructure 9.12 Damage to PCRs 9.13 Access			
7. Waste Management	12.1 Soil and water contamination 12.2 Odor	2		2 incidence reported through WTEIRs for rectification

6.8 Overall Compliance Status – Tri-Partite Monthly Meetings

During the quarter three monthly meetings were held with the Contractor by the Engineer and PMU to discuss pending environmental non-compliance and the actions taken by the Contractor to address these issues. The minutes of these meetings are shown in Annexure. The major issues discussed during the meetings were:

- Submission NOC for Fuel storage license
- Housekeeping
- Dust control
- Welfare facilities to contractor labor camp like provision of gas cylinders for cooking and heating, Janitors for Cleaning of Toilets and common areas like kitchen, availability of More Toilets and provision of proper drainage pipes from ablution area and toilets/ bath rooms.
- Drainage Issue
- Extension of sedimentation tank chambers to increase retention time.

7 RAR-02 Contract

7.1 Overview of Contracts

A brief overview of the RAR-02 contract is given in Table 7.1. The RAR-02 contract works are related to the construction of construction of Right bank access road that is starting from dam site up to Uttar Gah.

Table 7.1:	Overview of RAR-02 Contract
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Sr. No.	Item	Data
1	Contract Number	ICB No. Dasu- RAR-02
2	Contract Name	Construction of Right bank Access Road (Dam site to Uttar Gah)
3	Contractor	China Gezhouba Group Co. Ltd. (CGGC)
4	Commencement Date	May 20, 2021
5	Contract Completion Date	May 17, 2023

7.2 Contractor Environmental Action Plan

The Contractor has submitted the Contractor Environmental Action Plan (CEAP) with the sitespecific management plans to address the environmental impacts and risks of the construction activities. In addition, the Contractor has also prepared an Occupational Health and Safety Management Plan (OHSMP), and details of these plans are not covered in this report.

7.3 Contractor's Facilities and ESHS Staff

The facilities established by the Contractor, such as workers' camps and construction yards, are given in Table 7.2. The Environmental Social Health and Safety (ESHS) Staff of the Contractor are given in Table 7.3.

Sr. No.	Facility	Location	Details	Remarks
Α.	Worker's Camps			
1	Chinese Workers Camp	Kaigah	Jan# 28, Feb#30, March#22	
2	Pakistan Workers Camps	Kaigah	Jan# 107, Feb#115, March# 135	
B.	Crushing/Batching Plants			
1	Crushing Plant	Nil		
2	Batching plant	Nil		
C.	Other Facilities			
1	Construction Yard	Nil		
2	Explosive magazine	Nil	Explosive from MW-02 at Kass area is being used for the construction work	

 Table 7.2:
 Contractor's Facilities

Sr. No.	Position	RAR-02 Contract	Remarks
1	Manager EHS	Liaqat Ali Khan	Contractor has been instructed to engage environmental officer along with supervisory staff
2	Environmental Officer	vacant	
3	Environmental Supervisor	vacant	

7.4 Construction Activities

Details of construction activities conducted during the reporting period are shown in Table 7.4.

Table 7.4:	Construction Activities in RAR-02 Contract
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Sr. No.	Work Site	Details of Works	Remarks		
1	K13+200 to K13+700	Excavation and blasting work continue from K13+200 to K13+700. Backfill with gabion work is going on at K13+300.	In progress		
2	K13+300.	Backfill with gabion work is going on at K13+300.	In progress		
3	K32+600 to K33+150.	Excavation work is continue from k32+600 to k33+150.	In progress		
4					
5	K13+400	Excavation and blasting work continue from K13+400 to onward.	In progress		
6	K33+100, K36+410, K37+700	Excavation work is in progress at k33+100, k36+410, k37+700 to onward.	In progress		
7	K13+370 to K13+800.	Excavation and blasting work continue from K13+370 to K13+800.	In progress		
8	Cable crossing	Cable crossing work at K20 is almost done.	In progress		
9	K33+400, K34+450 & K36+410.	The contractor is working on four working faces in kandia, K33+400, K34+450 & K36+410.	In progress		
10	Mobiization @ Kaigah Camp	The Contractor mobilized to the Kaigah Contractor's camp and brought new equipment and manpower. The Contractor is planning to start Kandia working face and has already started Largani cable way to start new working face.	In progress		

7.5 Construction Supervision and Environmental Compliances

7.5.1 Non-Conformance Reports(NCRs) issued in this Quarter

One NCR were issued to the contractor for the non-conformance noted at site. They are presented the following table:

Sr. No.	Contract	Subject	Issuance Date
1	RAR-02	NCR-Failure to Hire and Mobilize Environmental Officer for RAR-02"	19 th Jan 2023

7.5.2 Site Inspections and WTEIRs

Site visits to the construction areas are conducted daily by the environmental staff to supervise environmental compliance of the construction activities and complete daily monitoring checklists. In addition, Joint Inspections with WAPDA on every Tuesday of the week for one or two contracts of DHPP, Schedule starting from 14th of Feb 2023, walk-through environmental inspections have been conducted at all work sites regularly by the senior environmental staff of DHC and PMU to identify any environmental issues and non-compliance. The issues identified at the construction sites are communicated with the Contractor through Walk-Through Environmental Inspection Reports (WTEIRs). The Contractor has also been instructed to address these issues within a suggested timeframe. The Contractor has rectified these mistakes and submitted the report with the actions taken. The WTEIRs, consisting of both non-compliances and rectifications, are given in the following tables.

Table 7.6: Walk-Through Inspection Report No. 17	Table 7.6:	Walk-Through Inspection Report No. 17
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Report No. E-17

Date of Issuance:04-01-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
17.1	04-01-2023 Gayal access road	Improper placement of fuel drums		The contractor is instructed to construct the concrete pavement storage area for fuel drums and place dip ray for each drums to avoid further soil contamination.	Reminder		

17.2	04-01-2023 Gayal access road + kandia bypass labor camp	Oil spill		The contractor is instructed to remove the spill by replacing with fresh soil and soil After that dispose of the toxicity as per ECPS and SOPs.			
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17.3	04-01-2023 Kandia bypass labor camp	Fuel wood	<image/>	The contractor is instructed to use LPG and avoid to use fuel woods from the local forest.	Reminder	
17.4	04-01-2023 Gayal access road.	Heavy dust		the contractor is instructed to ensure maintenance of equipment regularly and ensure wet drilling and provide appropriate mask for crawling machine operator	Reminder	

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
18.1	25-01-2023 Gayal access road	Improper placement of fuel drums		The contractor is instructed to construct the concrete pavement storage area for fuel drums and place dip tray for each drums to avoid further soil contamination.	Reminder		

Report No. E-18

Date of Issuance:25-01-2023

			· · · · · · · · · · · · · · · · · · ·			
18.3	25-01-2023 labor camp kandia bypass	Fuel wood		The contractor is instructed to use LPG and avoid to use fuel woods from the local forest.	Reminder	

Table 7.8:Walk-Through Inspection Report No.19

Report No. E-19

Date of Issuance: 10-03-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
19.1	10-03-2023 Gayal access road	Oil spill		The contractor is instructed to remove the spill by replacing with fresh soil and soil After that dispose of the toxicity as per ECPS and SOPs. And provide shelter for fuel storage area as soon as possible.	Reminder 1		

19.2	10-03-2023 kandia bypass labor camp	Fuel wood	<image/>	The contractor is instructed to use LPG and avoid to use fuel woods from the local forest.	Reminder 6	
19.3	10-03-2023 kandia bypass labor camp	Poor quality stove.		The contractor is instructed to provide good pressure quality stove for workers and provide LPG oven for bread cooking and reduce dependency on woods asap.	Reminder 3	

19.4	10-03-2023 kandia bypass labor camp	No save drinking water	<image/>	During routine supervision it was observe that workers are using tube water for drinking the contractor is instructed to conduct water test with in 15 days and submit to engineers	Immediate	

7.5.3 Notices and Letters

There were two letters issued to the contractor other than three WTEIRs during the reporting quarter from Jan-Mar 2023. The details of the letters are reflected in chapter -10

7.5.4 Quarterly Monitoring of Air, Noise, Water and Wastewater

The Contractor has not conducted 24-hour monitoring of air, and noise quality during the quarter.

7.6 Contractor's Effect Monitoring

The monitoring requirements of the Contractor as per the bidding documents are given in the following table. The Engineer's observation of the monitoring status is also given in the last column of this table.

Sr. No.	Parameter	Location	Means Monitoring	Frequency	Status
1	Landslides	37 identified landslide prone areas in EIA	Visual Inspection on stability of landslides		Fortnight visual inspection was conducted, and no landslide was observed.
2		material storage sites	Visual inspection of erosion prevention measures and occurrence of erosion	-	Monitored visually. No incident was recorded during the quarter.
3	quality	at the downstream of the construction sites. The locations of sampling can be same locations of baseline water quality or new locations recommended by the CSC.			No Quarterly Environmental monitoring was conducted during the quarter.
	smoke)	areas along KKH and blasting areas	Visual inspection to ensure good standard equipment is in use and dust suppression measures (spraying of waters) are in place.		Weekly visual inspection was conducted during the quarter. Contractor was instructed to ensure water sprinkling.
	(PM10, NO2, SO2, CO2, CO)	settlements at the close to the			No Quarterly Environmental monitoring was conducted during the quarter.
	plant and equipment	At all the construction sites for dam, KKH and tunnels	Visual Inspection	Quarterly	Regular visual inspections were carried out during the quarter and no issue was observed.
7	Noise and vibration	Near the sensitive sites and settlements at the close to the construction works and along KKH. The locations of sampling can be same locations of baseline air quality or new locations recommended by the CSC		Quarterly	No Quarterly Environmental monitoring was conducted during the quarter.
		At the designated rock disposal area	Visual inspection on spoil disposal in accordance with EMP Sub plan on Waste Management	Quarterly	Spoil is being dumped along the slope of designated spoil dump area.
9	Construction camps and construction management		Visual inspection that solid waste is disposed of at designated site	Quarterly	Regular monitoring was carried out. The Contractor is temporarily storing the waste at the camp.
10	Spills from	Material storage sites and construction yards	Visual Inspection for leaks and spills	Quarterly	Quarterly visual inspection observation regarding the spills was reported to the contractor for rectification.

Table 7.14: Status of Contractor's Effect Monitoring

11	Traffic Safety	roads to the construction areas	Visual inspection to see whetherQuarterly Traffic Management Plan (EMP Sub Plan 12) is implemented	Supervised by OHS
12	Local Roads	Approach Roads	Visual inspection to ensure localQuarterly roads are not damaged	Regular monitoring was carried out and no damage was observed to the local roads
13	Cultural and archeological Sites	EIA	Visual observation onQuarterly implementation of EMP Sub Plan 13 on Physical Cultural Resources Management	The contractor kept in consideration this aspect during the excavation activities. There was no archeological site present in the current construction area.
14	Drinking water and sanitation	construction camps	Ensure the construction workersWeekly are provided with safe water and sanitation facilities on the site	Monitored. The contractor provided water coolers to the workers at the sites.

7.7 Key Performance Indicators

The key performance indicators identified in the ESA⁸ of DHP to mitigate the environmental impacts and risks during construction can be summarized into five categories, as shown in the following table.

 Table 7.15:
 Key Performance Indicators for compliance with mitigation measures

Sr. No	Key Performance Indicator	Description of the Indicator
1	Number of any non-compliance reports	The number of non-compliances noticed and reported to the Contractor.
2	grievances	The number of complaints or grievances received from the communities on the construction-related nuisances such as traffic, dust, noise and vibration, or any other construction-related activities
3		The number of accidents or incidents, or near misses involving construction activities and construction vehicles
4		The number of parameters in ambient air and noise quality, drinking water, wastewater discharges and surface waters found beyond the national standards.
5.		Any other indicators that are not covered in the above categories are given in 'other indicators.' This includes the number of times chance finds are noticed, the number of trainings conducted, etc.

A detailed assessment of the status of compliance with the performance indicators and their status during the reporting period is given in the following table. Any indicators related to OHS and social aspects are covered in the relevant reports, not in this report.

⁸ See Table 8.2: Mitigation Plan for Construction Stage of ESA of Dasu Hydropower Project

Activity	Environmental Impact/Issue	Number of any non- compliance reports	Number of related incidents	Number of related grievances	Exceeding values against NEQS (air, noise, water, etc.)		Remarks
1. Design/Pre- Construction Stage		Toponto					Not relevant
2. Contractor Mobilization and Demobilization	3.1 Traffic Management	Nil					
	3.2 Soil Erosion and Contamination	Nil	3				3 occurrence of Minor oil spill reported through WTEIR for rectification
	3.3 Air Quality	Nil					
	3.4 Noise	Nil					
	3.5 Public Safety	Nil					
	3.6 Damage to Infrastructure	Nil					
3. Contractor's Camp	4.1 Soil and Water Contamination	Nil					
	4.2 Air Quality						
	4.3 Vegetation loss	Nil				Number of trees felled: 0	
	4.4 Noise	Nil					
	4.5 Health and Safety	Nil					Covered under OHS Report
	4.6 Social and Gender Issues	Nil					Covered under social report
	4.7 Damage to PCRs	Nil				Number of chance finds: 0	
	4.7 Increased load on local services	Nil					Covered under social report
	4.8 Use of Fire Wood						Bincidence of using Fire wood reported through the WTERI and rectified through provision of LPG Cyclinders and stoves
4. Transportation of Equipment	5.1 Traffic Management	Nil					
	5.2 Soil Erosion and Contamination	Nil					
	5.3 Air Quality		4				4 Dust Side issues reported in Kandia through WTEIRs and Joint Inspection, which were rectified 2 Dust Side issues reported in Sigloo and Seer Gayal Area through WTEIRs and Joint Inspection. which were not rectified
	5.4 Noise	Nil					
	5.5 Public Safety	Nil				Number of trainings provided	-
	5.6 Damage to infrastructure	Nil					
5. Spoil Area Management	5.1 Changes to topography 5.2 Landslide 5.3 Soil erosion 5.4 Air Quality	Nil					
	5.5 Landscape and Visual						

 Table 7.16:
 Key Performance Indicators and their Status during the reporting period

	Intrusion			
	5.6 Vegetation loss			
6. Waste Management	6.1 Soil and water contamination			
_	6.2 Odor			

7.8 Overall Compliance Status – Tri-Partite Monthly Meetings

During the quarter three monthly meetings were held with the Contractor by the Engineer and PMU to discuss pending environmental non-compliance and the actions taken by the Contractor to address these issues. The minutes of these meetings are shown in the Annexure. The major environmental issues discussed during the meeting were:

- Hiring of environmental officer
- Submission of MPR as per discussion in monthly meetings.
- Oil Spillage
- Suppression of dust
- Proper haulage of spoil
- Use of Wood as Fuel for Cooking & Heating

8 KKH-02 Contract

8.1 Overview of Contracts

A brief overview of the KKH-02 contract is given in Table 8.1. The KKH-02 contract work is related to the construction of construction of relocated road that is starting from Kaigah 25 RD up to Lachi Nullah.

Sr. No.	Item	Data
1	Contract Number	ICB No. Dasu- KKH-02
2	Contract Name	Construction of Relocated KKH-02 (K24 to K61)
3	Contractor	China Gezhouba Group Co. Ltd. (CGGC)
4	Commencement Date	May 15, 2022
5	Contract Completion Date	May 12, 2024

8.2 Contractor Environmental Action Plan

The Contractor has submitted the Contractor Environmental Action Plan (CEAP) with the sitespecific management plans to address the environmental impacts and risks of the construction activities. The plan was reviewed by the Engineer and the contractor was asked to revise the plan as per engineer comments. The revised report is not yet submitted. In addition, the Contractor has also prepared an Occupational Health and Safety Management Plan (OHSMP), and details of these plans are not covered in this report.

8.3 Contractor's Facilities and ESHS Staff

The facilities established by the Contractor, such as workers' camps and construction yards, are given in Table 8.2. The Environmental Social Health and Safety (ESHS) Staff of the Contractor are given in Table 8.3.

Sr. No.	Facility	Location	Details	Remarks
A	Worker's Camps (Kaigah)			
1	Chinese Workers Camp	Kaigah	Jan#45, Feb#46, March#64 workers in the camp	
2	Pakistan Workers Camps	Kaigah	Jan#128, Feb#115, March#135 workers ir the camp	
В	Crushing/Batching Plants	Nil		
1	Crushing Plant	Nil		
2	Batching plant	Nil		
С	Other Facilities			
1	Construction Yard	Nil		
2	Explosive magazine	Barseen	20 ton capacity	

 Table 8.2:
 Contractor's Facilities

Table 8.3: Contractor's ESHS Staff

Sr. No.	Position	KKH-02 Contract	Remarks
1	Manager EHS		Contractor has been instructed to engage environmental officer along with supervisory staff
2	Environmental Officer		Contractor has been instructed to engage environmental officer along with supervisory staff
3	Environmental Supervisor	Fazal Akbar	

8.4 Construction Activities

Details of construction activities conducted during the reporting period are shown in Table 8.4.

ör. No.	Work Site	Details of Works	Remarks
1	Contractor Mobilization	The Contractor is mobilizing equipments to site time by time.	
2	K24+700	Blasting and Excavation work is continued from k24+700 to onward.	In progress
3	K26+370	Excavation and blasting work at k26+370 are continue. Work is stopped from K26+370 to reverse ndirection and k28+600 to onward direction due to nonpayment of local houses in ROW.	
4	K33+520	& Excavation and blasting work from K33+520 to reverse direction & k33+800 to	In progress

 Table 8.4:
 Construction Activities in KKH-02 Contract

	k33+800	onward is continue.	
5	K36+400 K42+400.	Blasting and Excavation work from k36+400 to onward, k42+650 to onward & k42+400 to reverse direction is continued.	In progress
	K42+650		
6	Tunnel Portal	The DID Team of WAPDA is doing Drilling work at Tunnel portal.	In progress
		Drilling work for shori-1 tunnel' s inlet is completed.	
7	K24+730-800,	Excavation and blasting work continued	In progress
	K26+370-700,		
	K33+520-700,		
	K36+270-450,		
	K42+290-490,		
	K46+200-300		
8	K-38 & K-40	New access road has commenced at K38, K40 for gobbar tunnels and bridge (both faces).	In progress

8.5 Construction Supervision and Environmental Compliances

8.5.1 Site Inspections and WTEIRs

Site visits to the construction areas are conducted daily by the environmental staff to supervise environmental compliance of the construction activities and complete daily monitoring checklists. In addition, walk-through environmental inspections have been conducted at all work sites regularly by the senior environmental staff of DHC and PMU to identify any environmental issues and non-compliance. The issues identified at the construction sites are communicated with the Contractor mainly through Walk-Through Environmental Inspection Reports (WTEIRs). The procedure is that the contractor has also been instructed to address these issues within a suggested timeframe. The contractor has rectified these mistakes and submitted the report with the actions taken. There was closure of work during Jan-2023 on all sites. Some of the sites like K34, K47, K38 were further closed up till end of February 2023. There were No WTEIR issued during the reporting quarter.

8.5.2 Notices and Letters

There were four letters were issued to the contractor except there was no WTEIRs during the reporting quarter from Jan-Mar 2023.

8.5.3 Non-conformance Report(NCR's)

There is only one NCR during this first quarter of 2023 for KKH-02 contract.

Sr. No.	Contract	Subject	Issuance Date
1	KKH-02	NCR-Failure to Hire and Mobilize Environmental Officer for RAR-02"	19/01/ 2023

8.5.4 Quarterly Monitoring of Air, Noise, Water and Wastewater

The Contractor has not conducted 24-hour monitoring of air, and noise quality during the quarter.

8.6 Contractor's Effect Monitoring

The monitoring requirements of the Contractor as per the bidding documents are given in the following table. The Engineer's observation of the monitoring status is also given in the last column of this table.

Sr. No.	Parameter	Location	Means Monitoring	Frequenc y	
1	Landslides	prone areas in EIA	Visual Inspection on stability of landslides	Fortnightly	NA at the moment in the areas of construction.
2	Erosion	material storage sites	Visual inspection of erosion prevention measures and occurrence of erosion		Monitored visually. No incident was recorded during the quarter.
3	Surface water quality	tributaries at the downstream of the construction sites. The locations of sampling can be same locations of baseline water quality or new locations recommended by the CSC.	river water quality and wastewater discharges for the key parameters given in NEQS (river water quality – DO, BOD, COD, Temperature, pH, Conductivity, TSS, turbidity, nitrate, Wastewater – BOD. TSS, turbidity, TDS, COD, grease and oil, iron, ammonia, sulfates, chlorides)		No Quarterly Environmental monitoring was conducted during the quarter.
4	Air Quality (dust, smoke)	areas along KKH and blasting areas	Visual inspection to ensure good standard equipment is in use and dust suppression measures (spraying of waters) are in place.	-	Regular visual inspections were carried out during the quarter. The contractor was instructed to ensure water sprinkling
5	(PM10, NO ₂	and settlements at the close to the construction works and along KKH. The		Quarterly	No Quarterly Environmental monitoring was conducted during the quarter.
6	Emissions from plant and equipment	At all the construction sites for dam, KKH and tunnels	Visual Inspection	Quarterly	Regular visual inspections were carried out during the quarter and no issue was observed.
7	Noise and vibration	and settlements at the close to the construction works and along KKH. The locations of sampling can be same locations of baseline air quality or new locations recommended by the CSC		Quarterly	No Quarterly Environmental monitoring was conducted during the quarter.
8	Waste Management	disposal area	Visual inspection on spoil disposal in accordance with EMP Sub plan on Waste Management	Quarterly	Spoil is being dumped at the designated spoil disposal sites along KKH, If not then WTEIR was issued for non compliance
	Construction		Visual inspection that solid waste is disposed of at designated site	Quarterly	Regular monitoring was carried out. The Contractor is temporarily storing the waste at the camp. The

 Table 8.5:
 Status of Contractor's Effect Monitoring

Dasu Hydropower Project Environmental Quarterly Progress Report No. 33 (Jan to March 2023)

	camps and construction management			reusable and recyclables are temporarily stored at the site for onward sending to local trash vendor.
10		Material storage sites and construction yards	Visual Inspection for leaks and spills	Regular monitoring was carried out. The non-compliances are reported to the contractor in the WTEIRs for rectification.
11		roads to the construction areas	Visual inspection to see whether Traffic Management Plan (EMP Sub Plan 12) is implemented	Supervised by OHS
12	Local Roads	Approach Roads	Visual inspection to ensure local roads are not damaged	Regular monitoring was carried out and no damage was observed to the local roads
13	Cultural and archeological Sites	cultural resources identified in the EIA	Visual observation on implementation of EMP Sub Plan 13 on Physical Cultural Resources Management	The contractor kept in consideration this aspect during the excavation activities. There was no archeological site present in the current construction area.
	Drinking water and sanitation	and construction camps	Ensure the construction workers are provided with safe water and sanitation facilities on the site	Monitored. The contractor provided water coolers to the workers at the sites.

8.7 Key Performance Indicators

The key performance indicators identified in the ESA⁹ of DHP to mitigate the environmental impacts and risks during construction can be summarized into five categories, as shown in the following table.

Table	8.11: Key	Performance Indicators for compliance with mitigation measures
Sr. No	Key Performance Indicator	Description of the Indicator
1	5	The number of non-compliances noticed and reported to the Contractor.
2		The number of complaints or grievances received from the communities on the construction-related nuisances such as traffic, dust, noise and vibration, or any other construction-related activities
3		The number of accidents or incidents, or near misses involving construction activities and construction vehicles
4	values against NEQS	The number of parameters in ambient air and noise quality, drinking water, wastewater discharges and surface waters found beyond the national standards.
5.		Any other indicators that are not covered in the above categories are given in 'other indicators.' This includes the number of times chance finds are noticed, the number of trainings conducted, etc.

A detailed assessment of the status of compliance with the performance indicators and their status during the reporting period is given in the following table. Any indicators related to OHS and social aspects are covered in the relevant reports, not in this report.

⁹ See Table 8.2: Mitigation Plan for Construction Stage of ESA of Dasu Hydropower Project

Impair 1. Design/Pre- Construction Stage 2. Contractor Mobilization and Demobilization 3.2 S Contractor Mobilization and 3.2 S Contractor 3.3 A 3.4 N 3.5 F 3.6 II 3. Contractor's Camp 4.1 S Contractor's Camp 4.1 S 4.3 N 4.4 N 4.5 F 4.6 S 4.7 I Servi 4. Transportation of 5.1 T	1 Traffic Management 2 Soil Erosion and ontamination 3 Air Quality 4 Noise 5 Public Safety 6 Damage to Infrastructure 1 Soil and Water ontamination 2 Air Quality 3 Vegetation loss	Number of any non- compliance reports Nil Nil Nil Nil Nil Nil Nil Nil	Number of related incidents	Number of related grievances	Exceeding values against NEQS (air, noise, water, etc.)	Other Indicators	Remarks Not relevant
1. Design/Pre- Construction Stage 2. Contractor Mobilization and Demobilization 3.1 T Demobilization 3.2 S Cont 3.3 A 3.4 N 3.5 F 3.6 I 3. Contractor's Camp 4.1 S Cont 4.2 A 4.3 V 4.4 N 4.5 H 4.6 S 4.7 I 4.7 I 4.7 Transportation of 5.1 T	1 Traffic Management 2 Soil Erosion and ontamination 3 Air Quality 4 Noise 5 Public Safety 6 Damage to Infrastructure 1 Soil and Water ontamination 2 Air Quality 3 Vegetation loss	Nil Nil Nil Nil Nil Nil Nil		grievances	noise, water, etc.)		Not relevant
2. Contractor Mobilization and 3.1 T Demobilization 3.2 C Cont 3.3 / 3.4 N 3.5 F 3. Contractor's Camp 4.1 S Cont 3. Contractor's Camp 4.1 S Cont 4.2 / 4.3 V 4.4 N 4.5 N 4.5 N 4.5 N 4.5 N 4.7 E 4.7 Servi 4. Transportation of 5.1 T Equipment 5.1 T	2 Soil Erosion and ontamination 3 Air Quality 4 Noise 5 Public Safety 6 Damage to Infrastructure 1 Soil and Water ontamination 2 Air Quality 3 Vegetation loss	Nil Nil Nil Nil Nil					Not relevant
Demobilization 3.2 S Cont 3.3 A 3.4 N 3.5 F 3.6 I 3.6 I 3. Contractor's Camp 4.1 S Cont 4.2 A 4.3 N 4.4 N 4.5 F 4.6 S 4.7 I 4.7 I Servit 4.7 I Equipment 5.1 T	2 Soil Erosion and ontamination 3 Air Quality 4 Noise 5 Public Safety 6 Damage to Infrastructure 1 Soil and Water ontamination 2 Air Quality 3 Vegetation loss	Nil Nil Nil Nil Nil					
3.2 \$ Cont 3.3 4 3.4 N 3.5 F 3.6 [] 3. Contractor's Camp 4.1 \$ Cont 4.2 4 4.3 \ 4.4 N 4.5 I 4.6 \$ 4.7 [4.7 [4.7 [4.7 [4.7 [4.7 [4.7 [4.7 [4.7 [4.7 [4.7 [4.7 [5.1] Equipment	ontamination 3 Air Quality 4 Noise 5 Public Safety 6 Damage to Infrastructure 1 Soil and Water ontamination 2 Air Quality 3 Vegetation loss	Nil Nil Nil Nil					
Cont 3.3 / 3.4 N 3.5 F 3.6 I 3. Contractor's Camp 4.1 S Cont 4.2 / 4.3 N 4.4 N 4.5 F 4.6 S 4.7 I 4.7 I 4.7 Servi 4.7 Servi 4.7 Servi	ontamination 3 Air Quality 4 Noise 5 Public Safety 6 Damage to Infrastructure 1 Soil and Water ontamination 2 Air Quality 3 Vegetation loss	Nil Nil Nil Nil					
3.3 / 3.4 N 3.5 F 3.6 II 3. Contractor's Camp 4.1 S Cont 4.2 / 4.3 V 4.4 N 4.5 F 4.6 S 4.7 I 4.7 I servi 4. Transportation of 5.1 T	3 Air Quality 4 Noise 5 Public Safety 6 Damage to Infrastructure 1 Soil and Water ontamination 2 Air Quality 3 Vegetation loss	Nil Nil Nil					
3.4 N 3.5 F 3.6 I 3. Contractor's Camp 4.1 S Cont 4.2 A 4.3 V 4.4 N 4.5 F 4.6 S 4.7 I 4.7 I servi 4. Transportation of 5.1 T	4 Noise 5 Public Safety 6 Damage to Infrastructure 1 Soil and Water ontamination 2 Air Quality 3 Vegetation loss	Nil Nil Nil					
3.5 F 3. Contractor's Camp 4.1 S Cont 4.2 A 4.3 V 4.4 N 4.5 F 4.6 S 4.7 I 4.7 I servi 4. Transportation of 5.1 T	5 Public Safety 6 Damage to Infrastructure 1 Soil and Water ontamination 2 Air Quality 3 Vegetation loss	Nil Nil					4
3.6 I 3. Contractor's Camp 4.1 S Cont 4.2 A 4.3 V 4.4 N 4.5 F 4.6 S 4.7 I 4.7 I servi 4. Transportation of 5.1 T	6 Damage to Infrastructure 1 Soil and Water ontamination 2 Air Quality 3 Vegetation loss	Nil					
3. Contractor's Camp 4.1 S Cont 4.2 / 4.3 \ 4.4 P 4.5 F 4.6 S 4.7 [4.7] 5.1 T Equipment 5.1 T	1 Soil and Water ontamination 2 Air Quality 3 Vegetation loss						
Cont 4.2 / 4.3 \ 4.4 N 4.5 H 4.5 H 4.5 H 4.5 H 4.7 I 5.1 T Equipment 5.1 T	ontamination 2 Air Quality 3 Vegetation loss	Nil					
4.2 / 4.3 \ 4.4 N 4.5 H 4.6 S 4.7 [4.7] 4. Transportation of 5.1] Equipment	2 Air Quality 3 Vegetation loss						
4.3 \ 4.4 N 4.5 F 4.6 S 4.7 [4.7] 4. Transportation of 5.1] Equipment	3 Vegetation loss	5 UU					
4.4 N 4.5 F 4.6 S 4.7 [4.7] 4. Transportation of 5.1] Equipment		Nil					
4.5 F 4.6 S 4.7 [4.7] 4.7 Transportation of 5.1] Equipment		Nil					
4.6 S 4.7 I 4.7 I 4. Transportation of 5.1 T Equipment		Nil					
4.7 [4.7] 4. Transportation of 5.1] Equipment	5 Health and Safety	Nil					Covered under OHS Report
4.7 servi 4. Transportation of 5.1 1 Equipment	6 Social and Gender Issues	Nil					Covered under social report
4. Transportation of 5.1 T Equipment		Nil				Number of chance finds: 0	
4. Transportation of 5.1 T Equipment	7 Increased load on local	Nil					Covered under social report
Equipment	ervices						
	1 Traffic Management	Nil					
	2 Soil Erosion and	Nil					
	ontamination						
		Nil					
	4 Noise	Nil					
5.5 F	5 Public Safety	Nil				Number of trainings	;
						provided:	
	6 Damage to infrastructure						
		Nil					
	2 Landslide						
	3 Soil erosion						
8.4 /	4 Air Quality						
	5 Landscape and Visual						
	trusion						
6. Waste Management 12.1	6 Vegetation loss 2.1 Soil and water						
	2.1 Soil and water ontamination						
	2.2 Odor						
	1 Changes to topography						<u> </u>
7.10	2 Landslides	Nil					<u> </u>
	3 Soil erosion						<u> </u>
7.4		Nil					<u> </u>
	ontamination						
		Nil	2				<u> </u>
7.6 F	www						Covered under

 Table 8.12:
 Key Performance Indicators and their Status during the reporting period

	OHS
7.7 Noise and Vibration Nil	
7.7 Landscape and Visual Nil	
Intrusion	
7.8 Vegetation loss Nil	
7.9 Fauna / Wildlife Nil	Not reported during the quarter
7.10 Mortality of Fish Nil	Not reported during the quarter
7.12 Damage toNil	Not reported during the quarter
 infrastructure	
7.13 Damage to PCRs Nil	Not reported during the quarter
7.14 Disturbance of Visual Nil	Nil
Landscape and Natural	
Habitats	
7.15 Social conflict due to the	Covered under
Influx of Workers and In-	Social report
 migrants	
7.16 Conflicts due to	Covered under
culturally inappropriate	Social report
 behaviors by the workers	
7.17 Adverse Effects on	
Health	
 Situation	
7.17 Increased Load on	
Local	
 Services and Supplies	

8.8 Overall Compliance Status – Tri-Partite Monthly Meetings

During the quarter, three monthly meetings were held with the Contractor by the Engineer and PMU to discuss pending environmental non-compliance and the actions taken by the Contractor to address these issues. The minutes of these meetings are shown in the Annexure. The major environmental issues discussed during the meeting were:

- Hiring of dedicated Environmental Officer
- Submission of Quarterly Environmental progress report
- Submission of revised CEAP
- Dust suppression measures
- Haulage of spoil material to designated spoil disposal sites
- Burning of Fire Wood by Labor and Security personel.

9 Electromechanical Works (EM-01)

9.1 Overview of Contracts

A brief overview of the EM-01 contract is given in Table 9.1. The EM-01 contract work is related to the electromechanical works.

Sr. No.	Item	Data
1	Contract Number	ICB No. Dasu- EM-01
2	Contract Name	Electromechanical Works EM-01
3	Contractor	JV Power China & Zhongnan Engineering Corporation limited
4	Commencement Date	May 20, 2020
5	Contract Completion Date	June 18, 2025

Table 9.1:Overview of EM-01 Contract

9.2 Contractor Environmental Action Plan

The Contractor has submitted a draft Contractor Environmental Action Plan (CEAP) with the sitespecific management plans to address the environmental impacts and risks of the construction activities. The plan was reviewed by the Engineer and the contractor was asked to revise the plan as per engineer comments. The revised report is not yet submitted.

9.3 Contractor's Facilities and ESHS Staff

The facilities established by the Contractor, such as workers' camps and construction yards, are given in Table 9.2. The Environmental Social Health and Safety (ESHS) Staff of the Contractor are given in Table 9.3.

	10	DIC 3.2.	Contractor 51 actitues	
Sr. No.	Facility	Location	Details	Remarks
A.	Worker's Camps (Kass &			Under construction at Kass. While the
	Dasu, near Matoo Hotel)			staff is living in a rented building at Dasu
1	Chinese Workers Camp	Dasu	About 1 workers in this camp	
2	Pakistan Workers Camp	Dasu	Jan # 81, Feb # 83, March # 105	
В.	Ware House	Nil		
1	EM-Equpment	Nil		
2	Storage for Camp construction	Kass	Inder construction	
	material			
C.	Other Facilities			
1	Construction Yard	Nil		

Table 9.2: Contractor's Facilities

Table 9.3: Contractor's ESHS Staff

Sr. No.	Position	KKH-02 Contract	Remarks
1	Manager EHS	Asad Abbas	Contractor has been instructed to engage environmental officer along
ľ			with supervisory staff
2	Environmental	Zawar Khan	
2	Supervisor		

9.4 Construction Activities

Details of construction activities conducted during the reporting period are shown in Table 9.4.

Table 9.4: Construction Activities in EM-01 Contract

Sr. No.	Work Site	Details of Works	Remarks
1	Kass camp of EM-01	Excavation:	In progress
		Excavation and lowering level of Terrace #2, #6, #15 was i	n
		progress.	
		Boundary Wall:	
		 Excavation completed: CP5 TO CP6 (Side boundary wall) 	
		 Lean concrete completed: CP5 TO CP6 (Side boundary wal 	1)
		 Block masonry/ Plinth Beam (RCC) was in progress: CP5 T(Ő
		CP6 was in progress.	
		 Block masonry/Plinth Beam (RCC) was in progress: CP14 T 	C
		CP15 was in progress.	
		Retaining Walls/Stone Masonry	
		 Terrace # 02 Retaining wall was in progress. 	
		 Terrace # 04 Retaining wall was in progress. 	
		 Terrace # 07 Retaining wall was in progress. 	
		 Terrace # 10 Retaining wall was in progress. 	
		 Terrace # 12 Retaining was in Progress. 	

9.5 Construction Supervision and Environmental Compliances

9.5.1 Site Inspections and WTEIRs

Site visits to the construction areas are conducted daily by the environmental staff to supervise environmental compliance of the construction activities and complete daily monitoring checklists. In addition, Joint Inspection of WAPDA and DHC Environemnt Section as well as walk-through environmental inspections have been conducted at all work sites regularly by the senior & field environmental staff of DHC and PMU to identify any environmental issues and non-compliance. The issues identified at the construction sites are communicated with the Contractor through Walk-Through Environmental Inspection Reports (WTEIRs). Currently there has been four observation were taken or reported during the quarter Jan-Mar 2023.

Table 9.5: Walk Through Environmental Inspection Report of EM-01 No.01

Report No. E-01

Date of Issuance: 02-01-2022

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
1.1	29-12-2022 Chinese canteen	Littering	<image/>	The contractor is instructed to keep waste bins on side and collect solid waste and dispose of properly according to ECPs.	immediate		

1.2	29-12-2022 Chinese canteen	Inadequate housekeeping.		The contractor is instructed to manage construction material properly according to ECPs and ensure good housekeeping at site.	immediate		
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Table 9.6:Walk Through Environmental Inspection Report of EM-01 No.02

Report No. E-02

Date of Issuance: 27-01-2022

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
2.1	26-01-2022 EM-01, steel workshop	Inadequate housekeepin g		The contractor is instructed maintain good housekeeping on site and manage construction material proper Ly as per SOPs provided in the ECP's		The EM01 contractor has done housekeeping of the site.	02-02-2022
2.2	26-01-2022 EM-01 kitchen	Chemical drums		The contractor is instructed to avoid use of chemical drums for human consumption remove the drum and provide water tank for workers with immediate effect.	immediate	The EM01 contractor removed chemical tanks with new tank for utilization of water.	10-02-2022

2.3	26-01-2022 EM-01 kitchen	Fuel wood	The contractor is instructed to provide LPG cylinders and gas stoves for cooking purposes and avoid burning woods because as per ECP's it is strictly prohibited to burn wood as fuel either for cooking or heating purposes.	The Contractor replaced burning of fuel wood with LPG Cylinder.	05-02-2022

Table 9.7: Walk Through Environmental Inspection Report of EM-01 No.03

Report No. E-03

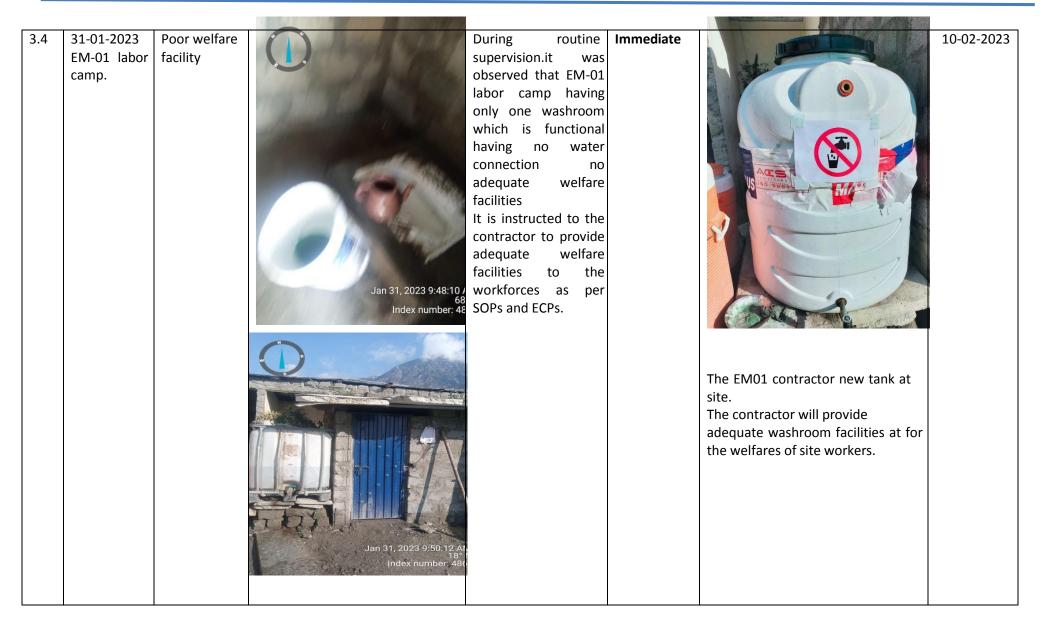
Date of Issuance: 31-01-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
3.1	31-01-2023 EM-01 Slope of labor camp.	Littering, solid waste	Lan 21: 2023 9: 49: 57 A 174° Index number: 486	The contractor is Instructed to keep waste bins on site and collect Littered, solid waste and dispose of properly as per ECPs.		The EMO1 contractor provided waste bins at site for management of waste.	07-02-2023

		A training on 'Waste Management' is also delivered to site workers for waste management at construction camp.
		Anno and

3.2	31-01-2023	Inadequate		The contractor is	Immediate	The waste seen in the image belong	
	EM-01 camp	housekeepin		instructed maintain		to effected family of EM01 camp.	Continue
		g		good housekeeping		The EM01 contractor will ask the	
		0	- 18	on site and manage		family owner to relocate the waste	
				construction		ASAP.	
			2772	material proper			
				Ly also follow SOPs			
				and ECP.			
			Ian 21 2022 0 4540 M				
			Jan 31, 2023 9,45,40 Al 191°				
			Index number: 485				

3.3	31-01-2023 EM-01 labor camp.	Chemical drums	A state of the sta	The contractor is instructed to install New water tank for the work force because the labor is also using this used chemical tank for drinking purpose. Use of Chemical tank is strictly prohibited for Humans as it can seriously affect the health of work force.		The EM01 contractor removed chemical tanks with new tank for utilization of water.	10-02-2023
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3.5	31-01-2023 EM-01 labor camp.	Bad living condition		During routine supervision it was observed that one small room having 10 labors are living. And room roof have many holes, covering with plastic cover to prevent water dripping in room. The contractor is instructed to follow the living condition in rooms as per instruction in CEAPS and construction camp management plan.		The EM-01 contractor will ensure the welfare facilities of workers at site as per CEAP.	Continue
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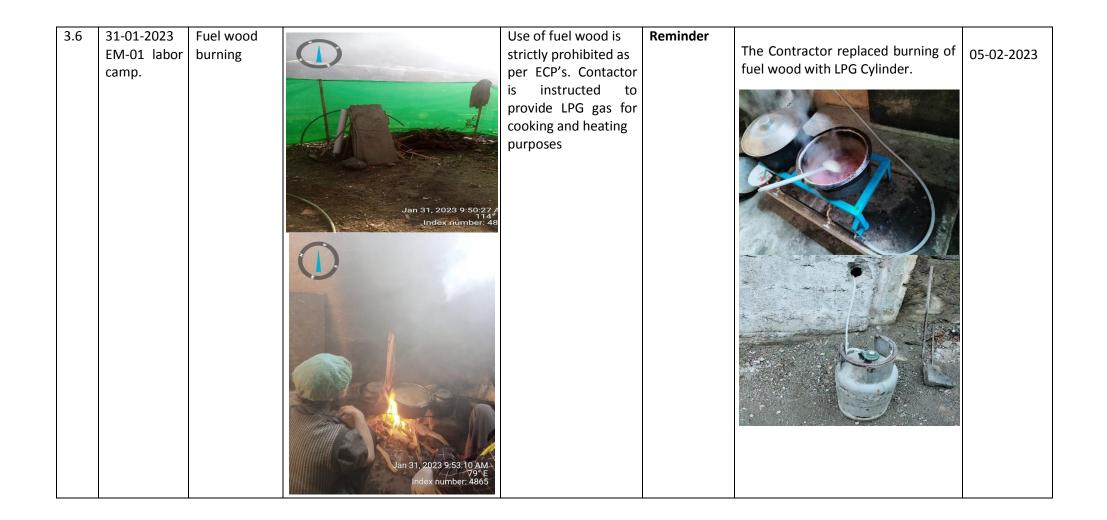


Table 9.8:Walk Through Environmental Inspection Report of EM-01 No.04

Report No. E-04

Date of Issuance: 30-03-2023

Sr. No	Date and Location of Inspection	EHS observations	Picture	Instructions to the Contractor	Timeline	Action Taken by the Contractor	Completion Date
4.1	31-01-2023 EM-01 camp near fuel storage place	Inadequate housekeeping		The contractor is instructed maintain good housekeeping on site and manage construction material proper Ly also follow SOPs and ECP.	immediate		
4.2	30-03-2023 EM-01 labor camp	Poor welfare facility		During routine supervision.it was observed that EM- 01 labor camp having only one washroom is functional having no water connection no adequate welfare facilities Camp having almost 15-20 labors accommodated. It is instructed to the contractor to provide adequate welfare facilities to the workforces as	Immediate		

			per SOPs and ECPs.		
4.3	30-03-2023 EM-01 labor camp	Improper fuel storage area	The contractor is instructed to provide shelter for fuel storage place and built proper paved or lined place for fuel storage	immediate	
4.4	30-03-2023 EM-01 labor camp	Poor accommodatio n	The contractor is instructed to keep proper distance between beds and follow ECPs and SOPs	immediate	

Note: All Non complainces were complied with ECP's and were reported in the MPR and Monthly meeting As well by EM-01 contractor. Physical verification was done by the DHC Field Staff.

9.5.2 Notices and Letters

There was a single letter and four WTEIR's issued to the contractor during the reporting quarter from Jan-Mar 2023 as there was very little work related to camp construction was performed by EM-01 contractor.

9.5.3 Quarterly Monitoring of Air, Noise, Water and Wastewater

The contractor has not conducted 24-hour monitoring of air, and noise quality during the quarter. Because the contract is just constructing its own camp in Kass Area..

9.6 Contractor's Effect Monitoring

The monitoring requirements of the Contractor as per the bidding documents are given in the following table. The Engineer's observation of the monitoring status is also given in the last column of this table.

Sr. No.	Parameter	Location	Means Monitoring	Frequency	Status
1	Landslides	37 identified landslide	Visual Inspection on stability of	Fortnightly	NA
		prone areas in EIA	landslides		
2	Erosion	Earthwork areas and	Visual inspection of erosion	Quarterly	Monitored visually. No incident
		material storage sites	prevention measures and		was recorded during the quarter.
			occurrence of erosion		
3			Sampling and analysis of river		No Quarterly Environmental
			water quality and wastewater		monitoring was conducted during
			discharges for the key		the quarter.
			parameters given in NEQS		
		be same locations of baseline water quality or	(river water quality – DO, BOD,		
			COD, Temperature, pH, Conductivity, TSS, turbidity,		
			nitrate, Wastewater – BOD.		
			TSS, turbidity, TDS, COD,		
			grease and oil, iron, ammonia,		
			sulfates, chlorides)		
4	Air Quality (dust,	Construction sites, quarry	Visual inspection to ensure	Weekly	Regular visual inspections were
	smoke)	areas along KKH and	good standard equipment is in		carried out during the quarter.
		blasting areas	use and dust suppression measures (spraying of waters)		The contractor was instructed to ensure water sprinkling
			are in place.		choure water sprinking
5	Air Quality	Near the sensitive sites and	Air quality monitoring for 24	Quarterly	No Quarterly Environmental
	00- 00- 00	settlements at the close to			monitoring was conducted during
		the construction works and	specified in NEQS 2000		the quarter.
		along KKH. The locations of			
		sampling can be same			
		locations of baseline air			
		quality or new locations recommended by the CSC.			
6		At all the construction sites	Visual Inspection	Quarterly	Regular visual inspections were
		for dam, KKH and tunnels			carried out during the quarter and
	equipment	· · · · · · · · · · · ·			no issue was observed.
7	Noise and	Near the sensitive sites and	24-hour noise monitoring	Quarterly	No Quarterly Environmental
	vibration	settlements at the close to	_		monitoring was conducted during
		the construction works and			the quarter.
		along KKH. The locations of			
		sampling can be same			
		locations of baseline air			
		quality or new locations			
8	Waste	recommended by the CSC At the designated rock	Visual inspection on spoil	Quarterly	No spoil is generated during the
-		disposal area	disposal in accordance with	-	activities at site. However, the
			EMP Sub plan on Waste		spoil disposed by RAR-01 at
			Management		Kass was used in levelling of the
					under construction camp.
9	Construction		Visual inspection that solid		Under-construction
	camps and		waste is disposed of at	1	
	construction		designated site		
_	management				
10		•	Visual Inspection for leaks and		Regular monitoring was carried
	riyurucarburi	construction yards	spills	l	out. No incident observed

 Table 9.9:
 Status of Contractor's Effect Monitoring

11	Traffic Safety	Along KKH and access	Visual inspection to see whether	Quarterly	Supervised by OHS
		roads to the construction	Traffic Management Plan (EMP		
		areas	Sub Plan 12) is implemented		
12	Local Roads	••	Visual inspection to ensure local roads are not damaged		Regular monitoring was carried out and no damage was
					observed to the local roads
	archeological Sites	EIA	implementation of EMP Sub Plan 13 on Physical Cultural Resources Management	,	The contractor kept in consideration this aspect during the excavation activities. There was no Archeological site present in the current construction area.
14		oonotraotion oampo	Ensure the construction workers are provided with safe water and sanitation facilities on the site		Monitored. The contractor provided water coolers to the workers at the sites.

9.7 Key Performance Indicators

The key performance indicators identified in the ESA¹⁰ of DHP to mitigate the environmental impacts and risks during construction can be summarized into five categories, as shown in the following table.

 Table 9.10:
 Key Performance Indicators for compliance with mitigation measures

Sr. No	Key Performance Indicator	Description of the Indicator				
1	Number of any non-compliance reports	The number of non-compliances noticed and reported to the				
		Contractor.				
2	Number of public complaints or grievances	The number of complaints or grievances received from the communities on the				
		construction-related nuisances such as traffic, dust, noise and vibration, or any other				
		construction-related activities				
3	Number of accidents/incidents	The number of accidents or incidents, or near misses involving construction activities				
		and construction vehicles				
4	Number of exceeding values	The number of parameters in ambient air and noise quality, drinking				
	against NEQS	water, wastewater discharges and surface waters found beyond the national				
		standards.				
5.	Other Indicators	Any other indicators that are not covered in the above categories are given in 'other				
		indicators.' This includes the number of times chance				
		finds are noticed, the number of trainings conducted, etc.				

A detailed assessment of the status of compliance with the performance indicators and their status during the reporting period is given in the following table. Any indicators related to OHS and social aspects are covered in the relevant reports, not in this report.

¹⁰ See Table 8.2: Mitigation Plan for Construction Stage of ESA of Dasu Hydropower Project

Activity	Environmental Impact/Issue	Number of any	Number of	Number of	Exceeding values	Other Indicators	Remarks
		non-compliance reports	related incidents	related grievances	against NEQS (ai noise, water, etc.)	r,	
1. Design/Pre- Construction	n						Not relevant
Stage		N 111					
2. Contractor	3.1 Traffic Management	Nil					
Mobilization and							
Demobilizations		N 111					
	3.2 Soil Erosion and	Nil					
	Contamination	N 111					
	3.3 Air Quality	Nil					
	3.4 Noise	Nil					
	3.5 Public Safety	Nil					
	3.6 Damage to Infrastructure	Nil					
3. Contractor's Camp	4.1 Soil and Water	Nil					
	Contamination						
	4.2 Air Quality	Nil					
	4.3 Vegetation loss	Nil					
	4.4 Noise	Nil					
	4.5 Health and Safety	Nil					Covered under
	,						OHS Report
	4.6 Social and Gender Issues	Nil					Covered under social report
	4.7 Damage to PCRs	Nil				Number of chance finds: 0	
	4.7 Increased load on local services	Nil					Covered under social report
4. Transportation of Equipment	5.1 Traffic Management	Nil					
, ,	5.2 Soil Erosion and	Nil					
	Contamination	N 111					
	5.3 Air Quality	Nil			_		
	5.4 Noise	Nil	-				_
	5.5 Public Safety	Nil	3			Number of training: provided:03, oil spill protection of flora and fauna and waste management.	
	5.6 Damage to infrastructure	Nil					
5. Spoil Area Management	8.1 Changes to topography 8.2 Landslide 8.3 Soil erosion 8.4 Air Quality 8.5 Landscape and Visual Intrusion 8.6 Vegetation loss	Nil					
6. Waste Management	12.1 Soil and water contamination 12.2 Odor						Not reported during the quarter
7. EM-01 Camp Construction	7.1 Changes to topography			1			
	7.2 Landslides	Nil		1	1		
	7.3 Soil erosion			1	1		

 Table 9.11:
 Key Performance Indicators and their Status during the reporting Period

7.4 Soil and water contamination	Nil	2		Soil was contaminated with oil spill and sewage water
				directly releasing in to the soil without making a septic
				tank
7.5 Air Quality	Nil			Nil
7.6 Health and Safety				Covered under OHS
7.7 Noise and Vibration	Nil			
7.7 Landscape and Visual Intrusion	Nil			
7.8 Vegetation loss	Nil			
7.9 Fauna / Wildlife	Nil			Not reported during the quarter
7.10 Mortality of Fish	Nil			Not reported during the quarter
7.12 Damage to infrastructure	Nil			Not reported during the quarter
7.13 Damage to PCRs	Nil			Not reported during the quarter
7.14 Disturbance of Visual Landscape and Natural Habitats	Nil			Nil
7.15 Social conflict due to the Influx o Workers and In- migrants	f			Covered under Social report
7.16 Conflicts due to culturally inappropriate behaviors by the workers	y e			Covered under Social report
7.17 Adverse Effects on Health Situation	Nil			Covered under OHS Reports
7.17 Increased Load on Local Services and Supplies	Nil			Covered under Migration management Report
Use of Wood as fuel				Use of wood was reported in abor and staff at underconstruction Camp area and existing camp

9.8 Overall Compliance Status- Tri-Partite monthly Meetings

During the quarter, three monthly meetings were held with the Contractor by the Engineer and PMU to discuss pending environmental non-compliance and the actions taken by the Contractor to address these issues. The minutes of these meetings are shown in the Annexure. The major environmental issues discussed during the meeting were:

- Hiring of Environmental Officer
- Submission of Monthly Environmental progress report
- Submission of CEAP
- Dust suppression measures
- Inadequate Housekeeping
- Minor Oil Spills
- Chemical Tank being used for Drinking & Domestic Water Usage in the underconstruction camp at Kass.
- Trainings for Oil Spills and Waste Management, Protection of Fora and Fauna to all Staff including Labor/ All Chinese Staff either Labor or Management
- Submission of Traffic Management Plan(TMP)
- Burning of Fire Wood by Labor and Security personel in Jan-Feb 2023.

10 Other Environmental Activities

10.1 Visit Conducted during the Quarter

10.1.1 Visit to Kuzabanda Service Area for Preparation Traffic Management Plan(TMP)

The Traffic Engineer, DHC (joined on 25th of Jan, 2023.) along with Sr. Environmentalist, DHC on 04th & 5th of March 2023 visited Kuzabanda Site to re-visit the parking spaces, layby areas, establishment of site offices along route from rest area of Kuzabanda up till Dasu Town as well as explore options like installation of traffic safety markers/signboards, guard railings etc. The whole Right of Way (RoW) was thoroughly checked for over sized vehciles alos, over hanging rocks, bottle necks e.g., Jijal and Pattan Bazars. The Team also visited the foundation pile of Keyal Khwar Bridge which was exposed by the floods of July and August 2022.

10.1.2 Meeting with D.G (SS) WAPDA on TMP

There was meeting chaired by D.G SS&E WAPDA held on 13th of Feb 2023 among the WAPDA Environment Team and Environment Team of DHC along with the Traffic Engineer DHC for a discussion on Traffic Management Plan. The D.G (SS) WAPDA directed the Traffic Engineer to make certain changes in the traffic management plan regarding removal of metallic guard rails and introduction of concrete impact bariers even where the road is very narrow. There was another direction regarding identification of parking/layby areas in Dasu when undergoing the loading and unloading operation and changing the traffic management sketch by removing the bridge at Barseen. There were some other issues discussed as well like cost cutting, changing hierarchy and nomenclature of positions, etc.

10.2 Solid Waste Disposal Area

Background: The solid waste disposal site screening report for a SWD Site in Kaigah was submitted on 4th of August 2022 and approval of the report along with the go ahead for Land Acquisition came on 20th of Dec 2022. Land Acquisition section issued a formal request to Revenue Department of Upper Kohistan on 22nd Dec 2022.

In the month of January 2023 the "Revenue Department" of District Upper Kohistan (U.K) tried to follow the short route of acquisition i.e., to acquire land as additional land of KKH-01 24+00 to 24 +400 RD. For this purpose a preliminary survey was conducted by the Revenue team in which the Land owners were identified for settleing the price at negotiated price. There was a clash between two groups regarding that piece of land near Kaigah. The revenue department of Upper Kohistan tried to settle the issue on their own but all went in vein. After 1st week of March 2023, Land Acquisiton Collector(L.A.C) Upper Kohistan(U.K) approached the senior management of DHPP to change the land acquisition procedure by issuing a new section-04 for the proposed SWD Site near Kaigah. This option was refused by the proprieter of DHPP and DHC was again directed to find a new site which is already acquired. The environment section of DHC is now in search of a new SWD Site as per Directions of WAPDA.

10.3 Meetings Conducted During the Quarter

10.3.1 Meeting with Contractors of RAR-01, KKH-01, MW-01, MW-02, RAR-02, KKH-02 and PCI-01R, TL-01, EM-01

Monthly Progress Review meetings for the quarter were conducted in January, February and March 2023, pending issues were discussed, the status of environmental issues were closed which were rectified and new observations regarding environmental non-compliances were made part of the discussion. Later, minutes of meetings were prepared and issued to all contractors.

10.3.2 Meetings with Project Manager KKH-02 (CGGC)

A detailed meeting among the Environment Section of DHC with Mr. Yao PM of KKH-02 was conducted on 14th of March 2023 to discuss the non-complainces at KKH-02. The main agenda which was discussed was the hiring of the Environmental Officer as per contract agreement, Preparation and submission of revised CEAP for KKH-02. The revised CEAP was required as the project design had included 7 tunnels and 6 bridges at different location of KKH-02 right of way. It was cleared to the PM, KKH-02 that non complainces at his sites were because of non hiring of the Environment Officer. The DHC observed a major change in EMAP implementation the upcoming days due to this meeting among Environment Team of DHc and Mr. Yao PM, KKH-02.

10.3.3 Meetings with MW-01 and MW-02 Team of CGGC

• Air Dispersal & Noise Modeling

A number of meetings were conducted with CGGC alone for the implementation of EMAP. In February there was a meeting held with Mr. Sun Kang (EHS Director CGGC) for the rectification of Air Dispersal Modeling Report for Seo crusher plant which was prepared by Hagler and Bailey Pakistan. The Air dispersal Modeling Report didn't possessed the results as the model was runned by Hagler and bailey based on assumptions. The contractor CGGC didn't provided the actual specifications of the polant to be installed at Seo Village.

• Sedimentation Tank of Uchar Thoki Crusher Plant

One of the major issue discussed in different meetings was the sedimentation tank of Uchar Thoki Crusher Plant as DHC had observed that the Uchar Thoki Crusher Plant was releasing waste water with High pH and High turbidity. Therefore three special meetings were conducted on 09th of March 2023, 25th of March 2023 and 27th of March 2023. The first meeting was conducted at the site of Uchar Thoki Crusher Plant in which contractor was guided by DHC Enviornment Section to construct two new sedimentation tanks for increasing the retention time of the waste water. These new sediemtnation tanks were intended to lower down the pH level of the waste water being released by the plant.The second and third meeting chaired by D.G (SS) WAPDA followed by a detailed on site visit by Mr. Asayama (RE MW-01), Mr. Ali Ozbek(Technical Advisor MW-01) and Environemnt Section CGGC). At site there were different options discussed with the contractor and finalized a sketch for the two newly proposed sedimentation tanks to lower down the pH Level and turbidity of the waste water.

10.3.4 Meeting with WAPDA

- (i) Meeting was held among the newly hired Traffic Engineer and D.G SS&E for the updating of Traffic Management Plan (TMP) on 13th of February 2023. The D.G SSE emphasized on the details of staff requirements, Logistics Requirements, Parking Areas, Traffic Safety equipment's, scheduling of inbound and outbound traffic during the construction phase and cost to bear for implementation should be included in the updated TMP.
- (ii) Meeting on 26th of February 2023 with D.G SS&E WAPDA for discussion on presentation to be given to World Bank on 27th of February 2023
- (iii) The Environment Section of DHC attended virtual weekly meeting (dated: 1st of March, 2023) between WAPDA, DHC and World Bank regarding safety issues of DHPP with an additional agenda regarding Environment.
- (iv) Meeting (Dated: 3rd March 2023) with CGGC regarding wastewater discharges from the sedimentation tank of Uchar Thoki Stone Crushing Plant. Due to high turbidity of the wastewater it was violating the DHPP Environmental codes of practices and conditions of the KP-EPA NOC. The contractor was instructed to reduce the freshwater addition, connect the sedimentation discharges with settlement tank of the batching plant.
- (v) A meeting was held on 17th of March 2023 at WAPDA PMU Hall. Environment section was called upon to participate in the meeting to brief WAPDA Advisor project regarding DHPP traffic management plan. The Advisor project instructed to submit the plan by 31st March 2023 after incorporating Basha Dam (DBDP) project logistic data. WAPDA has been requested to provide the data.
- (vi) Meeting on 25th of March 2023 with D.G, SS&E WAPDA for discussion on preparation of new sedimentation tanks to decrease the high suspended load in the wastewater coming from Uchar Thoki Stone Crushing Plant for MW-01 Component.
- (vii) Another meeting and immediate site visit was conducted on 27th of March 2023, on the same agenda of preparation of new sedimentation tanks to decrease the high suspended load in the wastewater coming from Uchar Thoki Stone Crushing Plant for MW-01 Component. The Contractor proposed a sedimentation tank near the entrance of the crusher plant. The Engineer advised the contractor to construct a sedimentation tank adjacent to the existing one and connect it to the proposed sedimentation tank. The design for the proposal is awaited.

10.3.5 Meeting with CGGC EHS and Laboratory Team for bringing pH level of Sedimentation Tank within NEQS

A meeting was conducted with CGGC EHS Team and Laboratory Team on 1st of March 2023 for conducting an experiment on the sedimentation tank of MAT for lowering of pH in the sedimentation Tank with using mild acid dilution in the sedimentation tank. The environment Team of DHC arranged diluted sulfuric acid(H_2SO_4) with 25% V/V of 50 % concentration. There were seven samples which were runned down in which 0.1 ml, 0.3 ml, 0.5ml, 1ml, 2.5ml, 4ml, 5ml, was used. The Sample size was 1000ml. The experiment resulted in reducing the pH level to a range where it was coming within the NEQS limit. The final effective quantity which was 0.3ml in 900ml resulted in a pH level of 7.8. Later on the contractor did his own calculations based on this experimentation and another meeting was held on 14th of March 2023. The EHS Director of MW-01 and 02 presented his calculations and the amount of acid to be used in the sedimentation tanks of MW-01 & MW-02. The total amount required in a month was too costly and might have had some environmental and safety implications. Therefore, this option is still under consideration but not applied on site. It is important to notice that this option is clearly written in the IFC Guidelines to treat the waste water.

10.3.6 Quarterly Environmental progress review meetings with all Contractors

Quarterly Progress Review meeting for the Quarter of January -March 2023 were held during the quarter. Pending issues were discussed and new environmental non-compliances were also part of the discussion. Minutes of Meeting was prepared and issued to all stakeholders.

10.4 Additional Efforts; Joint Inspection of Environment Sections of WAPDA & DHC

10.4.1 Month of February 2023

Joint visits of different components of DHPP were conducted in the reporting month i.e., MW-01&2, EM-01 was conducted on 14th of February 2023 and KKH-01, PCI-01R and TL-01 on 21st of February 2023. The findings of these inspection visits were share vide Walk through Inspection Report to the concerned contractor. The Joint visit of WAPDA and DHC on 29th of February 2023 to KKH-02, RAR-02 was cancelled due to World Bank Implementation Support Mission(ISM)

10.4.2 Month of March 2023

Joint visits of different components of DHPP were conducted in the reporting month i.e., on the 1st of March 2023 there was a Joint Inspection by DHC and WAPDA for conducting of on-site Acid Treatment Tests by the MW-01 and MW-02 Contractor (CGGC) to lower down the pH values by addition of diluted acid in it (NEQS Limit of Waste water is 6-9).

On the 7th of March 2023, there was a visit conducted on MW-01&2, EM-01& RAR-01. Another Visit was conducted on 14th of March 2023 on KKH-01, PCI-01R and TL-01. The joint visit of WAPDA and DHC on 21st of March 2023 to KKH-02, RAR-02 was cancelled due to prior engagement of WAPDA Staff in some other official matters. On 28th of March 2023. There was another joint inspection visit by WAPDA and DHC to MW-01&02 contractor sites. The findings of these inspection visits were share vide Letters as well as walk through inspection report (WTEIR) to the concerned contractors. All these joint visits by WAPDA & DHC Environment staff were concentrated on the environmental non-compliances.

10.5 Meeting with World Bank (WB) Implementation Support Mission (ISM)

The World Bank Mission came to Dasu Hydropower Project in this 1st quarter of 2023. The WB ISM came in February 2023 from 26th– 28th of February 2023 and. The environment team of DHC prepared three presentations for the World Bank Team which are given as follows:

- (i) Presentation on DHPP Traffic management Plan; 27th Feb 2023
- (ii) Presentation on EMAP for WB Mission; 27th Feb 2023

10.5.1 WB Mission Details

The World Bank Environment Team Visited Dasu Hydropower Project in December 2022. The ISM started from 26th of February 2023 and WB Environment Team left on 28th of February 2023. On 27th Feb 2023 "The Engineers" Environment Team delivered presentation to the WB Environment Team. Agenda points are described as follows:

• Organogram for the implementation of EMAP (WAPDA, DHC, Contractors)

- Status of Pending Issues managed since December 2022 WB mission
- Efforts made to resolve the issues
- Air Dispersal Modeling Status
- Stone Crushing Plant of CGGC at Seo Village
- Spoil disposal sites
- Update on Traffic Management Plan

On 26th of Feb 2023 WB team visited Coffer dam, Underground works of MW-01 & 02 and Colony construction sites. (Pictures attached)

10.5.2 NCR issued to the Contractors

Two NCRs were issued to different Contractors regarding failure to mobilize Environmental officer while two NCRs were issued regarding Oil spill. Following Table shows the status of the NCR issued with date.

Sr. No.	Contract	Subject	Issuance Date
1	RAR-02	NCR-Failure to Hire and Mobilize Environmental Officer for RAR-02"	19 th Jan 2023
2	KKH-02	NCR-Failure to Hire and Mobilize Environmental Officer for RAR-02"	19 th Jan 2023
3	MW-01	Persistent Oil Spills at Construction Sites	22 nd Feb 2023
4	MW-02	Persistent Oil Spills at Construction Sites	22 nd Feb 2023
5	MW-01	Dumping of Sludge material on the right bank of the Indus River near coffer dam area and Diversion Tunnel-C.	15 th March 2023

10.6 Letters/ Reports sent to Contractors and WAPDA

Sr. No.	Subject	Date				
1.	Request for Issuance of Recommendation Letter for Fuel Storage License (form-II rules 115 Article 5 Petroleum Rules 1937-CCECC	09 Jan 2023				
2.	Engineers Reply to Submission of Required Documents for Third Party Environmental Monitoring Laboratory	09 Jan 2023				
3.	Engineer's comments on 7th Quarter Environmental Monitoring Schedule- KKH-01	11 Jan 2023				
4.	Engineer reply on Approval of Laboratory and 7th Quarterly Environmental Monitoring Plan of CCECC for KKH-01	11 Jan 2023				
5.	Comments on the Monthly Environmental Report of the Contractor CGGC for MW-01 & 02	12 Jan 2023				
6.	Submission of Utilization Record of coarse and Fine Aggregates till October 2022	12 Jan 2023 13 Jan 2023				
7.	7. Comments on the Monthly Environmental Report of the Contractor CGGC for RAR-2					
8.	Air Noise Dispersal Modelling Report Submission	16 Jan 2023				
9.	Third Party Environment Monitoring by EPA KPK Approved Laboratory on KKH-01	25 Jan 2023				
10.	Ref No: DHC/Dasu/CCECC/KKH-01/zic/23-030; KKH-01-Re-Submission of Construction Environmental Action Plan (CEAP) and Monthly EHS Monitoring Report NO.84 (Reminder-01)	02.02.23				
11.	No: DHC/Dasu/PCCCfTL-01/zic/23-15; Re-Submission of Monthly HSE Report No. 74 for the Month of December, 2022	06-02-2023				
12.	Ref No: DHC/Dasu/WAPDA/GEN/zic/23-190; Submission of Utilization Record of Coarse and Fine Aggregates till November 2022	07-02-2023				
13.	Minutes of Monthly Environmental Progress Meeting PCI-01R held on 31 Jan 2023	11-02- 2023				
14.	Minutes of Monthly Environmental Progress Meeting MW-01 &02 held on 31 Jan 2023	11-02-2023				
15.	Minutes of Monthly Environmental Progress Meeting KKH-01 held on 31 Jan 2023	09-02-2023				
16.	Minutes of Monthly Environmental Progress Meeting KKH-02 held on 31 Jan 2023	11-02-2023				

17.	Minutes of Monthly Environmental Progress Meeting RAR-01 held on 31 Jan 2023	09-02-2023
18.	Minutes of Monthly Environmental Progress Meeting RAR-02 held on 31 Jan 2023	11-02-2023
19.	Minutes of Monthly Environmental Progress Meeting TL-01R held on 31 Jan 2023	11-02-2023
20.	Minutes of Monthly Environmental Progress Meeting EM-01 held on 31 Jan 2023	11-02-2023
21.	Ref No: DHC/Dasu/CGGC/MW-01/zic/23-106; Engagement of Third Party Environmental Monitoring Laboratory	12-02-2023
22.	Ref No: DHC/Dasu/CGGC/MW-01/zic/23-121; Air Dispersion Modeling Report for Stone Crushing Plant at Seo Dasu Performed by Hagler & Bailly on Behalf of CGGC	15-02-2023
23.	Ref No: DHC/Dasu/CCECC/RAR-01/zic/23-020; Walk Through Environmental Inspection -Joint Site Inspection of WAPDA and DHC	17.02.23
24.	Ref No: DHC/Dasu/PCC/TL-01/zic/23-020; Re-Submission of Monthly HSE Report No.75 for the Month of January 2023	18.02.23-
25.	Ref No: DHC/Dasu/CGICOP/PCI-01R/zic/23-047; Re-Submission of Monthly EHS Report of the Month of January 2023	18.02.23-
26.	Ref No: DHC/Dasu/CGGC/MW-01/zic/23-128; Environmental Non- Compliances Observation at Site	18-02-23
27.	Ref No: DHC/Dasu/CGGC/MW-01/zic/23-129; Inadequate Sedimentation Tank at Thoki Crusher Plant	19-02-23
28.	Ref No: DHC/Dasu/CGGC/MW-01/zic/23-130; Engineer Comments on the Air and Noise Dispersion Modelling Reports of Seo Crusher Plant	20-02-23
29.	Ref No: DHC/Dasu/CCECC/RAR-02/zic/23-027; Hiring of Environmental Specialist	21.02.23
30.	Ref No: DHC/Dasu/CCECC/KKH-01/zic/23-057; KKH-01-Review of Monthly EHS Monitoring Report No.84 for the Month of December 2022	21.02.23
31.	Ref No: DHC/Dasu/CCECC/KKH-01/zic/23-058-KKH-01-Review of Monthly EHS Monitoring Report No.85 for the Month of January 2023	21.02.23
32.	Ref No: DHC/Dasu/CCECC/KKH-02/zic/23-037; Hiring of Environmental Specialist	21-02-23
33.	Ref No: DHC/Dasu/CGGC/MW-01/zic/23-141; Hiring of Environmental Officer	21-02-23
34.	Ref No: DHC/Dasu/CGGC/MW-02/zic/23-052; Review of Environmental Officer	21-02-23
35.	Ref No: DHC/Dasu/CGGC/MW-01/AO/23-144-MW-01-Environmental Inspection for Thoki Uchar Crushing Plant 1#	22-02-23
36.	Ref No: DHC/Dasu/CCECC/KKH-01/zic/23-062; Submission of Proper Design for the Construction of Sedimentation Tank at Chuchang Batching Plant	22-02-23
37.	Ref No: DHC/Dasu/CCECC/KKH-02/zic/23-39; Submission of Fuel Storage License	22-02-23
38.	Ref No: DHC/Dasu/CGGC/MW-01/zic/23-149: Plantation at Thoki Crusher Plant	23-02-23
39.	Ref No: DHC/Dasu/CGGC/MW-01/zic/23-159: Provision of Specification of Seo Crush Plant to Hagler Bailey for Updating of Air Dispersal Modelling Report	25-02-23
40.	Ref No: DHC/Dasu/WAPDA/Gen/zic/23-247: 32nd Environmental Progress Report for the Period from Oct to December 2022	25-02-23
41.	DHC/Dasu/WAPDA/MW-01/zic/23-186; MW-01-Submission of Utilization	05-03-2023
	Record of Coarse and Fine Addregates till December 2022	
42.	Record of Coarse and Fine Aggregates till December 2022 DHC/Dasu/CGICOP/PCI-01R/zic/23-061; Re-Submission of Monthly EHS Report for the Month of January 2023	06-03-2023
42. 43.	DHC/Dasu/CGICOP/PCI-01R/zic/23-061; Re-Submission of Monthly EHS Report for the Month of January 2023 DHC/Dasu/GEPC/EM-01/zic/23-072 EM-01-Joint Site Inspection of	06-03-2023 08-03-2023
	DHC/Dasu/CGICOP/PCI-01R/zic/23-061; Re-Submission of Monthly EHS Report for the Month of January 2023	
43.	DHC/Dasu/CGICOP/PCI-01R/zic/23-061; Re-Submission of Monthly EHS Report for the Month of January 2023 DHC/Dasu/GEPC/EM-01/zic/23-072 EM-01-Joint Site Inspection of WAPDA and DHC Ref No. DHC/Dasu/CCECC/RAR-01/zic/23-029 RAR-01-Joint Site	08-03-2023

	held on 3 rd March 2023	
47.	Minutes of Monthly Environmental Progress Review Meeting KKH-01	09-03-2023
47.	held on 3 rd March 2023	09-03-2023
48.	Minutes of Monthly Environmental Progress Review Meeting KKH-02 held on 2 nd March 2023	09-03-2023
49.	Minutes of Monthly Environmental Progress Review Meeting TL-01 held on 3 rd March 2023	09-03-2023
50.	Minutes of Monthly Environmental Progress Review Meeting PCI-01R held on 4 th March 2023	09-03-2023
51.	Minutes of Monthly Environmental Progress Review Meeting KKH-01 held on 3 rd March 2023	09-03-2023
52.	Minutes of Monthly Environment Progress Review Meeting MW-01& MW- 02 held on 2 nd March 2023	10-03-2023
53.	Ref: DHC/Dasu/CCECC/KKH-01/zic/23-085; KKH-01-Construction of Crushing Plant at Chuchang	11-03-2023
54.	Ref: DHC/Dasu/WAPDA/MW-01/zic/23-201; MW-01-Walk Through Environmental Inspection - Joint Site Inspection of WAPDA and DHC	11-03-2023
55.	Ref: DHC/Dasu/WAPDA/MW-02/zic/23-083; MW-02-Walk Through Environmental Inspection - Joint Site Inspection of WAPDA and DHC	11-03-2023
56.	Ref: DHC/Dassu/CCECC/KKH-01/zic/23-088; Construction of Uchar Batching Plant	13-03-2023
57.	NCR No. CGGC/MW -01 /Env/23-02; MW-01-NCR-Disposal of Sludge Near Right Bank of Indus River	15-03-2023
58.	Ref: DHC/Dasu/CCECC/KKH-01/zic/23- 096; KKH-01-Environmental - Joint Site Inspection of WAPDA and DHC	16-03-2023
59.	Ref: DHC/Dasu/ CGGC/MW-01/zic/23-212; MW-01-Environmental Non- Compliance at Starter Dam Site	16-03-2023
60.	Ref.: DHC/Dasu/PCCCfTL-01/zic/23-072; TL-01-Joint Site Inspection of WAPDA and DHC	17-03-2023
61.	Ref : DHC/Dasu/CGGC/MW-01/zic/23-217; MW-01-Submission of Detailed Traffic Management Plan	18-03-2023
62.	Ref: DHC/Dasu/ CGICOP/PCI-01R/zic/23-074; PCI-01R-Joint Site Inspection of WAPDA and DHC	18-03-2023
63.	Ref: DHC/Dasu/ CGGC/MW-01/zic/23-219; MW-01-Design Details of Sedimentation Tanks for Uchar Crushing and Batching Plant	18-03-2023
64.	DHC/Dasu/CCECC/KKH-0 1/zic/23-100; KKH-01-Detail Design of Sedimentation Tank of K-6 Batching Plant	18-03-2023
65.	Ref: DHC/Dasu/CCECC/KKH-01/zic/23-107; KKH-01-Washing of Concrete Transit Mixer in Chuchang Nullah	19-03-2023
66.	Ref: DHC/Dasu/CGGC/KKH-02/zic/23-066; KKH-02-Submission of Fuel Storage License	19-03-2023
67.	Ref: DHC/Dasu/CGGC/MW-01/zic/23-220; MW-01-Engineer Reply on Initiation of Tree Plantation Under the Contract	19-03-2023
68.	10.7 Ref: DHC/Dasu/CGICOP/PCI-01 R/zic/23-080; PCI-01R-Washing of Concrete Transit Mixer in Chuchang Nullah	19-03-2022
69.	Ref: DHC/Dasu/CCECC/KKH-01/zic/23-109; KKH-01-Detail Design of Sedimentation Tank of K-9 Tunnel	20-03-2023
70.	Ref: DHC/Dasu/CGGC/MW-01/zic/23-222; MW-01-Mitigation Measures for Waste Water From Thoki Crusher Plant	20-03-2023
71.	Ref: DHC/Dasu/CCECC/KKH-01/zic/23-112; KKH-01-Approval of Construction Environmental Action Plan (CEAP)	20-03-2023
72.	Ref: DHC/Dasu/WAPDA/GEN/zic/23-342: Request for Performance Review of Newly Hired Traffic Engineer at DHPP	25-03-2023
73.	Ref: DHC/Dasu/CCECC/KKH-01/zic/23-114: KKH-01-Engineer Reply on ES-PAK Laboratory Environmental Approval	26-03-2023
74.	Ref: DHC/Dasu/PCC/TL-01/zic/23-037: TL-01-Reply on Submission of Water Quality Test Report	27-03-2023
75.	Ref No: DHC/Dasu/CGGC/MW-01/ zic/23-240: Requirement of Two Sedimentation Tanks As Mitigation Measures For Waste Water From	28-03-2023

	Thoki Crusher Plant	
76.	Ref: DHC/Dasu/CGGC/MW-01/zic/23-244; MW-01-Engineer Reply on the	29-03-2023
	Apply for Approval of Environmental Officers	
77.	Ref: DHC/Dasu/CGGC/KKH-02/zic/23-082; Submission of Revised	29-03-2023
	Contractor Environmental Action Plan CEAP for KKH-02	
78.	Ref: DHC/Dasu/CGICOP/PCI-01R/zic/23-084; PCI-01R-Request for	29-03-2023
	Water Quality Testing at WAPDA Colony Chuchang	

10.8 Joint Inspection by EHS Teams of WAPDA and DHC

The Joint Inspections were mutually agreed between EHS Teams of WAPDA and DHC in Jaunary that these Inspections will be conducted on regular basis. The Joint Inspections started on14th of February and scheduled upo till June 2023 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	14 Feb 2023, 7 & 28 March 2023	Done
02	MW-02	14 Feb 2023, 7 & 28 March 2023	Done
03	KKH-01	21 Feb 2023 and 14 March 2023	Done
04	PCI-01 & TL-01	21 Feb 2023 and 14 March 2023	Done
05	RAR-01	14 Feb 2023, 7 & 28 March 2023	Done
06	RAR-02	28th Feb 2023 &21 st March 2023	Done
07	KKH-02	28th Feb 2023 &21 st March 2023	Done

10.9 Tree Removal Data

Total trees cut down due to construction of DHPP components or associated activities are 4182 up till Dec 2022. The contractors has not shared Tree cutting data in the reporting period from January to March 2023.



10.10 Physical Cultural Resources (PCR)

No Physical Cultural Resources found on any construction site of DHPP till date..

10.11 Grievance Redressal Mechanism

There is a one tier Independent Grievance Redressal Committee which is headed by a retired Additional Deputy Commissioner (A.D.C). The Engineer's Environment Section is in close liaison with this IGRC and till date there has been no registered grievances regarding Environmental component of DHPP.

Annexures

Annexures

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Annexure A: Minutes of Monthly Environmental Progress Meetings

(MW-01 & 2, KKH-01 & 02, RAR01 & 02, TL-01, PCI-01R & EM-01)

(Minutes of Meeting for Month of January 2023)

	POWER PROJECT /W-01& MW-02) January 2023 31 st Jan 2023
Employer: WAPDA (DHPP)	51 Jan 2023
Engineer: Dasu Hydropower Consultants (DHC)	
Contractor: China Gezhouba Group Co., LTD (CGGC)	
Subject: Monthly Environment Progress Review Meeting for MW-01&02. Date: 31 st Jan 2023 Time: 09:00 am-09:50 am Place: DHC meeting Hall Exhibit: Attendance Sheet	Agenda: Monthly Environmental Progress Review Meeting of MW-01&02.
Attendees See the attached attendance sheet	
Distributed (Softcopy) to: 1. Employer - DHP WAPDA GM/PD, Dasu - DHP WAPDA Director (Environment), Dasu 2. Engineer - DHC RE MW-01&02, Dasu	3. Contractor, CGGC4. Office File / Circulation
Agreed by:	
Employer Enginee	<u>r</u> <u>Contractor</u> -02-2023 Date:
	Hagen Togingiim
Representative ofRepresentatEmployer- WAPDA (DHPP)Engineer (

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Minutes of the Monthly Environmental Progress Review Meeting (MW-01& MW-02) January 2023

		MW-02			Location		DHC Office	
Employer		WAP	PDA	DA Date of Meeting		g	31 st Jan 2023	
Engineer			DHC			Place of meeting		DHC Meeting Hall
Contra	actor	CGO	CGGC			Time		09:00 am-09:50 am
§r. #	Checked Items and		A Emp.	ction By Eng.	Con.	Target Date for Action	Action Confirm Date	Status Closed, Open, Partially Closed
23	Status of 3 rd party monitoring as per contract	Quarterly environmental specifications			V	20/05/2021	02/06/2021 02/07/2021 26/10/2021	In process. In process. The contractor informed that the contract with the laboratory is in process be CGGC commercial department. Not done.
							30/11/2021	Not done. The contractor was instructed immediately arrange 3 rd party quarter environmental monitoring.
							30/12/2021	Partially done. The Contractor mobilize <i>Bureau Veritas</i> environmental monitorin laboratory to site but their equipment were n as per the monitoring specifications. The Laboratory was demobilized and were asked come up with all the calibrated analyzers an instruments. The contractor informed that the laboratory will be remobilized to site by 10 January 2021.
							07/02/2022	The Contractor informed that they a considering new environmental laboratory f the environmental monitoring which may mobilized by 20 th February 2022. Employ and Engineer instructed the Contractor to sha profile before mobilization of t environmental laboratory.
					1		01/03/2022	The Contractor informed that they a considering new environmental laboratory f the environmental monitoring which may mobilized by 20 th February 2022. Employ and Engineer instructed the Contractor to sha

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				profile before mobilization of the environmental laboratory
			05/04/2022	"The Engineer" will write a letter to contractor for updated status about the Third-Party Monitoring Laboratory Hiring Status.
		\checkmark	28/05/2022	Not Done: Contractor shared its decision that SGS Laboratory is finalized by the CGGC but number of parameters is still under discussion.
			30/06/2022	Not done. The Contractor informed that their contract section wants clarification regarding the number of parameters to be tested. A meeting in this regard will be scheduled by the
			29/09/2022	Engineer. The contractor has decided to take SGS on board for the third party monitoring purpose but there is a meeting scheduled in 13 th October 2022 in order to discuss and finalize
			02/11/2022	the Parameters to be performed. Not Done: The contractor informed that the certification and equipment list of another lab will be shared with the Engineer for their approval by 12 th Nov 2022.
			30/11/2022	Not Done: The contractor informed that they are in search of a lab and they will submit by 12^{th} of Dec 2022.
			29/12/2022	Not Done: CGGC has again come up with Bureau Veritas Environmental Laboratory. The contractor has agreed to re submit the technical profile of M/s Bureau Veritas with all requisite documents especially certificate of
				registration from PK EPA. The engineer with consent from WAPDA has agreed to re consider this organization with all complete documentation and proof of all statutory

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		1	 			
						requirements to be submitted by CGGC up till 25 th of January 2022.
					31/01/2023	Not done. The contractor has sought new timeline for himself i.e., up to 16 th of Feb 2023 for sorting this issue. The contractor will pursue the matter with their Bureau Veritas (B.V) Laboratory. If the B.V Lab doesn't share its Certificate of Registration from EPA, KPK than CGGC has to share a new KP EPA Approved Laboratory profile up till 16 th of Feb 2023.
36	Appointment of Environment Director		V	16 th January 2021	07/02/2022	Not done . The Contractor informed that search for the candidate is in progress and CV will be shared with the Engineer for approval most probably by 25 th February 2022.
					01/03/2022	Not done. Contractor informed that search for
					28/05/2022	suitable candidate is still in progress. Not Done: The matter is still pending;
					20/03/2022	Contractor has assured to share CV of suitable candidate who has some practical experience. Not done. Contractor verbally discussed about
					30/06/2022	a potential candidate Mr. Afzal who was engaged in Neelum Jehlum. The Engineer instructed the contractor to submit the CV officially to proceed further in this matter.
					29/09/2022	Note Done: The contractor will submit the resume of the nominated person 14 th Oct 2022
					02/11/2022	Not done. The Contractor informed that search for the candidate is in progress and CV will be shared with the Engineer for approval most probably by 17 th November 2022.
					30/11/2022	Not done . The Contractor informed that search for the candidate is in progress and CV will be shared with the Engineer for approval most probably by 12 th December 2022.

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				29/12/2022	Not Done: The contractor was informed that this matter is also discussed with WB and the WB is also of the view that in case of non- availability of 15 years' experienced person the experience may be reduced to 10 years. On this issue the Engineer has already seeked approval from WAPDA. The contractor has agreed to a find a suitable candidate and submit his her resume before 23 rd of Jan 2023.
				31/01/2023	WAPDA has sought guidance from World Bank and World Bank has reduced the Experience up to 08 years. Therefore, On these basis CGGC MW-01 and MW-02 contracts has sought time up till 15 th of Feb 2023
53	Ensure Water Sprinkling in the Khoshe Area previously managed by Zhongmei	~	Immediate	02/11/2022	Partially Done: Ensure Water Sprinkling in the Khoshe area allocated to CGGC as well as Zhongmei
				30/11/2022	Partially Done Ensure Water Sprinkling in the Khoshe area allocated to CGGC as well as Zhongmei
				29/12/2022	Partially Done: Contractor has agreed to ensure compliance of Water Sprinkling. On- going activity,
				31/01/2023	Partially done: Contractor has agreed to ensure compliance of Water Sprinkling. Ongoing activity,
54	Oil Spills: Work Shop area @ CR-09 near bailey bridge	V	Immediate	29/12/2022	It has been observed that the mechanics in workshops drain hydraulic fluids as well as used oils directly on open soil. This practice must be stopped immediately by contractor staff. Therefore, CGGC contractor have agreed to impart training to 100% of their staff regarding oil spill before 25 th of January 2022.
					If the oil spill practice is still observed on the sites than the person responsible for oil spill will be fined. Fines will be collected by the

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				31/01/2023	contractor's management through deductions in their salary. Partially Done: Contractor will share record up till 8 th of Feb 2023 of the trainings and fines imposed (if any) regarding oil spills to the Engineers Office.
55	Used oil and New Oil Storage Training	V	Immediate	29/12/2022	Contractor has agreed to imparted training to all off its staff on how to handle/ change the oil of different equipment's/ vehicles/ machinery on site and off site. Similarly special bounded storage areas (having concrete foundations) will be established by the contractor in-order to avoid any oil spillage. All used oils will be stored in 200 liter drums which will be placed on concrete foundations and bounded with at least the capacity of the oil storage vessels itself.
				31/01/2023	Partially Done: The contractor has conducted trainings on the oil spillage issue but has not imposed any fines yet on the polluters. Therefore, contractor has agreed to share record of the trainings up till 8 th of Feb 2023.
56	Water Quality of Sedimentation tanks	V	Immediate	29/12/2022	The contractor has agreed to impart methods of introduction of acid to lower the pH of the sedimentation ponds on all sites of MW-01 &MW-02.
				31/01/2023	The contractor has agreed to improve the water quality as the pH levels is consistently high Therefore the contractor will be adding higher quantities of fresh water. The contractor has also agreed to conduct an experiment in their lab in which he will come out with a result that how much amount of acid is needed to lower the pH value of Waste water and submit to the Engineer up till 10 th of Feb 2023.

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57	Inadequate Housekeeping @ CR-09; Work shop adjacent to aggregate storage area inside CR-09, almost 100m from the gate.		V	Immediate	29/12/2022	The contractor has agreed to ensure good housekeeping @ CR-09 Store and Workshop areas.
					31/01/2023	Done
58	CR-09 Batching Plant		~	Immediate	29/12/2022	Concrete Mixer trucks are washed up at MW- 02 Batching plant adjacent to CR-09 soil disposal area. The waste water is directly going in to the Indus River. This practice is strictly prohibited. All waste water should be released after appropriate retention in the sedimentation ponds as well as the pH of the Waste water should be under NEQS Limit i.e., 6-9
					31/01/2023	Done.
59	Contractors Local Staff Residential Facility Inspection required	V		Immediate	29/12/2022 31/01/2023	The engineer will conduct meeting among Environment and OHS Sections and then decide that who will be conducting this inspection and with what frequency. During the inspection Workers Welfare facilities will be monitored as per provisions in the contract. Not Done : The Engineer conducted the inspection in Jan 2023 and found the discrepancies regarding provision of hot water, overcrowding and filthiness of toilets, waste management is still existing. Therefore Contractor has agreed to rectify the situation in the Labor camp of Pakistani staff and raise an AFI up till 10 th of Feb 2023 to the Engineer.
60	Sedimentation Tank @ Uchar Crush Plant		V	Immediate	29/12/2022 31/01/2023	The sedimentation Tank is very dirty and contains lot of sediments and sludgy froth is on top of the water. Therefore contractor has to clear the sedimentation tank before 16 th of Jan 2023 and submit an AFI to The Engineer for inspection Not Done Therefore Contractor has agreed to rectify the situation by cleaning the sedimentation tank on daily basis and ensuring

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						of addition of fresh water in large quantities, at the sedimentation tank and raise an AFI up till 10^{th} of Feb 2023 to the Engineer.
61	Installation of Wet Scrubbers on Uchar Crush Plant		V	Immediate	29/12/2022	The contractor has agreed to install sprinkling system on the conveyor belt of the Uchar Crushing Plant(wet scrubbers) Therefore contractor has agreed to install Wet scrubbers before 23 rd of Jan 2023 and submit an AFI to The Engineer for inspection
					31/01/2023	Not Done Therefore Contractor has agreed to rectify the situation at the Uchar Crush Plant and install water sprinklers (Wet scrubbers) and raise an AFI up till 10 th of Feb 2023 to the Engineer.
62	Zero Tolerance policy for animals at site		V	Immediate	29/12/2022	No animal are allowed on the construction site by any staff member of CGGC at any construction site. The contractor has agreed to remove all animals from all construction sites before 16 Jan, 2023. {*Note: If Chinese Nationals want to keep dogs, they should be kept in special cages in Chinese part of Barseen Camp) and properly vaccinated for rabies and other communicable diseases.}
					31/01/2023	Partially Done: Contractor has removed some of the animals from construction sites but still there are some animals like pigeon and chicken on CR-09 site, dogs on CR-02 site etc.
63	Welfare facilities @ CR-02		V	Immediate	29/12/2022	The contractor has agreed to hire a dedicated janitor for every site who will be responsible for cleaning the toilets at least three time a day in one shift. Additionally the Toilet at CR-02 are choked up, therefore they will be cleared of any sludge and the septic tank will also be cleared along with the toilets. The contractor

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					has also agreed to install flushing system at CR-02.
				31/01/2023	Not Done: The contractor has agreed to rectify the situation by 10^{th} of Feb 2023.
64.	Use of wood as fuel is still going on the switchyard site.	٨	Immediate	31/01/2023	The contractor was told to immediately stop use of wood as fuel and contractor has agreed to provide LPG Gas cylinders to its staff.
65	Use of chemical tank for human use.	N	Immediate	31/01/2023	Contractor has agreed to replace this chemical tank with a new Water Tank as empty chemical tank is being used for store water for human consumption.

Confirmed by:

Heart
The Employer
Letter A
AD (600)
06/02/02

.

America
The Engineer/Consultant

Awais Hillion Sx . Environment Sp 01-02-02023

The Contractor You TRMI Environment, 2023.2.

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Annexure-01: Attendance Sheet

Dasu Hydropower Project

Dasu Hydropower Consultants

Meeting Attendance Sheet

Monthly Progress review meeting: KKH-01/RAR-01/TL-01(MW-01&2)LBRV-11&12/PCI-01R/RAR-02/KKH-02

Date: 31-01-2023

Sr. No	Name of Participant	Dept./Organisation	Designation	Contact No.	Signature
1	Awais Hassan Khan	DHC	Sr Env Specialist		America
2	SAFED UL HASSAN	CGGC HEED	OHSO MW OI		Carl
3.	Yang Jinjin	C44C USED	Environent mumor		182222
" 4	Nasis Kran	DHC	Field inspectoe		Qual
5-	RAHMAT ALS	HE CAGC	Env. Supervisor	03554279961	Manue tr.
6.	Forhat Ali	WAPDA	Dy. Director	0344 9596 431	Carden
				· · ·	

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DASU HYDROPOWER PROJECT MINUTES OF MEETING (RAR-01) January 2023 31 st January 20							
Employer: WAPDA (DHPP)							
Engineer: Dasu Hydropower Consultants (DH Contractor:	IC)						
China Civil Engineering Constructi	on Co., LTD (CC	CECC)					
Subject: Monthly Environmental F Review Meeting for RAR-01. Date: 31 st January 2023 Time: (11:02 am-11:35 am) Place: DHC Meeting Hall Pages: 01 Exhibit: Attendance Sheet		Agenda: Monthly Environmenta Meeting of RAR-01.	al Progress Review				
Attendees							
See the attached attendance sheet							
Distributed (Softcopy) to: 1. Employer - DHP WAPDA GM/PD, Dasu - DHP WAPDA Director (Environ 2. Engineer - DHC RE Roads, Dasu	nment), Dasu	3. Contractor, CCEC 4. Office File / Circu					
Agreed by:							
Employer Date:	Engineer Date: 0/-02	2-2023	<u>Contractor</u> Date:				
Representative of Employer- WAPDA (DHPP)	Awais H·k Representative Engineer (D	e of	Representative of Contractor(CCECC)				

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DH

MINUTES OF THE MONTHLY ENVIRONMENTAL PROGRESS REVIEW MEETING (RAR-01) January 2023

	Project RAR-01			Locati	on		DHC Office			
	Employer WAPDA				Date o	of Meeting		31/01/2023 (11:02 am-11:35 am)		
	Engineer DHC			Place of meeting				DHC Meeting Hall		
Contra		CCECC			Attend	lance		Attendance Sheet Attached*		
Sr.#		and Actions Planned	Emp.	Action by Eng.	Con.	Target Date for Action	Action Confirm Date	Status Done/Closed, Not Done/open, In Progress/Partially closed		
36	Drilling	ession Measures during			~	Immediate	05/11/2022 29/12/2022 31/01/2023	Not Done Partially Done: This is a continuous activity and should be continued till the end of the project. Partially Done: This is a continuous activity and should be continued till the end of the project.		
37	Oil Spill				V	Immediate	29/12/2022 31/01/2023	Contractor has agreed to impart training to all staff especially mechanics and before 23 rd of Jan, 2023. Contractor has also agreed to impose fines to all of its staff who so ever will be responsible of oil spillage after 30 th of Jan 2023. Done: The contractor has agreed to share the record with the Engineer.		
38	Inspection of Welfar			V		15 th of Jan 2022	29/12/2022 31/01/2023	To be conducted by "The Engineer" Done: The contractor was informed about the discrepancies at the Zaal Camp		
39	Concrete Mixer / Tr Nullah/ Water body	uck Washing at Nearby			V	Immediate	29/12/2022 31/01/2023	The contractor agreed to train their drivers and maintenance staff not to wash their concrete mixers and other dumping vehicles in or Nearby Nullah/Water body Partially Done: The contractor has agreed to impart training to their drivers/ mechanics and other staff regarding this issue and promised to share record of trainings with the Engineer. In case of non-compliance the respective driver/ conductor will be fined.		

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Confirmed	l by:			
	light	Aurin		
	The Employer	The Engineer/Consultant	The Contractor	
Name:	Clagat Ald	Awais. 1.1 , 1Chan	- 37 mg	-
Position:	AN (BED)	58. Eurizon went Specialist	pm.	_
Date:	06/02/020	01-02-2023	61-02-2013	-

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Annexure: Attendance Sheet of the Participants

Dasu Hydropower Project

Dasu Hydropower Consultants

Meeting Attendance Sheet

Monthly Progress review meeting: KKH-01/RAR-01/TL-01/MW-01&2/LBRV-11&12/PCI-01R/RAR-02/KKH-02

Date: 31-01-2023

Sr.	Name of Participant			our ornan-oz	Date: 31-01-202
No	in an	Dept./Organisation	Designation	Contact No.	Signature
01	Fashat Ali	WAPDA	Dy Director ENV	03449596431	- Cas Qui
02	Awais Hassan Khan	DHC	Sr. Env Specialist	0333-6563675	Auron
03	Nasie Khan	DHC	Field Inspector		and
034	MANZOOR HUSSAZON	CCECC	HSE Manager	0345-5887751	any.
05	JUNAID Ahmed	CRECL	HSE Manager	0345-9601987	Quin
06	Zhang Mui Liang	CCECL	12Si Livector		法部样
07	ARIF HUSSAIN	CCECL	EHS	0345-2848920	Alking t

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DASU HYDROPOWER PROJECT MINUTES OF MEETING (RAR-02) January 2023 31st January, 2023					
Employer: WAPDA (DHPP)					
Agenda: Monthly Environmental Progress Review Meeting of RAR-02.					
3. Contractor, CGGC4. Office File / Circulation					
<u>Contractor</u> Date: 14-02-2023					
ive of DHC) Representative of Contractor(CGGC)					

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MINUTES OF THE MONTHLY ENVIRONMENTAL PROGRESS REVIEW MEETING (RAR-02) January 2023

Project RAR-02				Locatio	on		DHC Office	
Employer WAPDA		0			f Meeting		31/01/2023 (09:50am-10:25am)	
Engineer DHC		Pla		Place of	Place of meeting		DHC Meeting Hall	
Contra			CC		Attend	ance		Attendance Sheet Attached*
Sr.#	Checked Items a	and Actions Planned	A	Action by	7	Target	Action	Status
			Emp.	Eng.	Con.	Date for Action	Confirm Date	Done/Closed, Not Done/open, In Progress/Partially closed
01	01 Hiring of Dedicated Environmental Manager for RAR-02 Component				V	5 th of June 2022	30/06/2022 29/09/2022	 share CV of a relevant candidate to be considered for the post. Not Done; Contractor is instructed to submit the
							02/11/2022	 resume by 17th of Oct 2022. Not Done; Contractor is instructed to submit the resume by 17th of Nov 2022.
							30/11/2022	resume by 15 th of Dec 2022, otherwise an NCR will be issued against this non-compliance.
							29/12/2022	2 Not Done: The contractor has been shared with grave concern by the Engineer to submit a suitable candidate resume by 17 th of Jan 2023. Already an NCR is issued on 10 th of Dec 2022.
							31/01/2023	qualified and experienced candidate resume by 14 th of Feb 2023.
03	taken at site on regu	pression measures to be ular basis with at least 3 cional if required because already started.			V	Immediate	30/06/2022	dedicated water sprinkler is deputed at site which not only sprinkle along the access road but also at the excavated material before disposal.
							23/03/202	to the working faces is narrow and dumper and water bowser cannot reach the working face of the site therefore contractor is given time up till 30 th of Oct 2022 to improve accessibility of the track.

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					02/11/2022	Not Done: The contractor is instructed to ensure water sprinkling on all working faces of all the sites. The narrow track issue is still prevailing and contractor has been given time up till 14 th of Nov 2022.
					30/11/2022	Not Done: The contractor is instructed to ensure water sprinkling on all working faces of all the sites. The narrow track issue is still prevailing and contractor has been given time up till 27 th of Dec 2022.
					29/12/2022	Not Done: The excavated material is rolled down the slope by the contractor creating a huge dust cloud. The contractor has agreed to install water pumps which will lift water from nearby stream/ river to sprinkle it upon the slopes as well as the excavated material so that there is no fugitive dust.
					31/01/2023	Not Done: The contractor has requested to conduct a joint visit of The Engineer, WAPDA and CGGC RAR-02 Team in which Road Engineers, Geologists, and Environmentalist. The Engineer and WAPDA has agreed to this request and the joint visit will be carried out on 14 th of Feb 2023.
04	Rolling of Debris/ over burden or any loose material after blasting/ slope cutting activity to be hauled away at the designated site of Kass disposal site on RAR-01.		V	Immediate	30/06/2022	Not done. The Contractor is strictly instructed to ensure haulage of the spoil to designated spoil disposal area
					29/09/2022	Not Done; The contractor informed that at the moment the spring which was nearby is dried up and the path to the working face is narrow, due to which the dumper cannot reach the exact working face. As soon as the dumper can reach the working face the haulage of excavated material will be started.
					02/11/2022	Not Done: The contractor is instructed to haul the excavated material to the designated spoil

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09	Designated Spoil disposal Plan submission required by the Contractor	~	16 th of Jan 2023	30/11/2022 29/12/2022 31/01/2023	The contractor is instructed to submit the spoil disposal plan up till 15 th of Dec 2022. Not Done: The contractor has agreed to submit Spoil Disposal Plan by 16 th of Jan 2023 Not Done: The contractor has requested to conduct a joint visit of The Engineer, WAPDA
10	Oil Spillege Terining				and CGGC RAR-02 Team in which Road Engineers, Geologists, Environmentalist and OHs Staff. The Engineer and WAPDA has agreed to this request and the joint visit will be carried out on 14 th of Feb 2023. The spoil Disposal plan will be submitted after the joint visit and will be based on its technical decisions.
10	Oil Spillage Training		23 Jan 2023	29/12/2022 31/01/2023	Submit record for oil spillage at RAR-02 (Sigloo Side). {Contractor has agreed to impart training to all staff especially mechanics and before 23 rd of Jan, 2023. Contractor has also agreed to impose fines to all of its staff who so ever will be responsible of oil spillage after 30 th of Jan 2023.} Partially Done: The contractor has conducted training of its staff but record is not yet shared with The Engineer. Done: RAR-02 EHS team will share the record in the January 2023 MPR.
11	Drinking Water Supply Record Submission required by RAR-02 EHS Team for all working faces.	~	09 th Jan 2023	29/12/2022	The contractor has agreed to submit by 09 Jan 2023. Not Done : The contractor has shared that the labor has not been consuming their supplied water because of availability of spring water nearby but as per contractual obligation the contractor has agreed to supply drinking water.
12	Spoil Disposal Plan	~	20 th Jan 2023	29/12/2022	The contractor has agreed to submit a proper spoil disposal plan which will not only highlight the location map of spoil disposal areas but complete methodology that which work faces will use which spoil disposal site and what amount of

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				30/11/2022 29/12/2022 31/01/2023	disposal site and not to roll down any spoil material along the slope Not Done: The contractor has requested to give him time up till 27 th of Dec 2022 which was agreed by the Engineer. Not Done: The contractor is instructed to haul the excavated material to the designated spoil disposal site and not to roll down any spoil material along the slope endangering habitat along the slopes as well as aquatic life form and Nearby Human Settlements. Not Done: The contractor has requested to conduct a joint visit of The Engineer, WAPDA and CGGC RAR-02 Team in which Road Engineers, Geologists, Environmentalist and OHs Staff. The Engineer and WAPDA has agreed to this request and the joint visit will be carried out on 14 th of Feb 2023.
05	Oil spill should be removed		V	29/09/2022 02/11/2022	Not Done Partially Done: The contractor agreed to submit Environment incident Report by 14 th Nov 2022
				30/11/2022	Partially Done: The oil spill is removed but the Environment Incident report is still pending from contractor side.
				29/12/2022	Not Done: Contractor has agreed to impart training to all staff especially mechanics and before 23 rd of Jan, 2023. Contractor has also agreed to impose fines to all of its staff who so ever will be responsible of oil spillage after 30 th of Jan 2023.
				31/01/2023	of Jan 2023. Done: RAR-02 EHS team will share the record in the January 2023 MPR.

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Annexure-01: Attendance Sheet

Dasu Hydropower Project

Dasu Hydropower Consultants

Meeting Attendance Sheet

Monthly Progress review meeting: KKH-01/RAR-01/TL-01/MW-01&2/LBRV-11&12/PCI-01R/RAR-02/KKH-02

Date: 31-01-2023

Sr. No	Name of Participant	Dept./Organisation	Designation	Contact No.	Signature
ÓI	Farhad Ali	Dy. Divector /wape	A Dy. Divector	03449596431	- Con
02	Liagat Ali° Khan	OHSO-RAR-D2/CGG	OHSD-RAR-02	0344 <i>95</i> 96431 0344-9734735	A sure the
03	Awais Hassan Khan	DHC ENV	St Env Specialist		Mar
04	Nasa Khan	DHC ENV	Field Inspector	0345-	ante
05	Shi Feng	Pm - PMP-22/(660		03428308428	Ronz
					1

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	POWER PROJECT G (KKH-01) January 2023 31 st Jan 202
Employer: WAPDA (DHPP)	51 Jaii 202.
Engineer: Dasu Hydropower Consultants (DHC)	
Contractor: China Civil Engineering Construction Co., LTD (CCECC)
Subject: Monthly Environment Progress Review Online Meeting for KKH-01. Date: 31 st Jan 2023 Time: 11:40am-12:10 pm Place: DHC Meeting Hall Pages: 02 Exhibit: Attendance Sheet	Agenda: Monthly Environmental Progress Review Meeting of KKH-01.
Attendees See the attached attendance sheet	L
Distributed (Softcopy) to: 1. Employer - DHP WAPDA GM/PD, Dasu - DHP WAPDA Director (Environment), Dasu 2. Engineer - DHC RE Roads, Dasu	3. Contractor, KKH-014. Office File / Circulation
Agreed by:	
EmployerEngineerDate:Date: 01-	<u>r</u> <u>Contractor</u> -02-2023 Date:
Representative of Employer- WAPDA (DHPP)	ive of Representative of

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Project Employer		HE MONTHLY ENVIRONME KKH-01			Location		DHC Dasu Office 31/1/2023 (11:40am-12:10 pm)	
		WAPDA	WAPDA			Date of Meet		
	Engineer	DHC	2			Place of Mee	eting	DHC Meeting Hall
	Contractor	CCECC			Attendance		Attendance Sheet Attached	
Sr.#		Items and Actions Planned	Emp.	Action By Eng. Con.		Target Date for Action	Date to Confirm Action	Status Done/Closed, Not Done/Open, In Progress/Partially closed
road and KKH porti		nt water sprinkler for Khohse access portion as summer has arrived e the frequency of sprinkling.			V	Immediate	04/04/2022 28/05/2022 30/06/2022 29/09/2022 02/11/2022 30/11/2022	The contractor is instructed to continue the water sprinkling with enhanced frequency. The Contractor CCECC is instructed to allocate separate Water Bowsers for different locations a KKH-01 allocated portions due to long haulage of water i.e. Uchar Camp. Partially done The employer instructed DHC to Re-send designated area to KKH-01. The Engineer will share the re allocation of the area.
							29/12/2022 31/01/2023	The contractor has agreed to ensure wate sprinkling on regular basis on all allocated sites These will also include 200 m portion of Zhongme contractor. Done
47	Proper Disposal and other chemic	of Used Engine/ Equipment Oils als			X	Immediate	28/05/2022 30/06/2022 29/09/2022	Please add details of this activity in the MPR of May 2022 with photographic records as well for before spillage and after spillage. Note Done; Photographic record should be maintained by the contractor and proper write up should be added to the next month's MPR. Not Done;

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				02/11/2022	Partially Done
				30/11/2022 29/12/2022	Not Done: The contractor will share record by 5 th of Dec 2022 Partially Done: The area where the used engine oil is temporarily stored should be bounded with at least 12 inch barricading so that the in case of leakage of oil from drums it will not go outside the
				31/01/2023	storage area. Not Done: K-04 and K-09 Bounding of the storage areas for used engine oils is still pending.
53	Construction of Septic Tank at K4	V	Immediate	02/11/2022	Not Done
				30/11/2022	Done: Formal submission to be made by the contractor up till 05 th of Dec 2022
				29/12/2022	Not Done: Contractor has agreed to comply by 16 th of January 2023
				31/01/2023	Done: Septic tank construction is finished.
56	Scrap Removal from K-09 up till 20 th Dec 2022	V	Immediate	30/11/2022	Contractor will do the compliance up till 20 th of Dec 2022
				29/12/2022 31/01/2023	Not Done The scrap is not removed yet Done: Scrap is removed from the K-09 ssite
58	Cleaning of Washing Rooms frequency to be increased at least 3 times a day at K-4 and K-9	1	Immediate	29/12/2022 31/01/2023	Note Done Done
59	Housekeeping is inadequate K-9	V	Immediate	29/12/2022 31/01/2023	Note Done Done: Housekeeping record will be shared by the contractor with The Engineer.
60	License for fuel storage at K-9	V	Immediate	29/12/2022 31/01/2023	Not Done Not Done: The contractor promised to follow up the matter with the concerned authorities and update by 10^{th} of Feb 2023.
61	Hiring of Dedicated Environmental Manager and Environmental Supervisor for KKH-01 Site.	V	Immediate	29/12/2022 31/01/2023	Not Done Not Done: The contractor will share qualified and experienced person resume up till 15 th of Feb 2023

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62	Batching Plant washing/ wa	ste water effluent just		Immediate	29/12/2022	Not Done
	releasing in Chuchang Nu	llah. Concrete Mixer	v	miniculate	31/01/2023	
	washing in Chuchang Nullah	(K4 & K9)			51/01/2025	Partially Done: The batching plant is closed and removed from the site and
63	All generators do not have		V	Immediate	29/12/2022	Not Done
	should remain under NEQS i	.e., 85 dB			31/01/2023	Not Done @ K-09: The contractor has agreed to
						install canopies for the generators by 20 th of Feb
						2023.
64	Batteries are to be installed in		V	Immediate	29/12/2022	Not Done
	outside or on open soil.K4 &	K9,			31/01/2023	Done: After verification by The Engineer This
(5						matter will be cleared.
65	Used Oil Filters Storage & re	cord to be shared by 6 ^m	N	Immediate	29/12/2022	Not Done
	Jan 2023.				31/01/2023	Not Done: The record will be shared up till 7th of
66	Common Dinning Hall show	Id he meetided to the		T 11.		Feb 2023.
00	Common Dinning Hall should be common		V	Immediate	31/01/2023	Not Done
Confirm		r				
	ieu by					
4	tight	Auto				
The Em	pløyer	The Engineer			The Contrac	tor
	10 110					
Name:	alagat Alo	Awais H. Khan			iz m2	\$
	11					
Position	: AD (GCO)	S. E. Ewironment Specialis	et		PM	
	- ela 100-	Awais H. Khan Sz. Eweironment Specialis 0 (-02-2023				
Date:	00102023	01-02-623			01-07-	2013

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Annexure-01: Attendance Sheet

Dasu Hydropower Project

Dasu Hydropower Consultants

Meeting Attendance Sheet

Monthly Progress review meeting: KKH-01/RAR-01/TL-01/MW-01&2/LBRV-11&12/PCI-01R/RAR-02/KKH-02

Date: 31-01-2023

Sr. No	Name of Participant	Dept./Organisation	Designation	Contact No.	Signature
01	Fashat Ali	WAPDA	Dy. Director ENV	03449596431	- Rac Qui
02	Awais Hassan Khan	DHC	Sr. Env Specialist	0333-6563675	America
03	Nasia Khan	DHC	Field Inspector	03415-9577742	Greet
034	MANZOOR HUSAZN	CLECL	HSE Manag er	0345-5887751	0107 .
05	JUNAID Ahmed	CRECL	HSE Manager	0345-9601987	Quin
06	Zhang livixiang	CCECL	1-1Si divector		法品祥
07	ARIF HUSSAIN	CCECC	EHS	0345-2848920	Alsigh

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	DROPOWER PROJECT ETING (KKH-02) January, 2023 31 st Jan, 2023
Employer: WAPDA (DHPP)	51 Juli, 2025
Engineer: Dasu Hydropower Consultants (DHC)	
Contractor: China Gezouba Group Co., LTD (CGGCC)	
Subject: Monthly Environmental Progress Review Meeting for KKH-02. Date: 31 st Jan 2023 Time: (10:30am-11:00am) Place: DHC Meeting Hall Pages: 01 Exhibit: Attendance Sheet	Agenda: Monthly Environmental Progress Review Meeting of KKH-02.
Attendees See the attached attendance sheet	
Distributed (Softcopy) to: 1. Employer - DHP WAPDA GM/PD, Dasu - DHP WAPDA Director (Environment), D 2. Engineer - DHC RE Roads, Dasu	3. Contractor, CGGC 4. Office File / Circulation
Agreed by:	
Employer En	gineer Contractor

Date:

laga

Representative of Employer- WAPDA (DHPP) Engineer Date: 01-02-2023

Aurais H. 1 chan

Representative of Engineer (DHC)

Contractor Date: 06-02-2023

Dr. Fozal Ur Rehman

Representative of Contractor(CGGC)

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MINUTES OF THE MONTHLY ENVIRONMENTAL PROGRESS REVIEW MEETING (KKH-02) January 2023

Projec	t	KRH-02	2		Locatio	on		DHC Office
Emplo	yer	WAPDA	1		Date o	f Meeting		31/01/2023 (10:30am-11:00am)
Engin	eer	DHC			Place of	of meeting		DHC Meeting Hall
Contractor		CGGCC	CGGCC			ance		Attendance Sheet Attached*
Sr.#	Checked Items	and Actions Planned	Action by			Target	Action	Status
			Emp.	Eng.	Con.	Date for Action	Confirm Date	Done/Closed, Not Done/open, In Progress/Partially closed
01	Hiring of Dedicated for KKH-02 Compo	Environmental Manager			V	20/07/2022	29/-09/2022 02/11/2022	Not Done: The employer instructed the Engineer
		4					20/11/2022	to issue NCR to contractor for Non compliance
							30/11/2022	Not Done: NCR has been Issued by the Engineer
							29/12/2022	Not Done The contractor has agreed to share Resume of Suitable candidate by 23 rd of Jan 2023 so that NCR closure procedure can be proceeded with.
							31/01/2023	Note Done: The contractor has agreed to share a qualified and experienced persons resume up till 15 th of Feb 2023
02	Submission of CEA Comments	AP as per the Engineers			V	16 th of Jan 2023	29/09/2022	Not Done
							02/11/2022	Not Done
							30/11/2022	Partially Done: The contractor needs to update the CEAP as per new design changes
							29/12/2022	Not Done: The contractor needs to update the CEAP as per new design changes i.e. addition of New Tunnels and Bridges and improve the shortcomings in the CEAP as commented by the Engineer by 20 th of Jan 2023.
							31/01/2023	Note Done: The contractor has agreed to submi up till revised CEAP up till 15 th of Feb 2023.

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04	Fugitive Dust Suppression measures to be	V	Immediate	29/-09/2022	Not Done
	taken at site on regular basis with at least 3 time a day and additional if required because summer season has already started.			02/11/2022	Not Done The Contractor was instructed to submit spoil disposal and sprinkling plan by 14 th of Nov 2022
				30/11/2022	Partially Done: The contractor needs to cover the Jeep able tracks as well during the water sprinkling activity. The Information has been added to the MPR but the information is in adequate as The Engineer want to have a clear picture about Spoil disposal, and Water Sprinkling Therefore it is instructed to the contractor to re write the Spoil Disposal and Water Sprinkling Plan.
	, ,			29/12/2022	Not Done: The contractor is advised by the Engineer to prepare a Water Tank along the existing KKH and pump water from that tank at lower elevation to the higher elevations for fugitive dust suppression works. Timeline for this implementation is 23/01/2023
05	Rolling of Debris/ over burden or any loose material after blasting/ slope cutting activity to be hauled away at the designated disposal site only	~	Immediate	31/01/2023 29/-09/2022	Done: The contractor informed that the passage to the site is very narrow and the dumper cannot reach in that very location resulting in some of the material being rolled over the slope. In future as the path is widened enough that the dumper can reach at the very location of where work is under progress haulage activity will start immediately.
				02/11/2022	Not Done: The Contractor was instructed to submit spoil disposal and sprinkling plan by 14 th of Nov 2022
				30/11/2022	Partially Done: The Information has been added to the MPR but the information is in adequate as The Engineer want to have a clear picture about Spoil disposal, and Water Sprinkling issues.

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	•				29/12/2022 31/ 01/2023	Therefore it is instructed to the contractor to re write the Spoil Disposal and Water Sprinkling Plan. Not Done: New date for compliance of slope protection and haulage of excavated material is agreed with the contractor as 23 rd of Jan 2023 Not Done: Share the new methodology agreed with Technical Team (Road Design Engineers)
06	Ensure environmental topics to be covered in TBT		V	Immediate	29/-09/2022 02/11/2022 30/11/2022 29/12/2022 31 /01/2023	Not Done Not Done The contractor informed that TBT will be covered in the MPR which will be submitted by 14 th of November 2022 Partially Done: The contractor has given information in the MPR i.e. Table 2 of Introduction Chapter but This table should have separate explanation and proper write up should be developed for it. Not Done: The contract have to comply by 16 th of Jan 2023 especially, oil Spills, Waste Management, Housekeeping, dust suppression measures, cleanliness and hygiene among workers, communicable diseases, protection of flora and fauna, Protection of Water Bodies from Pollution. Soil Protection, Slope Protection. Partially Done: The contractor has agreed to share fortnightly with cover letter and in the MPR of every month also.
07	Solid Waste Management procedures especially segregation should be ensured at site with proper reporting in the next MPR.		V	Next MPR of Sep 2022	29/-09/2022 02/11/2022 30/11/2022	Not Done: The contractor informed that solid waste management procedures will be covered in the MPR which will be submitted by 14 th of November 2022 Partially Done: The information is provided in the MPR but the write up needs a strong review and re phrasing.

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				29/12/2022 31/01/2023	Partially Done: The information is provided in the MPR but the write up needs a strong review and re phrasing. Done
09	The contractor is instructed to coordinate with other contractor for ease of local community passing through the road. Traffic management Plan should also be reflected in MPR of Oct 2022	~	Immediate	30/11/2022 29/12/2022 31/01/2023	 Partially Done: Only K45 & K47 still possess traffic closure issues. Partially Done: Traffic Management especially closing of traffic and release of traffic should be synchronized within KKH-02 jurisdiction as well as RAR-02 Kandia Side so that it may not hinder movement of the traffic on the existing KKH. Contractor has agreed to undertake the above measures after resumption of work. Done
10	Loose Material from Slopes	~	Immediate	31/01/2023 31/01/2023	Contractor has agreed to remove all boulders and other loose rock from the slopes by 23 rd of January 2023. Partially Done: The contractor has agreed to share the photographic evidence along with location maps and report.
11	Oil Spill	~	Immediate	29/12/2022 31/01/2023	Contractor has agreed to impart training to all staff especially mechanics and before 23 rd of Jan, 2023. Contractor has also agreed to impose fines to all of its staff who so ever will be responsible of oil spillage after 30 th of Jan 2023. Partially Done: The contractor has agreed to share the training record in the January 2023 MPR.
12	Used Drums, Spill Sheets, Drip trays procurement	1	Immediate	29/12/2022	KKH-02 Representative Mr. Hou Fei has agreed to conduct procurement of Drip trays, Spill Sheets, Spill Kits, PPE's Necessary for Oil Change and Spillage for KKH-02 contract. Training of all staff is required by 23 rd of Jan 2023 for all staff having topic: "In case of Oil/Chemical Spillage, how to use Spill Kit on site"

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5	Provision of Portable toilet on the KKH-02 Sites as well as container offices.			V			
14				v	Immediate	31/01/2023	The contractor has agreed to place portable toilets as well as container offices for the site staff for their perusal.
	Wood Burning at different locations of KKH-02			V	Immediate	31/01/2023	Wood Burning is strictly prohibited as per ECP's provided in the contract.
Confirm	The Employer	The E	ingineer/	Consul	ltant	Ch. The Contractor	Ø
Name:	Ciagat Ali	Awai	is H.	Khor	<u>^</u>	Dr. Fozal 1	n Lehnom
Position	: <u>AD(ED)</u>	Sn.E	Enviro	umen	t Specialist	Egyit. more	por (acting)
Date:	06/02/022	01-	-02-2	023		06-02-2	023

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Annexure-01: Attendance Sheet Dasu Hydropower Project

Dasu Hydropower Consultants

Meeting Attendance Sheet

Monthly Progress review meeting: KKH-01/RAR-01/TL-01/MW-01&2/LBRV-11&12/PCI-01R/RAR-02/KKH-02

Date: 31-01-202 3

Sr. No	Name of Participant	Dept./Organisation	Designation	Contact No.	Signature
01	Fashat Ali	Dy Director WAPD,	y Dy Director	03448536431	Cor
02	Awais Hassan Khan	OHC ENV	Sr Env Specialist		Maria
03	Nasir Khan	DHC Env	Field Inspector	0345-9577742	Baul
04	Syed Usman Aftikhow	CGGC OHSO	OHSO	03004230022	TIMM
oś	Syed Usman Aftikhow Dr. Fozal ur Rehman	CGGC Emitter	Etts	03474846528	De and

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	ROPOWER PROJECT ING (PCI-01R) JANUARY 2023
Employer: VAPDA (DHPP)	31 st Jan 2023
Engineer: Dasu Hydropower Consultants (DHC)	
Contractor: China Gansu Co., LTD (CGICOP)	
Subject: Monthly Environmental Progress Review Meeting for PCI_01R. Date: 31 st Jan 2023 Time: 12:15 pm- 12:50 pm Place: DHC Meeting Hall Pages: 02 Exhibit: Attendance Sheet	Agenda: Monthly Environmental Progress Review Meeting of PCI-01R.
ttendees See the attached attendance sheet	
Distributed (Softcopy) to: 1. Employer - DHP WAPDA GM/PD, Dasu - DHP WAPDA Addl Chief Engineer (Enviro Dasu	3. Contractor, CGICOP 4. Office File / Circulation
2. Engineer - DHC RE Infrastructure, Dasu	
greed by:	
EmployerEng*Date:Date	ineer <u>Contractor</u> : 01-02-2023 Date:
Pate: Date Maria	es H.Kuan (4/1 /4/2) Intative of 67/02/2023
	entative of Representative of 67/02/2023 eer (DHC) Contractor(CGICOP)

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MINUTES OF THE MONTHLY ENVIRONMENTAL PROGRESS REVIEW MEETING (PCI-01R) JANUARY 2023

Projec	t	PC	[-01R			Location		DHC Office
Emplo	yer	WA	APDA		Date of Meeting		31/01/2023 (12:15 pm- 12:50 pm)	
Engin	eer	D	HC	HC		Place of meet	ing	DHC Meeting Hall
Contra	actor	CG	ICOP			Attendance		Attendance Sheet Attached
Sr.#	Checked Items and A	Actions Planned	A Emp.	Eng.	Con	Target Date for Action	Date to Confirm Action	Status Closed, Open, Partially Closed
19	Submission of NOC an storage at site.	d License for fuel				15/08/2021	02/06/2021 03/07/2021 29/09/2021 26/10/2021 30/11/2021 30/12/2021 07/02/2022 01/03/2022 01/04/2022 27/05/2022	 Not done. The Contractor was instructed to quickly initiate the process. In process Engineer requested WAPDA through letter dated 12th July 2021 to issue a recommendation letter to district administration for CGICOP to grant them an NOC for fuel storage which is prerequisite for license apply to Chie inspector of explosives. The Employer requested to pursue the matter please. Not done. The Employer was again requested to send a letter to district administration. Employer sent letter to DC to provide NOC contractor. Contractor was asked to pursue the matter to get the NOC for onward apply for license. Not Done. Still pending but contractor has agree to share the NOC by 20th of April 2022 Partially Done. NOC from Depur Commissioner Office has been granted b License is still not granted

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47	Water Sprinkling Issue. Contractor is instructed to ensure adequate water sprinkling inside the colony area as well as the allocated portion of Khoshe access road.	V	Immediate	30/06/2022 01/08/2022 29/09/2022 02/11/2022 30/11/2022 31/01/2023 29/09/2022 02/11/2022 30/11/2022 30/11/2022 29/12/2022	 Partially done. The Engineer instructed the contractor to proceed further in the matter and send application to KP Inspector of Explosives for grant of license. Not Done: The Engineer will issue a reminder letter to the contractor regarding NOC from Inspector of Explosives. Partially Done: The contractor has agreed to pursue the case and up till 15th of Oct 2022 he will submit. Partially Done: An NCR will be issued to the contractor for the non-compliance. Not Done: NCR is issued on 7th of Nov 2022. The contractor has not closed the NCR yet. Not Done: The Engineer has already issued an NCR on this long awaited and outstanding issue. Not Done; Partially Done: Contractor agreed that Increase in frequency of water sprinkling is much need Partially Done: The contractor i.e., half of the road is always dry as well as the frequency needs to be increased. Partially Done: The contractor agreed to increase the frequency and coverage of the Water sprinkling area.
19	MPR Should reflect Waste/ discarded materials	7	Immediate	31/01/2023 29/09/2022	Not Done:
48	MPR Should reflect Waste/ discarded materials section describing used batteries and tires and used oil with their quantities and disposal method /vendor details.	V	mmediate	02/11/2022	Not Done; Partially done The details of used tires and Batteries are not provided in the MPR of Oct 2022

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52	Hot Water Availability for Labor, Security and all other Staff		V	12 Dec 2022	30/11/2022 29/12/2022 31/01/2023 30/11/2022 29/12/2022	Not Done: The contractor has agreed to submit by 08 th of Dec 2022 Partially Done: The write up needs to be updated and the record needs to be shared by the contractor with cover letter to which the contractor has agreed upon to share by 10 th of January 2023. The contractor has agreed to install Geysers in the Camp Not Done
					31/01/2023	Not Done
53	Availability of More Wash rooms for Camp area			15 Dec 2022	30/11/2022 29/12/2022 31/01/2023	The contractor has agreed to provide more toilets to the Labor, Staff and other employees up till 15 th of Dec 2022 Not Done: Not Done: Not Done: The contractor has not complied by the engineers instructions
55	Oil Spills Training		~		29/12/2022 31/01/2023	Contractor has agreed to impart training to all staff especially mechanics and before 23 rd of Jan, 2023. Contractor has also agreed to impose fines to all of its staff who so ever will be responsible of oil spillage after 30 th of Jan 2023. Partially Done: Some staff is still pending, Therefore the contractor will impart to rest of its labor and staff and submit record to the
						Engineer by 15 th of Feb 2023
56	Living Conditions (Welfare Facilities)	V			29/12/2022	The Environment Section and OHS Section of DHC will decide this matter after an internal meeting that which section of DHC will do the monthly inspections.
					31/01/2023	Not Done: The contractor has agreed to upgrade the following issues by 20 th of Feb 2023: Bunk Beds, Over crowdedness, Cleanliness and Hygienic conditions in the Kitchen, Proper Drainage of Sewage pipes, Preparation of

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				dedicated Dinning Hall, Availability of Hot Water in Kitchen and Wash Rooms, Scarcity of Toilet, and use of Wood as fuel in the Camp areas.
57	Treatment of Sedimentation Pond water before release inn to the drain.	V	29/12/2022	The contractor has agreed to treat its sedimentation pod water before its release in to the drain.
			31/01/2023	
58	Concrete Mixer Truck Washing at Chuchang Nullah	N	29/12/2022	The contractor agreed to train their drivers and maintenance staff not to wash their concrete mixers and other dumping vehicles in or near the Chuchang Nullah.
			31/01/2023	
A	red by:	_	G	Tup 2 mAIP
The Er	nployer The Engineer		The Cont	ractor
Name:	V Gregat Ale Awais H.K.	ay	Una	IR
Positio	n: AD(20) SA. Environmen	ut specialist	HSE	3-
Date:	06/02/02 01-02-2023	3	07/02/	223

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Annexure: Attendence Sheet of Participants

Dasu Hydropower Project

Dasu Hydropower Consultants

Meeting Attendance Sheet

Monthly Progress review meeting: KKH-01/RAR-01/TL-01/MW-01&2/LBRV-11&12/PCI-01R/RAR-02/KKH-02

Date: 31-01-202

Sr. No	Name of Participant	Dept./Organisation	Designation	Contact No.	Signature
	Farhat Ali	WAPDA	Dy. Director	0344 9596431	fagi
2	Awais Hassan Khan	DHC	Sr Env Specialist	03336563675	
3	Nasie Khan	DHC	Field Insp.	0345.9577742	
l	Fazal Mabood	CGICOP	EHS Manajer	03441190431	And
-					

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	DASU HYDROPOW TES OF MEETING (
			31 st January 2023
Employer:			
WAPDA (DHPP)			
Engineer:			
Dasu Hydropower Consultants (DI	HC)		
Contractor:			
Power China Construction Co., LT		and as	
Subject: Monthly Environmental		enda: nthis Environm	antal Dragrana Davian
Review Meeting for TL-01. Date: 31 st January, 2023		eting of TL-01.	ental Progress Review
Time: (04:00 pm-04:30 pm)	IVIC	cung of TL-01.	
Place: DHC Meeting Hall			
Exhibit: Attendance Sheet			
Attendees			
See the attached attendance sheet		Contractor D	000
Distributed (Softcopy) to:		. Contractor, PC	
1. Employer - DHP WAPDA GM/PD, Dasu	1	. Once rite / C	Incutation
- DHP WAPDA Director (Environ	ment) Dasu		
2. Engineer	linent), Dasu		
- DHC RE TL-01, Dasu			
21101121201,200			
A			
Agreed by:			
Employer	Engineer		Contractor
Date:	Date: 01/02	2023	Date: 2021.2.0
0	11 mars		
	V/	~	-
Argmat	Awais H. Che		济互
- Fiff	D		<u></u>
Representative of	Representative or		Representative of
Employer- WAPDA (DHPP)	Engineer (DHC)	Contractor(PCCC)

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MINUTES OF THE MONTHLY ENVIRONMENTAL PROGRESS REVIEW MEETING (TL-01) JANUARY 2023

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Project	Project 132 KV TI		-01		Locat	ion		DHC Office
Employ	yer	WAPDA		I		of Meeting		31/01/2023 (04:00 pm-04:30 pm)
Engine	er	DHC			Place of meeting			DHC Meeting Hall
Contra	ctor	PCCC			Atten	dance		Attendance Sheet Attached
Sr.#	Checked Items	and Actions Planned	Act Emp.	ion by PM	Con	Target Date for Action	Date to Confirm Action	Status Done/Closed, Not Done/Open, In Progress/Partially Closed
37	per EMAP and EC	vly hired camp building as Ps. The Engineer will red camp building on 3 rd			V	Immediate	30/06/2022 29/09/2022	The contractor informed that full shifting to the camp has not yet started. Inspection done but the camp is still under construction therefore will require a new inspection.
							02/11/2022	Contractor failed to attend meeting
							30/11/2022	Contractor failed to attend meeting Therefore NCR is issued by the Engineer.
							29/12/2022	The Joint Inspection will be done by the Engineer and WAPDA Environment Teams on 11 th of Jan 2023.
							31/01/2023	The camp inspection will be conducted by the Engineer and WAPDA on 01 st of Feb 2023.
38		kling with in the TL-01			V	Immediate	29/09/2022	Partially Done
	Sites as well as all al	llocated and access roads.					02/11/2022	Contractor failed to attend meeting
							30/11/2022	Contractor failed to attend meeting Therefore NCR is issued by the Engineer.
							29/12/2022	Not Done: On-going activity and contractor agreed to conduct it as per previous frequency i.e.

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				31/01/2023	 3 times a day in winter and 4 times a day in summer. Not Done: The contractor has agreed to hire a Water Bowser for addressing the fugitive dust suppression activity.
41	Waste Management Practices to be reflected in MPR.	V	Immediate	29/09/2022 29/12/2022	Not Done Not Done: The contractor has agreed to share the record of waste management practices currently being followed at site and for the camp area with cover letter and also to be included in MPR. The timeline for this compliance is 10 th of Jan 2023.
				31/01/2023	Not Done: The contractor has agreed upon doing Submission up till 14 th of Feb 2023
42	Oil Spills	٧	Immediate	29/12/2022 31/01/2023	Contractor has agreed to impart training to all staff especially mechanics and before 23 rd of Jan, 2023. Contractor has also agreed to impose fines to all of its staff who so ever will be responsible of oil spillage after 30 th of Jan 2023. Done: TL-01 EHS team will share the record in
43	Training on Waste management to all TL-01	 V	Immediate	31/01/2023	the January 2023 MPR.
Ct-	Staff	V	miniculate	31/01/2023	
44	Training on protection of Flora and Fauna to all TL-01 Staff	٧	Immediate	31/01/2023	

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Confirmed by:	*//		
tseglit	Aurer	汪喜	
The Employer	The Engineers Representative	The Contractor	
Name: Wagat Ald	Aways H. 1Chan	by any Ting	
Position: AD (Ea)	Sz. Environment specializet	chief zuginoet	
Date: 05/02/023	01-02-2023	0 - 02 - 2023	

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Annexure: Attendance Sheet of Participants

Dasu Hydropower Project

Dasu Hydropower Consultants

EM-01 Meeting Attendance Sheet

Monthly Progress review meeting: KKH-01/RAR-01/TL-01/MW-01&2/LBRV-11&12/PCI-01R/RAR-02/KKH-02

Date: 31-01-202:

Sr. No	Name of Participant	Dept./Organisation	Designation	Contact No.	Signature
01	Fachat Ali	WAPDA	Dy Director	03449596431	- Para
02	Awais Hassan Khan	DHC	So Env Specialist	0333-6563675	how
03	Nasia Khan	DHC	Field msp.	0345-9577742	and
04	Asad Allas	HSE/RZN	EHS Engineer	03427936185	Stord,
65	MiWalcod	Pece	OHSO	0316-559 4291	Agleg
06	Mr Wong Ting	pccc	Cheif Engineer		江喜

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	ASU HYDROPOWER PROJE OF MEETING (EM-01) JANI	
Employer:		
WAPDA (DHPP)		
Engineer: Dasu Hydropower Consultants (DH)	C)	
Contractor:		
Power China Construction Co., LTD	(PCCC)	
Subject: Monthly Environmental Pr Review Meeting for IL-01. Date: 31 st January, 2023 FM Time: (04:30 pm-05:00 pm) Place: DHC Meeting Hall Exhibit: Attendance Sheet		
Attendees See the attached attendance sheet		
Distributed (Softcopy) to: 1. Employer - DHP WAPDA GM/PD, Dasu - DHP WAPDA Director (Environn 2. Engineer - DHC RE TL-01, Dasu		or, PCCC le / Circulation
Agreed by:		
Employer Date:	Engineer Date: 01-02-003	Contractor Date: 202 7. 2.
Representative of Employer- WAPDA (DHPP)	Representative of Engineer (DHC)	

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MINUTES OF THE MONTHLY ENVIRONMENTAL PROGRESS REVIEW MEETING (EM-01) JANUARY 2023

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Project EM-01			Location		DHC Office			
Employer WAPDA		Date of Meeting			31/01/2023 (04:30 pm-05:00 pm)			
Engine	eer	DHC			Place	of meeting		DHC Meeting Hall
Contra	actor	PCZN- GE	JV		Atten	lance		Attendance Sheet Attached
Sr.#	Checked Items	and Actions Planned	Act	tion by		Target Date for	Date to	Status
			Emp.	PM	Con	Action	Confirm Action	Done/Closed, Not Done/Open, In Progress/Partially Closed
01	In adequate Housekee	ping			V	Immediate	31/01/2023	The contractor has agreed to abide by the ECP's and maintain good Housekeeping.
02	Use of Wood As fuel Area	in the Labor Camp on Kass			V	Immediate	31/01/2023	As per ECP's burning of wood as fuel is strictly prohibited.
03	Chemical Drum Repla camp of EM-01	acement Required and Kass			V	Immediate	31/01/2023	The contractor has agreed to replace the used chemical drum with new Water Tank for human Consumption
04	Welfare facilities (EM	1-01)			V	Immediate	31/01/2023	The contractor has agreed to improve the following conditions as follows: "Improper bedding, over crowdedness, provision of clean drinking water, provision of hot water in toilets and Kitchen, Provision of LPG Gas cylinders with stove for cooking purpose. Provision of a Dining hall for Labour, Hiring a dedicated janitor for the Labor Camp, installation of waste bins with colour coding for green Waste, Hazardous waste, Construction Waste etc.,"
05	Training on Oils spil	ls to all EM-01 Staff			V	Immediate	31/01/2023	The contractor has agreed to impart trainings on oils Spills up till 17 th of Feb 2023 and share the record with the Engineer
06	Training on Waste Staff	management to all EM-01			V	Immediate	31/01/2023	The contractor has agreed to impart trainings on oils Spills up till 20 th of Feb 2023 and share the record with the Engineer

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07	Training on protection of Flora and EM-01 Staff	Fauna to all		٧	Immediate	31/01/2023	The contractor has agreed to impart trainings on oils Spills up till 25 th of Feb 2023
08	Inspection of EM-01 Camp near M Main KKH Dasu Town.	attoo Hotel	V		15 Feb 2023	31/01/2023	
	rmed by: Gagat he Employer	The Engineers Re	presentative		À ਤ The Contrac	ctor	
	lame: <u>(ragad Al)</u>	Awais H146	an		Waysh	1	
P	osition: $A) - (EC)$	Sh. Ewironmu 01-02-20	ent Specialist		chief	Infineer	
D	late: 06-02-2023	01-02-20	23		0 - 02 -	2023	

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Annexure: Attendance Sheet of Participants

Dasu Hydropower Project

Dasu Hydropower Consultants

EM-01 Meeting Attendance Sheet

Monthly Progress review meeting: KKH-01/RAR-01/0001/MW-01&2/LBRV-11&12/PCI-01R/RAR-02/KKH-02

Date: 31-01-2023

Sr. No	Name of Participant	Dept./Organisation	Designation	Contact No.	Signature
01	Fashat Ali	WAPDA	Dy Director	0344959643	- Cara
02	Awais Hassan Khan	DHC	So Env Specialist	0333-6563675	Am
03	Nasa Khan	DHC	Field Insp.	0345-9577742	and
04	Asad Albas	HSE/RZN	EHS Engineer	03427936185	Stord.
65	M. Walced	Pecc	OHSO	0316-5594291	Maleg
06	Mr Wong Ting	pece	Cheif Engineer		王王

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	POWER PROJECT -01& MW-02) FEBRUARY 2023 2 nd March 202
Employer: WAPDA (DHPP)	
Engineer: Dasu Hydropower Consultants (DHC)	
Contractor: China Gezhouba Group Co., LTD (CGGC)	
Subject: Monthly Environment Progress Review Meeting for MW-01&02. Date: 2 nd March 2023 Time: 09:00 am-10:45 am Place: DHC meeting Hall Exhibit: Attendance Sheet	Agenda: Monthly Environmental Progress Review Meeting of MW-01&02.
Attendees See the attached attendance sheet	
Distributed (Softcopy) to: 1. Employer - DHP WAPDA GM/PD, Dasu - DHP WAPDA Director (Environment), Dasu	3. Contractor, CGGC4. Office File / Circulation
2. Engineer - DHC RE MW-01&02, Dasu	
Agreed by:	
Employer Date: 08-03-2023 Engineer Date: 05-03-2023	-03-2023 <u>Contractor</u> Date: 08-03-2023 Sun Kang Br WAS
Representative of Employer- WAPDA (DHPP) Awais A Representation Engineer (1)	1

(Minutes of Meeting for Month of February 2023)

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Minutes of the Monthly Environmental Progress Review Meeting (MW-01& MW-02) February 2023



Projec	ct	MW-01&	MW-02			Location		DHC Office
Emple	oyer	WAF	PDA			Date of Meeting		2 nd March 2023
Engin	ieer	DH	IC			Place of meetin	ng	DHC Meeting Hall
Contr	actor	CGG	CGGC					09:00 am-10:45 am
Sr. #	Checked Items an	nd Actions Planned	A Emp.	ction By Eng.	Con.	Target Date for Action	Action Confirm Date	Status Closed, Open, Partially Closed
23	Status of 3 rd party monitoring as per contract	Quarterly environmental t specifications			V	20/05/2021	02/06/2021 02/07/2021 26/10/2021 30/11/2021 30/12/2021 07/02/2022	In process. In process. In process. The contractor informed that the contract with the laboratory is in process by CGGC commercial department. Not done. Not done. The contractor was instructed to immediately arrange 3 rd party quarterly environmental monitoring. Partially done. The Contractor mobilized <i>Bureau Veritas</i> environmental monitoring laboratory to site but their equipment were not as per the monitoring specifications. The Laboratory was demobilized and were asked to come up with all the calibrated analyzers and instruments. The contractor informed that the laboratory will be remobilized to site by 10 th January 2021. The Contractor informed that they are considering new environmental laboratory for the environmental monitoring which may be
					~		01/03/2022	mobilized by 20 th February 2022. Employer and Engineer instructed the Contractor to share profile before mobilization of the environmental laboratory. The Contractor informed that they are considering new environmental laboratory for the environmental monitoring which may be mobilized by 20 th February 2022. Employer and Engineer instructed the Contractor to share

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			profile before mobilization of the environmental laboratory
		05/04/2022	"The Engineer" will write a letter to contractor for updated status about the Third-Party Monitoring Laboratory Hiring Status.
	\checkmark	28/05/2022	Not Done: Contractor shared its decision that SGS Laboratory is finalized by the CGGC but number of parameters is still under discussion.
		30/06/2022	Not done. The Contractor informed that their contract section wants clarification regarding the number of parameters to be tested. A meeting in this regard will be scheduled by the Engineer.
		29/09/2022	The contractor has decided to take SGS on board for the third party monitoring purpose but there is a meeting scheduled in 13 th October 2022 in order to discuss and finalize
		02/11/2022	the Parameters to be performed. Not Done: The contractor informed that the certification and equipment list of another lab will be shared with the Engineer for their approval by 12 th Nov 2022.
		30/11/2022	Not Done: The contractor informed that they are in search of a lab and they will submit by 12^{th} of Dec 2022.
		29/12/2022	Not Done: CGGC has again come up with Bureau Veritas Environmental Laboratory. The contractor has agreed to re submit the technical profile of M/s Bureau Veritas with all
			requisite documents especially certificate of registration from PK EPA. The engineer with consent from WAPDA has agreed to re consider this organization with all complete
			documentation and proof of all statutory

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				31/01/2023	requirements to be submitted by CGGC up till 25 th of January 2022. Not done. The contractor has sought new timeline for himself i.e., up to 16 th of Feb 2023 for sorting this issue. The contractor will pursue the matter with their Bureau Veritas (B.V) Laboratory. If the B.V Lab doesn't share its Certificate of Registration from EPA, KPK than CGGC has to share a new KP EPA Approved Laboratory profile up till 16 th of Feb 2023. Not Done: The Bureau Veritas (B.V) Lab haven't shared its Certificate of Registration
					from EPA, KPK. The CGGC contractor has agreed to submit a new Third Party Lab un-till 15 th of March 2023.
36	Appointment of Environment Director	V	16 th January 2021	07/02/2022	Not done . The Contractor informed that search for the candidate is in progress and CV will be shared with the Engineer for approval most probably by 25 th February 2022.
				01/03/2022	Not done. Contractor informed that search for suitable candidate is still in progress.
				28/05/2022	Not Done: The matter is still pending; Contractor has assured to share CV of suitable candidate who has some practical experience. Not done. Contractor verbally discussed about
				30/06/2022	a potential candidate Mr. Afzal who was engaged in Neelum Jehlum. The Engineer instructed the contractor to submit the CV
				29/09/2022	officially to proceed further in this matter. Note Done: The contractor will submit the resume of the nominated person 14 th Oct 2022
				02/11/2022	Not done . The Contractor informed that search for the candidate is in progress and CV will be shared with the Engineer for approval most probably by 17 th November 2022.

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r				1	
				30/11/2022	Not done. The Contractor informed that search for the candidate is in progress and CV will be shared with the Engineer for approval most probably by 12 th December 2022.
				29/12/2022	Not Done: The contractor was informed that this matter is also discussed with WB and the WB is also of the view that in case of non- availability of 15 years' experienced person the experience may be reduced to 10 years. On this issue the Engineer has already seeked approval from WAPDA. The contractor has agreed to a find a suitable candidate and submit his her resume before 23 rd of Jan 2023.
				31/01/2023	Not done: WAPDA has sought guidance from World Bank and World Bank has reduced the Experience up to 08 years. Therefore, On these basis CGGC MW-01 and MW-02 contracts has sought time up till 15 th of Feb 2023
				02/03/2023	Partially Done: The contractor has submitted some resume's for the Environmental Manager Position.
53	Ensure Water Sprinkling in the Khoshe Area previously managed by Zhongmei	N	Immediate	02/11/2022	Partially Done: Ensure Water Sprinkling in the Khoshe area allocated to CGGC as well as Zhongmei
				30/11/2022	Partially Done Ensure Water Sprinkling in the Khoshe area allocated to CGGC as well as Zhongmei
				29/12/2022	Partially Done: Contractor has agreed to ensure compliance of Water Sprinkling. On- going activity,
				31/01/2023	Partially done: Contractor has agreed to ensure compliance of Water Sprinkling. On- going activity,
				02/03/2023	Done

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54	Oil Spills: Work Shop area @ CR-09 near bailey bridge	N	Immediate	29/12/2022	It has been observed that the mechanics in workshops drain hydraulic fluids as well as used oils directly on open soil. This practice must be stopped immediately by contractor staff. Therefore, CGGC contractor have agreed to impart training to 100% of their staff regarding oil spill before 25 th of January 2022. If the oil spill practice is still observed on the sites than the person responsible for oil spill will be fined. Fines will be collected by the contractor's management through deductions in their salary.
				31/01/2023 02/03/2023	Partially Done: Contractor will share record up till 8 th of Feb 2023 of the trainings and fines imposed (if any) regarding oil spills to the Engineers Office. Done: Training is provided by the Contractor on oil spills and the contamination is also removed.
55	Used oil and New Oil Storage Training	V	Immediate	29/12/2022	Contractor has agreed to imparted training to all off its staff on how to handle/ change the oil of different equipment's/ vehicles/ machinery on site and off site. Similarly special bounded storage areas (having concrete foundations) will be established by the contractor in-order to avoid any oil spillage. All used oils will be stored in 200 liter drums which will be placed on concrete foundations and bounded with at least the capacity of the oil storage vessels itself.
				31/01/2023	Partially Done: The contractor has conducted trainings on the oil spillage issue but has not imposed any fines yet on the polluters. Therefore, contractor has agreed to share record of the trainings up till 8 th of Feb 2023.

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					02/03/2023	Not Done: EMD is recording data for used engine oil. The engineer will visit the switchyard, CR-09 and CR-02.
56	Water Quality of Sedimentation tanks		V	Immediate	29/12/2022	The contractor has agreed to impart methods of introduction of acid to lower the pH of the sedimentation ponds on all sites of MW-01 &MW-02.
					31/01/2023	Not Done: The contractor has agreed to improve the water quality as the pH levels is consistently high Therefore the contractor will be adding higher quantities of fresh water. The contractor has also agreed to conduct an experiment in their lab in which he will come out with a result that how much amount of acid is needed to lower the pH value of Waste water and submit to the Engineer up till 10 th of Feb 2023.
					02/03/2023	Not Done: The contractor has agreed to improve by 16^{th} of March 2023.
59	Contractors Local Staff Residential Facility Inspection required	V		Immediate	29/12/2022 31/01/2023	The engineer will conduct meeting among Environment and OHS Sections and then decide that who will be conducting this inspection and with what frequency. During the inspection Workers Welfare facilities will be monitored as per provisions in the contract. Not Done: The Engineer conducted the inspection in Jan 2023 and found the discrepancies regarding provision of hot water, overcrowding and filthiness of toilets, waste management is still existing. Therefore Contractor has agreed to rectify the situation in the Labor camp of Pakistani staff and raise an AFI up till 10 th of Feb 2023 to the Engineer.
					02/03/2023	Not Done: The contractor has agreed to discontinue use of Wood as fuel and provide

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					Gas cylinders. The contractor has also agreed to deploy janitors for washrooms.
60	Sedimentation Tank @ Uchar Crush Plant	N	Immediate	29/12/2022 31/01/2023	The sedimentation Tank is very dirty and contains lot of sediments and sludgy froth is on top of the water. Therefore contractor has to clear the sedimentation tank before 16 th of Jan 2023 and submit an AFI to The Engineer for inspection Not Done Therefore Contractor has agreed to rectify the situation by cleaning the sedimentation tank on daily basis and ensuring of addition of fresh water in large quantities, at the sedimentation tank and raise an AFI up till 10 th of Feb 2023 to the Engineer.
				02/03/2023	Done
61	Installation of Wet Scrubbers on Uchar Crush Plant	V	Immediate	29/12/2022	The contractor has agreed to install sprinkling system on the conveyor belt of the Uchar Crushing Plant(wet scrubbers) Therefore contractor has agreed to install Wet scrubbers before 23 rd of Jan 2023 and submit an AFI to The Engineer for inspection
				31/01/2023	Not Done Therefore Contractor has agreed to rectify the situation at the Uchar Crush Plant and install water sprinklers (Wet scrubbers) and raise an AFI up till 10 th of Feb 2023 to the Engineer.
				02/03/2023	Done
62	Zero Tolerance policy for animals at site	. V	Immediate	29/12/2022	No animal are allowed on the construction site by any staff member of CGGC at any construction site. The contractor has agreed to remove all animals from all construction sites before 16 Jan, 2023. {*Note: If Chinese Nationals want to keep dogs, they should be kept in special cages in Chinese part of Barseen Camp) and properly

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				31/01/2023	 vaccinated for rabies and other communicable diseases.} Partially Done: Contractor has removed some of the animals from construction sites but still there are some animals like pigeon and chicken on CR-09 site, dogs on CR-02 site etc. The engineer will verify and close the point
63	Welfare facilities @ CR-02	N	Immediate	29/12/2022	The contractor has agreed to hire a dedicated janitor for every site who will be responsible for cleaning the toilets at least three time a day in one shift. Additionally the Toilet at CR-02 are choked up, therefore they will be cleared of any sludge and the septic tank will also be cleared along with the toilets. The contractor has also agreed to install flushing system at CR-02.
				31/01/2023	Not Done: The contractor has agreed to rectify the situation by 10^{th} of Feb 2023.
				02/03/2023	Not Done: The contractor has agreed to hire a permanent janitor for CR-02 Site and rectify the situation by 10 th of March 2023.
64.	Use of wood as fuel is still going on the switchyard site.	V	Immediate	31/01/2023	The contractor was told to immediately stop use of wood as fuel and contractor has agreed to provide LPG Gas cylinders to its staff.
				02/03/2023	Note Done: After verification The point will be closed.
65	Use of chemical tank for human use.	V	Immediate	31/01/2023	Contractor has agreed to replace this chemical tank with a new Water Tank as empty chemical tank is being used for store water for human consumption.

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				02/03/2023	Not Done: The contractor has agreed to replace all chemical tanks which are in human use with new domestic water supply tank.
66	Scarcity of Toilets	N	Immediate	02/03/2023	No. of Washrooms to be increased from 1-2 up till 10 th of March 2023.
67	Implementation of the Conditions of NOC from EPA, KP for Uchar Thoki Crushing Plant.	V	Immediate	02/03/2023	Plantation of trees are required around the crush plant. (time line before 18 th of March 2023)
68	Submission of TMP	V	Immediate	02/03/2023	Contractor has agreed to submit up till 10 th of March 2023
69	Waste Bins at the construction sites	N	Immediate	02/03/2023	Waste bins to be increased at site up till 10 th of March 2023

Confirmed by:

Name:

Date:

The Employer Position: 08-03

-

The Engineer/Consultant winonent Specialist 05-02-

The Contractor

Kang Sun CGGC ASE. 5-reabor 08-03-202

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Annexure-01: Attendance Sheet

Dasu Hydropower Project

Dasu Hydropower Consultants

Meeting attendance sheet

Monthly Progress review meeting: KKH-01/RAR-01/TL-01/MW-01&2/PCI-01R/RAR-02/KKH-02/EM-01

Date: 02-03-2023

Sr. No	Name of Participant	Dept./Organisation	Designation	Contact No.	Signature
1	IMRAN TARIQ	WAPDA	D. Director	0321-518 1114	Ineaul tay
2	SAEED UL HASSAN	HED CGGL	OHSO MWOI	0321 981 2722	in
3	Sun Kang	HSED CGGC	HSE Director	0342 8508635	Binings
4	Yang mjim	HSED CLAUL	USE assistance or	1034235-8619	ton
5	Very Mini	200 -66-62	30 Director	0342 8508742	二種
6	AWAIS HASSAN	SR. ENVERONMEN	T DHC	03336563675	Ann
7	SARDAR ALAM	11	9	0333-9290609	all a
8	T. Miyazare	Direc	DPM	0345- 8454861	TUT
9	Nasa khan	DHC	Field Inspector	0345-9577742	- Good

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		POWER PROJE (RAR-02) FEBR	UARY 2023
Employer: WAPDA (DHPP)			02 nd March, 2023
Engineer: Dasu Hydropower Consultants (DHC	C)		
Contractor: China Gezouba Group Co., LTD (CC	GGCC)		
Subject: Monthly Environmental Pro Review Meeting for RAR-02. Date: 02 nd March, 2023 (10:50 am-11:35 am) Place: DHC Meeting Hall Pages: 01 Exhibit: Attendance Sheet	ogress	Agenda: Monthly Enviro Meeting of RA	onmental Progress Review R-02.
Attendees See the attached attendance sheet			
Distributed (Softcopy) to: 1. Employer - DHP WAPDA GM/PD, Dasu - DHP WAPDA Director (Environn 2. Engineer - DHC RE Roads, Dasu	nent), Dasu	3. Contractor 4. Office File	r, CGGC e / Circulation
Agreed by:			
Employer Date:08-03-2023	Engineer Date: 05-	03-2023	Contractor Date: 08-03-2023
Representative of Employer- WAPDA (DHPP)	Awais Jr Representati Engineer (I		Representative of Contractor(CGGC)

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MINUTES OF THE MONTHLY ENVIRONMENTAL PROGRESS REVIEW MEETING (RAR-02) FEBRUARY 2023	5	
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Project RAR-02		-02	2		Location		DHC Office	
Employer WAPDA		DA	A]		Date of Meeting		02 nd March, 2023 (10:50am-11:35am)	
Engineer DHC					Place of meeting		DHC Meeting Hall	
Contractor CGGCC		CC	2		Attendance		Attendance Sheet Attached*	
Sr.#	Checked Items and Actions Planned	Emp.	Action by Eng.	Con.	Target Date for Action	Actio Confi	on Status irm Done/Closed, Not Done/open, In Progress/Partially	
01	Hiring of Dedicated Environmental Manage for RAR-02 Component			N	5 th of June 2022	Dat 30/06/2 29/09/2 02/11/2 30/11/2 29/12/2 31/01/20 02/03/20	 Not done. The Contractor informed that they will share CV of a relevant candidate to be considered for the post. Not Done; Contractor is instructed to submit the resume by 17th of Oct 2022. Not Done; Contractor is instructed to submit the resume by 17th of Nov 2022. Not Done; Contractor is instructed to submit the resume by 15th of Dec 2022, otherwise an NCR will be issued against this non-compliance. Not Done: The contractor has been shared with grave concern by the Engineer to submit a suitable candidate resume by 17th of Dec 2022. Not Done: The contractor has agreed to share a qualified and experienced candidate resume by 14th of Feb 2023. 	
03	Fugitive Dust Suppression measures to b taken at site on regular basis with at least time a day and additional if required becaus summer season has already started.	3		Y	Immediate	30/06/20 29/09/20	022 Partially done. The contractor informed that a dedicated water sprinkler is deputed at site which not only sprinkle along the access road but also at the excavated material before disposal.	

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					site therefore contractor is given time up till 30 th
				02/1 1/2022	of Oct 2022 to improve accessibility of the track. Not Done: The contractor is instructed to ensure water sprinkling on all working faces of all the sites. The narrow track issue is still prevailing and contractor has been given time up till 14 th of Nov
				30/11/2022	2022. Not Done: The contractor is instructed to ensure water sprinkling on all working faces of all the sites. The narrow track issue is still prevailing and contractor has been given time up till 27 th of Dec 2022.
				29/12/2022	Not Done: The excavated material is rolled down the slope by the contractor creating a huge dust cloud. The contractor has agreed to install water pumps which will lift water from nearby stream/
				31/01/2023	river to sprinkle it upon the slopes as well as the excavated material so that there is no fugitive dust. Not Done: The contractor has requested to conduct a joint visit of The Engineer, WAPDA and CGGC RAR-02 Team in which Road Engineers, Geologists, and Environmentalist. The
				02/03/2023	Engineer and WAPDA has agreed to this request and the joint visit will be carried out on 14 th of Feb 2023. Not Done: Joint visit by the Engineer's representatives like geologist, RE for RAR-02 component, Environment & OHS sections to be scheduled to sort out the mitigation measures.
04	Rolling of Debris/ over burden or any loose material after blasting/ slope cutting activity to be hauled away at the designated site of	N	Immediate	30/06/2022	Not done. The Contractor is strictly instructed to ensure haulage of the spoil to designated spoil disposal area
	Kass disposal site on RAR-01.			29/09/2022	Not Done; The contractor informed that at the moment the spring which was nearby is dried up

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	×			02/11/2022	and the path to the working face is narrow, due to which the dumper cannot reach the exact working face. As soon as the dumper can reach the working face the haulage of excavated material will be started. Not Done: The contractor is instructed to haul the excavated material to the designated spoil disposal site and not to roll down any spoil material along the slope
				30/11/2022	Not Done: The contractor has requested to give him time up till 27^{th} of Dec 2022 which was
				29/12/2022	agreed by the Engineer.
				29/12/2022	Not Done: The contractor is instructed to haul the excavated material to the designated spoil
					disposal site and not to roll down any spoil material along the slope endangering habitat
					along the slopes as well as aquatic life form and Nearby Human Settlements.
				31/01/2023	Not Done: The contractor has requested to
					conduct a joint visit of The Engineer, WAPDA and CGGC RAR-02 Team in which Road
					Engineers, Geologists, Environmentalist and OHs Staff. The Engineer and WAPDA has agreed to
					this request and the joint visit will be carried out on 14 th of Feb 2023.
				02/03/2023	Not Done: Joint visit by the Engineer's
					representatives like geologist, RE for RAR-02 component, Environment & OHS sections to be
09	Designated Spoil disposal Plan submission		16 th of Jan	30/11/2022	scheduled to sort out the mitigation measures. The contractor is instructed to submit the spoil
	required by the Contractor		2023		disposal plan up till 15 th of Dec 2022.
				29/12/2022	Not Done: The contractor has agreed to submit
				21/01/2022	Spoil Disposal Plan by 16 th of Jan 2023
				31/01/2023	Not Done: The contractor has requested to
					conduct a joint visit of The Engineer, WAPDA and CGGC RAR-02 Team in which Road
			5 - 6 0		Engineers, Geologists, Environmentalist and OHs

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				02/03/2023	 Staff. The Engineer and WAPDA has agreed to this request and the joint visit will be carried out on 14th of Feb 2023. The spoil Disposal plan will be submitted after the joint visit and will be based on its technical decisions. Not Done: The plan will be submitted after Joint visit by the Engineer's representatives like geologist, RE for RAR-02 component, Environment & OHS sections to be scheduled to sort out the mitigation measures.
11	Drinking Water Supply Record Submission required by RAR-02 EHS Team for all working faces.	V	09 th Jan 2023	29/12/2022 31/01/2023	The contractor has agreed to submit by 09 Jan 2023. Not Done: The contractor has shared that the labor has not been consuming their supplied water because of availability of spring water nearby but as per contractual obligation the contractor has agreed to supply drinking water.
			1	02/03/2023	Done: Record has been submitted by the contractor
12	Spoil Disposal Plan	N	20 th Jan 2023	29/12/2022	The contractor has agreed to submit a proper spoil disposal plan which will not only highlight the location map of spoil disposal areas but complete methodology that which work faces will use which spoil disposal site and what amount of excavated material will be excavated as well as what number of dumpers are required to haul the spoil material. Date for submission of Spoil Disposal Plan is 20 th Jan 2023
				31/01/2023 02/03/2023	Not Done: This plan will be updated and submitted Not Done: The plan will be submitted after the Joint visit by the Engineer's representatives like geologist, RE for RAR-02 component, Environment & OHS sections to be scheduled to sort out the mitigation measures.

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Use of Wood as fuel on the RAR-02 sites. 13 Immediate The use of wood as fuel is strictly prohibited as 31/01/2023 per ECP's provided in the contract. Done: LPG cylinders are provided to the labor 02/03/2023 and kitchen will be shifted to another location Introduction of Reward and punishment 14 Immediate 02/03/2023 The contractor has agreed to implement the 1 system to tackle repeated offense of reward and punishment system starting from 8th Environmental Non compliances of March 2023.(i.e., Imposing fines on repeated offenders of environmental non complainces) 15 Under construction camp facilities Layout Immediate 02/03/2023 V The contractor has agreed to share details by 12th with sewage, drinking water supply sources of March 2023. and pipe lines design, drainage pattern Confirmed by: The Employer The Engineer/Consultant The Contractor <u>Liagat Ali</u> Khan <u>OHSD-RAR-02</u> 08-03-2023 Name: Inchat r Environment Specialist Position: 05-03-2023 Date:

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		Annexure-01: A Dasu Hydrop	Attendance Sheet ower Project		
		Dasu Hydropow	er Consultants		
		Meeting atter	idance sheet		
Month	ly Progress review meeting: KKH-0	1/RAR-01/TL-01/MW-01&2	PCI-01R RAR-02 KKH	I-02/EM-01 D	ate: 02-03-2023
Sr. No	Name of Participant	Dept./Organisation	Designation	Contact No.	Signature
	IMRAN TARIQ	D. Director (1	Vapda)	0321-5181114	meanetry
ym	AWAIS HASSAN	Sr. Envisorment Specialist	(DHC)	0333-6563675	ME
<u> </u>	SARDAR ALAM		11 .	9333-9490601	
6	SHEFENGI	CGGC	P.M		
	LIAQAT ALI	CGGC	EHS OFFICE	0344-9734735	Front
1	Shi Fenny	CLAGC	P.M 24-02	03428508428	史山东
	Masir Khan	DHC	Field Inspector	0345 95 7774	2 ato
				34	1
laterer mitterstatungen			1		
				1	

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	DASU HYDROPC ES OF MEETING		
Employer: WAPDA (DHPP)			
Engineer: Dasu Hydropower Consultants (DI	HC)		
Contractor: Power China Construction Co., LT		Array	
Subject: Monthly Environmental Review Meeting for EM-01. Date: 3 rd March, 2023 Time: (10:30 am-11:35am) Place: DHC Meeting Hall Exhibit: Attendance Sheet]	Agenda: Monthly Enviro Meeting of EM-	onmental Progress Review 01.
Attendees See the attached attendance sheet			
Distributed (Softcopy) to: 1. Employer - DHP WAPDA GM/PD, Dasu - DHP WAPDA Director (Environ 2. Engineer - DHC RE TL-01, Dasu	nment), Dasu	3. Contractor 4. Office File	, PCCC / Circulation
Agreed by: Employer	Engineer	1	Contractor
Date: 08-03-2023.	Engineer Date:06- Musis Ho	than .	Date: 2023.3.6 AP11981198
Representative of Employer- WAPDA (DHPP)	Representative Engineer (D		Representative of Contractor(PCCC)

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MINUTES OF THE MONTHLY ENVIRONMENTAL PROGRESS REVIEW MEETING (EM-01) FEBRUARY 2023

Projec	t	EM-01			Locat	ion		DHC Office
Emplo	oyer WAPDA Date of Meeting			03/03/2023 (10:30 am-11:35am)				
Engin	eer	DHC			Place	of meeting		DHC Meeting Hall
Contra	actor	PCZN- GE	JV		Atten	dance		Attendance Sheet Attached
Sr.#	Checked Items	and Actions Planned	Ac Emp.	tion by PM	Con	Target Date for Action	Date to Confirm Action	Status Done/Closed, Not Done/Open, In Progress/Partially Closed
01	In adequate Housekee	ping			• •	Immediate	31/01/2023 03/03/2023	The contractor has agreed to abide by the ECP's and maintain good Housekeeping. Done:
02	Use of Wood As fuel Area	in the Labor Camp on Kass			V	Immediate	31/01/2023 03/03/2023	As per ECP's burning of wood as fuel is strictly prohibited. Done:
03	Chemical Drum Repla camp of EM-01	acement Required and Kass			V	Immediate	31/01/2023 03/03/2023	The contractor has agreed to replace the used chemical drum with new Water Tank for human Consumption Done:
04	Welfare facilities (EM	I-01)			V	Immediate	31/01/2023 03/03/2023	The contractor has agreed to improve the following conditions as follows: "Improper bedding, over crowdedness, provision of clean drinking water, provision of hot water in toilets and Kitchen, Provision of LPG Gas cylinders with stove for cooking purpose. Provision of a Dining hall for Labour, Hiring a dedicated janitor for the Labor Camp, installation of waste bins with colour coding for green Waste, Hazardous waste, Construction Waste etc.," Done:
05	Training on Oils spill	ls to all EM-01 Staff			V	Immediate	31/01/2023 03/03/2023	The contractor has agreed to impart trainings on oils Spills up till 17 th of Feb 2023 and share the record with the Engineer Done:

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06	Training on Waste management to all EM-01 Staff		V	Immediate	31/01/2023 03/03/2023	The contractor has agreed to impart trainings on oils Spills up till 20 th of Feb 2023 and share the record with the Engineer Done:
07	Training on protection of Flora and Fauna to all EM-01 Staff		V	Immediate	31/01/2023 03/03/2023	The contractor has agreed to impart trainings on oils Spills up till 25 th of Feb 2023 Done:
08	Inspection of EM-01 Camp near Mattoo Hotel Main KKH Dasu Town.	V		15 Feb 2023	31/01/2023 03/03/2023	The engineer will conduct the Inspection of EM- 01 camp up till 15 th of Feb 2023 Done: The camp was inspected on 14 th of Feb 2023 and the observations were shared on 17 Feb 2023. The contractor agreed to share record of the compliance done on the site of EM-01 by 15 th of March 2023.
09	Hiring of Environment Manager		V	Immediate	03/03/2023	Contractor has agreed to ensure compliance by 20 th of March 2023
10	Minor Oil Spill		V	Immediate	03/03/2023	Contractor has agreed to ensure training of staff again and ensure compliance by introduction of reward and punishment system.(introduction of fines for repeated offenders of environmental non-compliance
11	Littering on the construction site		V	Immediate	03/03/2023	Contractor has agreed to ensure training and placement of waste bins at site by 11 th of March 2023
12	Wood Burning by F.C personnel.		V	Immediate	03/03/2023	Contractor has agreed to ensure provision of LPG cylinders and heaters/ cooking stoves to F.C Staff
13	Cleanliness of Camp		V	Immediate	03/03/2023	Contractor is unable to find a suitable janitor in Dasu therefore it will look for a proper janitor from outside Dasu and hire them for cleaning activity.

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Confirmed by	1		
10000	Auron	A MS MS	
The Employer	The Engineers Representative	The Contractor	
Name: Fachat Ali,	Awais Hassen	Den Jaotus	
Position: Dy. Divector.	Ss. Environment Specialist	perce	
Date: 08-03-2023,	06-03-2023	6-3-2023	

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		Annexure: Attendan	ce Sheet of Participants		
Monthly	y Progress review meeting: KKH-0*	Dasu Hydropov Meeting atte	oower Project ver Consultants ndance sheet 2/PCI-01R/RAR-02/KKH	-02(EM-01)	Date: 03-03-2023
Sr. No	Name of Participant	Dept./Organisation	Designation	Contact No.	Signature
07 02	Imran Taniar Asad Abbas Awais Hassan	Ubpda HSE/PCZN DHC	By Director EHSENGO Sh. En. Sp	9324-5181114 0342793610 0333-656363 0345-9577742	5 Hoord.
04	Nasir Khan	DHC	Field Inspector	0345-9577742	alice

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		OWER PROJECT (KKH-01) FEBRUAR	CY 2023 03 rd March 2023
Employer: WAPDA (DHPP)			05 ⁻⁴ March 2023
Engineer: Dasu Hydropower Consultants (Dl	HC)		
Contractor: China Civil Engineering Construct	ion Co., LTD ((CCECC)	
Subject: Monthly Environment Pr Online Meeting for KKH-01. Date: 3 rd March, 2023 Time: 03:30pm-04:40 pm Place: DHC Meeting Hall Pages: 02 Exhibit: Attendance Sheet	ogress Review	Agenda: Monthly Environme: Meeting of KKH-01	ntal Progress Review
Attendees See the attached attendance sheet			
Distributed (Softcopy) to: 1. Employer - DHP WAPDA GM/PD, Dasu - DHP WAPDA Director (Enviro	onment), Dasu	3. Contractor, KK 4. Office File / Cin	
2. Engineer - DHC RE Roads, Dasu			
Agreed by:			
<u>Employer</u> Date: 08-03-2023	Engineer Date: 06-		Contractor Date:08-03-023
Representative of Employer- WAPDA (DHPP)	Awais H Representati Engineer (I		長 Representative of Contractor(CCECC)

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	riojeci	HE MONTHLY ENVIRONME KKH-01	-01			Location		DHC Dasu Office
	Employer	WAPDA				Date of Mee	ting	03/03/2023 (03:30pm-04:40 pm)
	Engineer	DHC				Place of Mee	0	DHC Meeting Hall
	Contractor	CCECC				Attendance		Attendance Sheet Attached
Sr.#	Checked	Items and Actions Planned	L A	Action B	y	Target Date	Date to	Status
47	Prese Disco 1		Emp.	Eng.	Con.	for Action	Confirm Action	Done/Closed, Not Done/Open, In Progress/Partially closed
47	Proper Disposal and other chemics	of Used Engine/ Equipment Oils als			N	Immediate	28/05/2022 30/06/2022 29/09/2022 02/11/2022 30/11/2022 29/12/2022 31/01/2023 03/03/2023	 Please add details of this activity in the MPR of May 2022 with photographic records as well for before spillage and after spillage. Note Done; Photographic record should be maintained by the contractor and proper write up should be added to the next month's MPR. Not Done; Partially Done Not Done: The contractor will share record by 5th of Dec 2022 Partially Done: The area where the used engine of is temporarily stored should be bounded with al least 12 inch barricading so that the in case of leakage of oil from drums it will not go outside the storage area. Not Done: K-04 and K-09 Bounding of the storage areas for used engine oils is still pending. Not Done: The contractor has agreed to comply by 15th of March 2023
60	License for fuel st	corage at K-9			\checkmark	Immediate	29/12/2022 31/01/2023 03/03/2023	Not Done Not Done: The contractor promised to follow up the matter with the concerned authorities and update by 10^{th} of Feb 2023.
61	Hiring of Dedica	ted Environmental Manager and			V	Immediate		Not Done: The contractor has requested to ensure compliance up till 31 st of March 2023
	Environmental Su	pervisor for KKH-01 Site.			V	minediate	29/12/2022	Not Done

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				31/01/2023 03/03/2023	Not Done: The contractor will share qualified and experienced person resume up till 15 th of Feb 2023 Done: The contractor has shared CV's with The Engineer on 3 rd of March 2023.
62	Batching Plant washing/ waste water effluent just releasing in Chuchang Nullah. Concrete Mixer washing in Chuchang Nullah(K4 & K9)	N	Immediate	29/12/2022 31/01/2023 03/03/2023	Not Done Partially Done: The batching plant is closed and removed from the site Not Done: The contractor was shown pictures of Concrete mixers being washed inside the Chuchang nullah near K5 to which contractor has agreed to impose fines on repeated offenders and share record with the Engineer up till 12 th of March 2023.
63	All generators do not have canopies. Noise levels should remain under NEQS i.e., 85 dB	N	Immediate	29/12/2022 31/01/2023 03/03/2023	Not Done Not Done @ K-09: The contractor has agreed to install canopies for the generators by 20 th of Feb 2023. Not Done: The contractor has agreed to install canopies and shed over the generator sets by 20 th of March 2023
65	Used Oil Filters Storage & record to be shared by 6 th Jan 2023.	V	Immediate	29/12/2022 31/01/2023 03/03/2023	Not Done: Not Done: The record will be shared up till 7 th of Feb 2023. Not Done: The Shared data is not having details of the Used Oil Filters specifically Therefore contractor has to re submit the details of used oil filters to the Engineer's office.
66	Common Dinning Hall should be provided to the labor/ staff of K-09 and K-04.	V	Immediate	31/01/2023 03/03/2023	Not Done Not Done: The contractor has requested timeline of 20 th of March 2023 for the compliance of this point.
67	Dirty Toilets and Residential Rooms	V	Immediate	03/03/2023	Cleaning of Wash rooms, residential Rooms, at least 3 times a day at K4 and K-09 Pakistani Labor camp by deploying a dedicated janitor one for each site
68	Housekeeping @ K-09 and K-04 Area.	N	Immediate	03/03/2023	The CCECC Sites of K-09 and K-04, Dugah Tunnel and Logro-B, all have this issue, which needs to be addressed by 12 th of March 2023

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69	Hazardous waste	V	Immediate	03/03/2023	Hazardous waste register to be maintained
70					regularly. All vendor receiving waste should be on their letter heads with clear name of their companies and their addresses.
	Septic Tank design for K-6 Batching plant	V	Immediate	03/03/2023	Septic Tank design at K-6 Batching plant to be revised and re-submitted.
71	Forced Ventilation System	V	Immediate	03/03/2023	Forced Ventilation system is having only one pipe where as it is mandatory to have two pipes one for exhaust and one for in flow of air. The existing single inflow pipe is damaged and needs to be replaced. The contractor has agreed to comply by 20 th of March 2023.
72	Access Control to K-09 Tunnel.	\checkmark	Immediate	03/03/2023	The contractor needs to establish the access control system at K-09 and K-04 tunnel otherwise in case of emergency there will be no record of personnel which are inside the tunnels.
73	Aggregate Crushing Plant @ K-05	V	Immediate	03/03/2023	All the EMAP procedures for environmental compliances, ECP's provided in the contract, World Bank Policies, All local land laws are to be applied to this crush plant whether this crush plant is in the ownership of CCECC or not. All pre- requisite procedures, approvals from relevant Government departments like NOC's from, Forest Department KPK, Environment Protection Agency KPK, and Industries Department NOC should be with the plant operations managers/owners for ready inspection.
74	Underground Fuel Storage is still open from back side (i.e., Switchyard of MW-02 component of CCGCC)	V	Immediate	03/03/2023	The contractor needs to immediately close the back side entrance of the fuel storage area @ K-09 Tunnel outlet. The contractor has agreed to complete construction of this storage area and
75	Effluent from Sedimentation tank @ K-09 Tunnel is being released to natural water body	V	Immediate	03/03/2023	install breathing pipes in this storage area. Effluent from Sedimentation tank @ K-09 Tunnel is being released to natural water body without treatment of highly alkaline pH. The contractor has agreed to re-use the Waste water for water sprinkling on the Khoshe Access road (Dirt Road)

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						The practice will be starting from 8 th of March 2023 by the contractor.
76	Introduction of Reward and punishment syste i.e., repeated offenders of environment noncompliance will be liable to fines by the CCI Management)	ental	V	Immediate	03/03/2023	The contractor has agreed to ensure compliance starting from 8 th of March 2023
77	Dugah Tunnel: Site issues of Environme compliance	ental	V	Immediate	03/03/2023	There are environmental Non-compliances on Non availability of Drinking Water, Cleanliness of site and waste management and availability of Toilets
78	Environmental Non Compliances have increase CCECC Sites of KKH-01	d on	N	Immediate	03/03/2023	The contractor has hired two new EHS Officers Mr. Rahat Hameed and Mr. Yasser Hussain as well as a Chinese Staff Mr. Ren Jianjun in addition to Mr. Manzoor, Mr. Sajid and Mr. Arif. The contractor has promised to increase their on-site presence in the field as well as increase on site environmental compliance as per description given in ECP's and expedite closing of all NCR's in time.
79	Construction of Sedimentation Pond for Bate plant being installed at K-6	ching	V	Immediate	03/03/2023	The contractor agreed to submit three chambered Sedimentation tank at K-6 Batching Plant Site to the Engineer by 12 th of March 2023.
80	Construction of third chamber for sediment pond at K-09	ation	V	Immediate	03/03/2023	The contractor agreed to comply by 20 th of March 2023 after meeting with higher management of CCECC.
Confirm The Err	ned by: here and the Engine	er			走入 日 The Contra	ctor
		Hassan			Zhao Q	shy
Positio	n: Dy. Director. Sr. Environ	Massan ment specialist 2023				- 7.023
Date:	08-03-2023. 06-03-	1025			-0 -7	v _/

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Date: 03-03-2023

Annexure-01: Attendance Sheet

Dasu Hydropower Project

Dasu Hydropower Consultants

Meeting attendance sheet

Monthly Progress review meeting. KKH-01,RAR-01/TL-01/MW-01&2/PCI-01R/RAR-02/KKH-02/EM-01

Sr. Name of Participant Dept./Organisation Designation Contact No. Signature No Sardar Alam DHC Sr. Environmentalist 0333-9290609 Sh. Ever monumentalist 03336563675 Awais Hacks DHC 2 3 Dy. Director 03449596431. Fachat Ali WAPDA En. JUNAID HSE Mmager 0345-9601987 Ahmed HSE CECC HE Managas MANZOOR CERCE 10845-5687751 tussan HSE ARIF HUSSAIN HSE CCECC Environmentalist 0345-2848920 Ren Jianjun HSZ/CLZCC 0355 4960 52/ HSZ Manger Maso Khan Field Inspector 0395 9577742 DHC

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		ASU HYDROF DF MEETING (03 rd March 2023
Employer: WAPDA (DHPF	")				
Engineer: Dasu Hydropow	er Consultants (DHe	C)			
Contractor: China Civil Engi	ineering Construction	on Co., LTD (C	CECC)		
Subject: Month Review Meeting Date: 03 rd Marc Time: (04:30 pm Place: DHC Me Pages: 01 Exhibit: Attenda	h 2023 h-05:05 pm) beting Hall	rogress	Agenda: Monthly Envi Meeting of R	ironmental Progres AR-01.	ss Review
Attendees See the attached	attendance sheet				
	A GM/PD, Dasu A Director (Environ	ment), Dasu	3. Contract 4. Office Fi	or, CCECC ile / Circulation	
Agreed by:					
Employer Date: 08-4	3-2023.	Engineer Date: 05-		Contr Date:	actor 08-03-023
Representative Employer- WA		<u>Awais</u> Representativ Engineer (I			ntative of actor(CCECC)

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Projec		RAR-0	1		Locati	on		DHC Office
Emplo		WAPD,	A		Date c	f Meeting		03/03/2023 (04:30 pm-05:05 pm)
Engin		DHC				of meeting		DHC Meeting Hall
Contra	The second se	CCEC	2		Attend			Attendance Sheet Attached*
Sr.#	Checked Items and Actions Plan	ned	I	Action b	y	Target	Action	Status
			Emp.	Eng.	Con.	Date for Action	Confirm Date	Done/Closed, Not Done/open, In Progress/Partially closed
36	Fugitive Dust Suppression Measure Drilling				N	Immediate	05/11/2022 29/12/2022 31/01/2023 03/03/2023	Not DonePartially Done: This is a continuous activity and should be continued till the end of the project.Partially Done: This is a continuous activity and should be continued till the end of the project.Done:
39	Concrete Mixer / Truck Washing a Nullah/ Water body	Nearby			N	Immediate	29/12/2022 31/01/2023	The contractor agreed to train their drivers and maintenance staff not to wash their concrete mixers and other dumping vehicles in or Nearby Nullah/Water body Partially Done: The contractor has agreed to impart training to their drivers/ mechanics and other staff regarding this issue and promised to share record of trainings with the Engineer. In case of non-compliance the respective driver/ conductor will be fined.
40	Provision of Clean drinking water contractor Staff at site and Zaal Carr						03/03/2023 03/03/2023	Done The contractor has agreed to resolve this issue by 8 th of March 2023.

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Confirmed by: The Contractor The Engineer/Consultant The Employer Zhoo Quing Awais Hayson Fachat Ali Name: Sr Emisonment. Specialist Dy. Divector Position: 08-03-2023 08-23-2023 05-03-2023 Date:

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Annexure: Attendance Sheet of the Participants

Dasu Hydropower Project

Dasu Hydropower Consultants

Meeting attendance sheet

Monthly Progress review meeting KKH-01 RAR-01 TL-01/MW-01&2/PCI-01R/RAR-02/KKH-02/EM-01

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Date:	03-	03.	202	3
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Sr. No	Name of Participant	Dept./Organisation	Designation	Contact No.	Signature
1	Sardar Alam	DHC	Sr. Environmentalist	0333-9290609	
2	Awais Hassan	DHC		exit 03336563675	i lon
3	Fachat AG'	WAPDA/Em.	Dy. Director	03449596431.	- Con Cau
4	JUNAID Ahmed	HSE / CEECE	. HSE Manager	0345-9601987	and
45	MANZOOR HUSSAM	HSE CORCE	HSE Manager	0845-5687751	
6	ARIF HUSSAIN	HSE CCECC	Environ montalist	0345-2848920	Asit
7-	1423 Ren Jianjun	H52/ CC2(C	HSZ Manger	0355 4960 527	not
8-	Nasie Khan	DHC	Field Inspector	0345 9577742	
	1		/		

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	DASU HYDROP S OF MEETING		RUARY 2023
Employer:			03 rd March, 202.
WAPDA (DHPP)			
Engineer:			
Dasu Hydropower Consultants (D)	HC)		
Contractor:			
Power China Construction Co., LT Subject: Monthly Environmental		Agenda:	
Review Meeting for TL-01. Date: 03 rd March, 2023 Time: (09:20 am-10:10 am) Place: DHC Meeting Hall Exhibit: Attendance Sheet		Agenda: Monthly Env Meeting of T	ironmental Progress Review L-01.
Attendees See the attached attendance sheet			Dece
Distributed (Softcopy) to: 1. Employer - DHP WAPDA GM/PD, Dasu - DHP WAPDA Director (Enviror 2. Engineer - DHC RE TL-01, Dasu	nment), Dasu	3. Contract 4. Office F	ile / Circulation
Agreed by:			
Employer Date: 08-03.2023	Engineer Dato: Mull 05/03 Awais M	12023	Contractor Date: 08/04/2023
1000 an	Awais p	lasson	a del
Representative of Employer- WAPDA (DHPP)	Representativ Engineer (D		Representative of Contractor(PCCC)

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MINUTES OF THE MONTHLY ENVIRONMENTAL PROGRESS REVIEW MEETING (TL-01) FEBRUARY 2023



Proje		132 KV TL-	01R		Locat	ion		DHC Office
Empl		WAPDA	7		Date	of Meeting		03/03/2023 (09:20 am-10:10 am)
Engin		DHC			Place of meeting			DHC Meeting Hall
Contr		PCCC			Atten	dance		Attendance Sheet Attached
Sr.#		and Actions Planned	Act Emp.	PM	Con	Target Date for Action	Date to Confirm Action	Status Done/Closed, Not Done/Open, In Progress/Partially Closed
37	per EMAP and EC	vly hired camp building as CPs. The Engineer will red camp building on 3 rd			V	Immediate	30/06/2022 29/09/2022	The contractor informed that full shifting to the camp has not yet started. Inspection done but the camp is still under construction therefore will require a new inspection.
							02/11/2022	Contractor failed to attend meeting Contractor failed to attend meeting Therefore
							30/11/2022	NCR is issued by the Engineer.
							29/12/2022	The Joint Inspection will be done by the Engineer and WAPDA Environment Teams on 11 th of Jan 2023.
							31/01/2023	The camp inspection will be conducted by the Engineer and WAPDA on 01 st of Feb 2023.
							03/03/2023	Done
38	Ensure water sprint	kling with in the TL-01 located and access roads.			V	Immediate	29/09/2022	Partially Done
	Sites as well as all al	located and access roads.					02/11/2022	Contractor failed to attend meeting
	-						30/11/2022	Contractor failed to attend meeting Therefore NCR is issued by the Engineer.
							29/12/2022	

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					Not Done: On-going activity and contractor agreed to conduct it as per previous frequency i.e. 3 times a day in winter and 4 times a day in summer.
				31/01/2023	Not Done: The contractor has agreed to hire a Water Bowser for addressing the fugitive dust suppression activity.
				03/03/2023	Done:
1	Waste Management Practices to be reflected in	V	Immediate	29/09/2022	Not Done
	MPR.			29/12/2022	Not Done: The contractor has agreed to share the record of waste management practices currently being followed at site and for the camp area with cover letter and also to be included in MPR. The timeline for this compliance is 10 th of Jan 2023.
				31/01/2023	Not Done: The contractor has agreed upon doing Submission up till 14 th of Feb 2023
				03/03/2023	Done:
13	Training on Waste management to all TL-01	V	Immediate	31/01/2023	Not Done
	Staff			03/03/2023	Done on 21 Feb 2023
14	Training on protection of Flora and Fauna to all	V	Immediate	31/01/2023	Not Done
	TL-01 Staff			03/03/2023	Done on 17 Feb 2023
45	Drinking Water is taken by TL-01 contractor from a spring in front of UBL Building in Dasu	V	Immediate	03/03/2023	The contractor has agreed to drinking water tests results share the results of the spring by 15 th of March 2023.
46	Oil Spillage in TL-01 Camp	V	Immediate	03/03/2023	Bunding around the Generators is required as well as a maintenance register to be kept by the contractor



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		Dasu Hydropo Dasu Hydropowe			
		Meeting attend	lance sheet		
onthl Sr. No	y Progress review meeting: KKH-0 Name of Participant	Dept./Organisation	PCI-01R/RAR-02/KKH-0	2/EM-01 Da Contact No.	Signature
Ø	Imson Tarlay	Dy. Dis. Wagth	By. Disector	0321-5181114	Imeauly
02	Awais Hassan Khan	DHC	ST. Env Specialist	0333-6563675	the
03	Nasia Khan	DHC	Field Inspector	0345-9577742	Cas
04	Wang Ting	PCCC	Cheif Engineer		汪喜
05	M. Walced	PCCC	0450	0316-5594291	Jales
			1		

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	POWER PROJECT (PCI-01R) FEBRUARY 2023 04 th of March 2023
Engineer: Dasu Hydropower Consultants (DHC)	
Contractor: China Gansu Co., LTD (CGICOP)	
Subject: Monthly Environmental Progress Review Meeting for PCI_01R. Date: 04 March, 2023 Time: 10:45 am- 12:00 pm Place: DHC Meeting Hall Pages: 02 Exhibit: Attendance Sheet	Agenda: Monthly Environmental Progress Review Meeting of PCI-01R.
Attendees See the attached attendance sheet	
Distributed (Softcopy) to: 1. Employer - DHP WAPDA GM/PD, Dasu - DHP WAPDA Addl Chief Engineer (Environme Dasu	3. Contractor, CGICOP 4. Office File / Circulation
2. Engineer- DHC RE Infrastructure, Dasu	
Agreed by:	
EmployerEngineerDate: 03-03-2023Date: 06-	
Representative of Employer- WAPDA (DHPP)	1

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MINUTES OF THE MONTHLY ENVIRONMENTAL PROGRESS REVIEW MEETING (PCI-01R) FEBRUARY 2023



Projec		PC	I-01R			Location		DHC Office
Emplo		WA	PDA			Date of Meeti	ing	04/03/2023 (10:45 am- 12:00 pm)
Engine		D	PHC		Place of meeting		DHC Meeting Hall	
Contra	ictor	CG	CGICOP			Attendance	0	Attendance Sheet Attached
Sr.#	Checked Items and A		A Emp.	ction By Eng.	Con •	Target Date for Action	Date to Confirm Action	Status Closed, Open, Partially Closed
19	Submission of NOC an storage at site.	d License for fuel			V	15/08/2021	02/06/2021 03/07/2021 29/09/2021 26/10/2021 30/11/2021 30/12/2021 07/02/2022 01/03/2022 01/03/2022 27/05/2022	Not done. The Contractor was instructed quickly initiate the process. In process Engineer requested WAPDA through lett dated 12 th July 2021 to issue a recommendati- letter to district administration for CGICOP grant them an NOC for fuel storage which is prerequisite for license apply to Chi inspector of explosives. The Employer requested to pursue the matter please. Not done. The Employer was again requested to send a letter to the district administration f NOC. Not done. The Employer is again requested send a letter to district administration. Employer sent letter to DC to provide NOC contractor. Contractor was asked to pursue th matter to get the NOC for onward apply for license. Not Done. Still pending but contractor has promised to submit it by 07 th February 2022 Not Done. Still pending contractor has agree to share the NOC by 20 th of April 2022

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				30/06/2022 01/08/2022 29/09/2022 02/11/2022 30/11/2022	 Partially done. The Engineer instructed the contractor to proceed further in the matter and send application to KP Inspector of Explosives for grant of license. Not Done: The Engineer will issue a reminder letter to the contractor regarding NOC from Inspector of Explosives. Partially Done: The contractor has agreed to pursue the case and up till 15th of Oct 2022 he will submit. Partially Done: An NCR will be issued to the contractor for the non-compliance. Not Done: NCR is issued on 7th of Nov 2022.
				29/12/2022 31/01/2023	The contractor has not closed the NCR yet. Not Done: Not Done: The Engineer has already issued an NCR on this long awaited and outstanding
				04/03/2023	issue. Not Done: The contractor is not serious in implementing this issue therefore contractor was issued an NCR and still no response from the contractor.
	NL + Quitabling Jonus Contractor is instructed	 V	Immediate	29/09/2022	Not Done;
47	Water Sprinkling Issue. Contractor is instructed to ensure adequate water sprinkling inside the colony area as well as the allocated portion of Khoshe access road.			02/11/2022	Partially Done: Contractor agreed that Increase in frequency of water sprinkling is much need
				30/11/2022	Partially Done; The sprinkling issue is partially resolved by contractor i.e., half of the road is always dry as well as the frequency needs to be increased.
				29/12/2022	Partially Done: The contractor agreed to increase the frequency and coverage of the Water sprinkling area.
				31/01/2023	Not Done: The contractor has agreed to ensure this activity throughout the contractual term except rainy days.

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10				04/03/2023	Done
48	MPR Should reflect Waste/ discarded materials section describing used batteries and tires and	V	Immediate	29/09/2022	Not Done;
	used oil with their quantities and disposal method /vendor details.			02/11/2022	Partially done The details of used tires an Batteries are not provided in the MPR of Oc 2022
				30/11/2022	Not Done: The contractor has agreed to submit by 08 th of Dec 2022
				29/12/2022 31/01/2023	Partially Done: The write up needs to be updated and the record needs to be shared by the contractor with cover letter to which the contractor has agreed upon to share by 10 th o January 2023. Not Done:
				04/03/2023	Done:
52	Hot Water Availability for Labor, Security and all other Staff		12 Dec 2022	30/11/2022 29/12/2022	The contractor has agreed to install Geysers in the Camp Not Done: The contractor has agreed to implement this point by 12 th of January 2023
				31/01/2023	Not Done The contractor has agreed to implement this point by 15 th of February 2023
53	Anothelities of Mr. Mr. 1			04/03/2023	Not Done:
33	Availability of More Wash rooms for Camp area	V	15 Dec 2022	30/11/2022	The contractor has agreed to provide more toilets to the Labor, Staff and other employees up till 15 th of Dec 2022
				29/12/2022 31/01/2023	Not Done: Not Done: The contractor has not complied by the engineers instructions
<i>E E</i>				04/03/2023	Not Done: The contractor has agreed to build more toilets up till 20 th of March 2023.
55	Oil Spills Training	V		29/12/2022	Contractor has agreed to impart training to all staff especially mechanics and before 23 rd of Jan, 2023. Contractor has also agreed to impose fines to all of its staff who so ever will

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					31/01/2023	be responsible of oil spillage after 30 th of Jan 2023. Partially Done: Some staff is still pending, Therefore the contractor will impart to rest of its labor and staff and submit record to the Engineer by 15 th of Feb 2023
			T		04/03/2023	Done:
56	Living Conditions (Welfare Facilities)	V		Immediate	29/12/2022	The Environment Section and OHS Section of DHC will decide this matter after an internal meeting that which section of DHC will do the monthly inspections.
					31/01/2023	Not Done: The contractor has agreed to upgrade the following issues by 20 th of Feb 2023: Bunk Beds, Over crowdedness, Cleanliness
			-			and Hygienic conditions in the Kitchen, Proper Drainage of Sewage pipes, Preparation of dedicated Dinning Hall, Availability of Hot Water in Kitchen and Wash Rooms, Scarcity of Toilet, and use of Wood as fuel in the Camp
					04/03/2023	areas. Partially Done: The contractor has failed to provide proper drainage for sewage water, Dining Hall/ Common Room, availability of Hot water in Toilets/ Bath Rooms and LPG Cylinders with stoves.
57	Treatment of Sedimentation Pond water before release inn to the drain.		1	Immediate	29/12/2022	The contractor has agreed to treat its sedimentation pod water before its release in to the drain.
					31/01/2023	Not Done:
					04/03/2023	Not Done: The contractor has agreed to comply by 18 th of March 2023.
58	Concrete Mixer Truck Washing at Chuchang Nullah		V	Immediate	29/12/2022	The contractor agreed to train their drivers and maintenance staff not to wash their concrete mixers and other dumping vehicles in or near the Chuchang Nullah.

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					31/01/2023 04/03/2023	Not Done: Done: Training conducted
59	Introduction of Reward an Repeated offenders on En Compliances		V	Immediate	04/03/2023	The contractor has agreed to implement this management technique on all sites of PCI-01R.
-	mployer	The Engineer			The Cont	ractor
Name:		Awais Hassan			Foral	Mabord
Positic Date:	n: <u>Dy. Divector</u> , <u>08-03-2023</u>	8 to Environmed \$	pecialist		Ells M	Daney is

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	Annexure: Attendence	ce Sheet of Participants		
	Dasu Hydrop	ower Project		
	Dasu Hydropow	ver Consultants		
v Progress review meeting: KK			2/EM-01	Date: 04 - 03 -2023
Name of Participant	Dept./Organisation	Designation	Contact No.	Signature
Falhat Ali	EN. WAPDA	Dy. Director.	0344 9596	431 -100.00
AWARS HASSAN	DHC	SR. ENVERONMENT SPECEALEST	0333656367	5 Am
Fazal inchood	CGICOP		03441190431	James and
94 - 400 401 (944)				
	2. 1997. und	•		
بر این				
		Dasu Hydrop Dasu Hydropov Meeting atter Progress review meeting: KKH-01/RAR-01/TL-01/MW-01&2 Name of Participant Dept./Organisation Fachat Alii Ew. WAPDA Awars Hassan DHC	Name of Participant Dept./Organisation Designation Fachat Ali: Ew. WAPDA Dy. Divector. Awars Hassan DHC Spectal IST	Dasu Hydropower Project Dasu Hydropower Consultants Meeting attendance sheet Progress review meeting: KKH-01/RAR-01/TL-01/MW-01&2 PCI-01R RAR-02/KKH-02/EM-01 Name of Participant Dept./Organisation Designation Contact No. Fachat Ali Ew. WAPDA Dy Divector, 0344 9596 Sa. Ewiteconment 0333656367.

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	POWER PROJECT G (KKH-02) February, 2023 02 nd of March, 2023			
Employer: WAPDA (DHPP)	02 01 Watch, 2023			
Engineer: Dasu Hydropower Consultants (DHC)				
Contractor: China Gezouba Group Co., LTD (CGGCC)				
Subject: Monthly Environmental Progress Review Meeting for KKH-02. Date: 2 nd of March 2023 Time: (11:45am-12:40pm) Place: DHC Meeting Hall Pages: 01 Exhibit: Attendance Sheet	Agenda: Monthly Environmental Progress Review Meeting of KKH-02.			
Attendees See the attached attendance sheet				
Distributed (Softcopy) to: 1. Employer - DHP WAPDA GM/PD, Dasu - DHP WAPDA Director (Environment), Dasu 2. Engineer - DHC RE Roads, Dasu	3. Contractor, CGGC4. Office File / Circulation			
Agreed by:				
Employer Date: 08-03-2023 Date: 06	<u>Contractor</u> Date: 08-03-2028			
Representative of Employer- WAPDA (DHPP) Aurais 7 Engineer (Let a set			

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MINUTES	OF THE MONTHLY ENVIRON	MENTAL PROGRESS REVIE	W MEETING (KKH-02) February 2023	DHC
	KKH-02	Location	DHC Office	

	Project KKH		2		Locati	on		DHC Office		
A	Employer WAPDA				Date o	of Meeting		02/03/2023 (11:45am-12:40 pm)		
-	Engineer DHC				Place of meeting			DHC Meeting Hall		
Contractor CGGC		2		Attend			Attendance Sheet Attached*			
Sr.#	Checked Items a	and Actions Planned	1	Action by	1	Target	Action	Status		
			Emp.	Emp. Eng.		Date for Action	Confirm Date	Done/Closed, Not Done/open, In Progress/Partially closed		
01	for KKH-02 Compor	Environmental Manager nent			V	20/07/2022	29/-09/2022	Not Done		
							02/11/2022	Not Done: The employer instructed the Engineer to issue NCR to contractor for Non compliance		
							30/11/2022	Not Done: NCR has been Issued by the Engineer		
							29/12/2022	Not Done The contractor has agreed to share Resume of Suitable candidate by 23 rd of Jan 2023 so that NCR closure procedure can be proceeded with.		
							31/01/2023	Note Done: The contractor has agreed to share a qualified and experienced persons resume up till 15 th of Feb 2023		
02	D-1						02/03/2023	Partially Done: The contractor has submitted CV's of some candidates for the said position.		
02	Comments	P as per the Engineers			V	16 th of Jan 2023	29/09/2022	Not Done		
							02/11/2022	Not Done		
							30/11/2022	Partially Done: The contractor needs to update the CEAP as per new design changes		
							29/12/2022	Not Done: The contractor needs to update the CEAP as per new design changes i.e. addition of New Tunnels and Bridges and improve the shortcomings in the CEAP as commented by the Engineer by 20 th of Jan 2023.		

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					31/01/2023	Note Done: The contractor has agreed to submit up till revised CEAP up till 15 th of Feb 2023.
					02/03/2023	Note Done: The contractor has agreed to submit up till revised CEAP up till 20 th of March2023.
05	Rolling of Debris/ over burden or any loose material after blasting/ slope cutting activity to be hauled away at the designated disposal site only		N	Immediate	29/-09/2022	The contractor informed that the passage to the site is very narrow and the dumper cannot reach in that very location resulting in some of the material being rolled over the slope. In future as the path is widened enough that the dumper can reach at the very location of where work is under progress haulage activity will start immediately.
					02/11/2022	Not Done: The Contractor was instructed to submit spoil disposal and sprinkling plan by 14 th of Nov 2022
					30/11/2022	Partially Done: The Information has been added to the MPR but the information is in adequate as The Engineer want to have a clear picture about Spoil disposal, and Water Sprinkling issues. Therefore it is instructed to the contractor to re write the Spoil Disposal and Water Sprinkling Plan.
					29/12/2022	Not Done: New date for compliance of slope protection and haulage of excavated material is agreed with the contractor as 23 rd of Jan 2023 Not Done: Share the new methodology agreed
					31/ 01/2023	with Technical Team (Road Design Engineers)
					02/03/2023	Partially Done: Method statement for spoil material dumping is submitted to the Engineer.
06	Ensure environmental topics to be covered in		V	Immediate	29/-09/2022	Not Done
	TBT				02/11/2022	Not Done The contractor informed that TBT will be covered in the MPR which will be submitted by 14 th of November 2022

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				30/11/2022	Partially Done: The contractor has given information in the MPR i.e. Table 2 of Introduction Chapter but This table should have separate explanation and proper write up should be developed for it. Not Done: The contract have to comply by 16 th of Jan 2023 especially, oil Spills, Waste Management, Housekeeping, dust suppression measures, cleanliness and hygiene among workers, communicable diseases, protection of flora and fauna, Protection of Water Bodies from Pollution. Soil Protection, Slope Protection.
				31 /01/2023 02/03/2023	Partially Done: The contractor has agreed to share fortnightly with cover letter and in the MPR of every month also. Done
10	Loose Material from Slopes	V	Immediate	29/12/2022	Contractor has agreed to remove all boulders and other loose rock from the slopes by 23 rd of January
11	Oil Spill	- 1		31/01/2023 02/03/2023	2023. Partially Done: The contractor has agreed to share the photographic evidence along with location maps and report. Done: Contractor has removed major boulders and other loose rock from the slopes in February 2023 (Shared the Data vide letter 356 Ref No. having subject of Method statement of spoil material removal.)
**	ou opin	V	Immediate	29/12/2022 31/01/2023	Contractor has agreed to impart training to all staff especially mechanics and before 23 rd of Jan, 2023. Contractor has also agreed to impose fines to all of its staff who so ever will be responsible of oil spillage after 30 th of Jan 2023. Partially Done: The contractor has agreed to
				02/03/2023	share the training record in the January 2023 MPR.
				02/03/2023	Not Done: The contractor has agreed to introduce reward and punishment system (i.e., introduction

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					of fines to repeated offenders of environmental noncompliance)
12	Used Drums, Spill Sheets, Drip trays procurement	V	Immediate	29/12/2022	KKH-02 Representative Mr. Zhang Jun (QHSE Manager of KKH-02 Contract, CGGC) has agreed to conduct procurement of Drip trays, Spill Sheets, Spill Kits, PPE's Necessary for Oil Change and Spillage for KKH-02 contract. Training of all staff is required by 23 rd of Jan 2023 for all staff having topic: "In case of Oil/Chemical Spillage, how to use Spill Kit on site"
				31/01/2023 02/03/2023	Not Done: The contractor has agreed to raise an AFI up till 8 th of Feb 2023 on this issue. Not Done: The contractor has agreed to ensure compliance up till 10 th of March 2023 on this issue.
13	Provision of Portable toilet on the KKH-02 Sites as well as container offices.	1	Immediate	31/01/2023 02/03/2023	The contractor has agreed to place portable toilets as well as container offices for the site staff for their perusal. Not Done: The contractor has agreed to ensure compliance by 20 th of March 2023.
14	Wood Burning at different locations of KKH-02	V	Immediate	31/01/2023 02/03/2023	Wood Burning is strictly prohibited as per ECP's provided in the contract. Not Done: Record to be shared for training of staff/labor as well as provision of LPG cylinders/ Heaters by 09 th March 2023
15	Submission of Fuel Storage License in KKH- 02 Camp area	N	Immediate	02/03/2023	The contractor and Engineer has discussed on this matter and contractor has been given timeline up to 05 th of April 2023.
16	Reward and Punishment system	N	Immediate	02/03/2023	The contractor has agreed to introduce reward and punishment system for effective compliance of environmental aspects on their sites.

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Confirmed	d by:			
	- Repender	Aurin		
	The Employer	The Engineer/Consultant	The Contractor	-
Name:	Fashat Ali	Awais Hasson	Syed Usman Styther	
Position:	Dy. Director.	Sr. Environment Sp	OHSO	
Date:	08-03-2023	06-03-2023	08-03-2022	

Dasu Hydropower Project Environmental Quarterly Progress Report No. 33 (Jan to March 2023)

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Month	ly Progress review meeting: KKH-0	Dasu Hydrop Dasu Hydropow Meeting atter	ver Consultants Idance sheet	02/EM-01	Date: 02-03-2023
Sr. No	Name of Participant	Dept./Organisation	Designation	Contact No.	Signature
{	zhang jum	94SE/KKH-02	otts director	03481778359	3224
	foral or Rahman		Ess	03474846528	(P w
	Imran Tariar	Wapda	Dy. Disector Sh. Ew. Specialis	9321-518111	4 Imequetry
	Awais Harran	DHC	Sh. Ew. Specialis	4	the good
	Sardar Alam	4	4	V	U
	Sardar Alam Nasik Khan	DHC	Field inspector	\$345-957774	2 200
A.,					
L					

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Monthly Progress Rreview Minutes for March 2023

	DROPOWER PROJECT G (MW-01& MW-02) M/	ARCH 2023 30 th March 2023
Employer: WAPDA (DHPP)		50 March 2025
Engineer: Dasu Hydropower Consultants (DHC)		
Contractor: China Gezhouba Group Co., LTD (CGGC)		
Subject: Monthly Environment Progress Rev Meeting for MW-01&02. Date: 30 th March 2023 Time: 08:45 am-10:30 am Place: DHC meeting Hall Exhibit: Attendance Sheet		ental Progress Review 1&02.
Attendees See the attached attendance sheet		
Distributed (Softcopy) to: 1. Employer - DHP WAPDA GM/PD, Dasu - DHP WAPDA Director (Environment), Da	3. Contractor, CO 4. Office File / C	
2. Engineer - DHC RE MW-01&02, Dasu		
Agreed by:		
EmployerEngloyerDate:07-04-2023Date:07-04-2023	e: 06-04-23	Contractor Date:
- Case Qui	b/	zhanykal 4.9/23

Representative of

Engineer (DHC)

Representative of

Employer- WAPDA (DHPP)

Repro

Representative of Contractor(CGGC)

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Minutes of the Monthly Environmental Progress Review Meeting (MW-01& MW-02) MARCH 2023

Proje		MW-01&	: MW-02			Location		DHC Office
Empl		WAI	PDA			Date of Meetin	g	30 th March 2023
Engir	Engineer DH		DHC		Place of meeting		DHC Meeting Hall	
Conti	ractor	CG	GC			Time	.8	08:45 am-10:30 am
Sr. #		nd Actions Planned	A Emp.	ction By Eng.	Con.	Target Date for Action	Action Confirm Date	Status Closed, Open,
23	Status of 3 rd party monitoring as per contrac	Quarterly environmental et specifications			7	20/05/2021	Date 02/06/2021 02/07/2021 26/10/2021 30/11/2021 30/12/2021 07/02/2022 01/03/2022	Partially Closed In process. In process. The contractor informed that the contract with the laboratory is in process by CGGC commercial department. Not done. Not done. The contractor was instructed to immediately arrange 3 rd party quarterly environmental monitoring. Partially done. The Contractor mobilized <i>Bureau Veritas</i> environmental monitoring laboratory to site but their equipment were not as per the monitoring specifications. The Laboratory was demobilized and were asked to come up with all the calibrated analyzers and instruments. The contractor informed that the laboratory will be remobilized to site by 10 th January 2021. The Contractor informed that they are considering new environmental laboratory for the environmental monitoring which may be mobilized by 20 th February 2022. Employer and Engineer instructed the Contractor to share profile before mobilization of the environmental laboratory. The Contractor informed that they are considering new environmental laboratory for the environmental monitoring which may be mobilized by 20 th February 2022. Employer and Engineer instructed the Contractor to share profile before mobilization of the environmental laboratory. The Contractor informed that they are considering new environmental laboratory for the environmental monitoring which may be mobilized by 20 th February 2022. Employer and Engineer instructed the Contractor to share

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		profile before mobilization of the environmental laboratory
	05/04/2022	"The Engineer" will write a letter to contractor for updated status about the Third-Party Monitoring Laboratory Hiring Status.
	28/05/2022	Not Done: Contractor shared its decision that SGS Laboratory is finalized by the CGGC but number of parameters is still under discussion.
	30/06/2022	Not done. The Contractor informed that their contract section wants clarification regarding the number of parameters to be tested. A meeting in this regard will be scheduled by the Engineer.
	29/09/2022	The contractor has decided to take SGS on board for the third party monitoring purpose but there is a meeting scheduled in 13 th October 2022 in order to discuss and finalize
	02/11/2022	the Parameters to be performed. Not Done: The contractor informed that the certification and equipment list of another lab will be shared with the Engineer for their approval by 12 th Nov 2022.
	30/11/2022	Not Done: The contractor informed that they are in search of a lab and they will submit by 12^{th} of Dec 2022.
	29/12/2022	Not Done: CGGC has again come up with Bureau Veritas Environmental Laboratory. The contractor has agreed to re submit the technical profile of M/s Bureau Veritas with all requisite documents especially certificate of registration from PK EPA. The engineer with
		consent from WAPDA has agreed to re consider this organization with all complete documentation and proof of all statutory

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					* 14
					requirements to be submitted by CGGC up till 25 th of January 2022.
			1	31/01/2023	Not done.
					The contractor has sought new timeline for
					himself i.e., up to 16th of Feb 2023 for sorting
					this issue. The contractor will pursue the matter with their Bureau Veritas (B.V)
					Laboratory. If the B.V Lab doesn't share its
					Certificate of Registration from EPA, KPK
					than CGGC has to share a new KP EPA
					Approved Laboratory profile up till 16 th of Feb 2023.
				02/03/2023	Not Done: The Bureau Veritas (B.V) Lab
					haven't shared its Certificate of Registration from EPA, KPK. The CGGC contractor has
					agreed to submit a new Third Party Lab un-till
		V			15 th of March 2023.
		,	15/04/2023	30/03/2023	Not Done: The contractor is given timeline up
36	Appointment of Environment Director	V	16 th January	07/02/2022	to 15 th of April 2023.
		*	2021	0110212022	Not done. The Contractor informed that search for the candidate is in progress and CV will be
					shared with the Engineer for approval most
					probably by 25 th February 2022.
				01/03/2022	Not done. Contractor informed that search for
				28/05/2022	suitable candidate is still in progress.
				20/03/2022	Not Done: The matter is still pending; Contractor has assured to share CV of suitable
					candidate who has some practical experience.
				20/06/2022	Not done. Contractor verbally discussed about
				30/06/2022	a potential candidate Mr. Afzal who was
					engaged in Neelum Jehlum. The Engineer instructed the contractor to submit the CV
					officially to proceed further in this matter.
				29/09/2022	Note Done: The contractor will submit the
					resume of the nominated person 14th Oct 2022
				02/11/2022	Not done. The Contractor informed that search
					for the candidate is in progress and CV will be

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						shared with the Engineer for approval most probably by 17 th November 2022.
					30/11/2022	Not done . The Contractor informed that search for the candidate is in progress and CV will be shared with the Engineer for approval most probably by 12 th December 2022.
					29/12/2022	Not Done: The contractor was informed that this matter is also discussed with WB and the WB is also of the view that in case of non- availability of 15 years' experienced person the experience may be reduced to 10 years. On this issue the Engineer has already seeked approval from WAPDA. The contractor has agreed to a find a suitable candidate and submit his her resume before 23 rd of Jan 2023.
					31/01/2023	Not done: WAPDA has sought guidance from World Bank and World Bank has reduced the Experience up to 08 years. Therefore, On these basis CGGC MW-01 and MW-02 contracts has sought time up till 15 th of Feb 2023
					02/03/2023	Partially Done: The contractor has submitted six resume's for the Environmental Manager Position.
					30/03/2023	Partially Done: The contractor has been provided with approval of one candidate named Mr. Tariq Jan for MW-01 contract. The contractor agreed to take on board the new Environmental Officer (MW-01) and report to the Engineer's office via letter. The Environmental Officer for MW-02 is still pending.
-	55	Used oil and New Oil Storage Training	V	Immediate	29/12/2022	Contractor has agreed to imparted training to all off its staff on how to handle/ change the oil of different equipment's/ vehicles/ machinery on site and off site. Similarly special bounded

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					storage areas (having concrete foundations) will be established by the contractor in-order to avoid any oil spillage. All used oils will be stored in 200 liter drums which will be placed on concrete foundations and bounded with at least the capacity of the oil storage vessels itself.
		0		31/01/2023	Partially Done: The contractor has conducted trainings on the oil spillage issue but has not imposed any fines yet on the polluters. Therefore, contractor has agreed to share record of the trainings up till 8 th of Feb 2023.
				02/03/2023	Not Done: The contractor has informed that their EMD section is recording data for used engine oil. The engineer will visit the switchyard, CR-09 and CR-02 and verify the situation and then close the point.
				30/03/2023	Not Done: The engineer verified the situation by inspecting the sites on 28 th of March 2023 under Main works and found that record is not maintained neither the record was shared with The Engineer.
56	Water Quality of Sedimentation tanks	V	Immediate	29/12/2022	The contractor has agreed to impart methods of introduction of acid to lower the pH of the sedimentation ponds on all sites of MW-01 &MW-02.
				31/01/2023	Not Done: The contractor has agreed to improve the water quality as the pH levels is consistently high Therefore the contractor will be adding higher quantities of fresh water. The contractor has also agreed to conduct an experiment in their lab in which he will come out with a result that how much amount of acid is needed to lower the pH value of Waste water

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						02/03/2023	and submit to the Engineer up till 10 th of Feb 2023. Not Done: The contractor has agreed to improve water quality issue by 16 th of March 2023.
						30/03/2023	Not Done: The contractor raised an AFI on 1^{st} of March 23 to conduct a sample test for lowering of pH. It was found that almost 0.25 ml of dilute acid is needed for 1 litre of water (the acid used was diluted H ₂ SO ₄). After that contractor shared in the meeting that dosage of diluted acid to the sedimentation Tanks required large quantities. The matter is still pending. The contractor agreed to put the fresh water pipe to the tertiary outlet of the sedimentation tank.
59	Contractors Local Staff Residential Facili Inspection required	у	~		Immediate	29/12/2022 31/01/2023	The engineer will conduct meeting among Environment and OHS Sections and then decide that who will be conducting this inspection and with what frequency. During the inspection Workers Welfare facilities will be monitored as per provisions in the contract. Not Done : The Engineer conducted the inspection in Jan 2023 and found the discrepancies regarding provision of hot water, overcrowding and filthiness of toilets, waste management is still existing. Therefore Contractor has agreed to rectify the situation in the Labor camp of Pakistani staff and raise an
				×		02/03/2023	AFI up till 10 th of Feb 2023 to the Engineer. Not Done: The contractor has agreed to discontinue use of Wood as fuel and provide Gas cylinders. The contractor has also agreed to deploy janitors for washrooms.

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				30/03/2023	Not Done: The contractor has agreed to improve Welfare facilities for the Pakistani staff as well, which is provision of LPG cylinders instead of wood as fuel, provision of more washrooms/toilets, etc. (This matter is already inspected by the OHS Team)
62	Zero Tolerance policy for animals at site	7	Immediate	29/12/2022	No animal are allowed on the construction site by any staff member of CGGC at any construction site. The contractor has agreed to remove all animals from all construction sites before 16 Jan, 2023. {*Note: If Chinese Nationals want to keep dogs, they should be kept in special cages in Chinese part of Barseen Camp) and properly vaccinated for rabies and other communicable diseases.}
				31/01/2023	Partially Done: Contractor has removed some of the animals from construction sites but still there are some animals like pigeon and chicken on CR-09 site, dogs on CR-02 site etc.
				02/03/2023	The engineer will verify and close the point
				30/03/2023	Not Done: The engineer has verified this issue and found that stray dogs with full families are residing inside CR-02, CR-09, Switch yard, CT-02 area. The contractor will write a letter to The Engineer for taking help in removing of stray dogs from the site with the help of municipal committee.
63	Welfare facilities @ CR-02	7	Immediate	29/12/2022	The contractor has agreed to hire a dedicated janitor for every site who will be responsible for cleaning the toilets at least three time a day in one shift. Additionally the Toilet at CR-02 are choked up, therefore they will be cleared of any sludge and the septic tank will also be cleared along with the toilets. The contractor

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					has also agreed to install flushing system at CR-02.
				31/01/2023	Not Done: The contractor has agreed to rectify the situation by 10^{th} of Feb 2023.
				02/03/2023	Not Done: The contractor has agreed to hire a permanent janitor for CR-02 Site and rectify the situation by 10 th of March 2023.
				30/03/2023	Not Done: The engineer has conducted joint inspection with WAPDA but the situation is still the same as previous
64.	Use of wood as fuel is still going on the switchyard site.	V	Immediate	31/01/2023	The contractor was told to immediately stop use of wood as fuel and contractor has agreed to provide LPG Gas cylinders to its staff.
				02/03/2023	Not Done: After verification The point will be closed.
65	Use of chemical tank for human use.	V	Immediate	31/01/2023	Contractor has agreed to replace this chemical tank with a new Water Tank as empty chemical tank is being used for store water for human consumption.
				02/03/2023	Not Done: The contractor has agreed to replace all chemical tanks which are in human use with new domestic water supply tank.
				30/03/2023	Not Done: The contractor has agreed to rectify the issue, raise an AFI for this issue and close NCR
66	Scarcity of Toilets	V	Immediate	02/03/2023	No. of Washrooms to be increased from 1-2 up till 10 th of March 2023.
				30/03/2023	Not Done: The scarcity of toilets will be dealt with specifying the location wise plan as well as, the contractor has agreed to rectify by 10 th of April 2023

Dasu Hydropower Project Environmental Quarterly Progress Report No. 33 (Jan to March 2023)

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67	Implementation of the Conditions of NOC from EPA, KP for Uchar Thoki Crushing Plant.	V	Immediate	02/03/2023	Plantation of trees are required around the crush plant. (time line before 18 th of March 2023)
				30/03/2023	Partially Done: The condition of tree plantation is implemented by the contractor but the sedimentation tank is still pending.
68	Submission of TMP	V	Immediate	02/03/2023	Contractor has agreed to submit up till 10 th of March 2023
				30/03/2023	The contractor's higher management will be contacted by the Engineer to submit TMP up till 16 th of April 2023.
69	Waste Bins at the construction sites	V	Immediate	02/03/2023	Waste bins to be increased at site up till 10 th of March 2023
				30/03/2023	Done
70	Expedite NCR's Closure	V	16/04/2023	30/03/2023	The contractor has agreed to expedite the process and respond to all NCR's by 16 th of April 2023.
71	Air Dispersal Modeling Report	V	15/04/2023	30/03/2023	The contractor has agreed to submit the Air Dispersal Modeling report by 16 th of April 2023.

Confirmed by:

	- Cassa Qui	
	The Employer	
Name:	Fashat Ali	
Position:	Dy Director	
Date:	07-04-2023	

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The Engineer/Consultant Awais Harran Khan Sh Environmentalist

06-04-2023

The Contractor Zhuny M2 7023.4.9

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. Date 30/03/2013

Annexure-01: Attendance Sheet

Dasu Hydropower Project

DHC Office, Dasu

Meeting attendance sheet

Monthly Environmental Progress review: KKH-01/RAR-01/TL-01/MW-01/MW-02/LBRV_11&12/PCI-01R

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Sr. No	Plame of Particip, nt	Lopt./Organisation	Designation *	Contact No.	Signature
01	Imran Taria	Wapda	Dy. Director	0321-5181114	meaulth
02	Aurais Hassan	DIAC	SR. Environment	s a literation	Aurice
03	Sardaz Alam	DHC	SR. Ewikment	x >	. The
04	Zafar Japol Ch.	DHC	Chief Environme	et 0300-9460132	2 manhad
05	Nasir Khan	DHC	Field inspector	0 345-9577742	Cal .
06	Thurykan2	CT4C	MSED	0347/08309	() 南利
07	Wu	Clubel	Translator	03554639197	120005
08	Saeed-W-Hassan	CGGC	HSE)	0321981272	CR3
09-	RAHMAT ALS	CGGC	HSED Env. Supervise	03554279961	Muntur
10	Yousay Khan	DHe	Dpm.	6300 57 16 345	A
11	Fashad Ah	WAPDA	Dy. Director	0344 9596 431	-factor

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	DROPOWER PROJECT ETING (RAR-01) MARCH 2023 30 th March 2023
Employer: WAPDA (DHPP) Engineer: Dasu Hydropower Consultants (DHC)	<i>i</i>
Contractor: China Civil Engineering Construction Co., L	TD (CCECC)
Subject: Monthly Environmental Progress Review Meeting for RAR-01. Date: 30 th March 2023 Time: (02:40 pm-03:25 pm) Place: DHC Meeting Hall Pages: 01 Exhibit: Attendance Sheet	Agenda: Monthly Environmental Progress Review Meeting of RAR-01.
Attendees See the attached attendance sheet	
Distributed (Softcopy) to: 1. Employer - DHP WAPDA GM/PD, Dasu - DHP WAPDA Director (Environment), D 2. Engineer - DHC RE Roads, Dasu	3. Contractor, CCECC 4. Office File / Circulation
Agreed by:	
Employer Er Date: 07,04.2023 Da	ngineer te:06/04/2023 <u>Contractor</u> Date:08-04-023
	esentative of ineer (DHC) Representative of Contractor(CCECC)

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MINUTES OF THE MONTHLY ENVIRONMENTAL PROGRESS REVIEW MEETING (RAR-01) MARCH 2023

Projec	t RAR-0	RAR-01 Location			DHC Office		
Emplo	byer WAPD.	A		Date o	f Meeting		30/03/2023 (02:40 pm-03:25 pm)
Engin	eer DHC	DHC CCECC			of meeting		DHC Meeting Hall
Contra					lance		Attendance Sheet Attached*
Sr.#	Checked Items and Actions Planned	Action by		1	Target	Action	Status
		Emp.	Eng.	Con.	Date for Action	Confirm Date	Done/Closed, Not Done/open, In Progress/Partially closed
40	Provision of Clean drinking water to All contractor Staff at site and Zaal Camp			V		03/03/2023	The contractor has agreed to resolve this issue by 8^{th} of March 2023.
						30/03/2023	Done
41	Bunding of pavement under the Generator sets			V	10 April 2023	30/03/2023	The contractor has agreed to ensure compliance by 10/4/23
42	Door for Toilets and Wash Rooms			V	10 th of April 2023	30/03/2023	The contractor has agreed to ensure compliance by 10/4/23

Confirmed by:

0

The Employer

Name:

Position:

Date:

The Engineer/Consultant

Awais Hasson Khow

Environment 06-04-2022

The Contractor

08-04-2023

Dasu Hydropower Project Environmental Quarterly Progress Report No. 33 (Jan to March 2023)

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	Annexure: Attendance	Sheet of the Participan	ts	
	Dasu Hydrop	-	· · .	
	Meeting atten	dance sheet		- 1 - 1
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1. Imran Taniar.	wapda	Dy. Disector	2321-5181114	manil
2. Fachat Ali	WAPDA	Dy. Director		- Qui
3. Junaid Ahmed	HSE/CCECC	HSE Manager	0345-9601987	anguis
4、从建军	HSZ/CCZCC	HSZ Manager	0355-4987000	mar
5. JMRan Khan	intervetorceac	ccecl	03487833437	Cutt
6. Junaid Effikhar	chapela	SUB-Engineer	a second s	Thungick
7. Awais Hassan	DHC	SA Environmental	1	Auris
8. Sardar Alam	DHC	Sh. Ewinonumental	1	A Caring
9. Zafar Ighal Ch.	DHC	Chief Environmentalist	0300-7460132-	s- Annah
10- Nasis Ehan	DHC	Field inspector	0345-9577742	i Cours

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	POWER PROJECT IG (RAR-02) MARCH 2023
Employer: WAPDA (DHPP)	11 th of April, 2023
Engineer: Dasu Hydropower Consultants (DHC)	
Contractor: China Gezouba Group Co., LTD (CGGCC)	
Subject: Monthly Environmental Progress Review Meeting for RAR-02. Date: 11 th April, 2023 (09:00 am-10:05 am) Place: DHC Meeting Hall Pages: 01 Exhibit: Attendance Sheet	Agenda: Monthly Environmental Progress Review Meeting of RAR-02.
Attendees See the attached attendance sheet	
Distributed (Softcopy) to: 1. Employer - DHP WAPDA GM/PD, Dasu - DHP WAPDA Director (Environment), Dasu 2. Engineer - DHC RE Roads, Dasu	3. Contractor, CGGC4. Office File / Circulation
Agreed by:	
Employer Date: 15.04.23 Date: 11	Er -04-23 Date: 2 N. 4 B
Representative of Representative Employer- WAPDA (DHPP) Engineer	

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Proj		RAR-0	2		Locat	ion		DUCOS
	nployer WAPDA		A			of Meeting		DHC Office
	neer	DHC				of meeting		11 April, 2023 (09:00 am-10:05 am)
	tractor	CGGC	C		Atten			DHC Meeting Hall
Sr.#	Checked Items an	d Actions Planned		Action by		Target	Acti	Attendance Sheet Attached*
01			Emp.	Eng.	Con.	Date for Action	Confi	irm Done/Closed, Not Done/open, In Progress/Partially
01	for RAR-02 Compone					5 th of June 2022	30/06/2 29/09/20 02/11/20 30/11/20 29/12/20 31/01/20 02/03/20 11/04/20	 Not done. The Contractor informed that they will share CV of a relevant candidate to be considered for the post. Not Done; Contractor is instructed to submit the resume by 17th of Oct 2022. Not Done; Contractor is instructed to submit the resume by 17th of Nov 2022. Not Done; Contractor is instructed to submit the resume by 15th of Dec 2022, otherwise an NCR will be issued against this non-compliance. Not Done: The contractor has been shared with grave concern by the Engineer to submit a suitable candidate resume by 17th of Dec 2022. Not Done: The contractor has agreed to share a qualified and experienced candidate resume by 14th of Feb 2023. Partially Done: Resume's submitted by CGGC(PM, RAR-02) Partially Done: The contractor has agreed to submit the relevant candidate CV by 15th April 2023 (as advised by the Dep. Director WAPDA six years or seven years relevant experience will
3	Fugitive Dust Suppress taken at site on regular	sion measures to be basis with at least 3			V	Immediate	30/06/202	be considered by The Engineer)

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time a day and additional if required because summer season has already started.	29/09/2022not only sprinkle along the access road but also the excavated material before disposal.29/09/2022Not Done: The contractor informed that the tr to the working faces is narrow and dumper water bowser cannot reach the working face of
	02/11/2022 Not Done: The contractor is instructed to ena water sprinkling on all working faces of all sites. The narrow track issue is still prevailing contractor has been given time up till 14 th of 1 2022.
	30/11/2022Not Done: The contractor is instructed to en water sprinkling on all working faces of all sites. The narrow track issue is still prevailing contractor has been given time up till 27th of 2022.
	29/12/2022 Not Done: The excavated material is rolled of the slope by the contractor creating a huge cloud. The contractor has agreed to install w pumps which will lift water from nearby str river to sprinkle it upon the slopes as well a excavated material so that there is no fug
	31/01/2023dust.31/01/2023Not Done: The contractor has requeste conduct a joint visit of The Engineer, WA and CGGC RAR-02 Team in which Engineers, Geologists, and Environmentalist Engineer and WAPDA has agreed to this re and the joint visit will be carried out on 14th or 2022
	02/03/2023 2023. Not Done: Joint visit by the Engin representatives like geologist, RE for RA component, Environment & OHS sections scheduled to sort out the mitigation measured

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time a day and additional if required because summer season has already started.	29/09/2022not only sprinkle along the access road but al the excavated material before disposal.29/09/2022Not Done: The contractor informed that the to the working faces is narrow and dumper water bowser cannot reach the working face of 	track and of the 30 th
	02/11/2022 Not Done: The contractor is instructed to en water sprinkling on all working faces of a sites. The narrow track issue is still prevailin contractor has been given time up till 14 th of 2022.	ll the g and
	30/11/2022 Not Done: The contractor is instructed to e water sprinkling on all working faces of a sites. The narrow track issue is still prevailing contractor has been given time up till 27 th o 2022.	ill the
	29/12/2022 Not Done: The excavated material is rolled the slope by the contractor creating a hug cloud. The contractor has agreed to install pumps which will lift water from nearby st river to sprinkle it upon the slopes as well excavated material so that there is no fu	e dus wate tream as th
	dust. 31/01/2023 Not Done: The contractor has request conduct a joint visit of The Engineer, WA and CGGC RAR-02 Team in which Engineers, Geologists, and Environmentalit Engineer and WAPDA has agreed to this r and the joint visit will be carried out on 14 th	ted t APD Roa st. Th reque
	02/03/2023 02/03/2023 02/03/2023 02/03/2023 02/03/2023 Not Done: Joint visit by the Eng representatives like geologist, RE for R component, Environment & OHS section scheduled to sort out the mitigation measu	ineer AR-(s to

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04	Rolling of Dabris/ over hundre		11/04/2023	The contractor informed that except K35 of RAR- 02 all other work faces are closed due to Land Acquisition/compensation Issues. The contractor has agreed to comply with Water Sprinkling once the Work is resumed.
04	Rolling of Debris/ over burden or any loose material after blasting/ slope cutting activity to be hauled away at the designated site of Kass disposal site on RAR-01.	Immediate	30/06/2022	Not done. The Contractor is strictly instructed to ensure haulage of the spoil to designated spoil disposal area
- Allo disposar site on reale or.		29/09/2022	Not Done; The contractor informed that at the moment the spring which was nearby is dried up and the path to the working face is narrow, due to which the dumper cannot reach the exact working face. As soon as the dumper can reach the working face the haulage of excavated material will be started.	
			02/11/2022	Not Done: The contractor is instructed to haul the excavated material to the designated spoil disposal site and not to roll down any spoil material along the slope
			30/11/2022	Not Done: The contractor has requested to give him time up till 27 th of Dec 2022 which was agreed by the Engineer.
				Not Done: The contractor is instructed to haul the excavated material to the designated spoil disposal site and not to roll down any spoil material along the slope endangering habitat along the slopes as well as aquatic life form and Nearby Human Settlements.
			31/01/2023	Not Done: The contractor has requested to conduct a joint visit of The Engineer, WAPDA and CGGC RAR-02 Team in which Road Engineers, Geologists, Environmentalist and OHs
			02/03/2023	Staff. The Engineer and WAPDA has agreed to this request and the joint visit will be carried out on 14 th of Feb 2023. Not Done: Joint visit by the Engineer's representatives like geologist, RE for RAR-02

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				11/04/2023	component, Environment & OHS sections to be scheduled to sort out the mitigation measures. The contractor informed that except K35 of RAR- 02 all other work faces are closed due to Land Acquisition Issues. The contractor has agreed to comply with Water Sprinkling once the Work is resumed.
09	Designated Spoil disposal Plan submission required by the Contractor	V	16 th of Jan 2023	30/11/2022 29/12/2022	The contractor is instructed to submit the spoil disposal plan up till 15 th of Dec 2022. Not Done: The contractor has agreed to submit
				31/01/2023	Spoil Disposal Plan by 16 th of Jan 2023 Not Done: The contractor has requested to conduct a joint visit of The Engineer, WAPDA and CGGC RAR-02 Team in which Road Engineers, Geologists, Environmentalist and OHs Staff. The Engineer and WAPDA has agreed to this request and the joint visit will be carried out on 14 th of Feb 2023. The spoil Disposal plan will be submitted after the joint visit and will be based on its technical decisions.
				02/03/2023	Not Done: The plan will be submitted after Joint visit by the Engineer's representatives like geologist, RE for RAR-02 component, Environment & OHS sections to be scheduled to sort out the mitigation measures.
				11/04/2023	Not Done: The contractor has agreed to submit by 16 th of April 2023
12	Site Specific Spoil Disposal Plan	1	20 th Jan 2023	29/12/2022	The contractor has agreed to submit a proper spoil disposal plan which will not only highlight the location map of spoil disposal areas but complete methodology that which work faces will use which spoil disposal site and what amount of excavated material will be excavated as well as what number of dumpers are required to haul the

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				11/04/2023	component, Environment & OHS sections to be scheduled to sort out the mitigation measures. The contractor informed that except K35 of RAR- 02 all other work faces are closed due to Land Acquisition Issues. The contractor has agreed to comply with Water Sprinkling once the Work is resumed.
09	Designated Spoil disposal Plan submission required by the Contractor	V	16 th of Jan 2023	30/11/2022 29/12/2022 31/01/2023	The contractor is instructed to submit the spoil disposal plan up till 15 th of Dec 2022. Not Done: The contractor has agreed to submit Spoil Disposal Plan by 16 th of Jan 2023 Not Done: The contractor has requested to conduct a joint visit of The Engineer, WAPDA and CGGC RAR-02 Team in which Road Engineers, Geologists, Environmentalist and OHs Staff. The Engineer and WAPDA has agreed to this request and the joint visit will be carried out on 14 th of Feb 2023. The spoil Disposal plan will be submitted after the joint visit and will be based on its technical decisions.
				02/03/2023	Not Done: The plan will be submitted after Joint visit by the Engineer's representatives like geologist, RE for RAR-02 component, Environment & OHS sections to be scheduled to sort out the mitigation measures. Not Done: The contractor has agreed to submit by 16 th of April 2023
12	Site Specific Spoil Disposal Plan	V	20 th Jan 2023	29/12/2022	The contractor has agreed to submit a proper spoil disposal plan which will not only highlight the location map of spoil disposal areas but complete methodology that which work faces will use which spoil disposal site and what amount of excavated material will be excavated as well as what number of dumpers are required to haul the

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	as well as sub-contractors and Vendors of RAR-02(CGGC) for Not using Wood as Fuel, Oil Spills, Waste management	V	Immediate	11/04/2023	The contractor has agreed to submit by 16 th of April 2023.
17	Contractor (including the spoil disposal option.) Training session required to all RAR-02 Staff			11/04/2023	The contractor has agreed to submit by 16 th of April 2023.
16	Working Methodology to be shared by		Immediate	11/04/2023	Not Done: The contractor has agreed to submit by 15 th of April 2023.
	with sewage, drinking water supply sources and pipe lines design, drainage pattern	V	Immediate	02/03/2023	The contractor has agreed to share details by 12 th of March 2023.
15	Under construction camp facilities Layout			11/04/2023	Not Done: The PM RAR-02 ensured to implement the mechanism before next meeting and record will be shared before 27 th of April 2023
	system to tackle repeated offense of Environmental Non compliances		Immediate	02/03/2023	The contractor has agreed to implement the reward and punishment system starting from 8 th of March 2023.(i.e., Imposing fines on repeated offenders of environmental non compliances)
14	Introduction of Reward and punishment			02/03/2023	per ECP's provided in the contract. Done: LPG cylinders are provided to the labor and kitchen will be shifted to another location
13	Use of Wood as fuel on the RAR-02 sites.	V	Immediate	31/01/2023	The use of wood as fuel is strictly prohibited as
				11/04/2023	Joint visit by the Engineer's representatives like geologist, RE for RAR-02 component, Environment & OHS sections to be scheduled to sort out the mitigation measures. Same status as point no. 09
				02/03/2023	Not Done: The plan will be submitted after the
				31/01/2023	spoil material. Date for submission of Spoil Disposal Plan is 20 th Jan 2023 Not Done : This plan will be updated and submitted

Dasu Hydropower Project Environmental Quarterly Progress Report No. 33 (Jan to March 2023)

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Confirmed by: . 83 The Contractor The Engineer/Consultant The Employer Shi Fong Ausis Hallon adeel Joman 2023. 4.18 Name: Sh-Ewinonmentalist ADOHS Position: 11-04-23 15.04.23 Date:

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Annexure-01: Attendance Sheet Dasu Hydropower Project

asu nyuropower Projec

DHC Office, Dasu

Meeting attendance sheet

Monthly Environmental Progress review: KKH-01/RAR-01/TL-01/MW-01/MW-02/LBRV_11&12/PCI-01R/RAR-02

Date 11.04.2013

Sr. No	Name of Participant	Dept./Organisation	Designation	Contact No.	Signature
01	Shi Feng	C66 C	pm-par-or	03428508428	Rig
02	Imran Taria	Wapda	Dy. Director	0321-5181114	Ineault
03	Liagal Ali Khan	CGGC	OHSO - RAR-02		
04	Zafar Ishal Chaudy	DHC	ChiefEnvironnent.	0300-9460132	2 foriale at -
05	Aluan Akulay	DHC.	Environmentalist	0331-4220969	devan
06	Awais Hassan	DHC	Sh. Environmentalist	0333-6563675	aming
_		1000 A.			
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		A State State State			

		OWER PROJEC G (KKH-01) MA	
Employer: WAPDA (DHPP)			
Engineer: Dasu Hydropower Consultants (DHC)		
Contractor: China Civil Engineering Constructior	n Co., LTD (C	CCECC)	
Subject: Monthly Environment Prog Online Meeting for KKH-01. Date: 30 th March, 2023 Time: 01:30pm-03:00 pm Place: DHC Meeting Hall Pages: 02 Exhibit: Attendance Sheet	ress Review	Agenda: Monthly Enviro Meeting of KK	onmental Progress Review H-01.
Attendees See the attached attendance sheet			
Distributed (Softcopy) to: 1. Employer - DHP WAPDA GM/PD, Dasu - DHP WAPDA Director (Environn	nent), Dasu	3. Contractor 4. Office File	, KKH-01 / Circulation
2. EngineerDHC RE Roads, Dasu			
Agreed by:			
Employer Date: 07-04-2023 -	Engineer Date: 06 -	04/2023	Contractor Date: 68 - 64 - 623
Roai	Marin		North
Representative of Employer- WAPDA (DHPP)	Representati Engineer (1		Representative of Contractor(CCECC)

Dasu Hydropower Project Environmental Quarterly Progress Report No. 33 (Jan to March 2023)

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	Project	HE MONTHLY ENVIRONME KKH-01				Location		DHC Dasu Office
	Employer	WAPDA				Date of Meet	ting	30/03/2023 (01:30pm-03:00 pm)
	Engineer	DHC				Place of Mee	U	DHC Meeting Hall
	Contractor	CCECC				Attendance	8	Attendance Sheet Attached
Sr.#	Checked	Items and Actions Planned	A	Action B	y	Target Date	Date to	Status
			Emp.	Eng.	Con.	for Action	Confirm Action	Done/Closed, Not Done/Open, In Progress/Partially closed
47	Proper Disposal and other chemic	of Used Engine/ Equipment Oils cals			V	Immediate	28/05/2022 30/06/2022 29/09/2022 02/11/2022 30/11/2022 29/12/2022	 Please add details of this activity in the MPR of May 2022 with photographic records as well for before spillage and after spillage. Note Done; Photographic record should be maintained by the contractor and proper write up should be added to the next month's MPR. Not Done; Partially Done Not Done: The contractor will share record by 5th of Dec 2022 Partially Done: The area where the used engine of is temporarily stored should be bounded with a least 12 inch barricading so that the in case of leakage of oil from drums it will not go outside the store of t
							31/01/2023	storage area. Not Done: K-04 and K-09 Bounding of the storage areas for used engine oils is still pending.
						15/03/2023	03/03/2023	Not Done: The contractor has agreed to comply b 15 th of March 2023
						16/04/2023	30/03/2023	Not Done:
60	License for fuel	storage at K-9			~	Immediate	29/12/2022 31/01/2023	Not Done Not Done: The contractor promised to follow u the matter with the concerned authorities an update by 10 th of Feb 2023.
							03/03/2023	Not Done: The contractor has requested to ensu compliance up till 31 st of March 2023

61	Hiring of Dedicated Environmental Manager and Environmental Supervisor for KKH-01 Site.	√	Immediate	29/12/2022 31/01/2023 03/03/2023 30/03/2023	Not Done Not Done: The contractor will share qualified and experienced person resume up till 15 th of Feb 2023 Done: The contractor has shared CV's with The Engineer on 3 rd of March 2023. Partially Done: The contractor has agreed to share the CV of Environmental Manager by 12 April
62	Batching Plant washing/ waste water effluent just releasing in Chuchang Nullah. Concrete Mixer washing in Chuchang Nullah(K4 & K9)	√	Immediate	29/12/2022 31/01/2023	2023.(The Environmental Supervisors are already hired by the contractor) Not Done Partially Done: The batching plant is closed and removed from the site
				03/03/2023	Not Done: The contractor was shown pictures of Concrete mixers being washed inside the Chuchang nullah near K5 to which contractor has agreed to impose fines on repeated offenders and share record with the Engineer up till 12 th of March 2023. Partially Done: The contractor has complied on
					the K9 Tunnel Area but not on the
63	All generators do not have canopies. Noise levels should remain under NEQS i.e., 85 dB	V	Immediate 20-02-23	29/12/2022 31/01/2023	Not Done Not Done @ K-09: The contractor has agreed to install canopies for the generators by 20 th of Feb 2023.
			20/03/23	03/03/2023	Not Done: The contractor has agreed to install canopies and shed over the generator sets by 20 th of March 2023
			15-04-23	30/03/2023	Not Done: The contractor has agreed to install canopies and shed over the generator sets $@K-09$ by 15^{th} of April 2023, while at K-04 the aforementioned instructions are complied with.
65	Used Oil Filters Storage & record to be shared by 6 th Jan 2023.	~	Immediate	29/12/2022 31/01/2023 03/03/2023	Not Done Not Done: The record will be shared up till 7 th of Feb 2023. Not Done: The Shared data is not having details of the Used Oil Filters specifically Therefore contractor has to

				30/03/2023	re submit the details of used oil filters to the Engineer's office. Done
66	Common Dinning Hall should be provided to the labor/ staff of K-09 and K-04.	V	Immediate	31/01/2023	Not Done
				03/03/2023	Not Done: The contractor has requested timeline of 20 th of March 2023 for the compliance of this point.
				30/03/2023	Done
67	Dirty Toilets and Residential Rooms	V	Immediate	03/03/2023	Cleaning of Wash rooms, residential Rooms, at least 3 times a day at K4 and K-09 Pakistani Labor camp by deploying a dedicated janitor one for each site
				30/03/2023	Not Done: The contractor has agreed to provide more janitorial staff by 10 th of April 2023.
68	Housekeeping @ K-09 and K-04 Area.	V	Immediate	03/03/2023	The CCECC Sites of K-09 and K-04, Dugah Tunnel and Logro-B, all have this issue, which needs to be addressed by 12 th of March 2023
				30/03/2023	Partially Done: Dugah Tunnel and Logro-B Tunnel still has issues pertaining to Housekeeping.
69	Hazardous waste	~	Immediate	03/03/2023	Hazardous waste register to be maintained regularly. All vendor receiving waste should be on their letter heads with clear name of their companies and their addresses. Not Done
70	Sedimentation Tank design for K-6 Batching plant	V	Immediate	03/03/2023	Sedimentation Tank design at K-6 Batching plant to be revised and re-submitted.
			12-04-23	30/03/2023	Not Done: The contractor has been provided with a letter on 18 th of March with a timeline of 28 th of March 2023 to submit revised design for the K-6 Batching Plant. The contractor has agreed to
71	Forced Ventilation System	~	Immediate	03/03/2023	resolve the issue by 12 th of April 2023. Forced Ventilation system is having only one pipe where as it is mandatory to have two pipes one for exhaust and one for in flow of air. The existing single inflow pipe is damaged and needs to be replaced. The contractor has agreed to comply by 20 th of March 2023.
				30/03/2023	Done:

73	Aggregate Crushing Plant @ K-05		V	Immediate	03/03/2023	All the EMAP procedures for environmental compliances, ECP's provided in the contract, World Bank Policies, All local land laws are to be applied to this crush plant whether this crush plant is in the ownership of CCECC or not. All pre-
					30/03/2023	requisite procedures, approvals from relevant Government departments like NOC's from, Forest Department KPK, Environment Protection Agency KPK, and Industries Department NOC should be with the plant operations managers/owners for ready inspection. Not Done: The contractor has denied the ownership of the K-05 Crushing Plant therefore the Engineer directed the contractor to submit agreement between CCECC and Local community
74	Underground Fuel Storage is still open from back side (i.e., located at an elevation above Switchyard of MW-02 component of CCGCC)		V	Immediate	03/03/2023	resident. The contractor needs to immediately close the back side entrance of the fuel storage area @ K-09 Tunnel outlet. The contractor has agreed to complete construction of this storage area and install breathing pipes in this storage area. Partially Done: The contractor has closed the back side entrance of the fuel storage area @ K-09 Tunnel outlet but the material is wood which is highly flammable, therefore CCECC is directed by the Engineer to replace the door with fully closed brick/ block wall. The contractor has yet not completed construction of storage area and neither CCECC has installed breathing pipes in this Fuel storage area
75	Effluent from Sedimentation tank @ K-09 Tunnel is being released to natural water body		V	Immediate	03/03/2023	Effluent from Sedimentation tank @ K-09 Tunnel is being released to natural water body without treatment of highly alkaline pH. The contractor has agreed to re-use the Waste water for water sprinkling on the Khoshe Access road (Dirt Road) The practice will be starting from 8 th of March 2023 by the contractor.

				30/03/2023	Done: The contractor informed that the said waste water is being used for Khoshe Access Road Water Sprinkling.
76	Introduction of Reward and punishment system (i.e., repeated offenders of environmental noncompliance will be liable to fines by the CCECC	N	Immediate	03/03/2023	The contractor has agreed to ensure compliance starting from 8 th of March 2023
	Management)			30/03/2023	Not Done:
77	Dugah Tunnel: Site issues of Environmental compliance	V	Immediate	03/03/2023	There are environmental Non-compliances on the sites as well as Non availability of Drinking Water, Cleanliness of site and waste management and availability of Toilets
			12/04/23	30/03/2023	Not Done: Environmental Non compliances are still pending to be resolved. The contractor has agreed to resolve the issues by 12 th of April 2023.
78	Environmental Non Compliances have increased on CCECC Sites of KKH-01	V	Immediate	03/03/2023 30/03/2023	The contractor has hired two new EHS Officers Mr. Rahat Hameed and Mr. Yasser Hussain as well as a Chinese Staff Mr. Ren Jianjun in addition to Mr. Manzoor, Mr. Sajid and Mr. Arif. The contractor has promised to increase their on-site presence in the field as well as increase on site environmental compliance as per description given in ECP's and expedite closing of all NCR's in time. Partially Done: The environmental Non- compliance are still in large number
80	Construction of third chamber for sedimentation pond at K-09	V	Immediate	03/03/2023	The contractor agreed to comply by 20 th of March 2023 after meeting with higher management of CCECC. Not Done:
81	Submission of Design for Uchaar Crushing and Batching Plant sedimentation Tank	V	12-04-23	30/03/2023	The contractor has agreed to submit by 12 th of April 2023.

Dasu Hydropower Project Environmental Quarterly Progress Report No. 33 (Jan to March 2023)

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Confirmed by:			
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000	Aunter	Nor By	
The Employer	The Engineer	The Contractor	
The Employer	The Engineer	The Contractor	
Name: Fairat Ali	Awais Hagan Kleen	REN Jianjun	
Position: Dy. Director	Sh. Environmentalist	A. 452 D	
Date: 07-04-2023	06-04-2023	08-04-2023	

Annexure-01: Attendance Sheet

			power Project lice, Dasu		
 ^1	y E. Pray ra (i K	Meeting atte	ndance sheet N-01/MV-02/LBRV_11&1	2/PCI-018	
No	Mame of Parijely nt	Unit Organisation		Centact No.	Date <u>30- 03- 2023</u> Signature
1	Imran Tariar	Wapda	Dy. Director	0321-5181114	meanely
2	MANZOOR HUSSAIN	CCECC	HSE Manager	5345-5687751	diag .
3	ARIF HUSSAIN	CCECC	Environmaturtalist.	0345-2848920	the top
_4	Fashat AG'	WAPDA	Dy. Director		
5	Junaid Iffikhar	walda	Sun-Engineer	0305-5961458	Thereil
6.	Zafar Iglaal	DHC	Chief Environmendalis	+ 0300-9460132	superiterd.
- 7.	Sardar Alaun	DHC	Sr. Environmente	lid	γ
8.	Awais Hassan	DHC	St. Environmentalist		Area
9.	Nasce Khan	DHC	Field inspector		NO
12	147 Ren Janjun	LL74L	HSZ Manager	•	NRY

	ASU HYDROPOWER OF MEETING (KKH	
Employer: WAPDA (DHPP)		
Engineer: Dasu Hydropower Consultants (DH	(C)	*
Contractor: China Gezouba Group Co., LTD (C	GGCC)	
Subject: Monthly Environmental P Review Meeting for KKH-02. Date: 30 th of March 2023 Time: (10:45am-11:40am) Place: DHC Meeting Hall Pages: 01 Exhibit: Attendance Sheet	Mont	da: hly Environmental Progress Review ing of KKH-02.
Attendees See the attached attendance sheet		
Distributed (Softcopy) to: 1. Employer - DHP WAPDA GM/PD, Dasu - DHP WAPDA Director (Enviror 2. Engineer - DHC RE Roads, Dasu	4. (Contractor, CGGC Office File / Circulation
Agreed by:		
Employer Date: 67/04/2023.	Engineer Date: 06-04-202	Date: CG-04-2623
Representative of Employer- WAPDA (DHPP)	Representative of Engineer (DHC)	Representative of Contractor(CGGC)



MINUTES OF THE MONTHLY ENVIRONMENTAL PROGRESS REVIEW MEETING (KKH-02) MARCH, 2023

Projec	et	KKH-02	2		Locati	on		DHC Office
Emplo	oyer			30/03/2023 (10:45am-11:40am)				
Engin	eer	DHC				of meeting		DHC Meeting Hall
Contra	actor	CGGCC	2		Attend			Attendance Sheet Attached*
Sr.#	Checked Items a	nd Actions Planned		Action by		Target	Action	Status
			Emp.	Eng.	Con.	Date for Action	Confirm Date	Done/Closed, Not Done/open, In Progress/Partially closed
01	Hiring of Dedicated I for KKH-02 Compor	Environmental Manager nent			V	Action 20/07/2022	Date 29/-09/2022 02/11/2022 30/11/2022 29/12/2022 31/01/2023 02/03/2023	closedNot DoneNot Done: The employer instructed the Engineer to issue NCR to contractor for Non complianceNot Done: NCR has been Issued by the EngineerNot Done: NCR has been Issued by the EngineerNot Done The contractor has agreed to share Resume of Suitable candidate by 23rd of Jan 2023 so that NCR closure procedure can be proceeded with.Note Done: The contractor has agreed to share a qualified and experienced persons resume up till 15th of Feb 2023 Not Done: The contractor has submitted CV's of some candidates for the Environmental Manager position in MW-01, As the contractor is same for MW-01 and KKH-02, therefore contractor has requested to consider one of the candidate from that list.
							30/03/2023	Not Done: The candidates CV's shared by MW- 01 i.e. CGGC was reviewed and only one candidate was found suitable for the MW-01. The KKH-02 Contract Team of CGGC have yet not share any CV's for the dedicated Environmental

02	Submission of CEAP as per the Engineers	V	16 th of Jan	29/09/2022	Not Done
	Comments		2023	02/11/2022	Not Done
				30/11/2022	Partially Done: The contractor needs to update the CEAP as per new design changes
				29/12/2022	Not Done: The contractor needs to update the CEAP as per new design changes i.e. addition of New Tunnels and Bridges and improve the shortcomings in the CEAP as commented by the Engineer by 20 th of Jan 2023.
				31/01/2023	Note Done: The contractor has agreed to submit up till revised CEAP up till 15 th of Feb 2023.
				02/03/2023	Note Done: The contractor has agreed to submit up till revised CEAP up till 20 th of March 2023.
				30/03/2023	Not Done: The contractor representative shared stance that as soon as the as new dedicated Environment Manager is on board the CEAP will be submitted to the Engineer's office within 15 days.
05	Rolling of Debris/ over burden or any loose material after blasting/ slope cutting activity to be hauled away at the designated disposal site only	V	Immediate	29/-09/2022	The contractor informed that the passage to the site is very narrow and the dumper cannot reach in that very location resulting in some of the material being rolled over the slope. In future as the path is widened enough that the dumper can reach at the very location of where work is under progress haulage activity will start immediately.
				02/11/2022	Not Done: The Contractor was instructed to submit spoil disposal and sprinkling plan by 14 th of Nov 2022
				30/11/2022	Partially Done: The Information has been added to the MPR but the information is in adequate as The Engineer want to have a clear picture about Spoil disposal, and Water Sprinkling issues.

				29/12/2022 31/ 01/2023 02/03/2023 30/03/2023	Therefore it is instructed to the contractor to re write the Spoil Disposal and Water Sprinkling Plan. Not Done: New date for compliance of slope protection and haulage of excavated material is agreed with the contractor as 23 rd of Jan 2023 Not Done: Share the new methodology agreed with Technical Team (Road Design Engineers) Partially Done: Method statement for spoil material dumping is submitted to the Engineer. Done
11	Oil Spill	V	Immediate	29/12/2022 31/01/2023 02/03/2023 30/03/2023	Contractor has agreed to impart training to all staff especially mechanics and before 23 rd of Jan, 2023. Contractor has also agreed to impose fines to all of its staff who so ever will be responsible of oil spillage after 30 th of Jan 2023. Partially Done: The contractor has agreed to share the training record in the January 2023 MPR. Not Done: The contractor has agreed to introduce reward and punishment system (i.e., introduction of fines to repeated offenders of environmental noncompliance) Done: The contractor has completed training of
12	Used Drums, Spill Sheets, Drip trays procurement	V	Immediate	29/12/2022	their staff working on the sites of KKH-02. KKH-02 Representative Mr. Zhang Jun (QHSE Manager of KKH-02 Contract, CGGC) has agreed to conduct procurement of Drip trays, Spill Sheets, Spill Kits, PPE's Necessary for Oil Change and Spillage for KKH-02 contract. Training of all staff is required by 23 rd of Jan 2023 for all staff having topic: "In case of Oil/Chemical Spillage, how to use Spill Kit on site"

				31/01/2023 02/03/2023 30/03/2023	Not Done: The contractor has agreed to raise an AFI up till 8 th of Feb 2023 on this issue. Not Done: The contractor has agreed to ensure compliance up till 10 th of March 2023 on this issue. Not Done:Procurement of Spill Kits and Spill Sheets is still pending and contractor representative promised to complete procurement by 10 th of April 2023.
13	Provision of Portable toilet on the KKH-02 Sites as well as container offices.	V	Immediate	31/01/2023 02/03/2023 30/03/2023	The contractor has agreed to place portable toilets as well as container offices for the site staff for their perusal. Not Done: The contractor has agreed to ensure compliance by 20 th of March 2023. Not Done: The contractor requested more time up till 28 th of April 2023 to complete this agreed task. The request was agreed by The Engineer.
14	Wood Burning at different locations of KKH-02	V	Immediate	31/01/2023 02/03/2023 30/03/2023	Wood Burning is strictly prohibited as per ECP's provided in the contract. Not Done: Record to be shared for training of staff/labor as well as provision of LPG cylinders/ Heaters by 09 th March 2023 Not Done: The contractor was given timeline up to 11 th of April 2023 to complete this task.
15	Submission of Fuel Storage License in KKH- 02 Camp area	V	Immediate	02/03/2023	The contractor and Engineer has discussed on this matter and contractor has been given timeline up to 05 th of April 2023. The KKH-02 contractor will write a letter to The Engineer's office seeking issuance of support letter from WAPDA regarding Fuel Storage License from concerned Government Department under the Government of KPK.

16	Reward and Punishment system		V	Immediate	02/03/2023	The contractor has agreed to introduce reward and punishment system for effective compliance of environmental aspects on their sites.
					30/04/2023	Not Done: The contractor has yet not implemented this system on their sites.
17.	Absence of Chinese Management in the Monthly meeting.		V	Next monthly meeting for April 2023	30/04/2023	The KKH-02 contractor representative told the Engineer that Mr. Zhang Jun (QHSE Manager of KKH-02 Contract, CGGC) is on leave. It was conveyed to the contractor representative by the Engineer that in the absence of QHSE Manager the PM of KKH-02 contract will join the meeting.
Confirm	ned by:				1 st.	and and of third of conduct will join the meeting.
	- Congour	A	Hard		, tak	IN
	The Employer	The Engi	neer/Consult	ant	The Contractor	r
Name	Farhat Ali	Awais 1	lasson Kh	an	Syedl	Somen Alfikher
Position		Sr. Environmentalist 06-04-2023		OHSO	KRH02	
Date:	07-04-2023	06-02	1 - 2023		08-04	1-2023

Annexure-01: Attendance Sheet Dasu Hydropower Project

DHC Office, Dasu

Meeting attendance sheet

023 Date

Monthly _____rommontal Progress review: KKH-01/RAR-01/TL-01/MW-01/MW-02/LBRV_11&12/PCI-01R . KKH-

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No	Name of Participa	Cept./Organisation	Designation	Centact No.	Signature
1.	Zafar Ighel Chaudry	DH.	Chief Earlinsmuent	0360-9460132	a forther -'
	Sardar - Alam	DHC	Sr. Env Sp	1	The second
3.	Awais Hassan	DHC	Sh, Environmenta	ligt 03336563675	M
4.	Forhat Ali	WAPDA.	Ry. Director	03449596431	-1000
5	Dr-Eard	KK(1+-2	Enviro gpre	03474846528	<u>e</u> :a
6 -	Nasie Khan	DHC	Field Inspector	0345-9577742	Qau ⁵
				;	1
	1				1

	POWER PROJECT G (PCI-01R) MARCH 2023 30 th of March 2023
Employer: WAPDA (DHPP)	
Engineer: Dasu Hydropower Consultants (DHC)	
Contractor: China Gansu Co., LTD (CGICOP)	
Subject: Monthly Environmental Progress Review Meeting for PCI_01R. Date: 30 th March, 2023 Time: 01:05 pm- 1:40 pm Place: DHC Meeting Hall Pages: 02 Exhibit: Attendance Sheet	Agenda: Monthly Environmental Progress Review Meeting of PCI-01R.
Attendees See the attached attendance sheet	
Distributed (Softcopy) to: 1. Employer - DHP WAPDA GM/PD, Dasu - DHP WAPDA Addl Chief Engineer (Environme Dasu	3. Contractor, CGICOP 4. Office File / Circulation
2. Engineer- DHC RE Infrastructure, Dasu	
Agreed by:	
Employer Date: 07.04.2023 Engineer Date:07.04.2023	up3 Date: 2/4/2023
Home Ori	Jamel
Representative of Employer- WAPDA (DHPP)Representative Engineer (A	-

PHc

MINUTES OF THE MONTHLY ENVIRONMENTAL PROGRESS REVIEW MEETING (PCI-01R) MARCH 2023

Projec		PC	I-01R			Location		DHC Office
Emplo	-	WA	PDA			Date of Meeti	ing	30/03/2023 (10:45 am- 12:00 pm)
Engine	eer	D	DHC		Place of meeting		DHC Meeting Hall	
Contra	ictor	CG	ICOP			Attendance		Attendance Sheet Attached
Sr.#	Checked Items and A		A Emp.	ction By Eng.	Con	Target Date for Action	Date to Confirm Action	Status Closed, Open, Partially Closed
19	Submission of NOC and storage at site.	License for fuel			V	15/08/2021	02/06/2021 03/07/2021 29/09/2021 26/10/2021 30/11/2021 30/12/2021 07/02/2022 01/03/2022 01/04/2022 27/05/2022	Not done. The Contractor was instructed to quickly initiate the process. In process Engineer requested WAPDA through letted dated 12 th July 2021 to issue a recommendation letter to district administration for CGICOP to grant them an NOC for fuel storage which is a prerequisite for license apply to Chie inspector of explosives. The Employer is requested to pursue the matter please. Not done Not done. The Employer was again requested to send a letter to the district administration for NOC. Not done. The Employer is again requested to send a letter to district administration. Employer sent letter to DC to provide NOC to contractor. Contractor was asked to pursue the matter to get the NOC for onward apply for license. Not Done. Still pending but contractor has promised to submit it by 07 th February 2022 Not Done. Still pending contractor has agreed to share the NOC by 20 th of April 2022 Partially Done. NOC from Deputy Commissioner Office has been granted but License is still not granted

				30/06/2022	Partially done. The Engineer instructed the contractor to proceed further in the matter and send application to KP Inspector of Explosives for grant of license.
				01/08/2022	Not Done: The Engineer will issue a reminder letter to the contractor regarding NOC from Inspector of Explosives.
				29/09/2022	Partially Done: The contractor has agreed to pursue the case and up till 15 th of Oct 2022 he will submit.
				02/11/2022	Partially Done: An NCR will be issued to the contractor for the non-compliance.
				30/11/2022	Not Done: NCR is issued on 7 th of Nov 2022. The contractor has not closed the NCR yet.
				29/12/2022	Not Done:
				31/01/2023	Not Done: The Engineer has already issued an NCR on this long awaited and outstanding
				04/03/2023	issue. Not Done: The contractor is not serious in implementing this issue therefore contractor was issued an NCR and still no response from the contractor.
				30/03/2023	Not Done: The contractor is not complying to the license issue.
57	Treatment of Sedimentation Pond water before release inn to the drain.	~	18-03-2023	29/12/2022	The contractor has agreed to treat its sedimentation pod water before its release in to the drain.
				31/01/2023	Not Done:
				04/03/2023	Not Done: The contractor has agreed to comply by 18 th of March 2023.
				30/03/2023	Not Done
59	Introduction of Reward and Punishment to Repeated offenders on Environmental Non- Compliances	V	Immediate	04/03/2023	The contractor has agreed to implement this management technique on all sites of PCI-01R.
				30/03/2023	Not Done:

60	Water Testing of Bore Hol	a Watar		T. P.	0010010000	
00	Water resultg of Doit 110		V	Immediate	30/03/2023	Testing of water required for drinking water
						parameters as per NEQS/ WHO Guidelines,
						from the bore drilled in the Chcuchang Colony
11	117 . T I					area.
61	Waste Littering		N	Immediate	30/03/2023	The contractor has agreed to rectify the waste
						littering issue by 9th of March 2023
62	Housekeeping Issues		V	Immediate	30/03/2023	The contractor has agreed to maintain good
						housekeeping and submit the record by 10th of
						April 2023.
Confi	rmed by:					
		de				• ē
	from Qi	AND				
	71000	Ver			2	two is a second s
The E	mployer	The Engineer			The Cont	ractor
	4					
Name	Fashat Ali	Awais Hagran Khan	Л		Evel	Mahand
	Contraction of the Contraction		1		+3ru	- 1 <u>A loc 017</u>]
Positio	on: Dy Director	Sr. Environment Sp			1106	20
		VIII CAN IN DAMAN PP			ET SE	1-1919 4
Date:	07-04-2023	07-04-2023				
					2000 Contraction (1990)	24x - 4

Date 30/03/2022

Annexure: Attendence Sheet of Participants

Dasu Hydropower Project

DHC Office, Dasu

Meeting attendance sheet

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		·····			
No No	Name of Participant	* Cop./Organisation	Lesignation	Contact No.	Signature :
1	Imman Taria	Wapda	By. Disector	0321-518 1114	meanety
2	Farhat Ali	WAPDA	Dy. Divector	03449596431	Road
3	Fazal Mabood	CETCOP	EIIS Manajer	03441190431	1 de d
4	Zafan Ighal Chaudry	DHC	chief Environmentalist	0300-9460132	2 frinkel -
5	Sardas - Alam	DHC	Sr. Env	0333-92-9060-9	(And
6	Awais Hassan	DHC	SA . Eur ironmente	it 03336563675	An
7	Junaid Effikhar	Walda	Sub-Engineer	0305-5961458	3 Smith
					2 A 1
	1		1		

	DASU HYDROPO	WER PROJECT
		(EM-01) MARCH 2023
	LO OF MEETING	(EM-01) MARCH 2025 31 st of March 202
		51 01 114101 202
Employer:		,
WAPDA (DHPP)		
Engineer:		
Dasu Hydropower Consultants (D)	HC)	
Public Hydropower Consultants (D)		
Contractor:		
Power China Construction Co., LT	D (PCCC)	
Subject: Monthly Environmental	Progress A	Agenda:
Review Meeting for EM-01.	1	Monthly Environmental Progress Review
Date: 31 st March, 2023	1	Meeting of EM-01.
Time: (10:50 am-11:30 am)		
Place: DHC Meeting Hall		
Exhibit: Attendance Sheet		
Attendees		
See the attached attendance sheet		
Distributed (Softcopy) to:		3. Contractor, PCCC
1. Employer		4. Office File / Circulation
- DHP WAPDA GM/PD, Dasu		and in the entropy of the state of the second
- DHP WAPDA Director (Environ	nment), Dasu	
2. Engineer		
- DHC RE TL-01, Dasu		
Agreed by:		
Employer	Engineer	Contractor
Employer Date: 07-04-2023	Date: 06-	04-23 Date: 4.9.23
	Dute. VV	Date. 4
0	A sit	1 Sugar P
() Qi	IN) 1 10 mm
100°	1/	- A 8/
		Hepeny
Representative of	Representative	
Employer- WAPDA (DHPP)	Engineer (DI	HC) Contractor



MINUTES OF THE MONTHLY ENVIRONMENTAL PROGRESS REVIEW MEETING (EM-01) MARCH 2023

Projec				ion		DHC Office		
-	nployer WAPDA			Date of Meeting			31/03/2023 (10:50 am-11:30am)	
Engin	Engineer DHC			Place	of meeting		DHC Meeting Hall	
Contra	actor	PCZN- C	BE JV		Atten	dance		Attendance Sheet Attached
Sr.#	Checked Items	and Actions Planned	Ac	tion by	1	Target Date for	Date to	Status
00			Emp.	PM Con		Action	Confirm Action	Done/Closed, Not Done/Open, In Progress/Partially Closed
09	Hiring of Environmen	lt Manager			V	Immediate	03/03/2023	Contractor has agreed to ensure compliance by 20 th of March 2023
10	Minor Oil Spill				V	Immediate	03/03/2023	Contractor has agreed to ensure training of staff again and ensure compliance by introduction of reward and punishment system.(introduction of fines for repeated offenders of environmental non-compliance Done
11	Littering on the constr	ruction site			V	Immediate	03/03/2023 31/03/2023	Contractor has agreed to ensure training and placement of waste bins at site by 11 th of March 2023 Done
12	Wood Burning by F.C	personnel.			V	Immediate	03/03/2023 31/03/2023	Contractor has agreed to ensure provision of LPG cylinders and heaters/ cooking stoves to F.C Staff Partially closed : The Engineer will visit the site and after verification this point will be closed.
13	Cleanliness of Camp				V	Immediate	03/03/2023	Contractor is unable to find a suitable janitor in Dasu therefore it will look for a proper janitor from outside Dasu and hire them for cleaning activity. Done:
14	Submission of CEAP				V	Immediate	31/03/2023	The contractor is provided with a new timeline of 12 th April 2023

15	Fugitive Dust		V	Immediate	31/03/2023	The contractor is instructed to ensure water sprinkling at least three times a day during the dry season. If required the frequency may be increased. The area inside the EM-01 camp and the existing RAR-01 portion affected by the movement of machinery and trucks should be part of this sprinkling plan.
16	Submission of Traffic Management Plan		V	Immediate	31/03/2023	The contractor has agreed to submit by 15 th of April 2023.
17	Temporary Storage of Solid Waste to be prepared		V	Immediate	31/03/2023	The contractor has agreed to prepare by 20 th of April 2023.
Ĩ		eers Representative Hagsan khon ronnentalist		The Contractor He Per Super U.	ng	事何
I	Date: 07-04-2023 06-01	1 - 2023		08-4-	23	

Annexure: Attendance Sheet of Participants

Dasu Hydropower Project

DHC Office, Dasu

Meeting attendance sheet

Monthly Environmental Progress review: KKH-01/RAR-01/TL-01/MW-01/MW-02/LBRV_11&12/PCI-01R(EM-01)

Date: 31/03/23

Sr. No	Name of Participant	Dept./Organisation	Designation	Contact No.	Signature
0)	ASAD ABBAS	PCZN	HSE Engr.	03427936105	Hond
02	He peng	pezn	ste mehasge	0710>>880326	17 miles
03	Awais Hassan Khan	DHC	SH. ENVERONMENTAL	703336563675	Ameris
04	SARDAR ALAM	DHC	SA. ENVERONMENTALLS	1 0333-9290209	their !!
05	LUQMAN	PCZN	TRANSLATOR	0343-0630020	Xu-la-
06	Fashat Ali	WADDA	Dy. Divector	0344-959643)	
				1	1.1
				-	
					1. Sec. 2. 1

_	DASU HYDROPOV	WER PROJECT (TL-01) MARCH 2023	
MINUT		31 st March,	2023
Employer:			
WAPDA (DHPP)			
Engineer:			
Dasu Hydropower Consultants (DI	IC)		
Contractor:			
Power China Construction Co., LT	D (PCCC)		
Subject: Monthly Environmental I		genda:	
Review Meeting for TL-01.	-	Ionthly Environmental Progress Review	
Date: 31 st March, 2023		leeting of TL-01.	
Time: (10: 00 am-10:45 am)		5	
Place: DHC Meeting Hall			
Exhibit: Attendance Sheet			
Attendees			
See the attached attendance sheet			
Distributed (Softcopy) to:		3. Contractor, PCCC	
1. Employer		4. Office File / Circulation	
- DHP WAPDA GM/PD, Dasu			
- DHP WAPDA Director (Environ	ment), Dasu		
2. Engineer			
- DHC RE TL-01, Dasu			
Agreed by:			
Employer	Engineer	Contractor	
Date: 07/04/2023	Date:06-04	-2013 Date: 08-04-2023	
	1		
\sim	Auton		
	M.		
ton Qui	V	(1)制系	
· Iller		TIME	
Representative of	Representative	-	
Employer- WAPDA (DHPP)	Engineer (DH	C) Contractor(PCCC)	

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MINUTES OF THE MONTHLY ENVIRONMENTAL PROGRESS REVIEW MEETING (TL-01) MARCH 2023

Projec	2t 132 KV T	L-01R		Locat	ion		DHC Office
Emplo	byer WAPI	DA		Date	of Meeting		31/03/2023 (10: 00 am-10:45 am)
Engin	eer DHC	2		Place	of meeting		DHC Meeting Hall
Contra	actor PCC	5		Atten	dance		Attendance Sheet Attached
Sr.#	Checked Items and Actions Planned	Ac	tion by	-	Target Date for	Date to	Status
		Emp.	PM	Con	Action	Confirm Action	Done/Closed, Not Done/Open, In Progress/Partially Closed
45	Drinking Water is taken by TL-01 contractor from a spring in front of UBL Building in Dasu			V	Immediate	03/03/2023	The contractor has agreed to drinking water tests results share the results of the spring by 15 th of March 2023.
						31/03/2023	The contractor informed that they have arranged Bottled Water(19 litters Bottles) for staff and labour, Therefore no need for testing of the spring in front of UBL Building.
46	Oil Spillage in TL-01 Camp			V	Immediate	03/03/2023	Bunding around the Generators is required as well as a maintenance register to be kept by the contractor
						31/03/2023	The contractor informed that the bunding of the pavement under generator sets to control oil leakage and surface runoff.
47	Fugitive Dust Emission			V	Immediate	31/03/2023	The contractor agreed to ensure water sprinkling during the dry season at least three to four times a day on contractor roads and allocated portion of Road from KKH-01 and Access road to Grid station.

Dasu Hydropower Project Environmental Quarterly Progress Report No. 33 (Jan to March 2023)

Confirmed by:	1 -1-	7	· · · · · · · · · · · · · · · · · · ·
- Con Qui	Aun	分通4	x
The Employer	The Engineers Representative	The Contractor	 They
Name: Fachat Ali	Awais Hassan Khan	HZ HAI YANG	
Position: Dy Director	Sr. Ewironment. Specialist	Ast. Ch. Enjoren	
Date: 07-04-2023	06-04-23	08-04-2023	

Annexure: Attendance Sheet of Participants

Dasu Hydropower Project

DHC Office, Dasu

Meeting attendance sheet

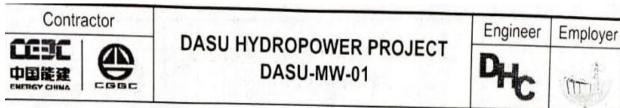
Monthly Environmental Progress review: KKH-01/RAR-01/TL-01/MW-01/MW-02/LBRV_11&12/PCI-01R

Date: 31/03/2023

Sr. No	Name of Participant	Dept./Organisation	Designation	Contact No.	Signature
01.	AWAIS HASSAN	DHC	St. Environment Specialist	0333-6563675	amin
021	HZ HAI YANG	PCCC	Ast cher Engr	0344-568 1182	的海峰
03,	Muhammad Walced	PCCC	otts.	0316-5594291	Garto.
04.	Sardas Alam	DHC	So. Environmentalist	0333-9290609	the second
os	2	WAPDA	Dy-Director	0344-9596431	100
	1				

Annexure B: Spot Monitoring Results for Quarter of Jan to March 2023

Surface water q	DA e water qualit uality uchar cri ol-2023	COPOWER PROJECT	Waste Water Sedmentation	in i
Surface water q Location Date Of Inspection Sample points No. 0	uality uchar Cri ol-2023	River Water	Waste Water Sedmentation] prnd
Location Date Of Inspection 16- Sample points 10-	uchar Cri 01-2023	using plant outles	Sedmentation] pond
Date Of Inspection 16- Sample points No. 0	01-2023			pind
Sample points No. 0	01-2023		and the second second second second	/
Sample points No. 0		the second state of the se	10:45 AM.	
Item		Report No.	Suche store	
	Unit	Protable Meter	Result	
Turbidity	NTU	. WZB-175	>1000	
Conductivity	μs/cm	DZB-718L	4.3	
PH	1	DZB-718L	9.5	
DO	mg/L	DZB-718L	9.9	
Temperature	°C	DZB-718L	6.5	- lost
Visual Petroleum F	Product	Yes	No	



Surface wa	ter quality	River Water	Waste Water
Location	UP stream	uchar crushing f	last
Date Of Inspection	16-01-2023	Time Of Inspectinon	10: 30 Am.
Sample points NO.	01	Report No.	

Item	Unit	Protable Meter	Result
Turbidity	NTU	WZB-175	41.0
Conductivity	µs/cm	DZB-718L	190.1
РН	/	DZB-718L	8.5
DO	mg/L	DZB-718L	9.8
Temperature	°C	DZB-718L	6.8
Visual Petroleu	um Product	Yes	No 🗸

Remarks: leer Witness by: The Contractor Representative: HISCH

Dasu Hydropower Project Environmental Quarterly Progress Report No. 33 (Jan to March 2023)

Contr	ractor			Engineer	Employe
CEBC 中国能建 ENERGY OHNA			ROPOWER PROJECT ASU-MW-01	PHc	THE REAL
	Su	ırface water quali	ity spot measurements F	Report	
S	urface wa	ater quality	River Water	Vaste Water	<u></u>
Loca	ition	Chor Bato	hipy pland gedmentet	is fond.	
Date Of Ir	nspection	16-01-2023	Time Of Inspectinon	IISII AM	
Sample	points No.	03	Report No.		
Ite	m	Unit	Protable Meter	Resu	ilt
Turbi	dity	NTU	WZB-175	116.8	
Conduc	ctivity	μs/çm	DZB-718L	295	6
PH	ł	. I	DZB-718L	M.1 7	
DC)	mg/L	DZB-718L	9.3	
Temper	ature	°C	DZB-718L	5.9	8.2
Vi	sual Petrole	um Product	Yes	No	1
<u>emarks:</u> pH 1 IS Iwti	value e	3 M 1 1	NESS Limite 7. confiliance mith	4	ractor
ontractor epresentati	Ne: No lan Har		Witness by: (The Eug Allean 16/123	ineer)	

Contr	actor		Engineer	Employer
	C.B.B.C	DASU HYDROPOWER PROJECT DASU-MW-02	PHC	御

Surface wa	ter quality	River Water	Waste Water
Location	Sedmintation	pond of MAT ch	-09
Date Of Inspection	16-01-2023	Time Of Inspectinon	11:50 AM
Sample points po-		Report No.	

Item	Unit	Protable Meter	Result
Turbidity	NTU	WZB-175	407
Conductivity	µs/cm	DZB-718L	27.3
РН	1	DZB-718L	10.77
DO	mg/L	DZB-718L	4.60
Femperature	°C	DZB-718L	11.2
Visual Petrole	eum Product	Yes.	No

impection, fresh water addition masured withered tractor is instructed to add fresh water. pH Remarks: hich is also exceeds the NEQS Cul Val acce Contractor Witness by: leer Representative: 6



Date Of Inspection 16-01-2023 Time Of Inspectinon 11:29 Am
Sample points No. Report No.

Item	Unit	Protable Meter	Result
Turbidity	NTU	WZB-175	968
Conductivity	μs/cm	DZB-718L	317
PH	1	DZB-718L	10.8 1
DO	mg/L	DZB-718L	8.2
Temperature	°C	DZB-718L	11.6
Visual Petroleu	um Product	Yes	No 🔽

pH value exceeds the NEQS Limits. The contractor is instructed to comply with NERS and ensure pH value under the Remits. Remarks: The Witness by: Contractor Representative:

Dasu Hydropower Project Environmental Quarterly Progress Report No. 33 (Jan to March 2023)

Annex-B [1 of 23]

Contractor			Engineer	Employer
		DASU HYDROPOWER PROJECT DASU-MW-02	Ptc	

Surface water quality		River Water	Waste Water
Location	Sedmintation p	ond of Batching P.	lant CR-09.
Date Of Inspection	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Time Of Inspectinon	12:15 pm.
Sample points No.		Report No.	

Item	Unit	Protable Meter	Result
Turbidity	NTU	WZB-175	250
Conductivity	µs/cm	DZB-718L	98.1
РН	1	DZB-718L	9.98 7
DO	mg/L	DZB-718L	5.01
Temperature	°C	DZB-718L	• 7.5
Visual Petroleu	m Product	Yes	No

pH value acceds the NEQS Limits. First water addition to the Sedimentation Tank was not meitnessed. The Intractor is instructed to ensure fresh water addition to intractor Remarks: Witness by: Contractor neen Representative: HAN

Contr	Contractor			
ceac		DASU HYDROPOWER PROJECT	Engineer	Employer
		DASU-MW-02	PHC	THE .
	Sur	face water quality spot measurements F	Report	

Surface wa	iter quality	River Water	Waste Water
Location	Downstream	indus river (ci-	02)
Date Of Inspection	16-01-2023	Time Of Inspectinon	12:45 Am
Sample points	08	Report No.	1-1-

Item	Unit	Protable Meter	Result
Turbidity	NTU	WZB-175	65.4
Conductivity	μs/cm	DZB-718L	195.9
РН	1	DZB-718L	8.3
DO	mg/L	DZB-718L	8.8
Temperature	°C	DZB-718L	6-9
Visual Petroleu	Im Product	Yes	No 🔽

Remarks: survivy impection, the venues are ound Witness by: Contractor -11 leer Representative:

Dasu Hydropower Project Environmental Quarterly Progress Report No. 33 (Jan to March 2023)

Contractor	DASU HYDI	ROPOWER PROJECT	Engineer	Employe
	D	PHc		
Su	rface water qual	ity spot measurements	Report	
Surface wa	ter quality	River Water	Waste Water	
Location	outlet of se	amentation fund cT-c	12	4
Date Of Inspection	16-01-2023	Time Of Inspectinon	12:30 Pm) .
Sample points No.	07	Report No.	2.19	
1 1			Res	ult
Item	Unit	Protable Meter	Kts	
Turbidity	NTU	WZB-175	330	
Conductivity	µs/cm	DZB-718L	1871	
РН	1	DZB-718L	11.47	
DO	mg/L	DZB-718L	7.8	. 194
Temperature	°C	DZB-718L	15.4	
Visual Petrole	eum Product	Yes.	No	1
ontractor	tion fresh wat wells the NE by with NES.	ter addition where n Of Limits. The Co S and ensure fash wat Witness by:	ntractor is in addition	sed.
epresentative:	To the second se	Allen .		

Spot Monitoring Results for Month of February 2023



Surface wa	ter quality	River Water W	aste Water
Location	Downstream	CT-2 Tunnel - Riv	ler
Date Of Inspection	16.2.23	Time Of Inspectinon	1:31 p.m
Sample points No.	04	Report No.	

Item	Unit	Protable Meter	Result
Turbidity	NTU	WZB-175	52.8
Conductivity	μs/cm	DZB-718L	221
РН	/	DZB-718L	8.8
DO	mg/L	DZB-718L	12.3
Temperature	°C	DZB-718L	11.6
Visual Petroleu	ım Product	Yes	No V

Remarks: actor Contractor Env. Supervasor Representative: CAGC RAHMAT AL' Reveloc 16/02/023 Witness by: (The Engineer) Ahsan Akklag

Contractor	_		Engineer Employer		
	DASU HYDI D	Рнс 👘			
Su	face water qual	ity spot measurements R	Report		
Surface wa	ter quality	River Water W	aste Water		
Location	CR-9 Batch	ing About Sedimentation	m Tank		
Date Of Inspection	16.2.23	Time Of Inspectinon	12:20 p.m.		
Sample points No.		Report No.	\$		
Item	Unit	Protable Meter	Result		
Turbidity	NTU	WZB-175	317		
Conductivity	μs/cm	DZB-718L	130		
РН	1	DZB-718L	.10.3 1		
DO	mg/L	DZB-718L	5.5		
Temperature	°C	DZB-718L	11.6°C		
Visual Petroleu	um Product	Yes	No 🔽		
Remarks: - pH exceeds limits Fresh water was not added. The contractor is instructed to add adequate amount of fresh water continously. The contractor is further instructed that quantify the amount of mase nater generated and then add adequate amount of water. The size of instructor generated and then add adequate amount of water. The size of instructor generated and then add adequate amount of water. The size of instructor generated and then add adequate amount of water. The size of instructor generated and then add adequate amount of water. The size of instructor generated and then add adequate amount of water. The size of instructor generated and then add adequate amount of a atter. The size of instructor generated and then add adequate amount of a terms ited. Witness by: (The Engineer) fluan Atchlag instructor is further is instructed in the instruction is interview. is a size of the instruction is instructed in the instruction is instructed. is a size of the instruction is instructed in the instruction is instructed. is a size of the instruction is instructed. is a size of the instructed is a size of the instruction is instructed. is a size of the instructed is					



Surface wa	ter quality	River Water W	Vaste Water
Location	CI-2 Tun	rel Sedimentation To	ank
Date Of Inspection	16.2.23	Time Of Inspectinon	1:00 p.m
Sample points NO.	03	Report No.	/

Item	Unit	Protable Meter	Result
Turbidity	NTU	WZB-175	544
Conductivity	µs/cm	DZB-718L	1291
РН	/	DZB-718L	11.4 1
DO	mg/L	DZB-718L	6.7
Temperature	°C	DZB-718L	18.7
Visual Petroleu	m Product	Yes	No

Remarks: fresh water addition was not untreased. - pH is on the high side exceeds NEQS limit. The Contractor is instructed to add fresh water continonsly. The Contractor may revisit the sidesign and size find quantific quantification of wase water. Witness by: Contractor Engineer Env. Supervisor **Representative:** RAHMAT ALI 102023

Contractor			Employer
	DASU HYDROPOWER PROJECT DASU-MW-01	PHC	

Surface wa	ter quality	River Water	Waste Water
Location	Adit-1 Se	dimendation Tank	
Date Of Inspection	16.2.23	Time Of Inspectinon	11:20 a.m.
Sample points NU.	04	Report No.	

Item	Unit	Protable Meter	Result
Turbidity	NTU	WZB-175	473
Conductivity	μs/cm	DZB-718L	193.8
РН	/	DZB-718L	9.6 1
DO	mg/L	DZB-718L	6.0
Temperature	°C	DZB-718L	14.4
Visual Petroleu	m Product	Yes	No 🔽

Remarks: - pH is ligh. - fresh water addition was ensured. The Contractor is instructed to calculate washewater inflow and then add adequate quantity of water. If not finitful, add some acid to control add adequate quantity of water. If not finitful, add some acid to control pH. Contractor Env. Eupervisor Witness by: (The Engineer) Representative: Env. Supervisor Ahran Aklilas 16/2/23

Contractor		Engineer	Employer
	DASU HYDROPOWER PROJECT DASU-MW-02	PHc	

Surface wa	ter quality	River Water	Waste Water
Location	MAI Sedin	untation Tank	
Date Of Inspection		Time Of Inspectinon	12:00 p.m
Sample points	01	Report No.	

Item	Unit	Protable Meter	Result
Turbidity	NTU	WZB-175	966
Conductivity	μs/cm	DZB-718L	503
РН	/	DZB-718L	11.2 1
DO	mg/L	DZB-718L	5.8
Temperature	°C	DZB-718L	13.6°C
Visual Petroleu	m Product	Yes	No 🔽

. I to contract	s limits - Fresh water addition was or is instructed to add fresh water comply with the NEQS, add acidic Solution.
Contractor Env. Supervisor Representative: CGGC RAHMAT ALI Menecular 16/02/023	Witness by: (The Engineer) Alusan Akluba (Joan 16/2/23



Surface wa	ter quality	River Water	Waste Water
Location	CR-02 Bat	ching Plant Sed	imentation Tank.
Date Of Inspection	16.02.23	Time Of Inspectinon	10:55a.m
Sample points NO	03	Report No.	

Item	Unit	Protable Meter	Result
Turbidity	NTU	WZB-175	594
Conductivity	μs/cm	DZB-718L	237
РН	1	DZB-718L	11.0 1
DO	mg/L	DZB-718L	8.54
Temperature	°C	DZB-718L	12°C
Visual Petroleu	im Product	Yes	No V

Remarks: - pH is much ligher than prescribed limits. Despite fresh water addition pH is not under limits. The contractor is instructed to ensure adaptate water addition and acidic volution to comply with pH limits. Contractor Representative: Env. Supervisor Representative: Env. Supervisor Representative: Director Mitness by: (The Engineer) relh RAHMAT ALI Munt



Surface wa	ter quality	River Water	Waste Water
Location	Upstream of	Ucchar Crushing	Plant
Date Of Inspection	16.02.23	Time Of Inspectinon	9:45 a.m
Sample points No.	01	Report No.	

Item	Unit	Protable Meter	Result
Turbidity	NTU	WZB-175	48.2
Conductivity	µs/cm	DZB-718L	203
РН	/	DZB-718L	8.6
DO	mg/L	DZB-718L	5.0
Temperature	°C ·	DZB-718L	8.2
Visual Petroleu	m Product	Yes	No

Remarks: Witness by: (The Engineer) Ahsan Alehbag Misan Contractor Representative: Env: Supervisor CGGC RAHMAT ALI

Contractor		Engineer	Employer
	DASU HYDROPOWER PROJECT DASU-MW-01	PHc	

Surface wat	ter quality	River Water W	/aste Water
Location	Ucchar Cn	ishiy Plant Sedimenta	tion Pond
Date Of Inspection	16.02.23	^J Time Of Inspectinon	10:10 p.m
Sample points No.	02	Report No.	1

Item	Unit	Protable Meter	Result
Turbidity	NTU	WZB-175	71000
Conductivity	μs/cm	DZB-718L	103.3
РН	/	DZB-718L	9.7
DO	mg/L	DZB-718L	4.0
Temperature	°C	DZB-718L	10.2°C
Visual Petroleu	m Product	Yes	No

Remarks: - Turbidity exceeds. - Turbidity exceeds. - pH is just on a higher side. - Fresh water was not being added The contractor is instructed to ensure addition of fresh water. Add some acidic solution to control pH. Contractor Witness by: Engineer Representative: Env. Supervisor san Akblag RAHMAT ALI 2/23

Spot Monitoring Results for Month of March 2023

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Contractor		OPOWER PROJ SU-MW-02	ECT	Engineer	Employer
Su	rface water quality	/ spct measurem	nents R	leport	
Surface wa	iter quality	River Water] \	aste Water	
Location	Down Stream	m indus div	rey	(T2)	
Date Of Inspection	2023-03-19	Time Of Inspec		12:45	
Sample points	•3	Report No	•	MW-02	
Item	Unit	Protable Me	ter	Re	sult
Turbidity	NTU	WZB-175		54.5	
Conductivity	μs/cm	DZB-718L		269	
PH	1	DZB-718L		8.4	
DO	mg/L	DZB-718L		7.5	
Temperature	°C	DZB-718L		16.1	
Visual Petrole	eum Product	Yes		No	V
<u>Remarks:</u> all	results ar	e normal			
Contractor Representative:	223. Ever-un-shulee	Witness by:		od rehan Ild insp	1 Ector DHe

23]

Contractor			Engineer Employe
	DASU HYDRO DAS	Deto	
Su	urface water quality	spot measurements	Report
Surface w	ater quality	River Water	Waste Water
Location	UP Stream of	Fuchaor Crush F	Vant (River Waker)
Date Of Inspection		Time Of Inspectinon	13:30
Sample points	01	Report No.	MW-01/SW-130
ltem	Unit	Protable Meter	Resuit
Turbidity	NTU	WZB-175	47.7
Conductivity	us'em	DZB-718[246
[5]]	1	DZB-7181.	8.4
DO	mg/L	DZB-718L	7.7
Temperature	°C	DZB-718L	14.4
Visual Petro	leum Product	Yes 🗌	No L
ontractor	ll results are 2/22 2. M. Shaheer	Witness by:	eld mspector DHC

Contractor Engineer Employer DASU HYDROPOWER PROJECT LINK DASU-MW-01 山国能建 Surface water quality spot measurements Report Waste Water Surface water quality River Water Cyush Plant Location Declimention of Uchabol lond Date Of Inspection Time Of Inspectinon 13:45 2023 - 03-19 Sample points Report No. 02 MW-01/SW-131 Item Unit **Protable Meter** Result Turbidity NTU WZB-175 976 Conductivity DZB-71SL us/cm 125.3 PH DZB-7181 0.2 D()mg/L DZB-7181 5.1 °C Temperature DZB-7181 13.9 V Visual Petroleum Product Yes No The contractor will ensure Bresh water and Remarks: chemical addition to bring PH Value Willin Linuite. Contractor Witness by: Representative:/ & Mahnwood Khan \$587 Field mspector DHC Engr. M. Suchen 19/2/22.

Dasu Hydropower Project Environmental Quarterly Progress Report No. 33 (Jan to March 2023)

Contractor		Minister of the second system	Engineer	Employer
	DASU HYDROPOWER PROJECT DASU-MW-01		D-IC	1
Su	urface water quality	/ spot measurements	Report	
Surface w	ater quality	River Water	Waste Water [1	2
Location	Sendimention	Pond Qn Betch	ing Play	nt
Date Of Inspection	2023 -03-19	Time Of Inspectinon	14:35	
Sample points	03	Report No.	MW-01/S	W-132
ltem	Unit	Protable Meter	Re	split
furbidity	NTU	WZB-175	135.4	
Conductivity	µs/cm	DZB-718L	477	
PH	1	DZB-7181,	11:2	\wedge
DO	mg/L	DZB-718L	6.6	
Femperature	°C	DZR-7181.	15.9	
Visual Petrol	eum Product	Yes 📃	No	U
emarks: The Centra Idition fo	ets will ensi bring pH	ure fresh water value within	and the Limits	wical
untractor A		Witness by:		
epresentative:		De Mahn	rood 124	9M
1 618	Brg . M shaheer	Asst Field		

Contra	actor		Engineer	Employer
中国能建 FINENCY CALLA	B	DASU HYDROPOWER PROJECT DASU-MW-01	PHC	11-1
	Sur	face water quality spot measurements	Report	

Surface wa	ter quality	River Water	Waste Water
Location	Sedimention	Pond Adit 2	(cR2)
Date Of Inspection	2023-03-19	Time Of Inspectinon	14:50
Sample points	1	Report No.	1

ltem	Unit	Protable Meter	Result
Turbidity ·	NTU	WZB-175	
Conductivity	μs/cm	DZB-718L	1
PH	y.	DZB-718L	
DO	mg/L	DZB-718L	
Temperature	°C	DZB-718L	
Visual Petroleu	m Product	Yes	No

Remarks: Sample are not collected because Dedimentation find is full with sludge. Witness by. Contractor Representative: Mahmood Khan ASST Field inspector DHC

	Engineer	Employer
DASU HYDROPOWER PROJECT DASU-MW-02	PHc	
	DASU HYDROPOWER PROJECT DASU-MW-02	DASU HYDROPOWER PROJECT

Surface wa	ter quality	River Water	Waste Water
Location	Sedimention	Pond of Mut ((Rg)
Date Of Inspection	2023-03-19	Time Of Inspectinon	11:36
Sample points	1	Report No.	1

Item	Unit	Protable Meter	Result
Turbidity	NTU	WZB-175	
Conductivity	µs/cm	DZB-718L	/
ЪН	1	DZB-718L	
DO	mg/L	DZB-718L	
Temperature	°C	DZB-718L	
Visual Petroleum Product		Yes	No

Remarks: Sample are not collected beacuse for is Juli with sludge. ma Witness by: Contractor Representative: 1918/23 M. shakeer * Mahmood Khan Asst Field inspector

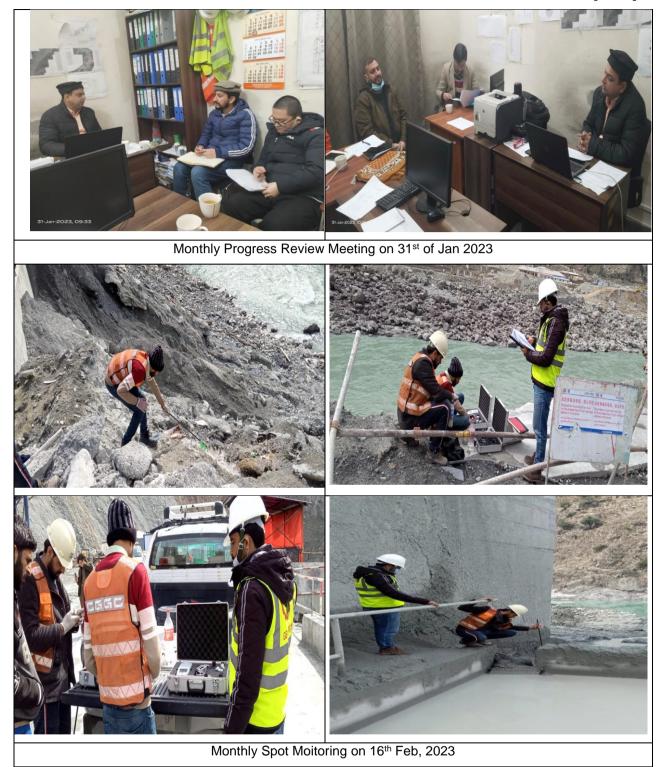
Dasu Hydropower Project Environmental Quarterly Progress Report No. 33 (Jan to March 2023)

	and the second	And the second			And the second second			
Contractor	DASU HYDROPOWER PROJECT DASU-MW-02			Engineer	Employer			
				PHc				
Surface water quality spot measurements Report								
Surface water quality		River Water Waste Water						
Location	Sedimention	Pond of Ca B	ater	hing Plan	t.			
Date Of Inspection	2013-03-19	Time Of Inspectinor		11:50				
Sample points	01	Report No.		MW-02/SW-89				
ltem	Unit	Protable Meter		Result				
Turbidity	NTU	WZB-175		52.5				
Conductivity	µs/cm	DZB-718L		706				
PH	/	DZB-718L		11.4 1				
DO	mg/L	DZB-718L		5-6				
Temperature	°C	DZB-718L		16.9				
Visual Petroleum Product		Yes		No I	2			
<u>Remarks:</u> The c chemics Limit.	ontractor win al addition	Il ensure Frest to bring Pt		water a ralue wi	nd ith in			
Contractor Representative: A White Mahmood Khay Asst Field nuspeeto DHC								

Annex-C [1 of 5]



Annex-C [2 of 5]



Annex-C [3 of 5]



Presentation to WB Regarding Progress 27-02-23

WB's MW-02 component Visit on 26-02-2023



WB's Underground Power House Visit on 26-02-2023



WB's Underground Power House Visit on 26-02-2023



Monthly Spot Monitoring in Dated: 19th of March 2023

Annex-C [1 of 5]

