

Environmental Monitoring Report

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Pakistan: Balochistan Water Resources Development Sector Project

Prepared by Balochistan Irrigation Department and the Agriculture and Cooperatives Department
for the Islamic Republic of Pakistan and the Asian Development Bank (ADB).

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ABBREVIATIONS

ACD	Agriculture and Cooperatives Department
ADB	Asian Development Bank
BWRDSP	Balochistan Water Resources Development Sector Project
BEPA	Balochistan Environmental Protection Agency
BEQS	Balochistan Environmental Quality Standards
BID	Balochistan Irrigation Department
CSC	Construction Supervision Consultants
DLP	Defect Liability Period
EMP	Environmental Management Plan
ES	Environment Specialist
GoB	Government of Balochistan
GRC's	Grievance Redressal Committee's
GRM	Grievance Redressal Mechanism
ha	Hectare
H&S	Health and safety
HSE	Health Safety and Environment
IA	Implementation Agency
IEE	Initial Environmental Examination
MRB	Mula River Basin
PMO	Project Management Office
PIS	Perennial Irrigation Scheme
PIO	Project Implementation Office
PPE's	Personal protective equipment's
SAEMR	Semi-annual Environmental Monitoring Report
SC	Supervision Consultant
SFA	Social Framework Agreement
SPDIS	Solar Powered Drip Irrigation System
SOPs	Standard Operating Procedures
SSEMP	Site Specific Environmental Management Plan
SSHSEMP	Site Specific Health Safety Environmental Management Plan
TBT	Toolbox Talk
WRB	Water Resources Building
ZRB	Zhob River Basin

BRIEF SUMMARY

1. The Asian Development Bank (ADB) is partnering with the Government of Balochistan Province (GoBP), to undertake the Balochistan Water Resources Development Sector Project (BWRDSP) in Zhob and Khuzdar Districts.
2. The BWRDSP will support the implementation of the integrated water resources management policy of the Government of Balochistan (GoB). This policy provides a comprehensive framework for the province to address the issues of water management and development in the context of basin approach, with water harvesting, and groundwater recharging as an integral part of watershed management. About 11 potential sub-projects out of over 300 longlists in the Zhob and Mula river basins were selected for potential ADB financing based on a set of criteria such as water and land availability, economic viability, and a balanced approach to extending development support to different tribal groups. The project was approved by ADB on 31 August 2018 for a concessional loan of \$100 million from ADB's ordinary capital resources (L3700-PAK), a grant of \$3 million from the Japan Fund for Poverty Reduction (JFPR, G9197-PAK), and a grant of \$2 million from the High-Level Technology Fund (HLTF, G0597-PAK). The loan, grants, and project agreements were signed on 5 January 2019. The loan and grants became effective on 7 March 2019. The physical completion of the project will be on 31 December 2027..
3. The project is focused on achieving two significant outcomes in Balochistan: enhancing farm income and improving water resources management. By effectively implementing this project, we aim to witness a remarkable increase in agricultural production in the project areas.
4. Outputs: The project has three outputs:
 - (i) Irrigation infrastructure constructed and/ improved;
 - (ii) Command area and watershed protection expanded and improved; and
 - (iii) Institutional capacity strengthened.
5. Details of Sub-projects
 - **Ahmedzai Perennial Irrigation Scheme NCB 08:** This sub-project named Ahmedzai Irrigation Scheme NCB 08 is located in District Zhob at a distance of about 51 km South-East of Zhob City. This sub-project will rehabilitate and improve damaged weir, canals and appurtenant structures to serve an area of 612 ha. Main components of the sub-project include; (i) a weir structure on the Saward Rud (river) with an irrigation outlet for Perennial channel on the right side and a head regulator for Flood channel on the left side;(ii) a 3.5 km long Perennial Irrigation channel to irrigate 208 ha of command area on right bank (iii) a 7.5km long Flood Irrigation Channel to irrigate 404 ha of land by Sailaba irrigation on the left bank of the river. The proposed project is awarded to Noor ul Haq & Brothers Contractors.
 - **Karkh valley development sub-project NCB 01:** This sub-project is comprised of 2250 ha of culturable land, which will be brought under irrigated agriculture. It is estimated that around 20 MCM of water is available annually for developing agriculture in the command area on the both right and left banks

of the river. Currently, cropping intensity in the core sub-project area is 89% and it will be increased to 120 percent after the completion of the core sub-project. There will be an appreciable socio-economic development as a result of the project. The proposed Karkh valley development sub-project consists of three parts: (a) general works – which relate to the Karkh Valley as a whole, (b) weir construction at Jhalaro, and (c) weir rehabilitation at Chutta. The design interventions for the sub-project include; (a) guide bund / flood protection works, (b) construction of new Jhalaro weir, (c) weir rehabilitation at Chutta, (d) Rehabilitation of Chutta lift irrigation (pump house), and (e) lining of unlined existing channels. The proposed project is awarded to M/S Zahir Khan Brothers VS Agha Construction Company.

- **Water Resources Building NCB 05:** The proposed civil works Water Resources Building Quetta (NCB 05) is located on an existing building compound of Irrigation Department, Balochistan which is on government-owned land. Construction Contract has been awarded to M/S Abdul Hameed Bangulzai JV M/S Muhammad Akram Shawani.
- **Kharzan Hatachi Infiltration Gallery NCB 02:** The Kharzan-Hatachi Infiltration Gallery sub-project NCB 02 is located in District Khuzdar in Mula River Basin on Mula River. The proposed intervention for the sub-project include; (a) Construction of two infiltration galleries, (b) Construction and rehabilitation of water conveyance system and associated structures, (c) flood protection works for irrigation canals and command area. The sub-project is aimed to rehabilitate and improve damaged infrastructure to enhance size of command area having irrigation facility. Construction contract of this project has been awarded to M/s Agha Brothers Construction Company, M/s Agha Construction Company and M/s Sadaat Enterprises.
- **Siri Toi Dam ICB 01:** The Siri Toi Dam sub-project (ICB 01) is located in Union Council Sambaza, Tehsil and District Zhob. The main dam will be 72 m high Earth fill Dam about 304 m long. More than 28,243 m of main and distributary channels have been designed for CCA of 3948 ha. irrigation channel and about 50 km of secondary channel. Construction contract of this project has been awarded to M/s Noor ul Haq & Brothers.
- **Kili Sardar Akhtar NCB 06:** The Killi Sardar Akhtar sub-project comprises (i) infiltration gallery across the stream Sawar Rud-a tributary of Zhob River and (ii) perennial irrigation scheme along right bank. The proposed sub-project will use sub-surface flow for irrigation. The Perennial Irrigation Scheme (PIS) supplies water round the year. The sub-project will improve 106 ha of existing command area of Killi Akhtarzai and Killi Ghundai whereas 124 ha new area of Bazkhel will be brought under cultivation. After construction of sub-project, it will significantly improve the agricultural production and rural livelihood. Construction contract of this project has been awarded to M/s Noor ul Haq & Brothers.
- **Pashta Khan and Garambowad (PIS) NCB 04:** The project is located north – east of Khuzdar in Pashta Khan area at a distance of about 64 km, that is 28 km north via N – 25 Highway (RCD Highway) to Baghbana area and 36 km

east on unpaved road and hilly track to location. Pashta Khan and Garambowad (PIS) sub – projects are located at a distance of 7 km from each other and situated on Anjira River which drains into Mula River near Pashta Khan. It is located in tehsil Mula, district Khuzdar, Baluchistan. Both schemes are taken as on sub – project due to closeness and smaller in size.

- **Manyalo, Raiko and Rind Ali (PIS) NCB 07:** Manyalo, Raiko and Rind Ali (PIS) sub – project is located on Mula River Basin in district Khuzdar, about 50 km north – east of Khuzdar. The proposed Manyalo, Raiko and Rind Ali weir lies in UTM Zone 42N at 3096496.83 North and 293914.18 East and average altitude of sub – project's command area is 850 m above mean sea level. Manyalo, Raiko are located on right bank of river, while Rind Ali is located on left bank of river. Access to sub – project site from Khuzdar is through M – 8 motorway which connect to a dirt road crossing Mula river basin boundary on north – east side of M – 8.
- **Watershed Management Works- Siri Toi Dam, NCB-VWC-01:** The project's integrated watershed management initiatives for sir toi watershed within the zhub basin, which is the subproject located in Union Council Sambaza, Tehsil and District Zhob about 62 km north-west of Zhob city. The latitude and longitude of the scheme are 69°15'58.77"E & 31°35'51.57"N. The site is approachable from Zhob–Wana road at a distance of 45 km from Zhob. The Construction contract of this project has been awarded to M/s Noor ul Haq & Brothers.

6. Status of EIA and IEE Reports of subprojects is as follows in Table 1.

Table-1: Status of EIA and IEE Reports

Sr No.	Date	Type of report - final To TL/DTL	Final submitted to PMO	Remarks	NOC Status
IEE/EIA Reports (As per Original Scope)					
1.	25-03-2021	Final EIA of Siri Toi Dam ICB 01	Final submitted	Cleared by ADB	No Objection Certificates (NOCs) for all these schemes have been obtained from the Balochistan Environmental Protection Agency (EPA): one NOC for the schemes falling under the Zhob River Basin and another for those falling in
2.	25-05-2021	IEE of Ahmedzai NCB 08	Final submitted	Cleared by ADB	
3.	25-05-2021	IEE of Karkh valley Development Sub-Project NCB 01	Final submitted	Cleared by ADB	
4.	25-05-2021	IEE Kharzan Hitachi Infiltration Gallery NCB 02	Final submitted	Cleared by ADB	
5.	3-07-2021	IEE of Water Resources Building NCB 05	Final submitted	Cleared by ADB	
6.	4-08-2021	IEE of Killi Sardar Akhtar NCB 06	Final submitted	Cleared by ADB	
7.	19-08-2021	IEE Report of Pashta Khan and Garambowad PIS Subproject NCB- 04	Final submitted	Cleared by ADB	

Sr No.	Date	Type of report - final To TL/DTL	Final submitted to PMO	Remarks	NOC Status
8	19-08-2021	IEE Report of Manyalo, Raiko and Rind Ali Perennial Irrigation Subproject – MRB NCB- 07	Final submitted	Cleared by ADB	the Mulla River Basin.
9	26-12-2024	IEE Churri Infiltration Gallery subproject NCB 09	Draft submitted to PMO	Under Review by ADB	
IEE/EIA Reports (After Variation Order 1)					
1.	2 July 2024	Updated EIA of Siri Toi Dam ICB 01	Final submitted	Cleared by ADB	
2.	30 January 2025	Supplementary IEE of Karakh valley Development Sub-Project NCB 01	Final submitted	Cleared by ADB	
3.	19 March 2024	Updated IEE of Kharzan Hitachi Infiltration Gallery NCB 02	Final submitted	Cleared by ADB	
4.	3 July 2024	Updated IEE of Killi Sardar Akhtar NCB 06	Final submitted	Cleared by ADB	

7. In last SAEMR, the construction works on NCB 08, NCB 05, NCB 01, NCB 02, ICB 01 and NCB 06 were reported in detail. The commencement of construction works on NCB 04, NCB 07, NCB-VWC-01 have not been started during the previous reporting period.
8. Site Specific Environmental Management Plan of all sub-projects have been approved as detailed below, Table 2.

Table-2: Status of SSEMP's

Sr.No.	Date	Type of report - final To TL/DTL	Final submitted On (date) to PMO	Remarks	Project Category
1.	20-09-2021	Final SSEMP of Ahmedzai NCB 08	Final version submitted	Cleared by ADB	B
2.	3-12-2021	Final SSEMP of Water Resources Building NCB 05	Final version submitted	Cleared by ADB	B
3.	9-12-2022	Final SSEMP of Siri Toi Dam ICB 01	Final version submitted	Cleared by ADB	A
4.	4-04-2023	Updated SSEMP of Karkh valley Development Sub-Project NCB 01	Updated as per ADB Comments and submitted to PMO	Cleared by CSC	B
5.	16 -05-2022	SSEMP of Kharzan Hitachi Infiltration Gallery NCB 02	Final version submitted to PMO after consultants review	Approved by CSC	B
6.	6-06-2023	SSEMP of Killi Sardar Akhtar NCB 06	Final version submitted to PMO	Approved by CSC	B

Sr.No.	Date	Type of report - final To TL/DTL	Final submitted On (date) to PMO	Remarks	Project Category
7.	12-12-2023	SSEMP of Pashta Khan and Grambowad Perennial Irrigation Subproject – MRB NCB- 04	Final version submitted to PMO	Approved by CSC	B
8.	12-12-2023	SSEMP of Manyalo, Raiko and Rind Ali Perennial Irrigation Subproject - MRB NCB- 07	Final version submitted to PMO	Approved by CSC	B
9	1-6-2024	Watershed Management Works- Siri Toi Dam, NCB-VWC-01	Final version submitted to PMO	Approved by CSC	
10.	4-02-2025	SSEMP of Churri Infiltration Gallery Subproject– MRB NCB- 09	Draft submitted to CSC	CSC has provided comments	B

9. For the entire project, the civil works contract packages are divided into sub-projects. The contractors' names, along with the sub-project names and contract numbers, commencement details, and updated progress, are as follows in Table 3.

Table-3: Details of sub projects awarded to the Contractors

Sr. No.	Contract No.	Contract Description	Contractor	Commencement Date
1	NCB-01	Construction of Karkh Valley Development Subproject - MRB	M/s Zahir Khan & Brothers - Agha Construction Company (Joint Venture)	28 December 2020
2	NCB-02	Construction of Kharzan Hatachi Infiltration Gallery Subproject - MRB	M/s Agha Brothers Construction Company - Agha Construction Company - Sadaat Enterprises (JV)	22 June 2021
3	NCB-05	Construction of Water Resources Building Subproject - Quetta	M/s Haji Abdul Hameed Bangulzai- M/s Muhammad Akbar Shahwani & Brothers (JV)	7 April 2021
4	NCB-08	Construction of Ahmedzai Perennial+Flood Irrigation Subproject - ZRB	M/s Noor ul Haq & Brothers	22 December 2020
5	ICB-01	Construction of Siri Toi Dam Subproject - ZRB	M/s Noor ul Haq & Brothers	22 April 2022
6	NCB-06	Construction of Killi Sardar Akhtar Perennial Irrigation Subproject - ZRB	M/s Noor ul Haq & Brothers	21 December 2022

Sr. No.	Contract No.	Contract Description	Contractor	Commencement Date
7	NCB-04	Pashta Khan and Grambowad Perennial Irrigation Subproject – MRB (NCB-04)	M/s Agha Brothers Construction Company & M/s Ramzan & Sons (Pvt.) Ltd. (JV)	03 May 2023
8	NCB-07	Construction of Manyalo, Raiko and Rind Ali Perennial Irrigation Subproject – MRB (NCB-07)	M/s Agha Brothers Construction Company & M/s Ramzan & Sons (Pvt.) Ltd. (JV)	03 May 2023
9	NCB-VWC-01	Watershed Management Works- Siri Toi Dam, Zhob River Basin	M/s Noor ul Haq & Brothers	04-10-2023
10	NCB-09	Construction of Churri Infiltration Gallery Subproject - MRB	M/s Haji Abdul Hameed Bangulzai	26 Dec 2024

10. This report refers to the 8th Semi-Annual Environmental Monitoring Report for the Balochistan Water Resources Development Sector Project (BWRDSP) from July to December 2024, which is prepared to analyze the effectiveness of the implementation of environmental safeguards on project sites and compliance with applicable national and international laws and regulations. For this purpose, environmental audits, various site visits, and meetings with project staff have been conducted during the reporting period to ensure the implementation of environmental safeguards.

11. Details of project activities during Current Reporting Period is given below:

Table-4: Details of ongoing construction activities

S.No.	Details of Activities	Current Status	Completed
Siri Toi Dam ICB 01			
1.	Camp establishment	Masonry	96%
2.	Earth work (Spillway)	Excavation	10%
3.	Dyke	Key Trench Excavation	69%
4.	Access Road	Excavation	35%
Karkh valley development sub-project NCB 01			
1.	Bund 1	15 layers done	0+600 to 0+850
2.	Chutta left sump 1	Culvery	0+000 to 0+366
3.	Chutta gravity	RCC topslab of superpassage	Nil
4.	Bund 4	Excavation and RCC bed of culvert	0+000 to 0+215
5.	Wandhri right side	Excavation and RCC bed of culvert	0+000 to 0+437
6.	Chutta weir	D/S stone apron	Nil
7.	Wanddheri right side	Excavation of nalla crossing and wingwalls	0+000 to 0+350
Pashta Khan and Grambowad Perennial Irrigation Subproject – MRB (NCB-04)			
1.	Pashta Khan and	Trench for rainwater	90%
2.	Grambowad (PIS)	Guard room construction	97%
3.	NCB-04	Union office	100%

S.No.	Details of Activities	Current Status	Completed
4.		Aluminium for window is in progress	100%
5.		AC installation all building	96%
6.		Solar foundation excavation in progress	90%
7.		All washroom and kitchen work in progress	98%
8.		Gas work in progress	97%
9.		Transformer pad work	95%
10.		Solar frame structure	75%
Kharzan-Hatachi sub-project NCB-02			
1.	Kharzan Hitachi Infiltration Gallely subproject NCB-02	Stone spawl	95% completed
2.		Stone pitching on slop	95% completed
3.		Stone pitching on level	95% completed
4.		Excavation in Conduit	100% completed
5.		Earthwork of FP Bund	75% completed
6.		Excavation in channels	100% completed
7.		Construction joint in lining	90% completed
8.		Expansion joint in lining	96.5% completed
9.		Water stopper	95.% completed
10.		Concrete class B(PCC)	75.04% completed
11.		Steel	90.44% completed
12.		Bund # 2	85% completed
13.		Bund # 3 B	75% completed
14.		Bund 3 C & 3 A	90% completed
Manyalo Raiko & Rind Ali (Pis) Subproject (NCB-07) works progress			
1.	Infiltration Gallery	Excavation	100% completed
2.	Main Channel	Excavation	100% completed
		Back Filling	100% completed
3.	Ghundai Channel	Earth work (excavation, filling)	100% completed

12. A project-level Grievance Redress Mechanism (GRM) has been established to address grievances arising from environmental and social impacts. The GRM is prepared in English and Urdu and cleared by ADB. The GRM is fully implemented in the camp areas and construction sites. The GRM record is being checked on a monthly basis.
13. A good working relationship is being maintained among the PMO, Contractor, and the Consultant's environmental staff. Trainings on a regular basis are performed by the Contractor's HSE Officers on sites for the capacity building of the relevant workers/staff. They are briefed on updating the environmental monitoring checklists and strictly follow the EMP, which they submit on a weekly/monthly basis to adhere to Environmental Management and Monitoring activities.
14. The Corrective Action Plan (CAP) devised by PMO and PIC is communicated to the contractors for effective implementation. SC has advised the contractor to address noncompliance as per the agreed CAP. The corrective actions included better housekeeping on camp and active sites, the provision of proper PPE's to the workers, on-the-job trainings, avoiding littering activities, etc. On-site sanitation at subproject sites utilizes septic tanks for sewage waste disposal, positioned near construction camps before discharging into nearby drainage areas.

15. In accordance with the project's EMP, the Contractors of NCB 07, NCB 02, NCB 05, NCB 07, and ICB 01 have conducted quarterly environmental monitoring through third-party environmental testing laboratory certified by the Balochistan EPA during September 2024. Sampling and analysis were conducted in the presence of the SC Environmental Specialist. Sampling and lab testing have been carried out for ambient air quality, gaseous emissions, drinking/groundwater, surface water, wastewater, and noise.
16. Additional field staff was nominated by Contractors and trainings on housekeeping including waste management and good practices measure was provided to all labors and staff, which decreased minor non-conformance levels months from July to December 2024.

1 INTRODUCTION

1.1 GENERAL

17. This report represents the 8th Semi-Annual Environmental Monitoring Review for the Balochistan Water Resources Development Sector Project (BWRDSP), covering the period from July- December 2024. It contains findings of Environmental Compliance monitoring activities at the following sub-project sites: ICB 01 Siri Toi Dam , Karkh Valley Development subproject on Mula River NCB 01, NCB 02 Kharzan Hatachi Infiltration Gallery, Manyalo Raiko & Rind Ali (Pis) Subproject, Mula River Basin(NCB-06)and Pashta Khan And Garambowad Perennial Irrigation Sub Project-Mulla River Basin (NCB-04). This SAEMR for the project consists of the following subprojects:

Manyalo Raiko & Rind Ali (Pis) Subproject(NCB-06)

- Construction of a weir structure on the Mula River with four channels: the Left Main Channel of Manyalo, Manyalo Right Channel, Rind Ali Channel , and Raiko Channel.
- Construction of hydraulic structures, including Time Division Structures/Flow Division structures, Fall Structures, Sump, Culverts, Aqueducts, Syphons, Super Passages, and Flood Protection Bunds.
- Construction of social structures and command area development in the sub-project area

Pashta Khan And Garambowad Perennial Irrigation Sub Project (NCB-04)

- Construction of a weir with a 3 perennial Irrigation channel and flood protection bunds, at Pashta Khan
- Construction of an off-take well with long irrigation canal and flood protection bunds at Garambowad

Karkh Valley Development Sub-Project on Mula River Basin NCB 01

- Rehabilitation of weirs including raising of protection and guide bund
- Construction of flood protection Bunds.
- Solar pumping system at one place
- Construction of the new channel and crossing structure

Kharzan Hitachi Infiltration Gallery Sub-Project NCB 02

- Construction of two infiltration gallery.
- Construction and rehabilitation of water conveyance system and associated structures.
- Flood Protection works for irrigation canals and command area.

Siri Toi Dam Sub Project ICB 01

- Construction of Siri Toi Dam Sub Project. Main components of the sub-project includes main dam, dyke, spillway, intake and outlet structures and network of main and distributary canals for irrigation supplies.

Location of sub-project sites

18. The subproject locations of Mula River Basin and Zhob River Basin are shown in Figures 1-1 and 1-2, respectively.

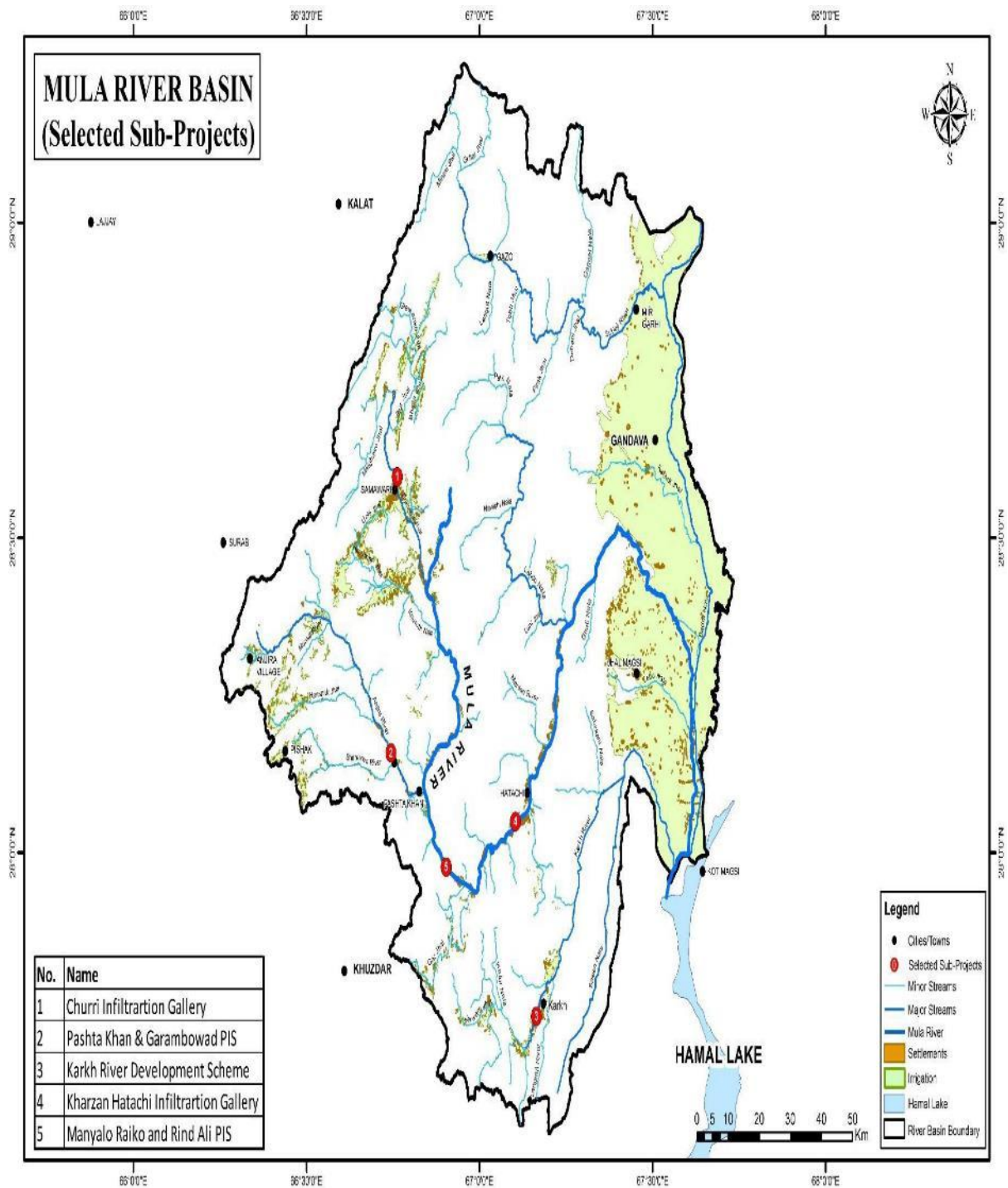


Figure 1-1: Location map of Mula River Basin

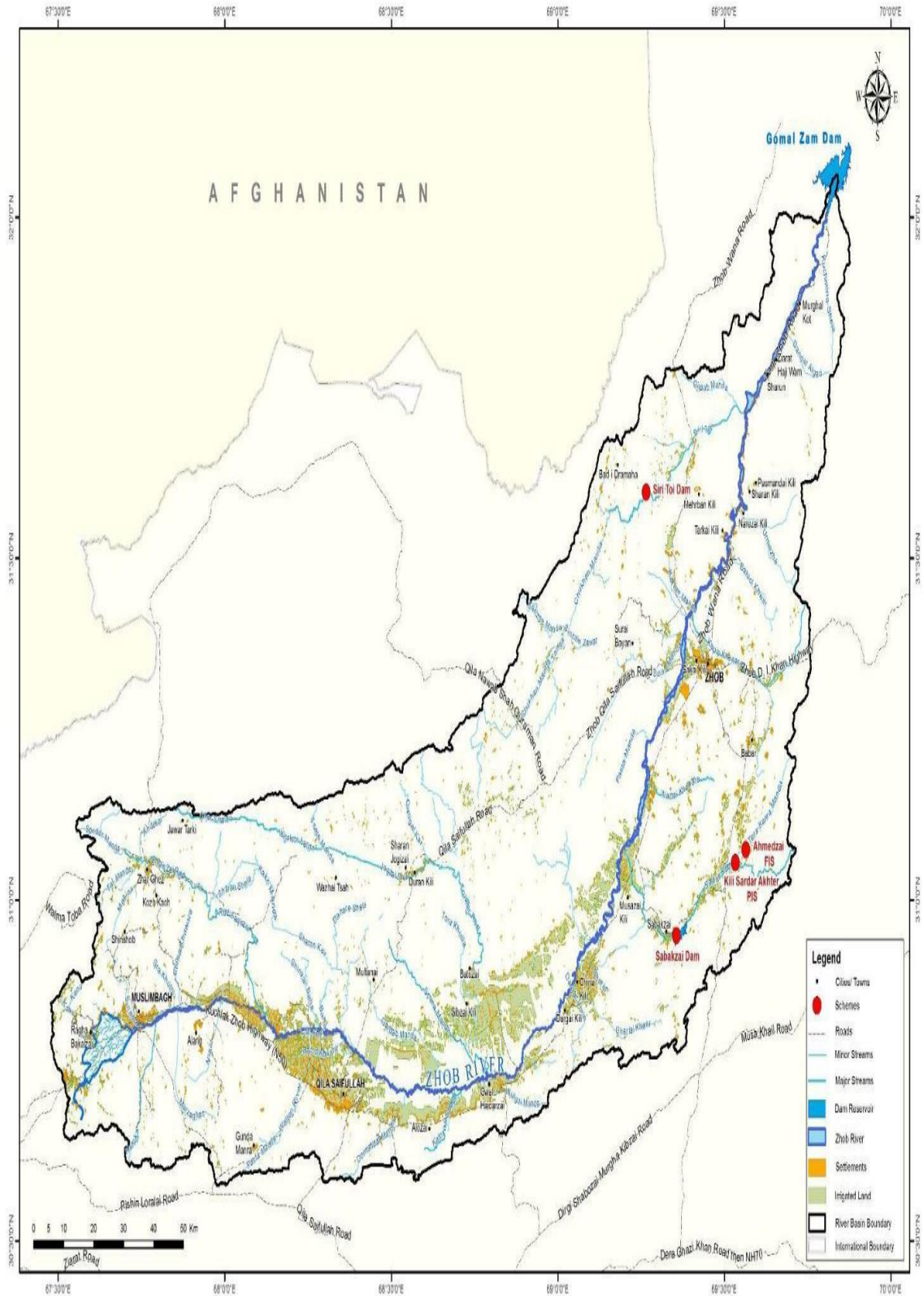


Figure 1-2: Location map of Zhub River Basin

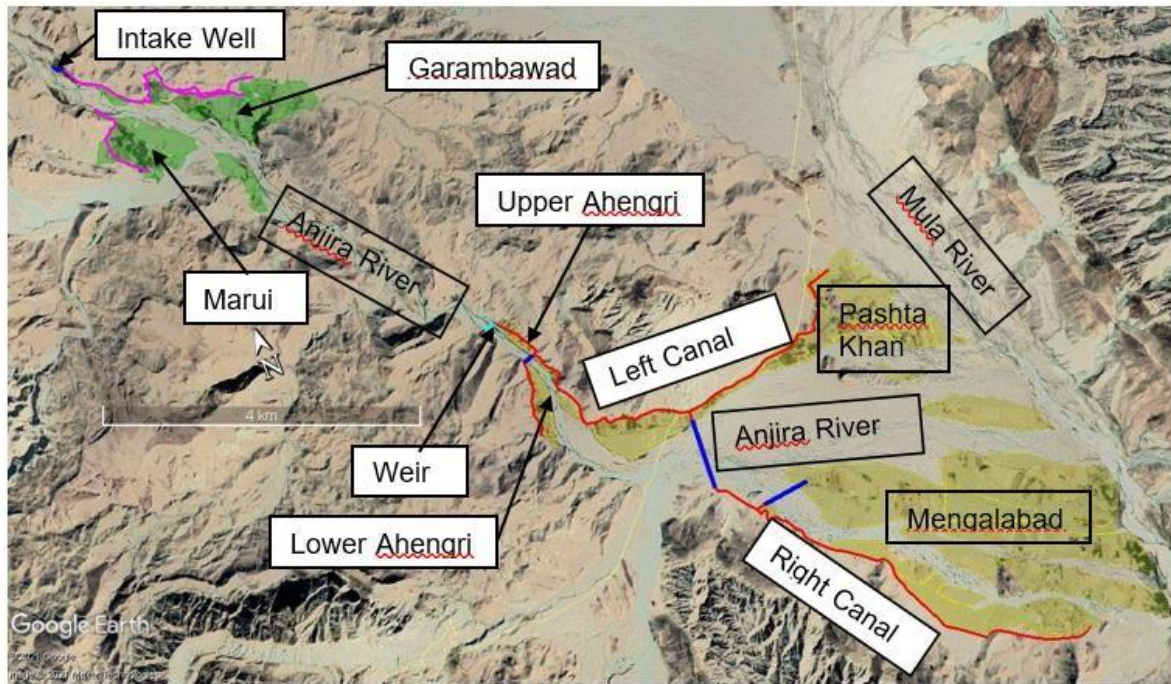


Figure 1-3: Pashta Khan Subproject NCB 04 location

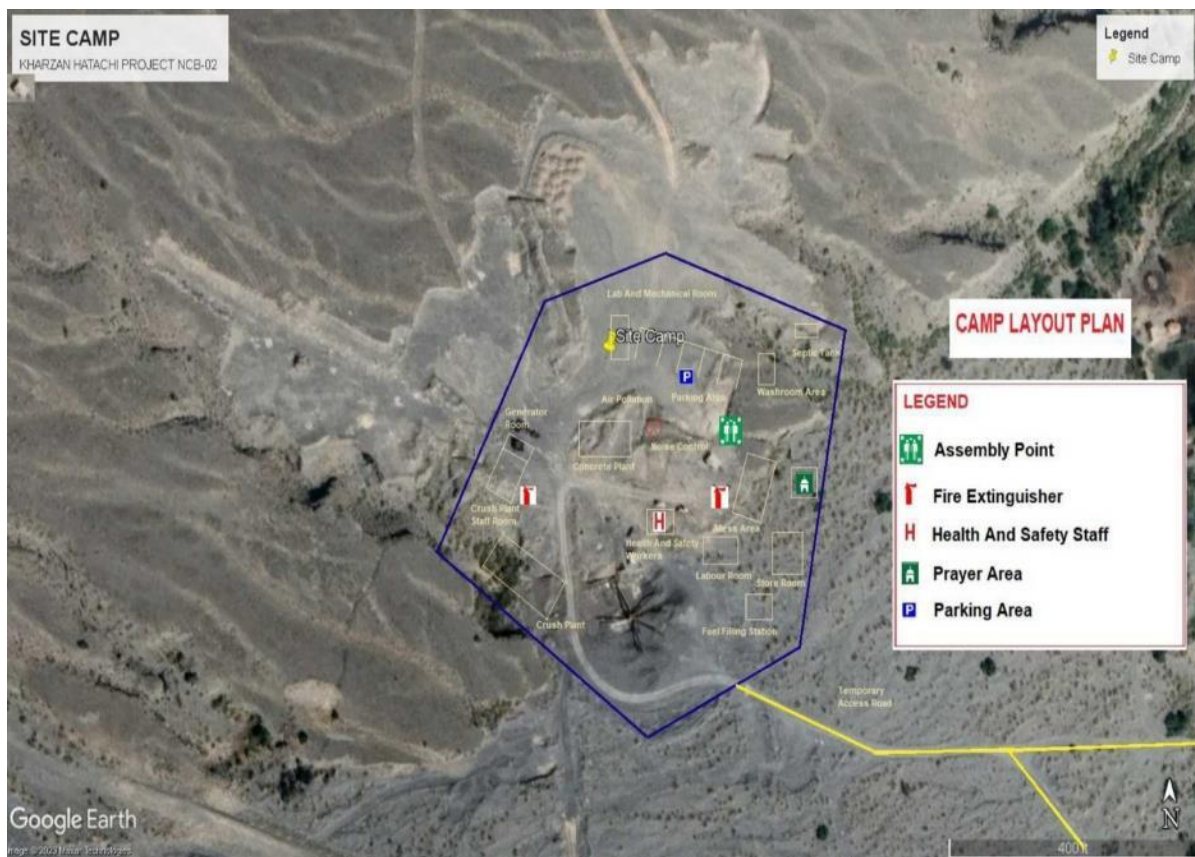


Figure 1-4: Kharzan Hatachi Infiltration Gallery sub-project NCB 02 location



Figure 1-5: Siri Toi Dam camp site sub-project ICB 01 location

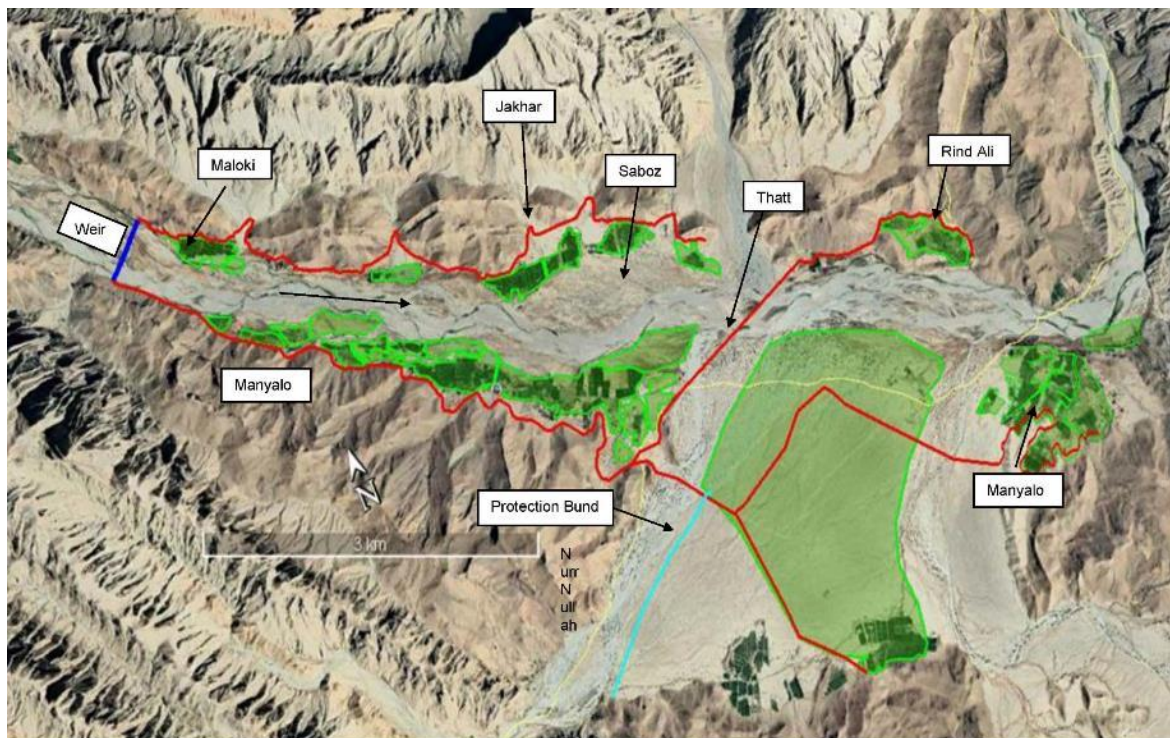


Figure 1-6: Location map of Manyalo Raiko & Rind Ali (PIS) Subproject NCB 07

2 PROJECT DESCRIPTION AND CURRENT ACTIVITIES

2.1 PROJECT DESCRIPTION

19. The Asian Development Bank (ADB) is partnering with the Government of Balochistan Province (GoBP), to undertake the Balochistan Water Resources Development Sector Project (BWRDSP) Zhob and Khuzdar Districts.
20. The BWRDSP will support the implementation of the integrated water resources management policy of the Government of Balochistan (GOB). The policy provides a comprehensive framework for the province to address the issues of water management and development in the context of basin approach, with water harvesting, and groundwater recharging as an integral part of watershed management. About 11 potential sub-projects out of over 300 longlists in the Zhob and Mula river basins were selected for potential ADB financing based on a set of criteria such as water and land availability, economic viability, and a balanced approach to extending development support to different tribal groups. The project was approved by ADB on 31 August 2018 for a concessional loan of \$100 million from ADB's ordinary capital resources (L3700-PAK), a grant of \$3 million from the Japan Fund for Poverty Reduction (JFPR, G9197-PAK), and a grant of \$2 million from the High-Level Technology Fund (HLTF, G0597-PAK). The loan, grants, and project agreements were signed on 5 January 2019. The loan and grants became effective on 7 March 2019. The physical completion of the project will be on 31 July 2026.
21. The project is aligned with the following impacts: Increased farm income in Balochistan and improved water resources management in Balochistan. The project is focused on achieving two significant outcomes in Balochistan: enhancing farm income and improving water resources management. By effectively implementing this project, we aim to witness a remarkable increase in agricultural production in the project areas.
22. The project has three outputs:
 - I. **Output 1: Irrigation Infrastructure and watershed protection constructed and/or rehabilitated:** The output will consist of the construction, upgrade, or rehabilitation of the following: (i) Siri Toi Dam with a storage capacity of 30 million cubic meters, which will include a spillway and a water intake. (ii) Weirs and infiltration galleries. (iii) Approximately 276 kilometers of irrigation network, which will include headworks, off-takes, aqueducts, culverts, sluice gates, guide bunds, drop/fall facilities, washing structures, transition chambers, and livestock drinking facilities. (iv) Flood protection works aimed at reducing flood risks to irrigation canals and the command area.
 - II. **Output 2: Command Area established and/or Improved:** This output will support Command Area Development, which includes the improvement of approximately 11,603 hectares of land to maximize the benefits from the irrigation investments. The improvements will be achieved through the following activities: (a) Construction and rehabilitation of secondary and tertiary canals in schemes identified for improvement under Output 1. (b) Construction of lined watercourses. (c) Improvement of on-farm water management and agronomic techniques, such as land leveling and irrigation scheduling. (d) Construction of Kacha track/access roads. (e) Implementation of rainwater harvesting and storage facilities. (f) Provision of farm machinery. (g) Providing farming training for

sustainable farming practices. The expected targets for this output are as follows: i) Approximately 11,603 hectares of land will be improved and served by rehabilitated irrigation and Khushkaba infrastructure. About 5,989 hectares of land will be developed under new irrigation infrastructure. About 130 hectares of high-value agriculture will be piloted with a drip irrigation system through the JFPR grant. At least 22 women-led small-scale income-generating agri-businesses will be launched. The implementation of these targets aims to enhance agricultural productivity, improve water management, and promote sustainable farming practices in the region.

- III. **Output 3: Institutional capacity strengthened:** The Water Resources Information System (WRIS) has been established and is now operational with the help of technical assistance. This output aims to achieve the following targets: Utilization of high-level technology hydro-meteorological equipment for field validation of satellite-based WRIS data to monitor water resources in 3 river basins under the Grant Project. Capacity building for project management and implementation skills of at least 40 trained staff from the Irrigation Department (ID), Agriculture and Cooperative Department (ACD), and Project Management Office/Project Implementation Office (PMO/PIO). At least 30% of these trained staff should be women. Training of at least 750 farmers to enhance their knowledge and skills in the efficient use of water and value-added farming practices. Training of at least 250 women for income-generating high-value agri-businesses. Pilot implementation of high-value agriculture on approximately 130 hectares of land in the project area. This includes the installation of about 160 cost-effective solar-powered drip irrigation systems, construction of two olive oil extraction plants and two processing plants for fruits and vegetables. Additionally, at least 22 women-led small-scale income-generating agri-businesses for livestock will be established to strengthen high-value farming technology and contribute to increasing agricultural production. Strengthening of high-value farming technology through technology demonstrations on at least 130 hectares in 160 farms. Guidelines on efficient water usage and agriculture inputs will be provided to further support agricultural production. Enhancement of community capacity in high-value agriculture, including training for efficient water use and value-added farming practices.

2.2 PROJECT CONTRACTS AND MANAGEMENT

2.2.1 Project Management Office

23. PMO Office was established on March 2020, at 80/186-B, Near Allied Bank, Jinnah Town, Quetta.
24. The PMO, led by the Project Director, oversees overall environmental management and monitoring. The Environment Specialist, Resettlement Expert and Social and Gender expert are the PMO Support Staff to provide support to the Project Director with socio-environmental safeguards.
25. The Project Director is also supported by the Deputy Project Director (MRB) and Deputy Project Director (ZRB) for compliance with the EMP/SSEMP.
26. Key responsibilities of PMO Environment and Social support team include implementing the EMP/SSEMP through spot checks, monitoring, reporting, and assisting Project Implementation Consultants (PIC) and Contractors in addressing socio-environmental safeguard issues.

27. Shabir Ahmad Khan serves as the External Environment Specialist of PMO for the Siri Toi Dam Subproject. He can be contacted at +92 334 5544333 or via email at sakhanswati56@gmail.com.

2.2.2 Project Implementation Consultants

28. For design and construction supervision of the project, the Executing Agency engaged Project Implementation Consultant (PIC) on July 26, 2019 through open competitive bidding. Consultants were mobilized during September 2019.
29. In compliance with the conditions of Consultancy Contract, PIC subsequently established the Engineer's project office at 80/186-B, Near Allied Bank, Jinnah Town, Quetta.
30. To ensure the project's effective monitoring and supervision, the Engineer's office is being assisted by the Resident Engineer's offices that have been established since the commencement of works, as detailed below:
- Resident Engineer - BWRDSP (MRB)
Asad Abad, Chamrok Chowk , Main RCDA Road, Khuzdar
 - Resident Engineer - BWRDSP (ZRB)
House No. 693, Near Abadi Oppozai, Zhob
31. Alongside providence of technical support, PIC also provide support in matters covering social and environmental aspect of the project. For look after of the environmental portfolio, PIC has engaged environmental team comprising of following Environmental specialists with names and contact numbers given below.
- Dr Akhtar Iqbal – Environment Specialist (PMO Support). Contact No. +92 334 9756096
 - Ahmed Hassan – Environment Specialist . Contact No. +92 336 8311968
32. During execution phase of the project, the foregoing team of the PIC remained responsible for the day to day monitoring supervision of the activities pertain to environmental portfolio as listed in the Consultancy Contract, EMP, SSEMP and elsewhere in the Contract Document along with review of the Contractor's report(s) and furnishing of such reports fall in purview of the PIC.

2.2.3 The Contractors

a) ICB-01 Construction of Siri Toi Dam Subproject - ZRB

33. The ICB-01 contract for the Construction of Siri Toi Dam was awarded to M/s Noor ul Haq & Brothers on April 25, 2019, with construction commencing on April 22, 2022. As of December 31, 2024, the project is 31.54 % complete. The final SSEMP was submitted on December 9, 2022, and approved by the ADB. Muhammad Nawaz serves as the Environmental Specialist for this subproject and is based on-site. He can be contacted via email at nawazhasni50@gmail.com.

b) NCB-01 Construction of Karkh Valley Development Subproject - MRB

34. The NCB-01 contract for the Construction of Karkh Valley Development Subproject was awarded to the joint venture of M/s Zahir Khan & Brothers and Agha Construction Company on December 28, 2020. As of December 31, 2024, the project is 82.20% complete. The Environmental Specialist for this subproject is Ahsan Latif, who is based in Khuzdar and can be reached at 0333-2598915 or via email at ahsan.latifsoomro@hotmail.com. The final SSEMP report, updated per ADB comments, was submitted on April 4, 2023, and approved by the CSC.

c) NCB-02 Construction of Kharzan Hatachi Infiltration Gallery Subproject - MRB

35. The NCB-02 contract for the Construction of Kharzan Hatachi Infiltration Gallery was awarded to the joint venture of M/s Agha Brothers Construction Company, Agha Construction Company, and Sadaat Enterprises on June 22, 2021. As of December 31, 2024, the project is 93 % complete. The Environment Specialist for this subproject is Arif Hameed, located at Kharzan Hatachi. He can be contacted via email at arifhameed710@gmail.com. The final draft of the SSEMP was submitted to the PMO on May 16, 2022, and approved by the CSC.

d) NCB-07 Construction of Manyalo Raiko & Rind Ali (PIS) Subproject - MRB

36. The NCB-07 contract for the Construction of Manyalo Raiko & Rind Ali (PIS) Subproject was awarded to the joint venture of M/s Agha Brothers Construction Company & M/s Ramzan & Sons (Pvt.) Ltd. on May 3, 2023. As of December 31, 2024, the project is currently 5.62% complete. The final SSEMP was submitted on December 12, 2023, and approved by the CSC. Arif Hameed serves as the HSE Officer for this project and is based in Khuzdar. He can be contacted via email at arifhameed710@gmail.com.

e) NCB-04 Construction of Pashta Khan And Garambowad Perennial Irrigation Sub Project

37. The NCB-04 contract for the Construction of Pashta Khan And Garambowad Perennial Irrigation Sub Project was awarded to M/s Agha Brothers Construction Company & M/s Ramzan & Sons (Pvt.) Ltd. (JV)M/s Noor ul Haq & Brothers on May 3, 2023. The project is 14.65% complete. The final SSEMP was submitted on December 12, 2023, and approved by the CSC. Arif Hameed serves as the HSE Officer for this project and is based in Khuzdar. He can be contacted via email at arifhameed710@gmail.com.

3 DESCRIPTION OF SIRI TOI DAM SUBPROJECT (ICB-01)

3.1 PROJECT DESCRIPTION

38. The Siri Toi Dam Project is located in Union Council Sambaza, Tehsil and District Zhob in Balochistan Province, approximately 62 km north-east of Zhob on Sri Toi River, the main tributary of Zhob River near Killi Gul Khan. The latitude and longitude of the scheme are 31° 35' 56.35" N, 69° 16' 8.86" E. The annual average availability of water is nearly 32.216 Million Cubic Meter (MCM) with a catchment area of 962 sq.km. Main components of the sub-project includes main dam, dyke, spillway, intake and outlet structures and network of main and distributary canals for irrigation supplies. Project Layout is shown in Figure 3-1.

SALIENT FEATURES:

- | | |
|------------------------------|------------------------|
| • Total Cost | 9896.217 (Rs. Million) |
| • Total Command Area | 8,138 hector |
| • Dam Type | Earth-fill |
| • Height of Dam | 72 Meter |
| • Dam Reservoir Area | 195.10 (Hectare) |
| • Spillway Type | Ogee |
| • Width of Spillway | 148 Meter |
| • Height of Dyke | 38 Meter |
| • Intake Tower Height | 46.40 Meter |
| • Length of Right Bank Canal | 11,535 Meter |
| • Length of Left Bank Canal | 15,718 Meter |
| • Feeder Channel Length | 937 Meter |

PROJECT PROGRESS:

- | | |
|-----------------------|--------|
| • Overall Target: | 49.58% |
| • Physical Progress: | 33.00% |
| • Financial Progress: | 30.33% |

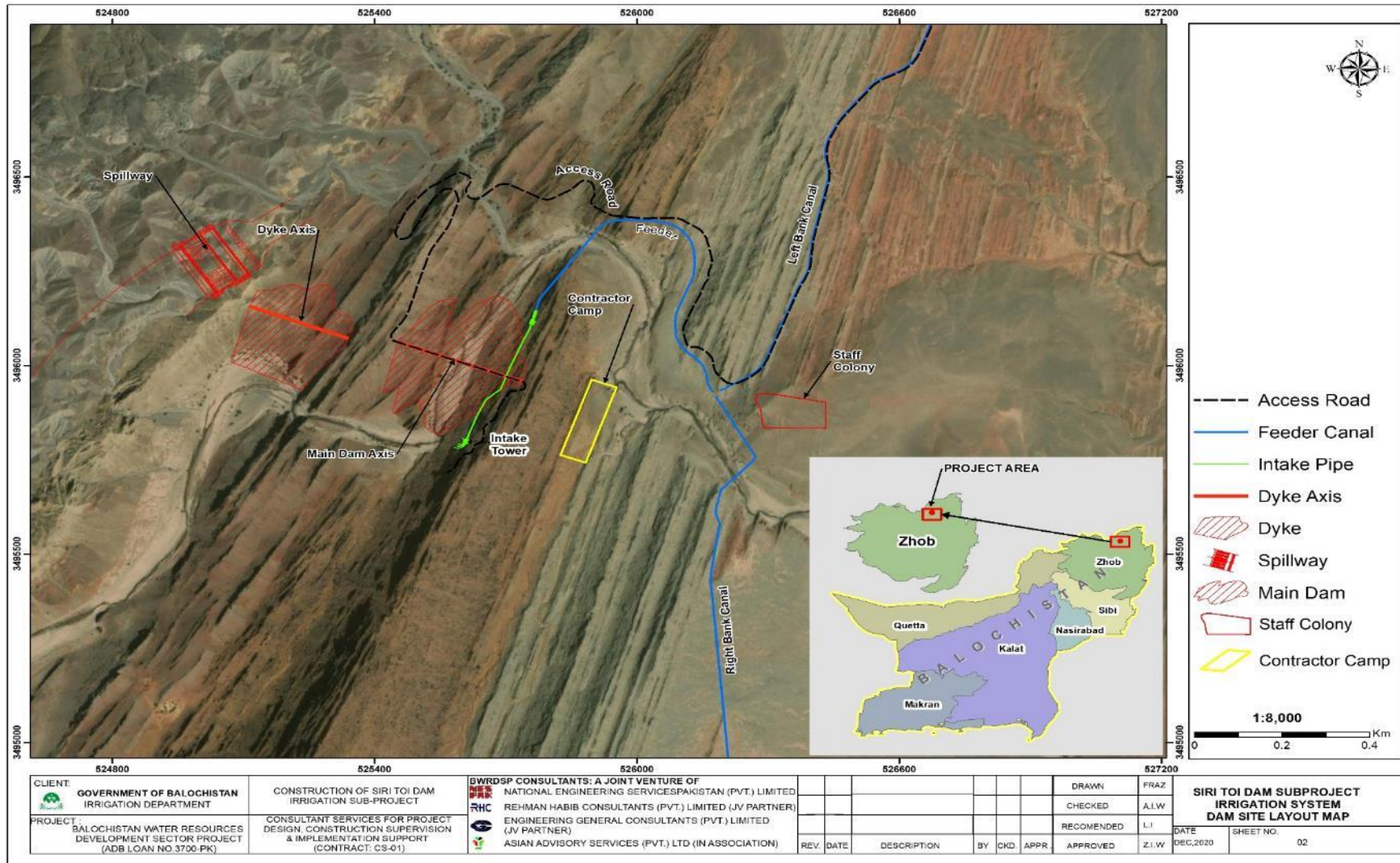


Figure 3-1: Layout Map

3.2 ACTIVITIES DURING CURRENT REPORTING PERIOD

39. An overview of the current progress for various activities under the Siri Toi Dam Subproject ICB-01 is provided in Table 3-1 below. It outlines the completion percentages of key construction tasks, reflecting the status of each activity as the project advances.

Table 3-1: Siri Toi Dam Subproject ICB-01 works progress

Sr. No	Activity	Status %
1.	Camp Establishment	96%
2.	Spillway	10%
3.	Dyke [Trench Excavation]	69%
4.	Access Road	35%

40. The specific ongoing construction activities for the Siri Toi Dam Subproject ICB-01 are detailed in Table 3-2. It describes the current tasks being performed for each major component of the project, highlighting the types of work underway for camp establishment, spillway construction, dyke excavation, and access road preparation .

Table 3-2: Details of ongoing construction activities.

S. No.	Siri Toi Dam ICB 01	
1.	Camp establishment	Masonry, Modification, Construction per requirement
2.	Spillway	Excavation, Paneling, Bedding
3.	Dyke	Key Trench Excavation
4.	Access Road	Excavation

Construction Material

41. Major construction materials used at ICB-01 include reinforced steel, cement, sand and aggregates supplied from the approved sources as mentioned in the SSEMP. The Details for types of construction material used and their sources for the time period July to December 2024 are mentioned in Table 3-3.

Table 3-3- Detail of material and sources of Siri Toi Dam sub-project ICB 01

Sr. No.	Name of Material	Source of Material	Quantities Used
1	Cement	D.G Lucky, Lucky cement, Fauji cement, Mapple leaf cement	415000(Bags)
2	Steel	Agha steel, Faizan steel, Naveena steel	28,600 (cm)
3	Stone	Borrow Material areas	53,800(cm)
4	Crush aggregates	As per approved sources nearby site	3,114(cm)
5	Sand		1350(Tn)

Human Resources

42. As a contractor, it is prior responsibility to hire local staff, skilled and unskilled staff and labor. Because it is the basic right of peoples living in the vicinity of project area to get maximum financial benefit of project to overcome unemployment, so their socio economic status can be improved. However, considering availability and ability of work, contractor has provided the jobs to the local community on priority basis. The Details for categories of Employees both Skilled and Unskilled are mentioned in Table 3-4

Table 3-4- Manpower Technical/skilled/ unskilled staff details

Sr.no	Employees	Quantity
01	Office Manager	1
02	Quantity Surveyor	1
03	Auto cad opt	1
04	Geologist	1
05	Material Engineer	1
06	Doctor	1
07	Lab Technician	1
08	Lab Technician Assistant	2
09	Document Controller	1
10	Accountant HR	1
11	Surveyor	8
12	Surveyor Helper	4
13	Store Helper	2
14	Supervisor	2
15	Purchaser (Zhub)	1
16	Charge Man	6
17	Cameraman	1
18	Compressor man	1
19	Munshi	5
20	Machinery Inch	3
21	Grouting	1
22	Mechanic	7
23	Tire Repairing	1
24	Welder	2
25	Blasting foreman	2
26	Driller man Blasting	2
27	Crush Plant	5
28	Roller Operator	1
29	Dozer Operator	1
30	Bulldozer Helper	1
31	Dumper Driver	20
32	Dumper Helper	6
33	Excavator Operator	15
34	Excavator Helper	7
35	Grader Operator	1
36	Crane Operator	1
37	PT Labour	30
38	Loader Operator	5

Sr.no	Employees	Quantity
39	Loader Helper	1
40	Transit Mixer Driver	11
41	Transit Mixer Helper	3
42	Kharadi	1
43	Welder	2
45	Cook	1
46	Cook Helper	2
47	Pump opt	1
48	Masson Labor	34
49	Masson	8
50	Office Boy	2
51	Shot Cret	1
52	Shot Cret opt	1
53	Mazda Driver	1
54	Pickup Driver	2
55	Surf Jeep Driver	1
56	Tractor Driver	2
57	Probox	1
58	Tank Driver	1
59	Tank Helper	1
Total		229

Equipment Machinery

43. Contractor is obliged to use Heavy Machinery on field for timely completion of the work. Maintenance of the machinery not only provide better and successful results but also safe haven for the workers operating nearby. Daily inspection of machinery is carried out by experts and supervisors before and after the machine is used. The machinery is washed on daily basis and maintained by their assigned individual operators. The details for Heavy Machinery working on site are mentioned in Table 3-5.

Table 3-5: List of Machinery/Equipment's

Sr. no	Name of Machinery	Quantity
1	Excavator 400	5
2	Excavator 200	1
3	Loader	3
4	Grader	1
5	Dozer	1
6	Crawler	1
7	Water Tanker	2
8	Dumper	12
9	Transit Mixer	4
10	Roller	2
11	Concrete Pump	1
12	Compressor	4
13	Generator	6
14	Tractor 240	2
15	Tractor 385	1
16	Mazda Dino	1

Sr. no	Name of Machinery	Quantity
17	Bike 125cc	2
18	Batching Plant	2
19	Crush Plant	1
20	Light Motor Vehicle	5
21	Water Bore Engine	4
22	Car Wash Pump	1
23	Grouting Pump	2
24	Grouting Mixer	2
25	Rotary	1
26	DTH Machine	3
27	Jaw Crusher	1
28	Water Bowser	2
29	Concrete Vibrator	2
30	Excavator 450	2

3.3 DESCRIPTION OF ANY CHANGES IN ICB-01 DESIGN

44. During the reporting period, no changes were made in the design of ICB-01.

3.4 DESCRIPTION OF ANY CHANGES TO AGREED CONSTRUCTION METHODS

45. The construction activities at various sections of Site are in progress in accordance with the Engineer's approved methodology and specifications.



Works Progress in Pictures

**ICB-01 - Construction of Siri Toi Dam Subproject - Zhob River Basin
Excavation work at Dyke is in Progress**



**ICB-01 - Construction of Siri Toi Dam Subproject - Zhob River Basin
A View of Spillway Structure**



3.5 ENVIRONMENTAL SAFEGUARD ACTIVITIES

3.5.1 General Description of Environmental Safeguard Activities

46. During the reporting period, the Contractor engaged in multiple construction activities, including excavation works for the spillway, dyke, slope protection, and access road, as well as earthwork, concrete work in the stilling basin, plum concrete, and drilling. The environmental safeguards associated with these activities were diligently supervised and monitored, ensuring compliance with the provisions outlined in the approved Site-Specific Environmental Management Plan (SSEMP) and the Environmental Management Plan (EMP) in general. A series of checklists were completed to maintain detailed records of the environmental management efforts. These checklists, serve as evidence of adherence to the prescribed environmental protection measures and document the specifics of the monitored activities.
47. The camp has been established following SSEMP guidelines, with key safety measures such as an Emergency Assembly Point, Refueling Station, Fire Extinguishers, and Safety Signboards in place. A Labor Canteen is provided, along with a designated Heavy Machinery Parking Area and Site Safety Barricades. Medical facilities, including a dispensary and ambulance, are available for emergencies. On-site sanitation is managed through septic tanks, and a Grievances Register is available for workers. These practices ensure a safe and well-organized work environment, promoting both operational efficiency and worker well-being.
48. A problem was identified with workers not consistently wearing Personal Protective Equipment (PPE), compromising safety on-site. The Contractor addressed this issue by ensuring that all workers and staff now use the required PPEs. It was observed that safety protocols for scaffolding were not being followed, which created potential hazards. Additionally, fall protection systems were not in place. The contractor was promptly instructed to install the necessary fall protection and ensure workers received proper training on fall hazards.
49. Quarterly environmental monitoring at designated locations along the spillway were conducted at quarterly basis during the reporting period. The findings and analysis are detailed in a section 3.12 of the report.

3.5.2 Corrective Action Plans (CAPs):

50. During the reporting period, the Environment Specialist of CSC conducted regular visits and monitored the project for the implementation of the Environmental Management Plan (EMP). As a result of these visits, Corrective Action Plans (CAPs) have been prepared for EMP non-compliance in for Siri Toi Dam. The details of these CAPs are provided in the Table 3-6 below.

Table 3-6- Siri Toi Dam sub-project Corrective Action Plan (Issues Resolved)

Sr. No.	EMP Observations	Corrective Measures	Implementing Responsibility	Monitoring Responsibility	Timeline	Updated Status Closed/open
1.	Some Workers were	All workers and staff need to wear the	Contractor	CSC	1 January 2025	Open

Sr. No.	EMP Observations	Corrective Measures	Implementing Responsibility	Monitoring Responsibility	Timeline	Updated Status Closed/open
	not using PPE's	required PPEs. A mechanism needs to be established to ensure usage of PPEs through training, incentives, or penalty.				
2.	Environment Specialist and HSE Officer are not present on site fulltime	Contractor should deput fulltime Environment Specialist and HSE Officer and ensure their presence on site	Contractor	CSC	10 January 2025	Open
3.	Safety protocols for scaffolding were not adhered to, posing a potential risk	Ensure scaffolding meets safety standards and that workers are trained on proper usage	Contractor	CSC	5 January 2025	Open
4.	Non-compliance with fall protection protocols was observed	Ensure the installation of fall protection systems and provide training to workers on fall hazards	Contractor	CSC	5 January 2025	Open
5.	Unwanted items were observed at the Assembly Point in the camp area, and waste was not properly disposed of	Ensure proper disposal of waste at designated areas and keep the assembly point clean	Contractor	CSC	5 January 2025	Open
6.	No sheds on fuel storage area and Generator	Sheds should be provided for the fuel storage area/containers fuel and generators	Contractor	CSC	31st July 2024	Open

*Pictorial Evidences for closed issues are mentioned as annexure IX

3.6 ISSUES TRACKING (BASED ON NON-CONFORMANCE NOTICES) .

51. During site inspections, several safety issues were identified, including sliding hazards due to uneven ground and inadequate housekeeping at the dam site area. The Contractor was instructed to level the ground, improve housekeeping, and implement safety measures. Additionally, waste disposal at the Assembly Point was improperly

managed, requiring the Contractor to dispose of waste in designated areas and maintain cleanliness.

52. Non-compliance with safety protocols was found in excavator operations, scaffolding, and fall protection systems. The Contractor was directed to enforce safety protocols for excavators, ensure scaffolding meets safety standards, and install fall protection systems with worker training.
53. Finally, PPE non-compliance was observed, with instances of workers not using the required safety gear. The Contractor was tasked with ensuring strict enforcement of PPE usage on-site, conducting regular inspections, and providing ongoing training. This corrective action is ongoing and requires immediate attention to ensure compliance and
54. The Semi-Annual Environmental Monitoring Report (SAEMR) was overdue for submission. The Contractor has since submitted the report to the Consultant office, ensuring compliance with environmental monitoring requirements.

3.6.1 Trends.

55. Recent trends at the project site indicate a significant focus on safety, organization, and worker welfare. An emergency assembly point has been designated for worker safety, and a refueling station has been established. Fire safety measures have been reinforced with the strategic placement of fire extinguishers and fire buckets. Safety signboards have been installed across the campsite, construction site, and along road diversions. Labor canteen facilities are in place, maintaining excellent housekeeping conditions for workers. Additionally, a heavy machinery parking area has been designated, and safety barricades are effectively preventing workers from entering hazardous zones. The use of LPG cylinders for cooking and other utilities further reflects the commitment to safety and environmental responsibility.

3.7 GRIEVANCE REDRESSAL MECHANISM.

56. GRM has been established for the project. Complaint register is available inside camp to receive complaints from local community/project affected people and contractor's staff. The complaints have been registered in the time period July - December 2024.
57. The first complaint was started in January 2024 with a single concern regarding damage of road. The PMO assured the complainant to repair the road after completion the project. The complainant did not agree. Meanwhile a Youth Committee of Killi Hazrat Saheb came forward with multi demands which carry no legal weightage but they have approached to ADB to fulfil their demands.
58. The following is a detailed description of their demands and responses from PMO. These are already submitted to ADB. The complainant of Killi Hazrat Saheb is still stucked for their demands.

**GOVERNMENT OF BALOCHISTAN
IRRIGATION DEPARTMENT
Balochistan Water Resources Development Sector Project**

Application of Youth Action Committee, Killi Hazrat, Zhob (Mr. Israr ul Haq and Mr. Muheebullah and others)

During the ADB Review Mission's visit to Siri Toi Dam on 13th July, 2024, a group who call themselves Youth Action Committee Killi Hazrat met the Project Director (Mr. Sufyan Durrani) and Assistant Project Engineer (Mr. Abu Bakar) at the site camp and presented a fresh application. The Youth Action Committee's participants were as follows:

1. Mr. Israr ul Haq s/o Sana ul Haq,
2. Mr. Muhammad Tahir s/o Shafi ul Haq,
3. Mr. Naeem Shah s/o Amin ul Haq,
4. Hafiz Shams ud Din, and
5. Mr. Muheebullah

In the current application, the same concerns and issues have been presented that were presented through the complaints of Mr. Israr ul Haq vide his emails to ADB dated 25th March, 2024 and 30th April, 2024 and by Mr. Muheebullah vide his email to PMO dated 15th June, 2024, both of which were duly corresponded by the PMO.

The application is submitted in Urdu language (attached herewith) and its English translation is also attached. The annotated replies of the PMO that were informed to the Committee are provided in the following table:

Concern No.	Details of Concern	Reply of the Concerns
1	Road is destroyed by the Contractor. He should manage diversion for the road safety.	The PMO assured the Committee many times that reconstruction of road is provided in the Variation Order (that is under process of approval). When the dam construction is near completion, the road will be re-constructed after the heavy machinery for dam construction has been demobilized. Otherwise, if the road is reconstructed on the demand of the Committee right after approval of the VO, the same complaint of damage to the newly constructed road would resurface in future.

Concern No.	Details of Concern	Reply of the Concerns
		Moreover, the Contractor has made a complete diversion of the existing road and is using diversion for transport of its vehicles and machinery.
2	The Contractor is using our sand, soil and stone for the construction of dam. We need its royalty.	<p>The sand, soil and stone are being used from the un-settled land that has been duly handed over to the Project by the Land Collector / Deputy Commissioner Zhob.</p> <p>As earlier informed to the Youth Action Committee vide PD's email dated 25th June, 2024, to provide private land ownership documents of the land from where the Contractor is using sand, soil and stone however they could not provide the same.</p> <p>Moreover, it was again explained to them that "Royalty" cannot be provided to the Youth Action Committee Killi Hazrat by the Contractor under any rules and this demand of theirs is illegal. It was further explained to them that royalty is only to be paid to the Mines and Minerals Department, GoB if any private person or entity is engaged in construction activity for private purposes but no royalty is paid by such entity when they have been sanctioned by the Government to do Government projects. The Committee however insisted that it is the "norm" and the Project should force the Contractor to pay 'Royalty' to the</p>

Concern No.	Details of Concern	Reply of the Concerns
		Committee or the Committee would forcibly stop the construction activities. The Project Director explained that if such drastic action is taken by the Committee, it would tantamount to obstruction of government functioning for fulfillment of an illegal / unjustified demand and the PMO would be forced to report it to the Civil Administration, Zhob for an appropriate action.
3	The Contractor has established camp office without their approval and without paying its rent.	It was explained to the Committee that the camp is established on un-settled land and not on private land. The un-settled land has already been duly handed over to the Project by the Land Collector / DC Zhob. Under the prevalent Rules, no rent is admissible to the Youth Committee for establishment of site camp on unsettled land, thus this demand is also illegal and unjustified. However, the Committee insisted that it is the "norm" and the PMO should force to Contractor to pay rent. The Project Director informed that the PMO could not fulfill this demand of the Committee and if they would further force the Contractor to seek rent then the matter would have to be reported to the Civil Administration.
4	The Contractor is using blasting material for excavation and other harmful material is not properly disposed, due to which our 11 cows	It was informed to the Committee that when it was informed to ADB that such an event had occurred, the social team visited Killi Hazrat and asked for proof

Concern No.	Details of Concern	Reply of the Concerns
	<p>and several sheep/goats have died. We need compensation for its loss.</p>	<p>to be provided that 11 cows and several sheep had died so that compensation could be assessed but no proof could be provided by the community. Hence this event is not true. In this meeting, the Committee was again asked to provide proof of any such event but they did not provide the same. They did not share any pictures or proof of dead animals near the camp area.</p> <p>Furthermore, the whole camp site is fenced and FC security personnel posted on the perimeter (photos enclosed). No animal can enter in the area.</p> <p>Even furthermore, the camp has been visited by the External Environmental Monitor (3rd Party Monitor) as well as ADB's Environmental Teams and no such non-compliance of the SSEMP has been witnessed or reported. All used material is well managed by the project environment expert according to SOPs.</p>
5	<p>Below standard construction material is being used by the Contractor, which may be dangerous in the future.</p>	<p>Mr. Israr ul Haq showed the Project Director a photograph in his cellphone of boulders being laid in the stilling basin of the spillway by the Contractor's staff. He informed that all of the spillway should be constructed with reinforced cement concrete (RCC) whereas the Contractor is using</p>

Concern No.	Details of Concern	Reply of the Concerns
		<p>boulders which he conceals with concrete.</p> <p>The Project Director inquired if there are any Civil Engineers among the Youth Action Committee members. Mr. Israr informed that he is a Geological Engineer. When asked by the PD if he is aware what 'Plum Concrete' is? He informed that he does not know. The Project Director explained that wherever mass concrete is required like in the stilling basin of Siri Toi spillway; boulders (plums) are used to make it economical. The PD informed that constructing the stilling basin completely in RCC is unnecessary and unviable.</p> <p>Furthermore, it was informed that the PMO has provided a detailed response to this concern of quality in construction along with assurance about the same concerns raised by Mr. Muheebullah (present) in response to his email referred above.</p>
6	That the crush plant and plant nursery are installed on their land for which the Contractor neither consulted with them (complainants) nor obtained their permission.	It was explained again that the crush plant and nursery are situated on un-settled land that belongs to the Government and duly handed over to the Project by the Land Collector/DC Zhob.
7	The PD and Contractor are requested to avoid contact with individual community members or conduct	The PD explained to them that under the ADB's safeguards policy, the PMO cannot refuse dialogue with any member of the Community who may

Concern No.	Details of Concern	Reply of the Concerns
	meetings with individuals and hold meetings only with this Committee.	approach the Project authorities. The PD has always held meetings with whoever has approached the PMO in the past, whether an individual or group /committee for useful outcome.
8	We people wanted to visit the site but the security guards don't allow or permit to enter too late.	It was explained to them that the construction site is not a thorough fare. There are heavy construction machinery operating in the area and casual visitors are not permitted for the security of the camp and its staff by the security personnel and for the visitors' own safety for risk of injury from construction machinery or falling debris. Permission to enter camp site takes time due to security SOPs of security personnel.
9	We tried several times to sit and talk with the Contractor to solve the issues but he does not agree.	It was informed to the Committee that all the concerns that have been raised by them in this meeting or in previous correspondence to ADB or PMO do not relate to the Contractor. Any other genuine concerns can still be discussed with the PMO. However, the PMO is not in favour of Youth Committee's direct interaction with the Contractor because from what has been documented above, the Committee could stress the Contractor to pay them "Royalty" and "rent" as a "norm" which could result in a clash between them and adversely affect the Project.

59. Of the above nine demands, the project had agreed to meet two demands: the rehabilitation of the village access road and the fencing of the campsite. The other demands were not deemed legitimate because the complainants could not substantiate their claim for ownership of the subject unsettled land for which they were asking for compensation and royalty. Likewise, to date, the complainants have not provided any credible evidence substantiating the claimed deaths of their livestock, allegedly due to eating hazardous material.

3.8 UNANTICIPATED ENVIRONMENTAL IMPACTS OR RISKS.

60. During the reporting period, neither unanticipated environmental impacts were observed nor reported by the Contractor.

3.9 ENVIRONMENTAL MONITORING RESULTS

3.9.1 Overview of Monitoring Conducted during the Current Period

61. The primary goal/ objective of environmental monitoring is to:
- i. Monitor project impacts on physical, biological and socio-economic indicators and to assess adequacy of the EMP/SSEMP in identifying and mitigating the project adverse effects;
 - ii. Recommend mitigation measures for any unforeseen impact or where the impact level exceeds from those anticipated in EMP/SSEMP; and
 - iii. Ensure legal compliance including safety of workforce and community.
62. Following two types of Environmental monitoring were ensured during the execution of works.
- i. **Compliance Monitoring:** To ensure that measures proposed in EMP/SSEMP are adhered to: and
 - ii. **Effect Monitoring:** To monitor the effect of construction activities on various components of the environment such as air, water, noise and soil etc.
63. To assess the effect of construction activities on various components of the environment on sub-project sites, as shown in Table 3-8, a comprehensive Environmental Monitoring Plan was made part of the construction contract with budgetary provisions thereof. During the reporting period, the given plan was accordingly implemented at the points specified in the Instrumental Monitoring Layout Plan given in the sub-project SSEMP's.

Table 3-7: Instrumental Environmental Monitoring Plan

Environmental Quality	Parameters	Standards/ Guidelines	Location	Monitoring Period/Frequency/Sampling/ No/ year	Responsibility	
					Implementation	Monitoring
Construction Stage						
Air Quality	NO, NO ₂ , SO ₂ , CO, O ₃ , SPM, PM ₁₀ , PM _{2.5} , Humidity, Wind direction, Wind velocity, Pressure etc.	Air quality standard by BEQS, Pakistan	Throughout the project areas particularly at: <ul style="list-style-type: none"> ▪ Camp and Batching plant site. ▪ Sensitive receptors at active construction site 	Quarterly (24 Hours Duration)	Contractor	Supervision Consultant (SC)
Dust	Dust control	Air quality standard by BEQS, Pakistan	Throughout the project areas, particularly near sensitive receptors	Quarterly (24 Hours Duration)	Contractor	Supervision Consultant (SC)
Noise Level	dB(A)	Noise pollution Control BEQS, Pakistan	Camp site and Batching Plant site project areas, particularly near sensitive receptors	Quarterly (24 Hours Duration)	Contractor	Supervision Consultant (SC)
Water Quality	Bore water: Total Bacteria Count, Total Coliform, E. Coli, Faecal Coliform, Turbidity, Taste, Odour, Colour, Phenolic compounds, Residual Chlorine, pH @25°C, TDS, Total Hardness, Fluoride, Chloride, Cyanide, Nitrate, Nitrite, Antimony, Aluminum, Arsenic,	BEQS, NEQS, WHO Limits,	Water near project corridor and camp site	Quarterly	Contractor	Supervision Consultant (SC)

Environmental Quality	Parameters	Standards/ Guidelines	Location	Monitoring Period/Frequency/Sampling/ No/ year	Responsibility	
					Implementation	Monitoring
	Boron, Barium, Chromium Total, Copper, Cadmium, Lead, Manganese, Mercury, Nickel, Selenium, Zinc, BOD, COD, Temperature, Oil & Grease, Iron, Mercury, Ammonia, Sulphate, Silver.					

3.10 INSTRUMENTAL MONITORING LABORATORY

64. To implement the instrumental monitoring plan at Siri Toi Dam, the Contractor, hired services of an external laboratory “Sustainable Environmental Services (SES)”. On Kharzan Hatachi ,Manyalo Raiko & Rind Ali (PIS) Subproject, Pashta Khan And Garambowad Perennial Irrigation Sub Project the Contractor hired the services of “ENVI TECH AL” Laboratory. Balochistan Environmental Protection Agency (BEPA) certified labs, having Head offices at Karachi.
65. The environmental monitoring was carried out by CSC to assess actual nature and extent of key impacts and the effectiveness of mitigation and enhancement measures outlined in the Initial Environmental Examination (IEEs) and Environmental Management Plans (EMPs). The labs conducted instrumental monitoring for ambient air quality, meteorological data, Noise and drinking water during the second quarter of the reporting period i.e., during the September 2024, and provided reports. SAEMR contains comparison of the monitoring results obtained during the reporting period. Signed copies of the results are attached as **Annexure-XI**.

3.11 MONITORING METHODOLOGY AND CALIBRATION

66. Standard methods were employed for the analysis of environmental parameters. The detail of each method has duly been described in the respective section.
67. Environmental Monitoring equipment were calibrated using the approved prescribed methods. Also, during monitoring hours, the calibration was rechecked to ensure quality of the results.

3.12 MONITORING OF AIR, NOISE AND WATER AT SIRI TOI DAM SITE

3.12.1 Ambient Air Monitoring

i. Methodology and Instrument Used

68. Ambient air quality monitoring was carried out for the assessment of Parameters (NO, NO₂, SO₂, CO, O₃, SPM, PM₁₀, PM_{2.5}, Humidity, Wind direction, Wind velocity, Pressure etc). The Air Quality Monitoring Station (AQMS-09), employed for PM₁₀ & PM_{2.5}, is a fully integrated air monitoring station that delivers ‘near reference levels’ of performance parameters. With a size of large suitcase, it can measure up to 20 different gaseous and particulate pollutants and environmental parameters simultaneously. The AQMS 09 offers optimal balance between performance and measuring criteria pollutants.

ii. Test Results and Discussion

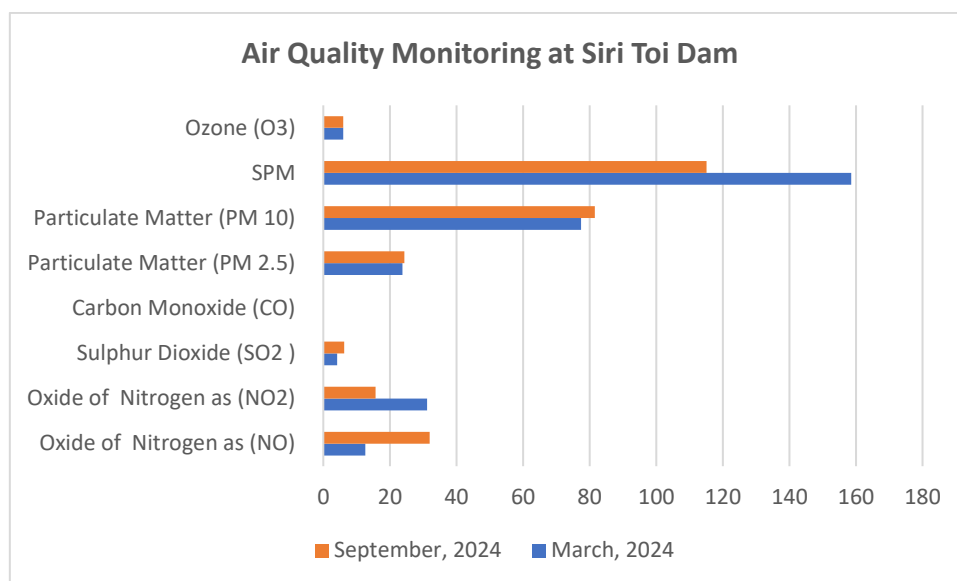


Figure 3-2: Air Quality Monitoring at Siri Toi Dam Camp site

69. Ambient air quality (NO, NO₂, SO₂, CO, O₃, SPM, PM₁₀, PM_{2.5}, Humidity, Wind direction, Wind velocity, Pressure etc) were monitored for twenty-four (24) hours at the locations identified by the SC and results obtained are shown in graphical representation.
70. All the results are within the permissible limits and compliant with the NEQS. NO₂, PM₁₀, PM_{2.5} levels exceeded stringent WHO standards, primarily due to high vehicle movement and dust accumulation near the monitoring points. The contractor has been instructed to strictly follow SSEMP recommendations, particularly regarding water sprinkling in dust-prone areas, and to regularly monitor vehicle emissions to ensure compliance with emission standards through effective enforcement measures. However, it is worth noting that during the first quarter, the contractor has not performed quarterly monitoring at the sub-project site and the comparison was made with previously approved SAEMR instrumental results as shown in Figure 3-2 & Table 3-9.
71. Considering the compliance with BEQS, NEQS, and WHO standards, there is no immediate need for additional mitigation measures to control dust, apart from the measures proposed in the SSEMP. These measures may include regular sprinkling of water to suppress dust and timely transportation or disposal of excess materials temporarily stored at the site.
72. It is important to regularly monitor and assess the dust levels and compliance with environmental standards throughout the project's implementation to ensure continued adherence to regulations and to address any potential concerns that may arise.

Table 3-8: Air Quality Monitoring Test Results

Sr. No.	Measuring Parameters	Location	Unit	Results	WHO Limit	NEQS & BEQS Limits	Remarks
1.	Oxide of Nitrogen as (NO ₂)	Camp	µg/m ³	31.95	25(24 hrs.)	80 (24 hrs.)	WL
2.	Oxides of Nitrogen as (NO)	Camp	µg/m ³	15.68	-	40 (24 hrs.)	WL
3.	Sulphur Dioxide (SO ₂)	Camp	µg/m ³	6.29	40(24 hrs.)	120 (24 hrs.)	WL
4.	Carbon Monoxide (CO)	Camp	mg/m ³	0.053	4(24 hrs.)	5 (08 hrs.)	WL
5.	Particulate Matter (PM 2.5)	Camp	µg/m ³	24.34	15(24 hrs.)	35 (24 hrs.)	WL
6.	Particulate Matter (PM 10)	Camp	µg/m ³	81.6	45(24 hrs.)	150 (24 hrs.)	WL
7.	SPM	Camp	µg/m ³	115.1	-	500 (24 hrs.)	WL
8.	Ozone (O ₃)	Camp	µg/m ³	6	60 (Peek Season)	130 (01 hr.)	WL

3.12.2 Noise Monitoring

73. The twenty-four (24) hours noise level monitoring was carried out at Siri Toi Dam camp site using Digital Noise level meter.

i. Test Results and Discussion

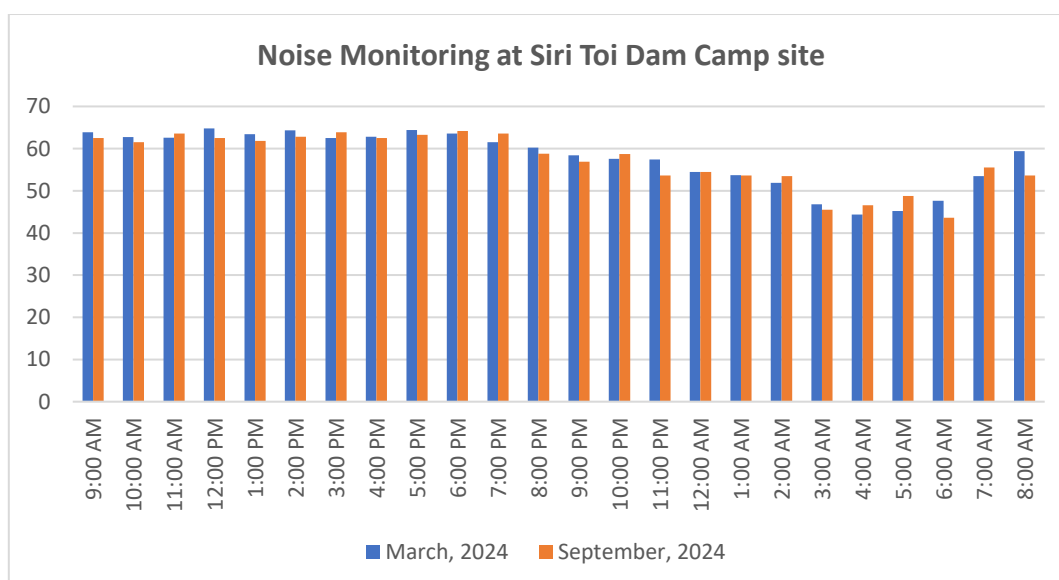


Figure 3-3: Noise Monitoring at Siri Toi Dam Camp site

74. The comparison of noise level monitoring results obtained during the monitoring period is shown in Figure 3-3 and Table 3-10.

75. The noise level monitoring at sites was carried out during day and night with the objective to assess the off working noise levels as well.

Table 3-9: Noise Level Test Results

S. No	Time	Unit	March, 2024	September, 2024	WHO Limit	NEQS & BEQS Limits
01	09:00 AM	dB(A)	63.9	62.5	55 dBA (Day time)	55 dBA (Day time)
02	10:00 AM		62.7	61.5		
03	11:00 AM		62.6	63.6		
04	12:00 PM		64.8	62.5		
05	01:00 PM		63.4	61.8		
06	02:00 PM		64.3	62.8		
07	03:00 PM		62.5	63.9		
08	04:00 PM		62.8	62.5		
09	05:00 PM		64.4	63.3		
10	06:00 PM		63.6	64.2		
11	07:00 PM		61.5	63.6		
12	08:00 PM		60.2	58.8		
13	09:00 PM		58.4	56.9		
14	10:00 PM		57.6	58.7		
15	11:00 PM		57.4	53.6	45 dBA (Night time)	45 dBA (Night time)
16	12:00 AM		54.5	54.5		
17	01:00 AM		53.7	53.6		
18	02:00 AM		51.9	53.5		
19	03:00 AM		46.8	45.5		
20	04:00 AM		44.4	46.6		
21	05:00 AM		45.2	48.8		
22	06:00 AM		47.6	43.6		
23	07:00 AM		53.5	55.5	55 dBA (Day time)	55 dB(A) (Day time)
24	08:00 AM		59.4	53.6		
Average Results			57.73	57.3		

76. As evident from the results obtained, the average noise level at all intervals falls within the WHO, BEQS and NEQS limits of 55 and 65 dB(A) set for areas.

3.12.3 Monitoring of Drinking and Waste Water Quality

i. Methodology

77. During the reporting period, drinking water quality of the Contractor's camp was monitored for the agreed parameters given in the SSEMP. High density sterilized polyethylene bottles were used for the sampling. The collected samples were preserved, sealed and chilled at 40°C as recommended. Grab method is used for sampling and preservation of water whereas.

ii. Drinking Water Test Results and Discussion

78. The drinking water demand is being met from bore hole dug out at the camp. At the first instance, water is pumped to elevated storage tank from where it is supplied to the consumer points through a pipe network.
79. Following is the comparison of the results obtained for drinking water parameters as shown in Table 3-10.
80. As evident from the above table, almost all parameters of the drinking water, at the Contractor's camp, fall within the permissible limits set under BEQS, NEQS and WHO limits.

Table 3-10: Drinking Water Quality (Bore Water) Report

S.No	Parameters	Unit	Testing Method	BEQS Limits	NEQS Limits	WHO Limits	Second Quarter	Remarks
1.	Total Bacteria Count	TBC (count/ml)	Total Viable Count	-----	-----	-----	N.D.	-
2.	Total Coliform	TC (count/ml)	APHA 922 B	0/100 ml	0/100 ml	0/100 ml	N.D.	WL
3.	E-Coli	EC (count/ml)	Total Viable Count	0/100 ml	0/100 ml	0/100 ml	N.D.	WL
4.	Facial Coli	FC (count/ml)	APHA 922 B	0/100 ml	0/100 ml	0/100 ml	N.D.	WL
5.	Turbidity	NTU	HACH Turbidity meter	<15	<5	<15	<0.2	WL
6.	Taste	Taste	Sensory Evolution	Obj/Non Obj	Obj/Non Obj	Obj/Non Obj	Non Obj	WL
7.	Odour	Odour	Sensory Evolution	Obj/Non Obj	Obj/Non Obj	Obj/Non Obj	Non Obj	WL
8.	Colour	TCU	Pt-Co method	≤ 15 TCU	≤ 15 TCU	≤ 15 TCU	<1	WL
9.	Phenolic Compounds	As Phenol (mg/L)	ASTM D-1783	-	-	-	N.D.	WL
10.	Residual chlorine	Cl ₂ (mg/L)	HACH Method 8167	0.2-0.5	0.2-0.5	-	0.3	WL
11.	Ph@25° C	PH	ASTM D-1293	6.5 to 8.5	6.5 to 8.5	6.5 to 8.5	7.25	WL
12.	Total Dissolved Solid	TDS (mg/L)	APHA 2540-C	< 1000	< 1000	< 1000	658	WL
13.	Total Hardness	As COCO ₃ (mg/L)	APHA 2340-C	< 500	< 500	-	77	WL
14.	Fluoride	F ₁ (mg/L)	APHA 4500-F ₁	≤ 1.5	≤ 1.5	1.5	0.56	WL

S.No	Parameters	Unit	Testing Method	BEQS Limits	NEQS Limits	WHO Limits	Second Quarter	Remarks
15.	Chloride	CL_1(mg/L)	APHA 4500-Cl_1	< 250	< 250	250	124	WL
16.	Cyanide	CN_1(mg/L)	HACH Method 8027	≤ 0.05	≤ 0.05	0.05	N.D.	WL
17.	Nitrate	NO3_1(mg/L)	HACH Method 8192	≤ 50	≤ 50	50	0.18	WL
18.	Nitrite	NO2_1(mg/L)	APHA 4500-NO2_1-B	≤3.0 (P)	≤3.0 (P)	3	0.15	WL
19.	Antimony	Sb (mg/L)	ASTM D-3697	≤0.005	≤0.005	0.02	N.D.	WL
20.	Aluminium	Al (mg/L)	ASTM D-857	≤0.2	≤0.2	0.2	0.06	WL
21.	Arsenic	As (mg/L)	ASTM D-2972	≤0.05	≤0.05	0.01	N.D.	WL
22.	Boron	B (mg/L)	ASTM D-3082	0.3	0.3	0.3	N.D.	WL
23.	Barium	Ba(mg/L)	ASTM D-4382	0.7	0.7	0.7	0.007	WL
24.	Chromium Total	Cr(mg/L)	ASTM D-1687	≤0.05	≤0.05	0.05	N.D.	WL
25.	Copper	Cu(mg/L)	ASTM D-1688	2	2	2	<0.06	WL
26.	Cadmium	Cd(mg/L)	ASTM D-3557	0.01	0.01	0.03	N.D.	WL
27.	Lead	Pb(mg/L)	ASTM D-3559	≤0.05	≤0.05	0.01	N.D.	WL
28.	Manganese	Mn(mg/L)	ASTM D-858	≤0.5	≤0.5	0.5	N.D.	WL
29.	Mercury	Hg (mg/L)	ASTM D-3223	≤0.001	≤0.001	0.001	N.D.	WL
30.	Nickel	Ni(mg/L)	ASTM D-3866	≤0.05	≤0.02	0.02	N.D.	WL
31.	Selenium	Se(mg/L)	ASTM D-3858	0.01	0.01	0.01	N.D.	WL
32.	Zinc	Zn (mg/L)	ASTM D-1691	5	5	3	0.08	WL

i. Waste Water Test Results and Discussion

81. The wastewater samples, in both the quarters, were collected from the point just near F.C Camp where all wastewater (Washrooms, kitchen, vehicles) and effluents

converges into one outlet. The wastewater quality results presented in Table 3-12 demonstrate that the analyzed parameters generally meet the environmental standards set by NEQS and are within WHO recommended limits.

82. The pH of the sample is slightly alkaline (7.69), which is within the acceptable range of 6 to 9 as per NEQS. The Biological Oxygen Demand (BOD) is recorded at 52 mg/L, which is below the NEQS threshold of 80 mg/L, indicating a relatively low organic load. Similarly, the Chemical Oxygen Demand (COD) value of 123 mg/L is also within the acceptable limit of 150 mg/L, demonstrating a satisfactory level of organic pollutants.
83. In terms of suspended solids, the Total Suspended Solids (TSS) level is recorded at 121 mg/L, which is above the NEQS threshold of 150 mg/L, indicating a slightly elevated level but still under control. The Total Dissolved Solids (TDS) level, at 1325 mg/L, is well within the NEQS limit of 3500 mg/L, indicating a relatively safe level of dissolved materials in the water. Overall, the results indicate a relatively safe discharge, with some areas that may need closer monitoring or treatment to ensure optimal compliance with environmental standards.

Table 3-11: Waste Water Quality Report

S.No	Parameters	Unit	Testing Method	NEQS	Current Results
1.	Temperature at 40 °C	°C	Calibrated Thermometer	40+ ≤03	25
2.	Ph@25° C	PH	ASTM D-1293	6 to 9	7.69
3.	Biological Oxygen Demand (BOD)	Mg/L	APHA 5210	80	52
4.	Chemical Oxygen Demand (COD)	Mg/L	ASTM D-1252	150	123
5.	Total Dissolved Solids	TDS (mg/L)	APHA 2540-C	3500	1325
6.	Total Suspended Solids (TSS)	Mg/L	APHA 2540-D	150	121
7.	Oil & Grease	Mg/L	ASTM D-4281	10	0.06
8.	Chloride	CL_1(mg/L)	ASTM D-512	1000	785
9.	Phenolic Compounds	As Phenol (mg/L)	ASTM D-1783	0.1	N.D.
10.	Fluoride	F_1 (mg/L)	APHA 4500	20	4.6
11.	Anionic Detergent	Det(mg/L)	ASTM D-6173	20	5.7
12.	Selenium	Se2(mg/L)	APHA 4500 Se	0.5	N.D.
13.	Sulphide	Mg/L	APHA 4500	1.0	0.56
14.	Ammonia	Mg/L	ASTM D-1426	40	15.5
15.	Cadmium	Cd(mg/L)	ASTM D-3557	0.1	<0.6
16.	Chromium Trivalent	Cr+3(mg/L)	APHA 3500-Cr	1.0	N.D.
17.	Chromium Hexavalent	Cr+6(mg/L)	APHA 3500-Cr	1.0	0.08
18.	Lead	Pb(mg/L)	ASTM D-3559	0.5	0.6
19.	Mercury	Hg (mg/L)	Kit Method	0.01	N.D.
20.	Nickel	Ni(mg/L)	HACH Dimethylglyoxime Method	1.0	N.D.

S.No	Parameters	Unit	Testing Method	NEQS	Current Results
21.	Silver	(mg/L)	ASTM D-3866	1.0	N.D.
22.	Zinc	Zn (mg/L)	HACH Zineon Method	5.0	0.4
23.	Iron	Mg/L	APHA 3500-Fe	2.0	0.8
24.	Manganese	Mn(mg/L)	APHA 3500-Mn	1.5	0.09
25.	Boron	B (mg/L)	APHA 4500	6.0	0.7
26.	Sulphate	Mg/L	APHA 4500	600	236
27.	Arsenic	As (mg/L)	Palintest Kit	1.0	N.D.
28.	Copper	Cu(mg/L)	HACH Biquinoline Method	1.0	0.06
29.	Chlorine	Mg/L	HACH DPD Method	1.0	N.D.
30.	Aluminium	Al(mg/L)	HACH Eriochrome Cyanine R	N.D.
31.	Total Kjheldal Nitrogen	(mg/L)	Kit Method	0.35
32.	Barium	Ba(mg/L)	ASTM D-4382	1.5	0.76

Note:

BEQS= Baluchistan Environmental Quality Standards

NEQS= National Environmental Quality Standards

WHO= World Health Organization Limits

WL= Within Limit

3.13 WASTE MANAGEMENT

84. The construction activities began after obtaining approval for the Site-Specific Environmental Management Plan (SSEMP) on 9th December 2022. The camp establishment is currently 95% complete. Contractor staff has received assistance in marking the designated area for solid waste management. Signboards were observed during the reporting period, and photographic evidence is provided below.



Solid Waste overflowing bins in Siri Toi Dam Camp site

Figure 3-4: Waste segregation

85. The contractor has provided waste collection bins at various points in the camp and work sites. Consequently, waste is being collected in these bins; however, solid waste has not been disposed off, resulting in overflowing bins. Lack of housekeeping has been observed at the dam site, and the ground has been found to be uneven. Construction wastes, such as plastics and paper, are collected and transported to the designated waste receiving area within the camp.



Lack of housekeeping on the dam site area, and the ground is observed uneven

86. All the excavated materials are used for filling the cut and low areas. Hence, no soil heaps have been observed due to excavation activities.
87. Local communities are usually asked to take away domestic/kitchen waste. Small quantities of waste are left for final disposal. Therefore, wastes are managed at the camp in designated ditches made for a specific purpose.
88. As discussed in the previous section, small quantities of waste, including plastics, cloth pieces, and cartons, have been observed at a few locations due to a windstorm. Such waste can be managed through the provision of improved waste storage areas designated in the campsite.
89. At the waste collection area of the camp, wastes of economic value are segregated and sold to recyclers, while the remaining waste, mostly degradable in nature, is then dumped in a pit near the camp with the approval of the Project Consultant.

Table 3-12- Solid Waste generated at sub-project sites are as under

Sr. #	Name of Sub-Project	Solid Waste generated in Kilograms/day	Types of Waste	Remarks
1	Siri Toi Dam ICB 01	1-1.5 Kg/day	Plastic, polythene bags	Solid waste is preferable reused, recycled and disposed of at designated dumping site.
		1-2.5 Kg/day	Solid waste/ cans etc	
		1-1.5 Kg/day	Bio Degradable Waste	

3.14 HEALTH AND SAFETY

3.14.1 Community Health and Safety

90. The contractor's environmental specialist, assisted by the consultant team, provides adequate training to staff on community health and safety. Signboards are installed at designated spots, curves, and the campsite to control vehicle speed limits. The campsite is barricaded and constantly monitored to ensure that local residents and domestic animals (cows, goats, sheep, and dogs) stay away from the construction area. No incidents related to community health and safety have been reported.
91. The project site is cordoned off, especially in areas where machinery is involved, with barricades and constant monitoring to ensure that local residents, particularly children, stay away from the construction area. Additionally, machinery is not left unattended, especially when running. Drivers receive orientation on safe driving practices to minimize accidents and prevent the spillage of hazardous materials. A Daily Tool Box Talk (TBT) is conducted each morning before starting any activities on the site. The HSE Officer uses daily, weekly, and monthly environmental monitoring checklists to assess various environmental parameters, allowing the environmental staff to take corrective action for any non-conformances observed **Annexure X**.
92. Several safety measures have been implemented on access roads. Signboards are properly installed at necessary locations along the access roads. A traffic management plan is effectively implemented at the sub-project site. Furthermore, entry points to the construction site are limited and monitored to prevent unauthorized access.

3.14.2 Worker Safety and Health

93. The provision of an adequate first aid kit, a medical room, an ambulance, and a medical technician has been ensured during site visits. Construction activities at the camp have minor impacts on the safety and health of workers. Several safety concerns were observed during the construction site visit. The risk of sliding poses a serious hazard to workers. Additionally, non-compliance with scaffolding safety protocols, fall protection measures, and excavator operation safety protocols was detected. Additionally, the contractor has 4WD vehicles to handle any kind of emergency (see Annexure X, Section 5). No significant incidents related to workers' health and safety have occurred during the current reporting period.

3.14.3 Training

94. To continue fostering a culture of HSE excellence, the obligatory training will be conducted in the upcoming reporting period.
95. Aside from the formal trainings, Contractor's Environmentalist and Site supervisors regularly hold toolbox talks before start of work to emphasize the importance of HSE aspect of work. Trainings and awareness campaigns are pivotal part of EMP. These trainings are being conducted at regular intervals in order to keep workers and environment safe. Basic purpose of these sessions is to keep workers well aware about the different risks and hazards associated with site specific construction activities and to make them well effective to respond in any kind of emergency

situation. In the reported months of July - Decembere 2024, total of 27 trainings had been conducted as mentioned in Table 3-14.

Table 3-13: Details of Health and Safety Trainings on Site.

S. No	Topic	Date (d-m-y)
1.	Fire Protection	01-07-2024
2.	Zero Harm	11-07-2024
3.	Equipments, Machines and Tool Guards	19-07-2024
4.	Safe Lifting and Carrying Techniques	24-07-2024
5.	Manual Handling	28-07-2024
6.	Proper Placement	02-08-2024
7.	Importance of PPEs	07-08-2024
8.	Busting / Short Circuits	15-08-2024
9.	Use of PPEs	28-08-2024
10.	Emergency Preparedness	08-09-2024
11.	Fire Extinguisher use	13-09-2024
12.	Handling of Chemical Hazards	18-09-2024
13.	Dust and Dirt	23-09-2024
14.	Emergency Exits and Procedures	26-09-2024
15.	Speed Limit and Seat Belts	01-10-2024
16.	Emergency Response Preparations	08-10-2024
17.	Fire Safety in Kitchen	18-10-2024
18.	Electrical Safety for office equipments	22-10-2024
19.	Equipment Inspection	28-10-2024
20.	Hazards Communication	3-11-2024
21.	Healthy Eating at Work	09-11-2024
22.	Waste Management	14-11-2024
23.	Reducing Office Waste	23-11-2024
24.	Safety Awareness Campagin	26-11-2024
25.	Communication and Collaboration	06-12-2024
26.	Stress Management	15-12-2024
27.	Emergency Response Drill	12-12-2024

3.15 FUNCTIONING OF THE SSEMP

3.16 GOOD PRACTICE AND OPPORTUNITY FOR IMPROVEMENT

- Emergency Assembly Point was designated for worker safety.
- Refueling Station was established as per ADB Safety Guidelines for efficient machinery operations.
- Fire Extinguishers and Fire Buckets were strategically placed for fire safety at the camp.
- Safety Signboards were satisfactorily installed at various locations within the campsite, construction site, and along road diversions on unpaved roads.
- Labor Canteen Facilities were available for workers' convenience, maintaining excellent housekeeping conditions.
- Heavy Machinery Parking Area was designated to ensure organized site operations.
- Site Safety Barricades were in place to prevent workers from entering hazardous areas.

- Usage of LPG Gas Cylinders was observed at the campsite for cooking and other utilities.
 - Medical Facilities: A medical room is set up for first aid and emergency response, and an ambulance is available at the campsite. The dispensary is well-equipped with necessary medicines, equipment, and First Aid kits, all labeled and managed by a qualified male medical technician.
 - On-Site Sanitation: Sanitation at subproject sites is managed with septic tanks for sewage disposal. These tanks are strategically placed near the contractor's camp and discharge into nearby drainage areas.
 - Grievances Register: A grievances register is available at the campsite, with signboards installed at the main entrance to guide individuals on where to record grievances.
 - Additional Facilities: The camp includes a mosque and a material testing laboratory, conveniently located near the main entrance.
96. Overall, these practices contribute to a well-maintained, safe, and organized work environment, enhancing both operational efficiency and worker well-being.

3.17 Opportunities for Improvement

97. To enhance site safety, the contractor must ensure the mandatory use of Personal Protective Equipment (PPE) through regular training, incentives, and penalties for non-compliance. A dedicated, full-time Environment Specialist and HSE Officer should be on-site to monitor safety protocols and address hazards effectively. The scaffolding and fall protection systems must be properly installed and comply with safety standards, with workers receiving comprehensive training on their use. Waste disposal procedures should be more strictly managed, and the assembly point should remain clean and free from obstructions to ensure the site's overall safety and organization.

4 DESCRIPTION OF KARKH VALLEY DEVELOPMENT SUBPROJECT (NCB-01)

4.1 PROJECT DESCRIPTION

98. Karkh valley development subproject consists of three parts: (a) general works – which relate to the Karkh Valley as a whole, (b) weir construction at Jhalaro, and (c) weir rehabilitation at Chutta. Construction of this project will strengthen the existing irrigation system, ensuring availability of water for both cropping seasons. The proposed intervention for the subproject include; (a) guide bund / flood protection works, (b) construction of new Jhalaro weir, (c) weir rehabilitation at Chutta, (d) Rehabilitation of Chutta lift irrigation (pump house), and (e) lining of unlined existing channels. Project Layout is shown in Figure 4-1.

Salient Features:

- Total Revised Cost 1095.932 (Rs. Million)
- Total Command Area 2535 hector
- Jhalaro Weir Rehabilitation & Upgradation
- Chutta Weir Rehabilitation & Upgradation
- Minor Channels Total Length 19,773
- Flood Protection Bund (08 Nos.) Total Length 5,186 Meter

Project Progress:

- Overall Target: 100%
- Physical Progress: 82.20%
- Financial Progress: 80.33%

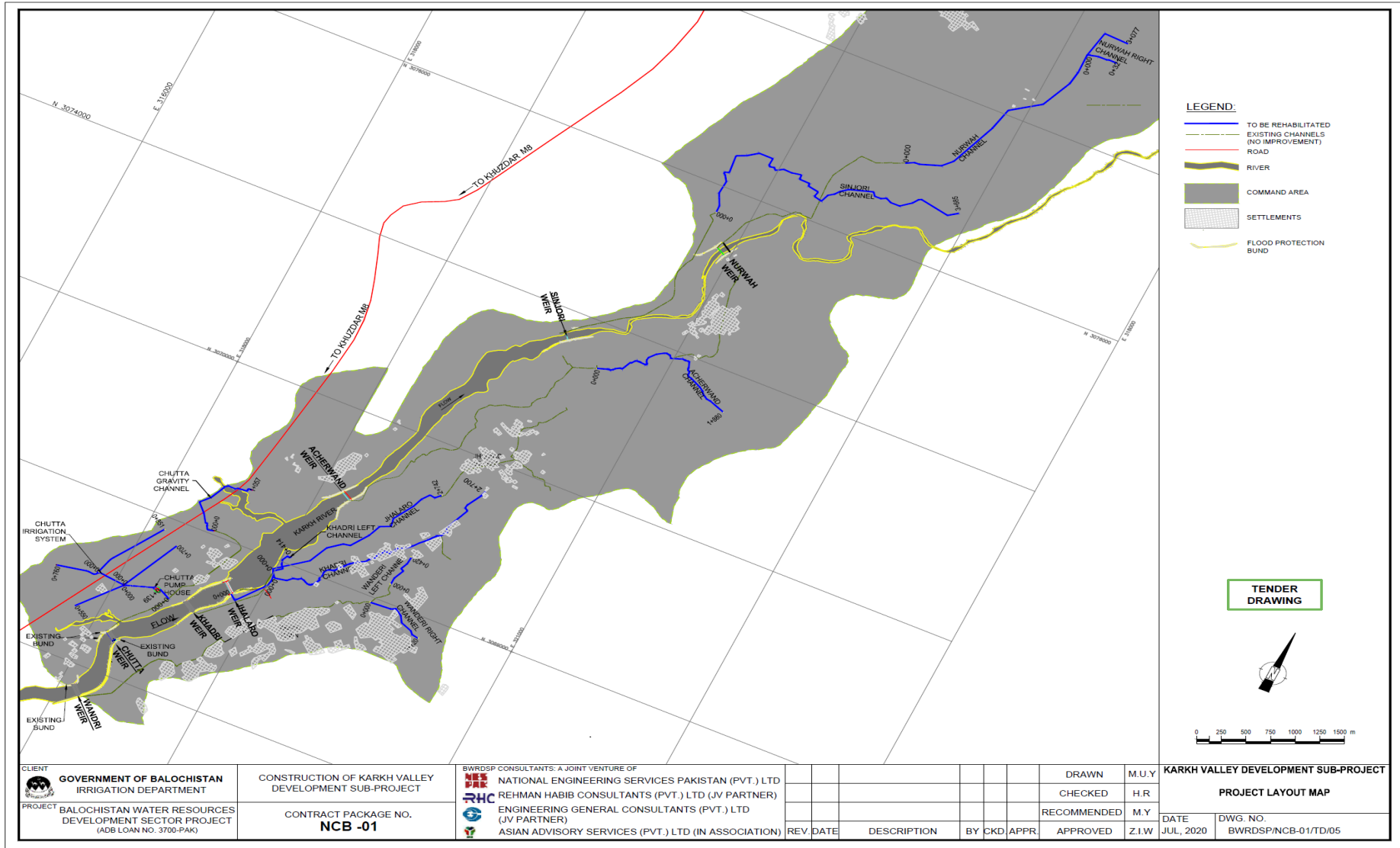


Figure 4-1: Layout Map

4.2 ACTIVITIES DURING CURRENT REPORTING PERIOD

99. Construction works of BWRDSP/NCB-01 is in progress. The details of Construction activities are given in Table-4-1

Table 4-1: Details of ongoing construction activities.

S.No.	Description	Construction Activities	Location
01	Bund 1	15 layers done	0+600 to 0+850
02	Chutta left sump 1	Culvery	0+000 to 0+366
03	Chutta gravity	RCC topslab of superpassage	Null
04	Bund 4	Excavation and RCC bed of culvert	0+000 to 0+215
05	Wandhri right side	Excavation and RCC bed of culvert	0+000 to 0+437
06	Chutta weir	D/S stone apron	Null
07	Wanddheri right side	Excavation of nalla crossing and wingwalls	0+000 to 0+350

Construction Material

100. Major construction materials used at NCB-01 include reinforced steel, steel pipes, cement, sand and coarse aggregates supplied from the approved sources as mentioned in the SSEMP. Sources of construction materials and quantities used are listed in Table 4-2 below.

Table 4-2- Detail of material and sources of Siri Toi Dam sub-project NCB 01

Sr. No.	Name of Material	Source of Material	Quantities Used
1	Cement	Power D.G Lucky	800 bags
2	Steel	Amreli, Naveena and Faizan	30 Tons
3	Earth work	Borrow Material from site	Record awaited
4	Crush, Aggregate	Karkh Valley	14,784 (cft)
5	Sand	Wangu River	12,781(cft)
6	Stone	Karkh Valley	

Human Resources

101. As a contractor, prioritizing the hiring of local staff—both skilled and unskilled—is a key responsibility. This approach ensures that people living near the project area benefit economically, improving their socio-economic status and addressing unemployment. The hiring details for skilled and unskilled workers are outlined in Table4-3

Table 4-3- Manpower Technical/skilled/ unskilled staff details

Designation	Number
Project Manager	1
Chief Surveyor/Quantity Surveyor	1
Environmental Specialist/HSE Advisor	1
Surveyor	2
Surveyor Helper	2
General Forman	3

Designation	Number
Material Engineer	1
Lab Technician	1
Lab Helper	1
AutoCAD Operator	1
Accountant	1
Storekeeper	1
Procurement Officer	1
Supervisor	3
Mechanic	1
Auto Electrician	1
Batching Plant Operator	1
Batching Plant Helper	1
Crush Plant Operator	1
Crush Plant Helper	1
Heavy Machinery Operator	9
Heavy Machinery Helper	10
Diesel Store	1
Security Guard	11
Cook	3
Cook Helper	1
Labor	13
Total	74

Equipment Machinery

102. List of machinery deployed at NCB-01 is provided in Table 4-4.

Table 4-4: List of Machinery/Equipment's

S. No	Name of Machinery	Number
01	Grader	1
02	Vib Roller	1
03	Dumper	5
04	Excavator	6
05	Crane	1
06	Loader	2
07	Water Bowser	3
08	Vibrator	6
09	Batching Plant	1
10	Heavy Generator	1
11	Light Generator	2
12	Lite Vehicle	6
13	Transit Mixer	2
14	Hand Mixer	1
15	Water Pump	4
16	Tractor Blade	1
17	Tractor Tralli	1
18	Tractor Water Tank	1
19	Diesel Tank	1

4.3 DESCRIPTION OF ANY CHANGES IN NCB-01 DESIGN

103. During the reporting period, no changes were made in the design of NCB-01.

4.4 DESCRIPTION OF ANY CHANGES TO AGREED CONSTRUCTION METHODS

104. The construction activities at various sections of Site are in progress in accordance with the Engineer's approved methodology and specifications

Works Progress in Pictures



4.5 ENVIRONMENTAL SAFEGUARD ACTIVITIES

4.5.1 General Description of Environmental Safeguard Activities

105. During the reporting period, the Contractor carried out multiple construction activities. At Bund 1, fifteen layers of work were completed from 0+600 to 0+850. At Chutta left sump 1, culvert construction was executed from 0+000 to 0+366. The RCC topslab of the superpassage was completed at Chutta gravity. Excavation and RCC bed construction of culverts were undertaken at Bund 4 (0+000 to 0+215) and Wandhri right side (0+000 to 0+437). Additionally, a downstream stone apron was placed at Chutta weir. At Wanddheri right side, excavation work for the nalla crossing and wingwalls was carried out from 0+000 to 0+350. The environmental safeguard aspect

of these activities was accordingly supervised and monitored in compliance with the provisions of the approved SSEMP in specific and EMP in general.

106. Sample filled check lists used during supervision of environmental safeguard activities are attached as **Annexure V & VI**.
107. The Personal Protective Equipment (PPE) like safety helmets, high viz jackets, gloves, shoes etc. were not sufficiently provided to the project staff including skilled and unskilled labour.
108. During this reporting period, the Contractor organized several HSE trainings for the workers as mentioned in Table 4-14. These sessions included training on safety measures related to steel fixing, cutting, loading, and unloading, as well as training on the importance of safety gadgets. Additionally, there was a focus on emphasizing the use of safety gadgets to enhance overall safety at the worksites.
109. Throughout the reporting period, toolbox talks and staff induction orientations were consistently conducted as part of routine activities.

4.5.2 Corrective Action Plans (CAPs):

110. During the reporting period, the Environment Specialist of PIC/SC conducted regular visits and monitored the project for the implementation of the Environmental Management Plan (EMP). As a result of these visits, Corrective Action Plans (CAPs) have been prepared for EMP non-compliance on Karkh valley development, subproject. The details of these CAPs are provided in the Table 4-6 below.

Table 4-5- Karkh valley development sub-project Corrective Action Plan

Sr. No	EMP Observations	Corrective Measures	Implementing Responsibility	Monitoring Responsibility	Timeline	Updated Status Closed/open
1	Use of PPE's including Helmets, gloves, safety vests not being ensured	Implementation of health and safety measures shall be enforced and wearing of PPE be ensured during construction activities. Wearing of safety boots by all workers should be ensured. Number of safety jackets should be increased /maximize and provide to all workers.	Contractor	CSC	Immediately	Open
2	HSE Training/Tool Box Talks are not being conducted	Contractor HSE Officer should conduct HSE Training/Tool	Contractor	CSC	7 January 2025	Open

Sr. No	EMP Observations	Corrective Measures	Implementing Responsibility	Monitoring Responsibility	Timeline	Updated Status Closed/open
		Box Talks on regular basis				
3	Improper Toilet facilities with unhygienic condition	Washrooms should be with sufficient facilities and hygienic condition	Contractor	CSC	Immediately	Open
4	Solid waste not being managed properly	Implement a waste management system and ensure solid waste is collected and disposed of properly in designated bins	Contractor	CSC	5 January 2025	Open
5	Poor hygiene condition in the kitchen and Camp	Maintain cleanliness and hygiene in all kitchen areas and camp, with regular checks and cleaning schedules	Contractor	CSC	5 January 2025	Open
11	Barricading of construction site	Sites should be barricaded especially at borrow areas and areas where construction activities are being carried on	Contractor	CSC	30 th June 2024	Closed
12	Generators were not kept properly.	Generators needs to be placed at concrete platform with trays to trap oil.	Contractor	CSC	15 th June 2024	Open

*Pictorial Evidences for closed issues are mentioned as annexure IX

4.6 Issues Tracking (Based on Non-Conformance Notices) .

111. PPE non-compliance was observed on-site, with workers not using the required helmets, gloves, safety vests, and safety boots. The Contractor was instructed to enforce the use of PPE and ensure that safety jackets are adequately provided. Additionally, HSE training and Toolbox Talks were not being conducted regularly. The Contractor's HSE Officer was directed to ensure these sessions are held routinely to maintain safety compliance. The toilet facilities were found to be inadequate and unhygienic, prompting the Contractor to improve the washrooms, ensuring they are properly equipped and maintained. Solid waste management was also inadequate, with improper disposal practices in place. The Contractor was instructed to implement a proper waste management system and ensure waste is disposed of in designated bins. Finally, poor hygiene was observed in the kitchen and camp areas, leading to the directive for the Contractor to maintain cleanliness with regular checks and cleaning schedules.

4.7 Grievance Redressal Mechanism.

112. As detailed in the SSEMP, Grievance Redressal Committees (GRCs) at field and project levels with composition thereof have already been notified and are functional.
113. Local community always welcome field staff and feel much satisfied as their project related social issues are resolved at top most priority. Complaint register is available inside camp to receive complaints from local community / project affecter's and contractor's staff.
114. During the reporting period, no complaints were registered against the environmental safeguard aspect of the Works under NCB-01.

4.8 UNANTICIPATED ENVIRONMENTAL IMPACTS OR RISKS.

115. During the reporting period, neither unanticipated environmental impacts were observed nor reported by the Contractor.

4.9 MONITORING OF AIR, NOISE AND WATER AT KARKH VALLEY

4.9.1 Ambient Air Monitoring

i. Methodology and Instrument Used

116. Ambient air quality monitoring was carried out at batching plant and camp siite for the assessment of Parameters (Temperature, Humidity, PM2.5, PM10, CO, SO2, NO2, O2, Formaldehyde, Total Volatile Organic Compounds (TVOC), O3 etc). The Air Quality Monitoring Station (AQMS-09), employed for PM10 & PM2.5, is a fully integrated air monitoring station that delivers 'near reference levels' of performance parameters. With a size of large suitcase, it can measure up to 20 different gaseous and particulate pollutants and environmental parameters simultaneously. The AQMS 09 offers optimal balance between performance and measuring criteria pollutants.

ii. Test Results and Discussion

117. Ambient air quality (Temperature, Humidity, PM1.0, PM2.5, PM10, CO, SO2, NO2, O2, Formaldehyde, Total Volatile Organic Compounds (TVOC), O3) were monitored for twenty-four (24) hours at the locations identified by the SC and results obtained are shown in Table 4-7. PM2.5, PM10 were within NEQs but levels exceeded stringent WHO standards, primarily due to dust accumulation near the monitoring points. The contractor has been instructed to strictly follow SSEMP recommendations, particularly regarding water sprinkling in dust-prone areas. Signed copies of the results are attached as **Annexure-XI**.

Table 4-6: Ambient Air Quality at Batching Plant(31°36'32.77"N, 69°16'33.46"E)

S.No	Measuring Parameters	Unit	First Quarter	Second Quarter	NEQS Limits	WHO Limits
1.	Temperature	°C	29	30		

S.No	Measuring Parameters	Unit	First Quarter	Second Quarter	NEQS Limits	WHO Limits
2.	Humidity	%	52	52		
3.	Particulate Matter (PM 1.0)	µg/m ³	40	39	500	WL
4.	Particulate Matter (PM 2.5)	µg/m ³	29.3	29.5	35 (24 hrs.)	15(24 hrs.)
5.	Particulate Matter (PM 10)	µg/m ³	63.1	66.4	150 (24 hrs.)	45(24 hrs.)
6.	Carbon Monoxide (CO)	mg/m ³	ND	ND	10 (08 hrs.)	4(24 hrs.)
7.	Sulphur Dioxide (SO ₂)	µg/m ³	ND	ND	120 (24 hrs.)	40(24 hrs.)
8.	Oxide of Nitrogen as (NO ₂)	µg/m ³	ND	ND	80 (24 hrs.)	25(24 hrs.)
9.	Oxygen O ₂	%	19.7	19.7	-	
10.	Formaldehyde	µg/m ³	0.168	0.163	-	
11.	Total Volatile Organic Compounds (TVOC)	µg/m ³	0.234	0.233	-	
12.	Ozone (O ₃)	µg/m ³	ND	ND	130 (01 hr.)	60(Peek Season)

118. All the results are within the permissible limits and compliance with the BEQS and NEQS. However, it is worth noting that during the first quarter, the contractor has not performed quarterly monitoring at the sub-project sites.
119. Considering the compliance with NEQS there is no immediate need for additional mitigation measures to control dust, apart from the measures proposed in the SSEMP. These measures may include regular sprinkling of water to suppress dust and timely transportation or disposal of excess materials temporarily stored at the site.
120. It is important to regularly monitor and assess the dust levels and compliance with environmental standards throughout the project's implementation to ensure continued adherence to regulations and to address any potential concerns that may arise.

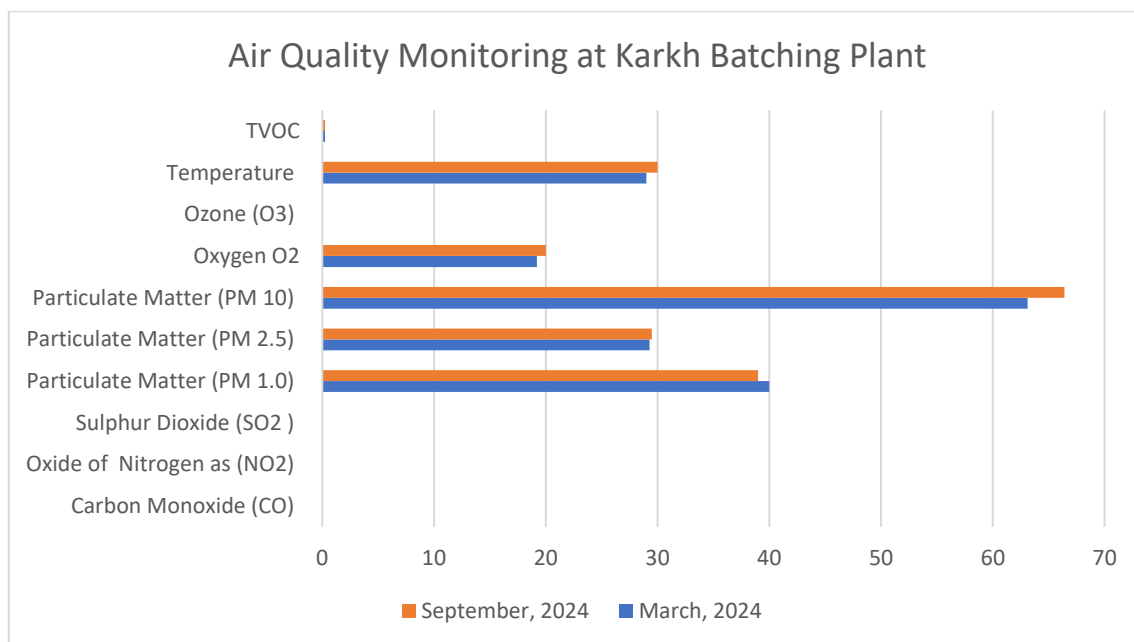


Figure 4-2: Ambient Air Quality at Karkh Batching Plant Site

Table 4-7: Ambient Air Quality at Camp site

Sr. No.	Measuring Parameters	Unit	First Quarter	Second Quarter	NEQS Limits	Remarks
1.	Temperature	°C	32	31		
2.	Humidity	%	56	55		
3.	Particulate Matter (PM 1.0)	µg/m ³	41	42	500	WL
4.	Particulate Matter (PM 2.5)	µg/m ³	31.8	30	35 (24 hrs.)	WL
5.	Particulate Matter (PM 10)	µg/m ³	74	73	150 (24 hrs.)	WL
6.	Carbon Monoxide (CO)	mg/m ³	ND	ND	10 (08 hrs.)	WL
7.	Sulphur Dioxide (SO ₂)	µg/m ³	ND	ND	120 (24 hrs.)	WL
8.	Oxide of Nitrogen as (NO ₂)	µg/m ³	ND	ND	80 (24 hrs.)	WL
9.	Oxygen O ₂	%	19.2	20	-	
10.	Formaldehyde	µg/m ³	0.169	0.167	-	
11.	Total Volatile Organic Compounds (TVOC)	µg/m ³	0.233	0.239	-	
12.	Ozone (O ₃)	µg/m ³	ND	ND	130 (01 hr.)	WL

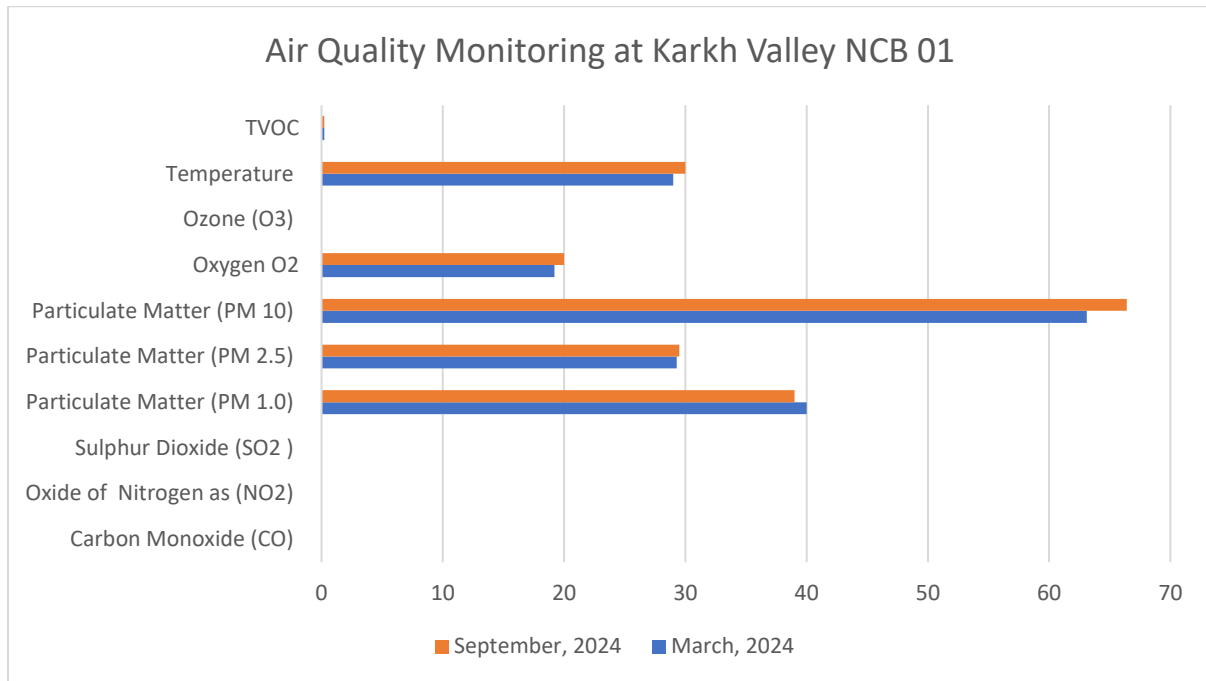


Figure 4-3: Graphical representation of Ambient Air Quality at Karkh Camp site

4.9.2 Noise Monitoring

121. The twenty-four (24) hours noise level monitoring was carried out at camp site and batching plant of Karkh Valley Development sub-project NCB-01 by using Digital Noise level meter.

i) Test Results and Discussion

122. The comparison of noise level monitoring results obtained during the instrumental monitoring are shown in Table 4-9 below.

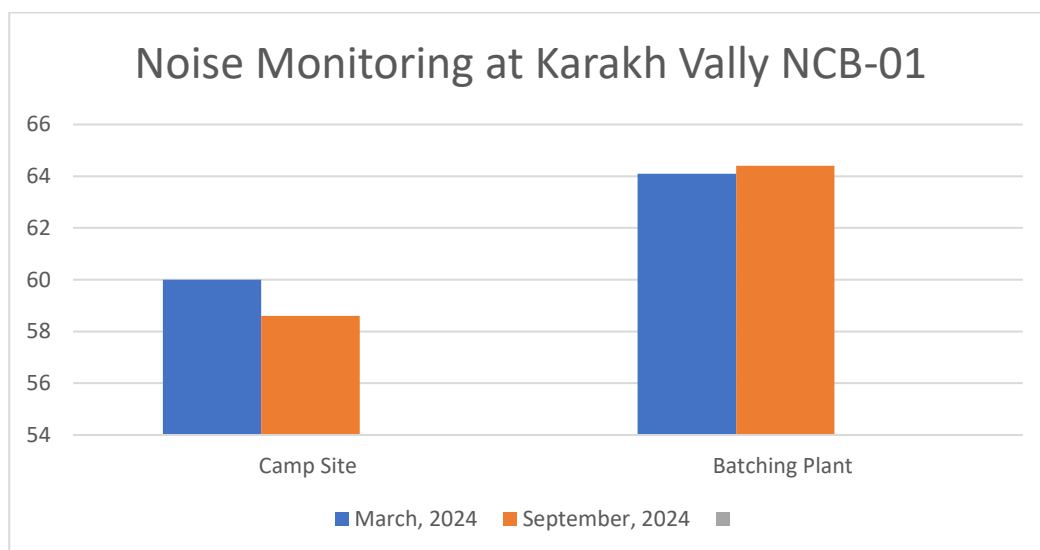


Figure 4-4: Graphical representation of Noise Monitoring at Karakh Vally NCB-01

Table 4-8: Noise Monitoring Test Results

Sr. No	Location	Unit	Method	First Quarter	Second Quarter	NEQS Limits	WHO Limit
1.	Camp Site	dB	ASTM E1686-16	60	58.6	55	55 dB(A)
2.	Batching Plant	dB	ASTM E1686-16	64.1	64.1	55	55 dB(A)

123. The noise level monitoring at sites was carried out during day and night with the objective to assess the off working noise levels as well. The noise levels were high due to the operation of the batching plant and windy environmental conditions...

4.9.3 Monitoring of Drinking/Tap Water Quality and Waste Water

i) Methodology

124. During the reporting period, drinking/Tap water quality and waste water quality of the Contractor's camp was monitored for the agreed parameters given in the SSEMP. High density sterilized polyethylene bottles were used for the sampling. The collected samples were preserved, sealed and chilled at 40°C as recommended. APHA-1060 B & C method is used for sampling and preservation of water whereas.

ii) Drinking Water Test Results and Discussion

125. The drinking water demand is being met from Tubewell located near the contractor camp. At the first instance, water is pumped to elevated storage tank from where it is supplied to the consumer points through a pipe network. The drinking water monitoring results at both the source and consumer end show that the water quality is generally in compliance with WHO and NEQS standards. Parameters such as Total Coliform, E. Coli, and Fecal Coliform are all non-detectable (ND) in both quarters, indicating the absence of microbial contamination. Turbidity, taste, odor, and color are also within acceptable limits. Residual chlorine levels are slightly inconsistent, as it was detected in the source water but not at the consumer end. Chemical parameters, including fluoride, chloride, TDS, and hardness, are within the recommended limits. Overall, the water quality is safe for consumption, with a few minor areas requiring attention.

Table 4-9: Drinking Water Monitoring at Source

S.No	Parameters	Unit	WHO Limits	NEQS Level	First Quarter	Second Quarter
1.	Total Coliform	TC (count/ml)	Must not be detectable in any 100 ml sample	0/100 ml	ND	ND
2.	E-Coli	EC (count/ml)	Must not be detectable in any 100 ml sample	0/100 ml	ND	ND

S.No	Parameters	Unit	WHO Limits	NEQS Level	First Quarter	Second Quarter
3.	Fecal Coliform	FC (count/ml)	Must not be detectable in any 100 ml sample	0/100 ml	ND	ND
4.	Turbidity	NTU	< 5	<5	<1	<1
5.	Taste	Taste	Non-Objectionable / Acceptable	Obj/Non Obj	Non-Obj	Non-Obj
6.	Odour	Odor	Non-Objectionable / Acceptable	Obj/Non Obj	Non-Obj	Non-Obj
7.	Colour	TCU	≤ 15	≤ 15 TCU	ND	< 03
8.	Phenolic Compounds	As Phenol (mg/L)	-	-	ND	ND
9.	Residual chlorine	Cl ₂ (mg/L)	-	0.2-0.5	0.2	ND
10.	ph@25° C	PH	6.5-8.5	6.5 to 8.5	7.78	8.10
11.	Total Dissolved Solid	TDS (mg/L)	< 1000	< 1000	326	457
12.	Total Hardness	As COCO ₃ (mg/L)	-	< 500	304	240
13.	Fluoride	F ₁ (mg/L)	1.5	≤ 1.5	0.16	0.22
14.	Chloride	CL ₁ (mg/L)	250	< 250	19.99	207.93
15.	Cyanide	CN ₁ (mg/L)		≤ 0.05	ND	ND
16.	Nitrate	NO _{3_1} (mg/L)	50	≤ 50	0.3	0.22
17.	Nitrite	NO _{2_1} (mg/L)	3	≤3.0 (P)	0.004	0.03
18.	Antimony	Sb (mg/L)	0.02	≤0.005	ND	ND
19.	Aluminum	Al (mg/L)	0.2	≤0.2	ND	ND
20.	Arsenic	As (mg/L)	0.01	≤0.05	ND	ND
21.	Boron	B (mg/L)	0.3	0.3	ND	ND
22.	Barium	Ba(mg/L)	0.7	0.7	ND	0.006
23.	Chromium	Cr(mg/L)	0.05	≤0.05	ND	ND
24.	Copper	Cu(mg/L)	2	2	<0.06	<0.04
25.	Cadmium	Cd(mg/L)	0.003	0.01	ND	ND
26.	Lead	Pb(mg/L)	0.01	≤0.05	ND	ND
27.	Manganese	Mn(mg/L)	0.5	≤0.5	ND	ND
28.	Mercury	Hg (mg/L)	0.001	≤0.001	ND	ND
29.	Nickel	Ni(mg/L)	0.02	≤0.02	ND	ND
30.	Selenium	Se(mg/L)	0.01	0.01	ND	ND
31.	Zinc	Zn (mg/L)	3	5	ND	0.0100

Table 4-10: Drinking/Tap Water Monitoring at Consumer End

S.No	Parameters	Unit	WHO Standards	NEQS	Current Results	Previous SAEMR
1.	Total Bacteria Count	TBC (count/ml)	-	0/100 ml	02	ND
2.	Total Coliform	TC (count/ml)	Must not be detectable in any 100 ml sample	0/100 ml	ND	ND
3.	E-Coli	EC (count/ml)	Must not be detectable in any 100 ml sample	0/100 ml	ND	ND
4.	Fecal Coliform	FC (count/ml)	Must not be detectable in any 100 ml sample	0/100 ml	ND	ND
5.	Turbidity	NTU	< 5	<5	<1	<1
6.	Taste	Taste	Non-Objectionable / Acceptable	Obj/Non Obj	Non-Obj	Non-Obj
7.	Odour	Odor	Non-Objectionable / Acceptable	Obj/Non Obj	Non-Obj	Non-Obj
8.	Colour	TCU	≤ 15	≤ 15 TCU	02	01
9.	Phenolic Compounds	As Phenol (mg/L)	-	-	ND	ND
10.	Residual chlorine	Cl ₂ (mg/L)	-	0.2-0.5	ND	ND
11.	Ph@25° C	PH	6.5-8.5	6.5 to 8.5	7.76	7.34
12.	Total Dissolved Solid	TDS (mg/L)	< 1000	< 1000	390	322
13.	Total Hardness	As COCO ₃ (mg/L)	-	< 500	284	180
14.	Fluoride	F ₁ (mg/L)	1.5	≤ 1.5	0.54	0.22
15.	Chloride	CL ₁ (mg/L)	250	< 250	97.96	119.96
16.	Cyanide	CN ₁ (mg/L)		≤ 0.05	ND	ND
17.	Nitrate	NO _{3_1} (mg/L)	50	≤ 50	0.6	0.10
18.	Nitrite	NO _{2_1} (mg/L)	3	≤3.0 (P)	0.007	0.02
19.	Antimony	Sb (mg/L)	0.02	≤0.005	ND	ND
20.	Aluminum	Al (mg/L)	0.2	≤0.2	ND	ND
21.	Arsenic	As (mg/L)	0.01	≤0.05	ND	ND
22.	Boron	B (mg/L)	0.3	0.3	ND	ND
23.	Barium	Ba(mg/L)	0.7	0.7	ND	ND
24.	Chromium Total	Cr(mg/L)	0.05	≤0.05	ND	ND
25.	Copper	Cu(mg/L)	2	2	ND	0.0050
26.	Cadmium	Cd(mg/L)	0.003	0.01	0.0045	ND

S.No	Parameters	Unit	WHO Standards	NEQS	Current Results	Previous SAEMR
27.	Lead	Pb(mg/L)	0.01	≤0.05	ND	ND
28.	Manganese	Mn(mg/L)	0.5	≤0.5	0.1001	ND
29.	Mercury	Hg (mg/L)	0.001	≤0.001	ND	ND
30.	Nickel	Ni(mg/L)	0.02	≤0.02	ND	ND
31.	Selenium	Se(mg/L)	0.01	0.01	ND	ND
32.	Zinc	Zn (mg/L)	3	5	0.1634	ND

iii) Waste Water Test Results and Discussion

126. The waste water samples, were collected from the camp where all effluent converges into one outlet. Lab analysis results have been shown in Table 4-12 below

Table 4-11: Waste Water Monitoring at Camp site

S.No	Parameters	Unit	Testing Method	NEQS	First Quarter	Second Quarter
1.	Temperature	°C	APHA 2550	≤3	31	30
2.	Ph@25° C	PH	APHA 4500 H	6 to 9	7.89	6.48
3.	Sulphide	Mg/L	APHA 4500 H-B	1	<1	<1
4.	Biological Oxygen Demand (BOD)	Mg/L	HACH 10099	80-250	40	43
5.	Chemical Oxygen Demand (COD)	Mg/L	HACH 8000	150-400	80	92
6.	Total Dissolved Solid	TDS (mg/L)	APHA 2540-C	< 1000	490	636
7.	Total Suspended Solids (TSS)	Mg/L	APHA 2540-C	200	161	186
8.	Oil & Grease	Mg/L	ASTM D-3921	10	02	03
9.	Cadmium	Cd(mg/L)	APHA 3111-B	0.01	0.0039	0.0125
10.	Copper	Cu(mg/L)	APHA 3111-B	2	0.0058	0.0138
11.	Iron	Mg/L	APHA 3111-B	8	0.0134	0.0141
12.	Lead	Pb(mg/L)	APHA 3111-B	≤0.05	ND	ND
13.	Manganese	Mn(mg/L)	APHA 3111-B	≤0.5	0.0051	0.0067
14.	Mercury	Hg (mg/L)	APHA 3112-B	≤0.001	ND	ND
15.	Nickel	Ni(mg/L)	APHA 3111-B	≤0.02	0.0241	0.0225
16.	Selenium	Se(mg/L)	APHA 3114-B	0.01	ND	ND
17.	Chromium Total	Cr(mg/L)	APHA 3111-B	≤0.05	0.0042	0.0091
18.	Zinc	Zn (mg/L)	APHA 3111-B	5	ND	ND
19.	Arsenic	As (mg/L)	APHA 3114-B	≤0.05	ND	ND
20.	Chlorine	Mg/L	HACH 10069	1.0	ND	ND
21.	Chloride	CL_1(mg/L)	APHA 4500-Cl_1	1000	299.81	317.90
22.	Cyanide	CN_1(mg/L)	HACH Method 8027	≤ 0.05	0.003	0.003

S.No	Parameters	Unit	Testing Method	NEQS	First Quarter	Second Quarter
23.	Fluoride	F_1 (mg/L)	HACH 8029	10	0.17	0.23
24.	Ammonia	Mg/L	HACH 8038	40	0.37	0.46
25.	Sulphate	Mg/L	HACH 8051	600	74	106
26.	An Ionic Detergent As MBAS	Mg/L	APHA 5540 C	20	ND	02
27.	Phenolic Compounds	As Phenol (mg/L)	ASTM D-1783	0.1	ND	ND
28.	Boron	B (mg/L)	HACH 8015	6	ND	ND
29.	Barium	Ba(mg/L)	HACH 8014	1.5	ND	ND
30.	Silver	(mg/L)	APHA 3114-B	1.0	ND	ND

127. All, the results of the effluent parameters tested, fall within the permissible limits of NEQS.

4.9.4 Monitoring of Gaseous and Vehicles Emission

i) Methodology

128. During the reporting period, generator and vehicles emissions were monitored at the camp and construction site for the agreed parameters as given in the SSEMP. All lab results are provided as Annexure VIII.

4.10 WASTE MANAGEMENT

129. The Contractor has selected a designated area for waste disposal, approximately 2 kilometers away from Karkh city. The selected area naturally has a ditch shape where waste is dumped for disposal.

a. Kitchen and General/Domestic Waste

130. Kitchen and domestic waste is generated from all camp sites, offices, and construction sites of the project. Dustbins are provided in offices and camp residences, and they are regularly monitored and emptied by contractor staff or sweepers. However, waste is not being disposed of in a designated area, and housekeeping conditions are very poor. The kitchen's hygienic condition is also inadequate, with wood being used for cooking instead of LPG. Additionally, empty cement bags and other associated items from construction activities have been sold to a local vendor.

b. Hazardous Waste – Medical Waste and Oily Waste

131. Medical waste is generated from the first aid facilities on the construction sites, whereas oily empty drums are generated from the construction activities of the project. The medical waste generated from all the construction sites is collected and disposed of in a designated ditch or landfill located away from the project site. Hazardous waste collected in drums is being transported to disposal sites using a vehicle. Additionally, hazardous waste like oily drums is kept at the campsite until it becomes completely dry. Subsequently, these dry drums will be sold to third-party junk dealers accordingly.

Figure 4-5: Waste Segregation at Camp site**Waste bins on Karkh Camp site****Table 4-12- Solid Waste generated at sub-project sites are as under**

Sr. #	Name of Sub-Project	Solid Waste generated in Kg/day	Types of Waste	Remarks
1	Karkh Valley Development NCB 01	0.47 Kg/day	Plastic Waste (kg)	Solid waste is preferable reused, recycled and disposed off at designated dumping site.
		1.8 Kg/Days	Biodegradable waste (Vegetables, Food etc.) (Kg)	
		0.5 Nos./day	Used Tyres (Nos.)	Stored in junk yard for auction
		31.07 ltr/day	Used Engine Oil (ltr)	Stored in barrels Used for Shuttering lubrication

4.11 HEALTH AND SAFETY

Community Health and Safety

132. The unpaved service roads used by the Contractor's vehicles are regularly sprinkled to suppress dust and protect general commuters from the related impact and diseases. To avoid noise disturbance at night, no construction activities are carried out during nighttime.

Worker Safety and Health

133. For the construction workers, the Contractor has conducted trainings on safety issues with practical demonstrations of responses in case of any emergency. Before starting the work, toolbox talks focusing on HSE related issues were regularly held. The availability of First Aid Boxes is being ensured to provide emergency medical assistance in case of any incidents. The Contractor has also ensured the supply of clean drinking water to the workers, both at the camp and at the sites. The Contractor's camp is equipped with all basic necessities, including accommodation, dining halls, sanitation facilities, etc. (Annexure VIII, Section 3. It was observed that PPE (Personal

Protective Equipment) compliance is being practiced at the site, which reflects a positive safety culture. Workers were generally equipped with the required PPE, and its usage was consistent with the safety protocols outlined in the SSEMP. Additionally, safety signboards were not installed at the site, which could lead to potential hazards due to the lack of proper warnings and guidelines.

4.11.1 Training

134. Trainings and awareness campaigns are pivotal part of EMP. These trainings are being conducted at regular intervals in order to keep workers and environment safe. Basic purpose of these sessions is to keep workers well aware about the different risks and hazards associated with site specific construction activities and to make them well effective to respond in any kind of emergency situation. In the reported month, following training has been conducted. During these training session, awareness regarding the work, safety precautions during steel cutting and fixing. In this training session workers are trained and instructed how to deal with the community. Site In-Charges are instructed to keep eyes on children and elder people during heavy machinery operation. Onsite Training Photographs of Karkh Valley Sub-Project NCB 01 have been attached as **Annexure VII**. In the reported months of July to December 2024, following trainings had been conducted as mentioned in Table 4-14.

Table 4-13: Details of Health and Safety Trainings on Site.

S. No	Location	Topic	Date (d-m-y)
1	Workers Camp site	Safety Measures during Shuttring Work	16-07-2024
2		Food Safety and Hygien	09-08-2024

4.12 FUNCTIONING OF THE SSEMP

4.12.1 Good Practice And Opportunity For Improvement

- The establishment of the Contractor's camp is in compliance with the permissible standards and parameters
- The presence of an HSE officer on-site is ensured
- The contractor's HSE officer properly maintains daily Toolbox Talks (TBT) with workers before starting any working activity.
- Cutting of trees for firewood is avoided as LPG is used instead of fuel wood.
- A complaint register is placed at the project site, and no complaint/conflict has been observed.
- A good liaison is established between PMO, Supervisory consultant, and contractor to ensure adherence to environmental safeguard guidelines.
- Monthly and weekly environmental monitoring checklists are timely submitted to the Supervision Consultant in the monthly Environmental Monitoring Report (Annexure I-VI).
- The use of PPE's by workers was noticed as a good practice.

135. Overall, these practices contribute to a well-maintained, safe, and organized work environment, enhancing both operational efficiency and worker well-being.

4.12.2 Opportunities For Improvement

136. To improve worker safety, the contractor must enforce strict health and safety measures, particularly focusing on mandatory PPE usage such as safety boots and jackets. Regular HSE training and Tool Box Talks should be conducted to increase safety awareness among the workers. Washroom facilities must be well-maintained, and a structured waste management system should be implemented for proper disposal of waste. Additionally, the cleanliness and hygiene of kitchen areas and worker camps should be maintained through routine inspections and cleaning schedules to ensure worker well-being.

5 DESCRIPTION OF KHARZAN HATACHI INFILTRATION GALLERY SUBPROJECT (NCB-02)

5.1 PROJECT DESCRIPTION

137. The proposed interventions for the subproject include: (a) Construction of two infiltration galleries, (b) Construction and rehabilitation of a water conveyance system and associated structures, (c) flood protection works for irrigation canals, construction of a project support facility building at Khuzdar city and command area development works. The sub-project is aimed at rehabilitating and improving damaged infrastructure to enhance the size of the command area with irrigation facilities. Project Layout is shown in Figure 5-1.

SALIENT FEATURES:

- | | |
|-----------------------------------|---------------------------|
| • Total Revised Cost | 1091.806 (Rs. Million) |
| • Total Command Area | 1144 hector |
| • Infiltration Gallery | Total Length 1310 Meter |
| • Conduit Length | Total Length 2983 Meter |
| • Canals Length | Total Length 42,231 Meter |
| • Flood Protection Bund (04 Nos.) | Total Length 7153 Meter |

PROJECT PROGRESS:

- | | |
|-----------------------|---------|
| • Overall Target: | 100.00% |
| • Physical Progress: | 81.50% |
| • Financial Progress: | 71.86% |

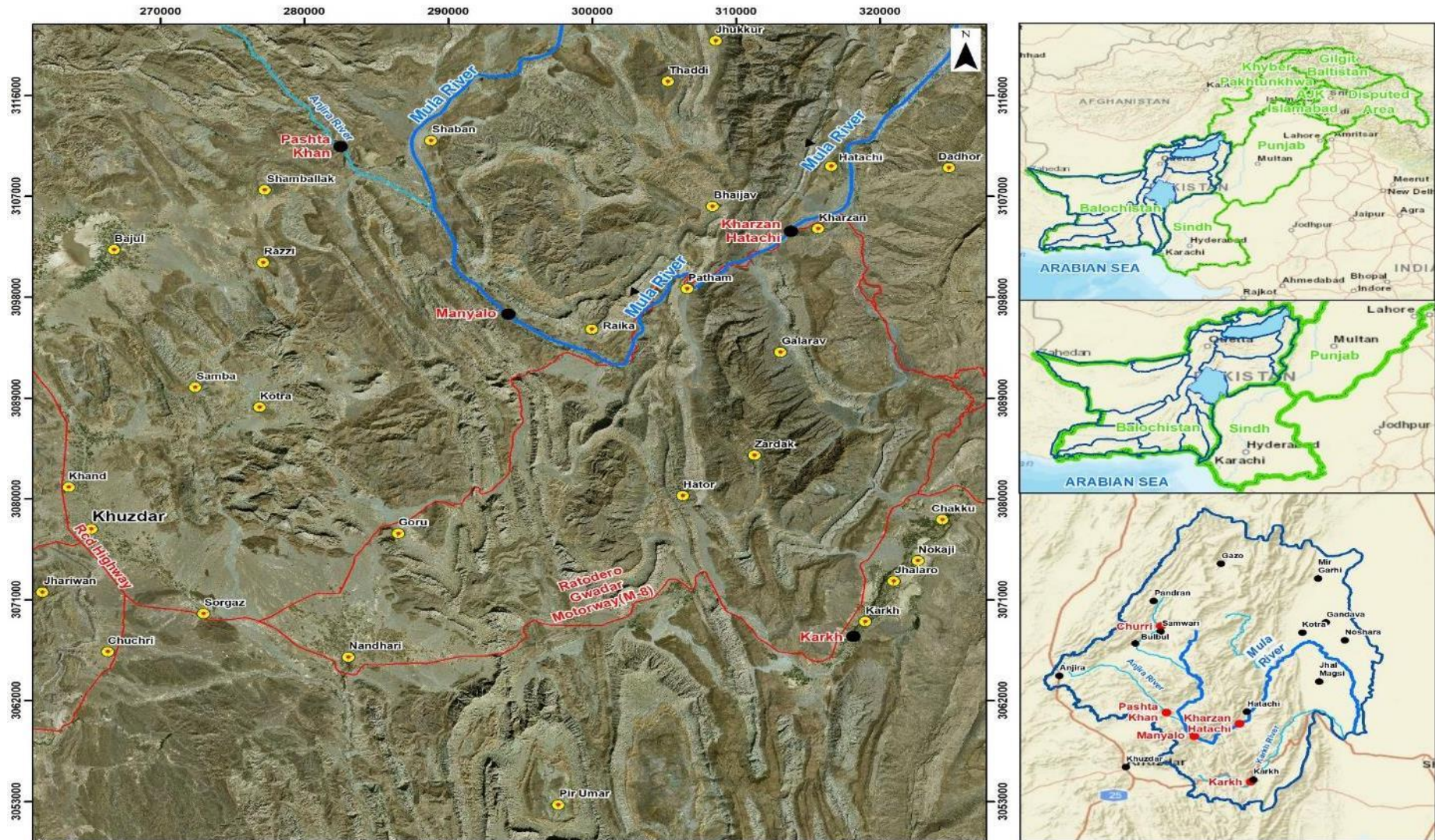


Figure 5-1: Layout Map of Kharzan Hatachi Irrigation Subproject

5.2 ACTIVITIES DURING CURRENT REPORTING PERIOD

An overview of the current progress for various activities under the Kharzan Hatachi Irrigation Subproject NCB-02 is provided in Table 5-1 below. It outlines the completion percentages of key construction tasks, reflecting the status of each activity as the project advances

Table 5-1: Kharzan Hatachi Irrigation Subproject NCB-02 works progress

Sr. No	Activity	Progress Status %
1	Stone spawl	95% completed
2	Stone pitching on slop	95% completed
3	Stone pitching on level	95% completed
4	Excavation in Conduit	100% completed
5	Earthwork of FP Bund	75% completed
6	Excavation in channels	100% completed
7	Construction joint in lining	90% completed
8	Expansion joint in lining	96.5% completed
9	Water stopper	95.% completed
10	Concrete class B(PCC)	75.04% completed
11	Steel	90.44% completed
12	Bund # 2	85% completed
13	Bund # 3 B	75% completed
14	Bund 3 C & 3 A	90% completed
15	Bund # 1	70%

138. The specific ongoing construction activities for the Kharzan Hatachi Subproject NCB-02 are detailed in Table 5-2.

Table 5-2: Details of ongoing construction activities.

Kharzan Hatachi Infiltration Gallery sub-project NCB 02		
1.	Bund # 1	55 %
2.	Bund # 3 4	
3.	Bund 3 & 3 A	In progress

Construction Material

139. Detailed information on the materials used for the the Kharzan Hatachi Irrigation Subproject NCB-02 is provided, including their sources and quantities in Table 5-3 below. It lists the types of materials required—such as cement, steel, stone, crushed aggregates, and sand—along with their respective suppliers and the amounts utilized in the project.

Table 5-3- Detail of material and sources of the Kharzan Hatachi Irrigation Subproject NCB-02

Sr. No.	Name of Material	Source of Material	Quantities Used
1	Cement	Power D.G Lucky	12000 bags
2	Steel	Agha Steel Pvt Ltd Karachi	51.4 tons
3	Earth work	Borrow Material from site	55142
4	Crush	Asif crush plant	414100 ft
5	Sand	Jahn Jal	26694 ft

Human Resources

140. As a contractor, it is a primary responsibility to hire local staff, both skilled and unskilled. It is the basic right of peoples living in the vicinity of the project area to get maximum financial benefit of project to overcome unemployment, so their socio economic status can be improved. However, considering availability and ability of work, contractor has provided the jobs to the local community on priority basis. Details of the categories of employees, both skilled and unskilled are provided in Table 5-4

Table 5-4- Manpower Technical/skilled/ unskilled staff details

Designation	Number
Project Manager	1
Construction Manager	1
Chief Surveyor	1
Surveyor	5
Survey Helper	13
Material Engineer	1
Environmental Specialist	1
Health & Safety Specialist	1
Lab Technician	1
Lab Helper	1
Admin Manager	1
Accountant	1
Cashier	1
Purchaser	2
Supervisor	3
Mechanic	2
Electricians	2
Plant Operator	3
Plant Helper	6
Mechanic & Helper	23
Heavy Machinery Operator	23
Heavy Machinery Helper	23
LT Driver	25
LT Helper	25
Skilled & Non-Skilled Labor	88
Chokidar	13
Messing Staff	15
Total	264

Equipment Machinery

141. The contractor is obliged to use heavy machinery on site to ensure the timely completion of the work. Proper maintenance of the machinery not only yields better and more successful results but also provides a safe environment for the workers operating nearby. Daily inspection of the machinery is carried out by experts and supervisors before and after use. The machinery is washed on daily basis and maintained by their assigned individual operators. The details for heavy machinery in use are provided in Table 5-5.

Table 5-5: List of Machinery/Equipment's

Name of Machine	Number
Grader	2
Dumper	8
Transit Mixture	3
Roller	3
Water Tanker	2
Dozer	1
Loader	2
Excavator	4
Batching Plant	1
Crush Plant	1
Mobil Crush Plan	1
Generator	3
Low bed	1
Pickup	4
Dewatering Pump	3
Tractor Trolley	5
Tractor	3
Bar bending Machine	2
Compactor	3
Total	52

5.3 Description of any Changes in ICB-02 Design

142. During the reporting period, no changes were made in the design of NCB-02.

5.4 Description of any Changes to Agreed Construction Methods

143. The construction activities at various sections of Site are in progress in accordance with the Engineer's approved methodology and specifications.

Works Progress in Pictures

**NCB-02 - Construction of Kharzan Hatachi Infiltration Gallery subproject - MRB
A View of Kharzan Conduit**



5.5 ENVIRONMENTAL SAFEGUARD ACTIVITIES

5.5.1 General Description of Environmental Safeguard Activities

144. During the reporting period, key construction activities progressed steadily. Stone spawl, stone pitching, and excavation in the conduit and channels were completed. Earthwork on the FP Bund, construction and expansion joints, water stoppers, concrete work, and steel installation advanced significantly. Bund #1, Bund #2, and Bund #3 (A, B, and C) also showed substantial progress.
145. The environmental safeguard aspect of these activities was accordingly supervised and monitored in compliance with the provisions of the approved SSEMP in specific and EMP in general.
146. Sample filled check lists used during supervision of environmental safeguard activities have been annexed as Annexure II.
147. The Personal Protective Equipment (PPE) like safety helmets, high viz jackets, gloves, shoes etc. were generally being used by the project staff including skilled and unskilled labour.
148. Safety Signage was insufficient at the camp and other important locations including active work sites.
149. From July to December 2024, various health and safety trainings were conducted on site. These included sessions on hand and head protection, addressing slips, trips, and falls, and respiratory protection. Additional training covered first aid and the use of personal protective equipment (PPE), as well as safe work practices on site.
150. Quarterly environmental monitoring was conducted at along construction sites during september 2024 specific locations The results and analysis are provided in detail under section 5-8 of the report.

5.5.2 Corrective Action Plans (CAPs):

151. During the reporting period, the Environment Specialist of PIC/SC conducted regular visits and monitored the project for the implementation of the Environmental Management Plan (EMP). As a result of these visits, Corrective Action Plans (CAPs) have been prepared for EMP non-compliance Kharzan Hatachi subproject. The details of these CAPs are provided in the Table 5-6 below.

Table 5-6- Kharzan Hatachi Infiltration Gallery sub-project Corrective Action Plan (Issues open & closed)

Sr. No	EMP Observations	Corrective Measures	Implementing Responsibility	Monitoring Responsibility	Timeline	Updated Status Closed/open
1.	No Barricading of construction site	Site should be barricaded especially at borrow areas and areas where	Contractor	CSC	16th May 2022	closed

Sr. No	EMP Observations	Corrective Measures	Implementing Responsibility	Monitoring Responsibility	Timeline	Updated Status Closed/open
		construction activities are being carried on				
2.	Dust soared due to no water sprinkling	Ensure regular water sprinkling on construction sites to control dust	Contractor	CSC	3 January 2025	Open
3.	No housekeeping and no disposal of solid waste	Implement regular housekeeping and establish a proper waste disposal system on-site	Contractor	CSC	Regularly/ Continuous process	Open
4.	Unhygienic conditions of washrooms	Ensure proper hygiene in all kitchen areas and switch to safer cooking methods, avoiding wood	Contractor	CSC	5 January 2025	Open
5.	Partial PPE compliance.	Enforce mandatory use of PPEs, especially safety boots, helmets, and gloves, for all workers	Contractor	CSC	immediately	Open
6.	Scarcity of safety signs boards	Proper safety signs should be installed by the Contractor	Contractor	CSC	10 January 2025	Open

*Pictorial Evidences for closed issues are mentioned as annexure IX

5.5.3 Issues Tracking (Based on Non-Conformance Notices) .

152. Dust Control: It was noted that the construction site had high dust levels due to the lack of water sprinkling. The Contractor was instructed to implement regular water sprinkling to control dust and ensure a safer environment for workers.
153. Housekeeping and Waste Disposal: The site was found lacking proper housekeeping and solid waste disposal systems. The Contractor was directed to establish a routine cleaning schedule and a proper waste disposal system to maintain site cleanliness.
154. Washroom Hygiene: Unhygienic conditions were observed in the washrooms. The Contractor was instructed to ensure proper hygiene practices and to switch to safer cooking methods, eliminating the use of wood.
155. PPE Compliance: PPE compliance was found to be inadequate, with workers not consistently using safety boots, helmets, and gloves. The Contractor was instructed to enforce the mandatory use of essential personal protective equipment to ensure worker safety.

5.6 GRIEVANCE REDRESSAL MECHANISM.

156. As detailed in the SSEMP, Grievance Redressal Committees (GRCs) at field and project levels with composition thereof have already been notified and are functional. For registration of complaints.
157. Upon receipt of complaint(s), GRC follow the specified procedure to address the complaint and resolve the issue within prescribed time frame.
158. During the reporting period, No complaints received from this site.

5.7 UNANTICIPATED ENVIRONMENTAL IMPACTS OR RISKS.

159. During the reporting period, neither unanticipated environmental impacts were observed nor reported by the Contractor.

5.8 MONITORING OF AIR, NOISE AND WATER AT KHARZAN HATACHI INFILTRATION GALLERY

5.8.1 Ambient Air Monitoring

i. Methodology and Instrument Used

160. Ambient air quality monitoring was carried out at the camp site (east, west, north and south) for the assessment of parameters (temperature, humidity, PM1.0, PM2.5, PM10, CO, SO2, NO2, O2, formaldehyde, Total Volatile Organic Compounds (TVOC), O3, etc). The Air Quality Monitoring Station (AQMS-09), employed for PM10 & PM2.5, is a fully integrated air monitoring station that delivers 'near reference levels' of performance parameters. With a size of large suitcase, it can measure up to 20 different gaseous and particulate pollutants and environmental parameters simultaneously. The AQMS 09 offers optimal balance between performance and measuring criteria pollutants.

ii. Test Results and Discussion

161. Ambient air quality (temperature, humidity, PM1.0, PM2.5, PM10, CO, SO2, NO2, O2, formaldehyde, Total Volatile Organic Compounds (TVOC), O3) were monitored for twenty-four (24) hours at the locations identified by the SC and results obtained are shown in Figure 5-2. Signed copies of the results are attached as **Annexure-XIII**.

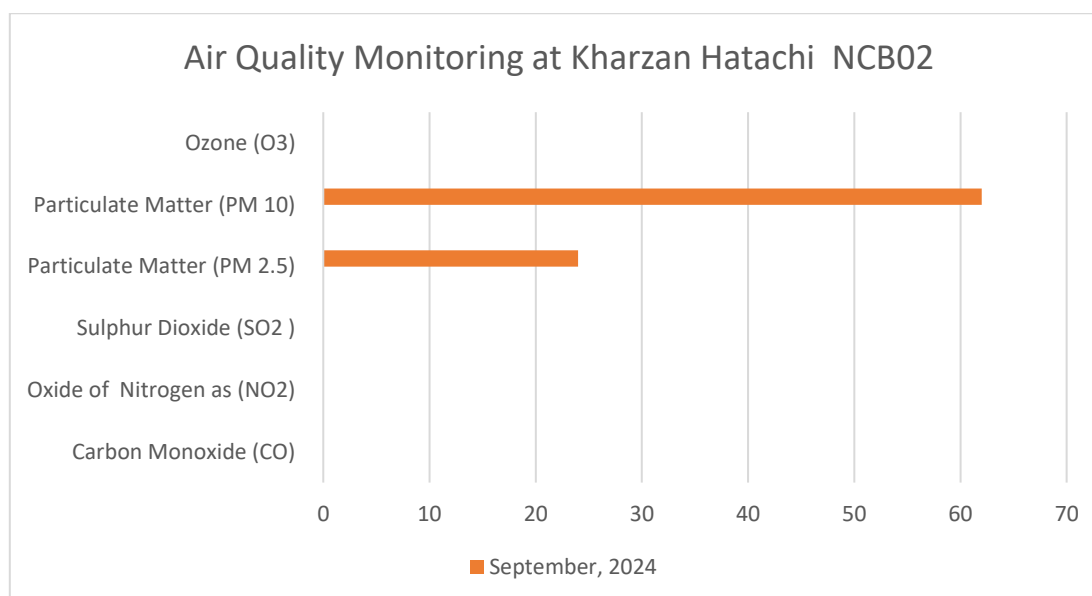


Figure 5-2: Ambient Air Quality Kharzan Hatachi NCB 02

All the results are within the permissible limits and compliant with the BEQS, NEQS. PM10 and PM2.5 levels exceeded stringent WHO standards, primarily due to high vehicle movement and dust accumulation near the monitoring points. However, it is worth noting that during the first quarter, the contractor did not perform quarterly monitoring at the sub-project sites.

162. Considering the compliance with NEQS there is no immediate need for additional mitigation measures to control dust, apart from the measures proposed in the SSEMP. These measures may include regular sprinkling of water to suppress dust and timely transportation or disposal of excess materials temporarily stored at the site.

Table 5-7: Ambient Air Quality

Sr. No.	Measuring Parameters	Location	Unit	Second Quarter	WHO Limit	NEQS & BEQS Limits	Remarks
1.	Oxide of Nitrogen as (NO ₂)	Camp	µg/m ³	N.D.	25(24 hrs.)	80 (24 hrs.)	WL
2.	Sulphur Dioxide (SO ₂)	Camp	µg/m ³	N.D.	40(24 hrs.)	120 (24 hrs.)	WL
3.	Carbon Monoxide (CO)	Camp	mg/m ³	N.D.	4(24 hrs.)	5 (08 hrs.)	WL
4.	Particulate Matter (PM 2.5)	Camp	µg/m ³	24	15(24 hrs.)	35 (24 hrs.)	WL
5.	Particulate Matter (PM 10)	Camp	µg/m ³	62	45(24 hrs.)	150 (24 hrs.)	WL
6.	Ozone (O ₃)	Camp	µg/m ³	N.D.	60 (Peek Season)	130 (01 hr.)	WL

163. It is important to regularly monitor and assess the dust levels and compliance with environmental standards throughout the project's implementation to ensure continued adherence to regulations and to address any potential concerns that may arise.

5.8.2 Noise Monitoring

164. The twenty-four (24) hours noise level monitoring was carried out at camp site and batching plant of Kharzan Hatachi sub-project NCB-02 by using Digital Noise level meter.

i. Test Results and Discussion

165. The following table 5-8 shows a comparison of noise level monitoring results obtained during instrumental monitoring.

Table 5-8: Noise Monitoring Test Results at Camp site

Sr. No	Locations	Methods	Unit	Results	WHO Limits	NEQS/BEQS Limits
1	Camp Site	ASTM E-1686-16	dB	53.2	55	55 (daytime)

166. The noise level monitoring at sites was carried out during day and night with the objective to assess the off working noise levels as well. As evident from the results obtained, the average noise level is 53.2 Db that is within the NEQS and WHO limits. Regarding the World Bank Group (WBG) Environmental, Health, and Safety (EHS) Guidelines, the recommended noise level limits **are generally** 55 dB during the day **and** 45 dB at night **for residential areas, with slightly** higher limits for industrial zones. A comparison indicates that the site noise levels are within the NEQS limits but exceed the WBG EHS Guidelines for residential areas during the day and night. High wind speeds may have contributed to elevated noise levels,

5.8.3 Monitoring of Drinking/Tap Water Quality and Waste Water

i. Methodology

167. During the reporting period, drinking/tap water quality and waste water quality of the Contractor's camp was monitored for the agreed parameters given in the SSEMP. High density sterilized polyethylene bottles were used for the sampling. The collected samples were preserved, sealed and chilled at 40C as recommended. APHA-1060 B & C method is used for sampling and preservation of water whereas.

ii. Drinking Water Test Results and Discussion

168. The drinking water demand is being met from Tubewell located near the contractor camp. At the first instance, water is pumped to elevated storage tank from where it is supplied to the consumer points through a pipe network. The drinking water at both the camp area meets WHO drinking water standards. Microbiological parameters such as Total Coliform, E. Coli, and Fecal Coliform were non-detectable, ensuring the water is free from harmful microorganisms. Physical parameters like turbidity, taste, odor, and color were within acceptable limits, indicating clear, odorless, and colorless water. Chemical parameters such as pH, Total Dissolved Solids, and hardness also fall within safe ranges, while concentrations of potentially harmful substances like fluoride,

nitrates, and heavy metals were well below WHO's recommended limits, confirming the water's safety for consumption.

Table 5-9: Drinking Water Monitoring at Camp Area

S.No	Parameters	Unit	Testing Method	BEQS Limits	NEQS Limits	WHO Limits	Results	Remarks
1.	Total Coliform	TC (count/ml)	APHA 922 B	0/100 ml	0/100 ml	0/100 ml	N.D.	WL
2.	E-Coli	EC (count/ml)	Total Viable Count	0/100 ml	0/100 ml	0/100 ml	N.D.	WL
3.	Facial Coli	FC (count/ml)	APHA 922 B	0/100 ml	0/100 ml	0/100 ml	N.D.	WL
4.	Turbidity	NTU	HACH Turbidity meter	<15	<5	<15	<1	WL
5.	Taste	Taste	Sensory Evolution	Obj/Non Obj	Obj/Non Obj	Obj/Non Obj	Tasteless	WL
6.	Odour	Odor	Sensory Evolution	Obj/Non Obj	Obj/Non Obj	Obj/Non Obj	Odourless	WL
7.	Colour	TCU	Pt-Co method	≤ 15 TCU	≤ 15 TCU	≤ 15 TCU	1	WL
8.	Phenolic Compounds	As Phenol (mg/L)	ASTM D-1783	-	-	-	<0.001	WL
9.	Residual chlorine	Cl ₂ (mg/L)	HACH Method 8167	0.2-0.5	0.2-0.5	-	0.1	WL
10.	Ph@25° C	PH	ASTM D-1293	6.5 to 8.5	6.5 to 8.5	6.5 to 8.5	7.73	WL
11.	Total Dissolved Solid	TDS (mg/L)	APHA 2540-C	< 1000	< 1000	< 1000	524	WL
12.	Total Hardness	As COCO ₃ (mg/L)	APHA 2340-C	< 500	< 500	-	286	WL
13.	Fluoride	F ₁ (mg/L)	APHA 4500-F ₁	≤ 1.5	≤ 1.5	1.5	0.29	WL
14.	Chloride	CL ₁ (mg/L)	APHA 4500-Cl ₁	< 250	< 250	250	148.67	WL
15.	Cyanide	CN ₁ (mg/L)	HACH Method 8027	≤ 0.05	≤ 0.05	0.05	N.D.	WL
16.	Nitrate	NO _{3_1} (mg/L)	HACH Method 8192	≤ 50	≤ 50	50	0.5	WL
17.	Nitrite	NO _{2_1} (mg/L)	APHA 4500-NO _{2_1} -B	≤3.0 (P)	≤3.0 (P)	3	0.004	WL
18.	Antimony	Sb (mg/L)	ASTM D-3697	≤0.005	≤0.005	0.02	<0.005	WL
19.	Aluminium	Al (mg/L)	ASTM D-857	≤0.2	≤0.2	0.2	<0.0031	WL
20.	Arsenic	As (mg/L)	ASTM D-2972	≤0.05	≤0.05	0.01	<0.05	WL
21.	Boron	B (mg/L)	ASTM D-3082	0.3	0.3	0.3	N.D.	WL

S.No	Parameters	Unit	Testing Method	BEQS Limits	NEQS Limits	WHO Limits	Results	Remarks
22.	Barium	Ba(mg/L)	ASTM D-4382	0.7	0.7	0.7	0.1	WL
23.	Chromium Total	Cr(mg/L)	ASTM D-1687	≤0.05	≤0.05	0.05	<0.0049	WL
24.	Copper	Cu(mg/L)	ASTM D-1688	2	2	2	<0.0042	WL
25.	Cadmium	Cd(mg/L)	ASTM D-3557	0.01	0.01	0.03	<0.0024	WL
26.	Lead	Pb(mg/L)	ASTM D-3559	≤0.05	≤0.05	0.01	<0.011	WL
27.	Manganese	Mn(mg/L)	ASTM D-858	≤0.5	≤0.5	0.5	<0.0014	WL
28.	Mercury	Hg (mg/L)	ASTM D-3223	≤0.001	≤0.001	0.001	<0.001	WL
29.	Nickel	Ni(mg/L)	ASTM D-3866	≤0.05	≤0.02	0.02	0.0076	WL
30.	Selenium	Se(mg/L)	ASTM D-3858	0.01	0.01	0.01	<0.01	WL
31.	Zinc	Zn (mg/L)	ASTM D-1691	5	5	3	<0.0030	WL

iii. Waste Water Test Results and Discussion

169. The waste water samples, were collected from the camp where all effluent converges into one outlet.

Table 5-10: Waste Water Monitoring at Camp site

Parameters	Unit	Method / Technique	NEQS	Result
Temperature	°C	APHA-2550 B	-	30
pH [^]	---	APHA-4500-H+ B	6-9	7.58
Biological Oxygen Demand (BOD5 at 20 0C)	mg/L	APHA-5210 D	80	51
Chemical Oxygen Demand (COD) [^]	mg/L	APHA-5220 B	150	104
Total Suspended Solids (TSS) [^]	mg/L	APHA-2540 D	200	168
Total Dissolved Solids (TDS) [^]	mg/L	APHA-2540 C	3500	446
Greases & Oil	mg/L	APHA-5520 B	10	02
Phenolic Compound (As Phenol)	mg/L	APHA-5530 D	0.1	N.D.
Chloride (as Cl ⁻) [^]	mg/L	APHA-4500-Cl B	1000	337.68
An Ionic detergent as MBAs	mg/L	APHA 5540 C	20	04
Sulphate (SO ₄ ²⁻) [^]	mg/L	APHA-4500-SO ₄ C	600	74
Sulphide (S ₂ ⁻)	mg/L	APHA-4500-S ₂ - F	1.0	<1
Ammonia (NH ₃) [^]	mg/L	APHA-4500NH ₃ C	40	0.56
Cadmium (Cd) [^]	mg/L	APHA-3111 B	0.1	0.0119
Chromium (Trivalent & Hexavalent) [^]	mg/L	APHA-3111 B	1.0	0.0379
Copper (Cu) [^]	mg/L	APHA-3111 B	1.0	0.0106
Lead (Pb) [^]	mg/L	APHA-3111 B	0.5	N.D.
Mercury (Hg)	mg/L	APHA-3112 B	0.01	N.D.
Selenium (Se)	mg/L	APHA-3114 C	0.5	N.D.
Nickel (Ni)	mg/L	APHA-3111 B	1.0	0.994
Silver (Ag)	mg/L	APHA-3111 B	1.0	N.D.

Parameters	Unit	Method / Technique	NEQS	Result
Zinc (Zn)^	mg/L	APHA-3111 B	5.0	N.D.
Arsenic (As)	mg/L	APHA-3114 C	1.0	N.D.
Barium (Ba)	mg/L	APHA-3111 D	1.5	N.D.
Iron (Fe)^	mg/L	APHA-3111 B	8.0	0.0127
Manganese (Mn)^	mg/L	APHA-3111 B	1.5	N.D.
Boron (B)	mg/L	APHA-3111 D	6.0	N.D.
Chlorine (Cl ₂)	mg/L	APHA-4500 Cl B	1000	337.68
Cyanide	mg/L	APHA-3111 B	1.0	0.004

170. All the results of the effluent parameters tested, fall within the permissible limits of NEQS.

5.8.4 Monitoring of Gaseous and Vehicles Emission

i. Methodology

171. During the reporting period, generator and vehicles emissions were monitored at the camp site and construction site for the agreed parameters as given in the SSEMP. All lab results are provided as **annexure XIII**.

5.9 WASTE MANAGEMENT

a. Solid Waste Management:

172. Workers' actions pertaining to waste management are found to be responsible and careful. The priority has always been to reduce the waste generated; therefore, the 3Rs (reduce, reuse, and recycle) are observed as the 2nd step of effective waste management, following the 1st priority of preventing waste at the point source on the site. Most of the waste produced is biodegradable. Dust bins are provided for site use and are conveniently located. Due to the limited duty time and the low number of staff, the waste is produced in such low quantities that it can be easily transported to its designated area. This activity is done on a regular basis to ensure that the small waste does not accumulate into large amounts, making waste management and its impacts following remedial actions more expensive and time-consuming, thus diverting resources from useful work.

b. Housekeeping and Material Storage

173. Proper storage and stacking are promoted at work sites, as good housekeeping and properly stored material have the potential to reduce safety incidents by roughly 70%. Housekeeping was inadequate, with solid waste left undisposed, contributing to an unclean environment. Additionally, hygiene standards were poor, and wood was being used for cooking instead of LPG.

174. The following measures regarding housekeeping are taken:

- All materials, spoils, debris, etc., are cleaned up to avoid accumulation at the end of each work shift.

- Accumulation of trash and debris is prevented by proper covering with polythene sheets and water sprinkles to suppress the mud/dust.
- Access walkways and roadways are kept clear to avoid trips and falls.
- Good housekeeping is maintained at the camp as well as on the working site.
- Dustbins are placed at appropriate locations.



c. Hazardous waste

175. Waste with the characteristics of flammability, toxicity, reactivity, and corrosivity is regarded as hazardous. At the moment, no hazardous waste is being generated. However, a designated area has been prepared for the storage of any hazardous waste. During field visits, it is ensured that hazardous waste generation will be prevented through responsible storage and handling practices. In the event that hazardous waste is generated, its storage is carefully considered, ensuring a safe distance of nearly 100 m (as practically applicable) from the surface water for its handling and storage.

Table 5-11- Solid Waste generated at sub-project sites are as under

Sr. #	Name of Sub-Project	Solid Waste generated in Kilograms/day	Types of Waste	Remarks
1	Kharzan Hatachi Infiltration Gallery NCB 02	3 Kg/day	Plastic	Solid waste is preferable reused, recycled and disposed off at designated dumping site.
		2 Kg/day	Kitchen	
		5 Kg/day	Solid Waste	

5.6 HEALTH AND SAFETY

Community Health and Safety

176. No incidents related to community health and safety have occurred or been reported yet.

Worker Safety and Health

177. First aid kits are provided by the contractor at the campsite, and this provision is being ensured. There was a lack of compliance with PPEs requirements, putting workers at risk. Furthermore, safety signboards were missing, increasing the likelihood of accidents due to the absence of proper warnings and guidelines. Additionally, other safety measures to avoid exposure to accidents due to construction, vehicle movements, and machinery operations are also ensured. The contractor has provided 4WD vehicles to deal with any kind of emergency (Annexure IX). No incidents related to the workers' health and safety have occurred or been reported yet.

5.6.1 Training

178. The Contractor maintains a strong working relationship with the Consultants' environmental staff. Regular training and awareness campaigns at the Contractor's Camp and work sites keep workers informed about site-specific risks and emergency preparedness.
179. In the reported months of June to November 2024, following trainings had been conducted as mentioned in Table 5-13.

Table 5-12: Details of Health and Safety Trainings on Site.

Sr. No.	Topic	Date (m-y)
1	Safe Handling equipments, materials	July, 2024
2	Hand and head protection during working	August, 2024
3	Slip Trip and Fall	September, 2024
4	Respiratory protection	October, 2024
5	First and PPEs	November, 2024

5.7 FUNCTIONING OF THE SSEMP

5.7.1 GOOD PRACTICE AND OPPORTUNITY FOR IMPROVEMENT

- Clean drinking water is provided to workers and staff.
 - The Environmental Specialist and HSE Officer are available on-site during working hours.
 - Daily correspondence with the supervision consultant is conducted to discuss day-to-day improvements and activities.
 - The construction machinery is parked in designated locations.
 - Monthly training and Toolbox Talks are being held and reported in the SAEMR.
 - PPEs Compliance was observed, ensuring worker safety.
 - First Aid Box was available on-site for emergency medical assistance.
 - Fire Extinguishers were strategically placed for fire safety.
 - Signages at Site were installed to provide necessary safety instructions and warnings.
180. Overall, these practices contribute to a well-maintained, safe, and organized work environment, enhancing both operational efficiency and worker well-being.

5.7.2 Opportunities for Improvement

181. To enhance safety and site cleanliness, the contractor should implement regular water sprinkling to control dust and improve air quality, especially in high-traffic zones. A structured waste disposal system should be established, with scheduled housekeeping activities to maintain a clean and safe environment. Kitchen areas must be kept hygienic, with the transition from wood to LPG for cooking methods to improve safety. Strict enforcement of PPE usage, including safety boots, helmets, and gloves, is essential, with regular inspections and training. Safety signs should also be properly installed and maintained to ensure hazard warnings and instructions are clear for workers and visitors.

6 DESCRIPTION OF PASHTA KHAN AND GARAMBOWAD PERENNIAL IRRIGATION SUB PROJECT-MULLA RIVER BASIN (NCB-04)

6.1 PROJECT DESCRIPTION

182. The schemes are located north-east of Khuzdar in Pashta Khan area at a distance of about 64 km, that is 28 km north via N-25 Highway (RCD Highway) to Baghbana area and 36 km East on unpaved road and hilly track to scheme location. Pashta Khan and Garambowad (PIS) sub-projects are located at a distance of 7 km from each other and situated on Anjira River which drains into Mula River near Pashta Khan. It is located in tehsil Mula, district Khuzdar, Balochistan. Both schemes are taken as a single sub-project due to their close proximity and smaller size. Main components of the sub-project consist of a weir with a 3 perennial Irrigation channel and flood protection bunds, at Pashta Khan and an off-take well with long irrigation canal and flood protection bunds, were opted for Garambowad for irrigating command area of 94 ha.

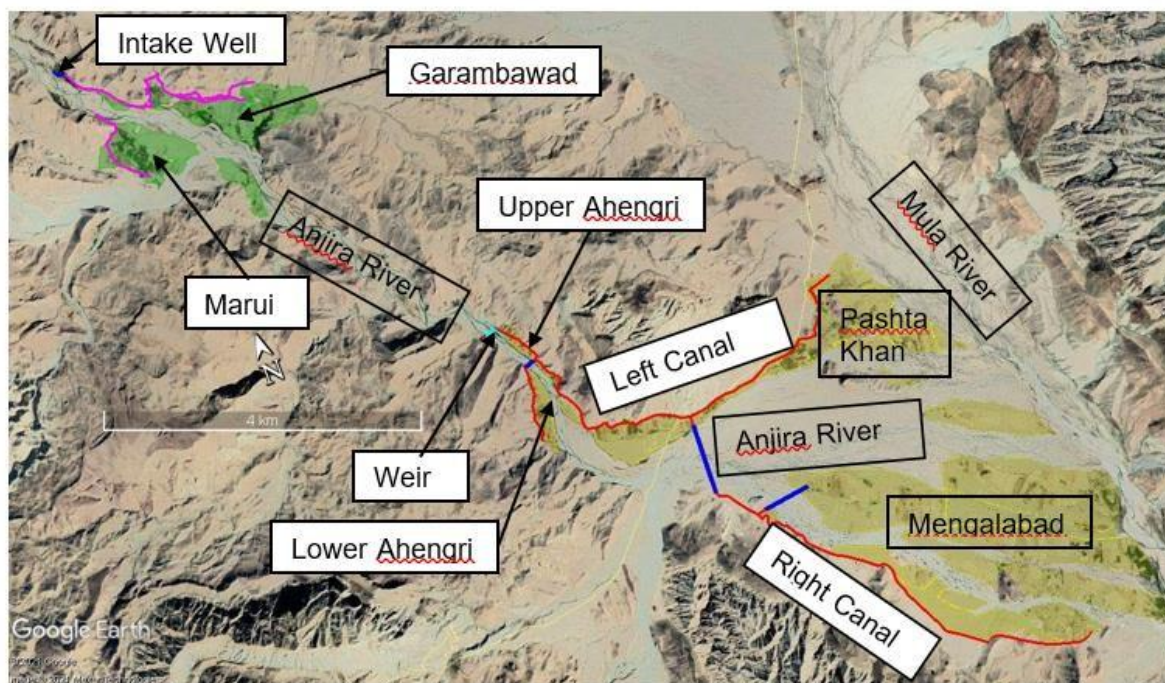
183. Project Layout is shown in Figure 6-1.

SALIENT FEATURES:

• Total Revised Cost	Rs. 1153.02 (Rs. Million)
• Weir Length	120 Meter
• Pashta Khan Command Area	753 ha
• Pashta Khan Perennial Irrigation channel Length	3500 Meter
• Garambowad irrigation canal Length	5500 Meter
• Garambowad Command Area	94 ha

PROJECT PROGRESS:

• Overall Target:	29.64%
• Physical Progress:	17.22%
• Financial Progress:	8.45%

Figure 6-1: Location Map**Figure 6-2: Layout of the subproject**

6.2 ACTIVITIES DURING CURRENT REPORTING PERIOD

184. An overview of the current progress for various activities under the Pashta Khan and Garambawad Perennial Irrigation Sub Project(NCB-04) is provided in Table 6-1 below. It outlines the completion percentages of key construction tasks, reflecting the status of each activity as the project advances

Table 6-1: Pashta Khan and Garambawad Perennial Irrigation Sub Project(NCB-04) works progress

S.No.	Description	Construction Activities	Location
Pashta Khan			RD
01	weir	48 meters done	0+040 to 0+120
03	Right Canal	150 meters excavation completed	-
04	Flood Protection Bund	18 layers done	0+400-0+587.50

Construction Material

185. Major construction materials used at NCB-04 include reinforced steel, cement, sand and aggregates supplied from the approved sources as mentioned in the SSEMP. Sources of construction materials are listed below. The Details for types of construction material used and their sources for the time period July to December 2024 are mentioned in Table 6-2.

- 186.

Table 6-2- Detail of material and sources of Pashta Khan and Garambowad Perennial Irrigation Sub Project(NCB-04)

Sr. No.	Name of Material	Source of Material	Quantities Used
1	Cement	Fauji Cement Ltd, Mapple leaf	500 Bags
2	Steel	Agha Steel Pvt Ltd Karachi	10 Tons
3	Sand	Yarro Sand	50 cu.m
4	Gravel		40 cu.m
5	Gas pipes		900 RFT

Human Resources

187. As a contractor, it is prior responsibility to hire local staff, skilled and unskilled staff and labor. Because it is the basic right of peoples living in the vicinity of project area to get maximum financial benefit of project to overcome unemployment, so their socio economic status can be improved. However, considering availability and ability of work, contractor has provided the jobs to the local community on priority basis. The Details for categories of Employees both Skilled and Unskilled are mentioned in Table 6-3.

Table 6-3- Manpower Technical/skilled/ unskilled staff details

Designation	Numbers
Project Manager	1
Chief Surveyor/Quantity Surveyor	1
Surveyor	1
Surveyor Helper	1
General Forman	1
Material Engineer	1
Lab Technician	1
Lab Helper	1
AutoCAD Operator	2
Accountant	1
Storekeeper	1
Procurement Officer	1
Supervisor	1
Mechanic	1
Auto Electrician	1
Heavy Machinery Operator	2
Heavy Machinery Helper	2
Diesel Store	1
Security Guard	1
Cook	1
Cook Helper	1
Labour	10
Mason	5
Steel fixer	2
Total	40

Equipment Machinery

188. The contractor is obliged to use heavy machinery on site to ensure the timely completion of the work. Maintenance of the machinery not only provide better and successful results but also safe haven for the workers operating nearby. Daily inspection of machinery is carried out by experts and supervisors before and after the machine is used. The machinery is washed on daily basis and maintained by their assigned individual operators. The details for Heavy Machinery working on site are mentioned in Table 6-4.

Table 6-4: List of Machinery/Equipment's

Name of Machine	Numbers
Loader	1
Dozer	-
Tractor 240	1
Tractor 385	-
Tractor Trolley	1
Pickup	1
Generator	1
Water Bowser	1
Diesel Tank	1
Steel Machine	1
Total	8

6.3 Description of any Changes in NCB-04 Design

189. During the reporting period, no changes were made in the design of NCB-04.

6.4 Description of any Changes to Agreed Construction Methods

190. The construction activities at various sections of Site are in progress in accordance with the Engineer's approved methodology and specifications



6.5 ENVIRONMENTAL SAFEGUARD ACTIVITIES

6.5.1 General Description of Environmental Safeguard Activities

191. During the reporting period, the Contractor carried out multiple construction activities. At Pashta Khan weir, 48 meters of work was completed from 0+040 to 0+120. Excavation of 150 meters was completed at the Right Canal. Additionally, 18 layers of work were executed on the Flood Protection Bund from 0+400 to 0+587.50
192. The environmental safeguard aspect of these activities was diligently supervised and monitored, ensuring compliance with the provisions outlined in the approved Site-Specific Environmental Management Plan (SSEMP) and the Environmental Management Plan (EMP) in general. To maintain a systematic record of the environmental safeguard supervision, sample-filled checklists were utilized. These checklists, attached as Annexure-V, serve as a documentation tool, outlining the specifics of the activities and confirming adherence to environmental protection measures as per the established plans.
193. Poor kitchen hygiene, lack of safety signs, and inadequate housekeeping were noted. The Contractor was instructed to improve hygiene, install safety signs, and enhance site cleanliness.
194. During the reporting period, quarterly instrumental environmental monitoring was also held at the site during September 2024. Results obtained and commentary thereon has separately been given under Section 6.9 of the report.

6.5.2 Corrective Action Plans (CAPs):

195. During the reporting period, the Environment Specialist of PIC/SC conducted regular visits and monitored the project for the implementation of the Environmental Management Plan (EMP). As a result of these visits, Corrective Action Plans (CAPs) have been prepared for EMP non-compliance at Pashta Khan and Garambowed (PIS)Subproject. The details of these CAPs are provided in the Table 6-5 below.

Table 6-5- Pashta Khan and Garambowed (PIS)Subproject**Corrective Action Plan CAP.**

Sr. No	EMP Observations	Corrective Measures	Implementing Responsibility	Monitoring Responsibility	Timeline	Updated Status Closed/open
1.	Poor hygiene condition in Kitchen	Ensure proper cleanliness, hygiene, and maintenance of the kitchen area	Contractor	CSC	5 January 2025	Open
2.	Scarcity of Safety signs boards/warning tape	Proper safety signs boards/warning tape should be installed by the contractor	Contractor	CSC	10 January 2025	Open
3	No housekeeping	Implement regular housekeeping and cleaning schedule for the site and camp	Contractor	CSC	Immediately	Open

*Pictorial Evidences for closed issues are mentioned as annexure IX

6.6 SITE AUDITS

6.6.1 Issues Tracking (Based on Non-Conformance Notices) .

196. The site is facing several issues that require immediate attention. The poor hygiene condition in the kitchen needs to be addressed by the Contractor, who is required to maintain proper cleanliness, hygiene, and regular maintenance to ensure a safe and hygienic environment for workers. Additionally, there is a scarcity of safety signboards and warning tape around the site. The Contractor has been instructed to urgently install sufficient signage to increase hazard visibility and improve overall site safety. Furthermore, there is a lack of housekeeping, and the Contractor must implement a regular housekeeping schedule to ensure that both the construction site and camp areas remain clean, organized, and free of any hazards.

6.7 GRIEVANCE REDRESSAL MECHANISM.

197. As detailed in the SSEMP, Grievance Redressal Committees (GRCs) at field and project levels with composition thereof have already been notified and are functional. For registration of complaints, complaint registers are available at field offices and at sites wherein complainant can register complaint(s).

198. Upon receipt of complaint(s), GRC follow the specified procedure to address the complaint and resolve the issue within prescribed time frame.

199. Complaint register is available inside camp to receive complaints from local community/project affected people and contractor's staff. No complaints have been registered in the time period July - December 2024.

6.8 UNANTICIPATED ENVIRONMENTAL IMPACTS OR RISKS.

200. During the reporting period, neither unanticipated environmental impacts were observed nor reported by the Contractor.

6.9 Monitoring of Air, Noise and Water at Pashta Khan and Garambowed (PIS)Subproject

6.9.1 Ambient Air Monitoring

i. Methodology and Instrument Used

201. Ambient air quality monitoring was carried out for the assessment of Parameters (NO, NO₂, SO₂, CO, O₃, SPM, PM₁₀, PM_{2.5}, humidity, wind direction, wind velocity, pressure etc). The Air Quality Monitoring Station (AQMS-09), employed for PM₁₀ & PM_{2.5}, is a fully integrated air monitoring station that delivers 'near reference levels' of performance parameters. With a size of large suitcase, it can measure up to 20 different gaseous and particulate pollutants and environmental parameters simultaneously. The AQMS 09 offers optimal balance between performance and measuring criteria pollutants.

ii. Test Results and Discussion

202. Ambient air quality (NO, NO₂, SO₂, CO, O₃, SPM, PM₁₀, PM_{2.5}, Humidity, Wind direction, Wind velocity, Pressure etc) were monitored for twenty-four (24) hours at the locations identified by the SC and results obtained are as under.

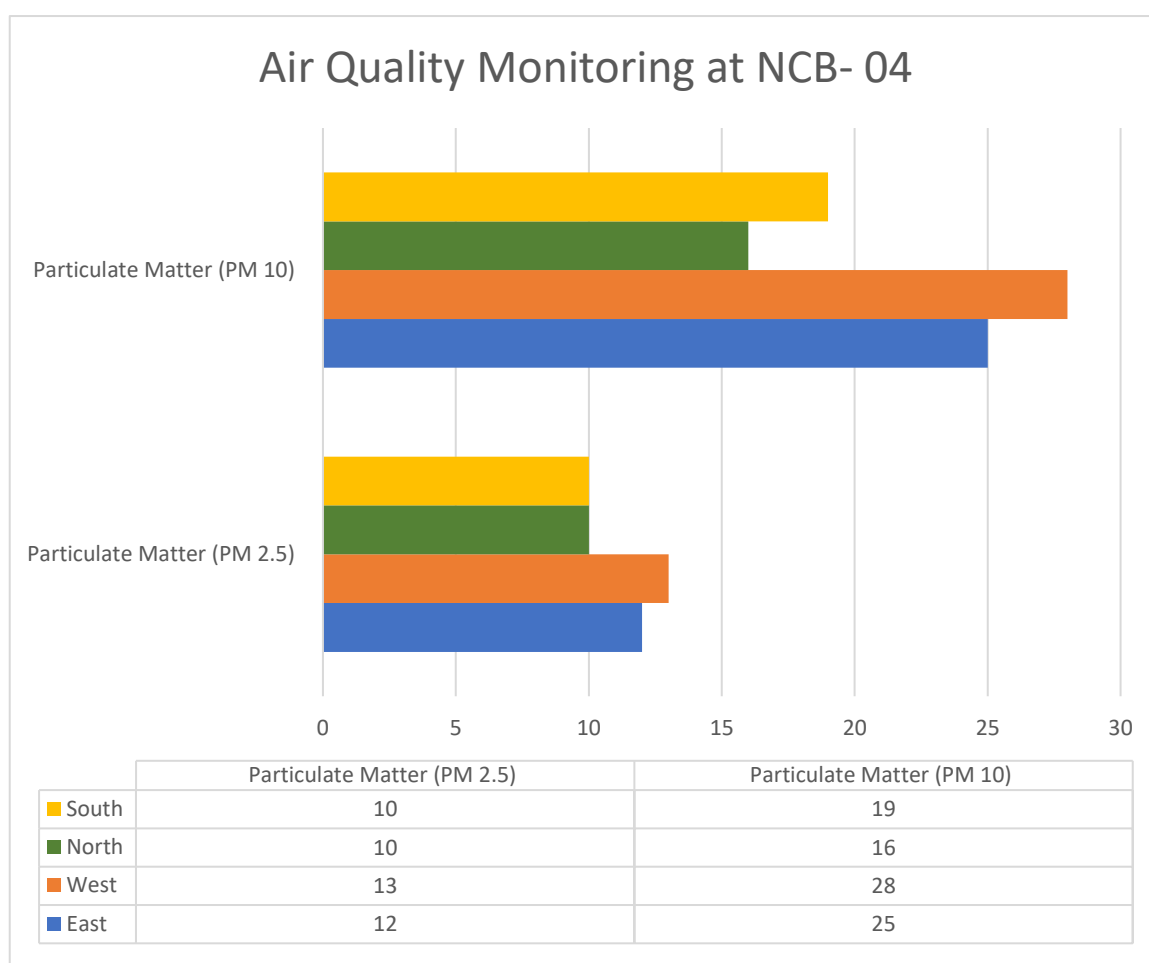


Figure 6-3: Graphical representation of Ambient Air Quality at NCB-04

The contractor has performed quarterly monitoring at the sub-project sites and all the results are within the permissible limits and compliance with the BEQS, NEQS and WHO standards. are shown as in Figure 6-3 and Table 6-6. Signed copies of the results are attached as **Annexure-XIV**.

Table 6-6: Air Quality Monitoring Test Results

East

Sr. No.	Measuring Parameters	Location	Unit	Results	WHO Limit	NEQS & BEQS Limits	Remarks
1.	Oxide of Nitrogen as (NO ₂)	Camp	µg/m ³	N.D.	25(24 hrs.)	80 (24 hrs.)	WL
2.	Sulphur Dioxide (SO ₂)	Camp	µg/m ³	N.D.	40(24 hrs.)	120 (24 hrs.)	WL
3.	Carbon Monoxide (CO)	Camp	mg/m ³	N.D.	4(24 hrs.)	5 (08 hrs.)	WL
4.	Particulate Matter (PM 2.5)	Camp	µg/m ³	12	15(24 hrs.)	35 (24 hrs.)	WL
5.	Particulate Matter (PM 10)	Camp	µg/m ³	25	45(24 hrs.)	150 (24 hrs.)	WL
6.	Ozone (O ₃)	Camp	µg/m ³	N.D.	60 (Peek Season)	130 (01 hr.)	WL

West

Sr. No.	Measuring Parameters	Location	Unit	Results	WHO Limit	NEQS & BEQS Limits	Remarks
1.	Oxide of Nitrogen as (NO ₂)	Camp	µg/m ³	N.D.	25(24 hrs.)	80 (24 hrs.)	WL
2.	Sulphur Dioxide (SO ₂)	Camp	µg/m ³	N.D.	40(24 hrs.)	120 (24 hrs.)	WL
3.	Carbon Monoxide (CO)	Camp	mg/m ³	N.D.	4(24 hrs.)	5 (08 hrs.)	WL
4.	Particulate Matter (PM 2.5)	Camp	µg/m ³	13	15(24 hrs.)	35 (24 hrs.)	WL
5.	Particulate Matter (PM 10)	Camp	µg/m ³	28	45(24 hrs.)	150 (24 hrs.)	WL
6.	Ozone (O ₃)	Camp	µg/m ³	N.D.	60 (Peek Season)	130 (01 hr.)	WL

North

Sr. No.	Measuring Parameters	Location	Unit	Results	WHO Limit	NEQS & BEQS Limits	Remarks
1.	Oxide of Nitrogen as (NO ₂)	Camp	µg/m ³	N.D.	25(24 hrs.)	80 (24 hrs.)	WL
2.	Sulphur Dioxide (SO ₂)	Camp	µg/m ³	N.D.	40(24 hrs.)	120 (24 hrs.)	WL

Sr. No.	Measuring Parameters	Location	Unit	Results	WHO Limit	NEQS & BEQS Limits	Remarks
3.	Carbon Monoxide (CO)	Camp	mg/m ³	N.D.	4(24 hrs.)	5 (08 hrs.)	WL
4.	Particulate Matter (PM 2.5)	Camp	µg/m ³	10	15(24 hrs.)	35 (24 hrs.)	WL
5.	Particulate Matter (PM 10)	Camp	µg/m ³	16	45(24 hrs.)	150 (24 hrs.)	WL
6.	Ozone (O ₃)	Camp	µg/m ³	N.D.	60 (Peek Season)	130 (01 hr.)	WL

South

Sr. No.	Measuring Parameters	Location	Unit	Results	WHO Limit	NEQS & BEQS Limits	Remarks
1.	Oxide of Nitrogen (NO ₂)	Camp	µg/m ³	N.D.	25(24 hrs.)	80 (24 hrs.)	WL
2.	Sulphur Dioxide (SO ₂)	Camp	µg/m ³	N.D.	40(24 hrs.)	120 (24 hrs.)	WL
3.	Carbon Monoxide (CO)	Camp	mg/m ³	N.D.	4(24 hrs.)	5 (08 hrs.)	WL
4.	Particulate Matter (PM 2.5)	Camp	µg/m ³	10	15(24 hrs.)	35 (24 hrs.)	WL
5.	Particulate Matter (PM 10)	Camp	µg/m ³	19	45(24 hrs.)	150 (24 hrs.)	WL
6.	Ozone (O ₃)	Camp	µg/m ³	N.D.	60 (Peek Season)	130 (01 hr.)	WL

203. The air quality results from the four locations (East, West, North, South) show favorable compliance with both WHO and NEQS guidelines. In all regions, pollutants like Oxide of Nitrogen (NO₂), Sulphur Dioxide (SO₂), Carbon Monoxide (CO), and Ozone (O₃) were either non-detectable or well below the established limits, indicating excellent air quality with minimal environmental impact. This suggests that the project area does not contribute significantly to these major air pollutants.
204. For Particulate Matter (PM 2.5 and PM 10), the results in all locations were well within the acceptable limits of WHO and NEQS. Specifically, PM 2.5 ranged from 10 to 13 µg/m³, well below the 15 µg/m³ limit for 24-hour exposure as per WHO standards, and PM 10 ranged from 16 to 28 µg/m³, far below the 150 µg/m³ limit set by NEQS. This indicates that particulate pollution is not a major concern in the project area.
205. In conclusion, the environmental monitoring across all four sides of the project reveals favorable air quality with minimal pollutant levels, indicating compliance with both international and national standards. The results provide confidence that the project area will not adversely impact air quality or public health with regard to the measured air pollutants.

6.9.2 Noise Monitoring

206. The twenty-four (24) hours noise level monitoring was carried out at Pashta Khan and Garambowed (PIS) Subproject site using Digital Noise level meter.

i. Test Results and Discussion

207. Following table 6-7 shows comparison of noise level monitoring results obtained during the instrumental monitoring.

Table 6-7: Noise Level Test Results

S. No	Time	Unit	First Quarter	Second Quarter	WHO Limit	NEQS & BEQS Limits
01	10:00 AM	dB(A)	59.3	61.4	55 dB(A) (Day time)	55 dB(A) (Day time)
02	11:00 AM		59.6	62.2		
03	12:00 PM		60.8	62.5		
04	01:00 PM		61.9	61.7		
05	02:00 PM		61.6	63.8		
06	03:00 PM		63.8	62.5		
07	04:00 PM		59.6	60.4		
08	05:00 PM		57.4	59.9		
09	06:00 PM		58.8	57.7		
10	07:00 PM		56.9	57.8		
11	08:00 PM		52.6	56.4		
12	09:00 PM		54.8	56.5		
13	10:00 PM		53.2	54.4		
14	11:00 PM		51.6	53.3	35 dB(A) (Night time)	45 dB(A) (Night time)
15	12:00 AM		53.4	52.7		
16	01:00 AM		52.3	51.4		
17	02:00 AM		49.7	51.3		
18	03:00 AM		49.9	50.1		
19	04:00 AM		46.8	47.2		
20	05:00 AM		45.6	45.4		
21	06:00 AM		48.7	45.6		
22	07:00 AM		43.8	47.4	55 dB(A) (Day time)	55 dB(A) (Day time)
23	08:00 AM		48.6	51.4		
24	09:00 AM		53.2	57.5		
Average			54.3	55.4		

208. The noise level monitoring at sites was carried out during day and night with the objective to assess the off working noise levels as well.

209. As evident from the results obtained, the average noise level at all intervals falls within the WHO, BEQS and NEQS limits of 65 and 75 dB set for areas.

6.9.3 Monitoring of Metrological Data

i. Methodology

210. During the reporting period, metrological conditions of the construction site was monitored for 24 hours. As evident from the below table 6-8, almost all parameters falls within the permissible limits set under NEQS.

211. Following is a comparison of the results obtained.

Table 6-8: Metrological Data Analysis

S.No.	TIME	Wind Direction		Wind Velocity		Humidity		Pressure	
		First Quarter	Second Quarter	First Quarter	Second Quarter	First Quarter	Second Quarter	First Quarter	Second Quarter
	Hours			m/sec		%		Mm of Hg	
01	10:00 AM	SW	SN	1.87	2.55	97	94	758	751
02	11:00 AM	N	S	1.68	1.58	91	92	743	734
03	12:00 PM	N	W	1.85	1.84	99	94	748	737
04	01:00 PM	SW	SW	1.87	2.82	94	95	741	740
05	02:00 PM	N	S	2.98	1.91	95	94	753	750
06	03:00 PM	SW	NW	1.78	3.73	96	95	729	724
07	04:00 PM	NS	NS	1.89	2.81	94	97	757	754
08	05:00 PM	NS	NS	1.28	2.24	82	85	756	751
09	06:00 PM	NS	NW	1.76	1.58	89	84	798	792
10	07:00 PM	N	S	2.27	3.41	87	82	778	767
11	08:00 PM	N	W	2.96	3.35	86	84	725	731
12	09:00 PM	NS	NS	2.63	1.25	88	83	735	737
13	10:00 PM	N	N	2.58	2.71	89	82	795	774
14	11:00 PM	NS	NS	3.04	2.06	85	86	745	740
15	12:00 AM	N	S	3.96	2.85	82	84	735	736
16	01:00 AM	N	W	3.78	2.47	89	87	756	757
17	02:00 AM	NS	NS	4.31	3.47	83	85	725	729
18	03:00 AM	N	N	4.29	3.26	85	84	795	767
19	04:00 AM	NS	NS	4.26	3.24	87	85	734	739
20	05:00 AM	NW	NS	5.38	4.32	89	81	758	757
21	06:00 AM	NW	SN	5.78	4.74	96	92	767	760

S.No.	TIME	Wind Direction		Wind Velocity		Humidity		Pressure	
		First Quarter	Second Quarter	First Quarter	Second Quarter	First Quarter	Second Quarter	First Quarter	Second Quarter
	Hours			m/sec		%		Mm of Hg	
22	07:00 AM	NW	NW	5.12	3.11	94	93	795	793
23	08:00 AM	N	N	4.78	5.70	99	95	736	731
24	09:00 AM	N	S	4.65	5.61	97	93	787	771

6.9.4 Monitoring of Drinking and Waste Water Quality

i. Methodology

212. During the reporting period, drinking water and waste water quality of the Construction site was monitored for the agreed parameters given in the SSEMP. High density sterilized polyethylene bottles were used for the sampling. The collected samples were preserved, sealed and chilled at 40°C as recommended. Grab method is used for sampling and preservation of water whereas.

ii. Drinking Water Test Results and Discussion

213. The drinking water demand is being met from bore hole dug out at the construction site. At the first instance, water is pumped to elevated storage tank from where it is supplied to the consumer points through a pipe network.

214. The water quality results show strong compliance with WHO and NEQS standards. Microbial contamination is absent, with non-detectable levels of Total Bacteria, Coliforms, E-Coli, and Facial Coli. Turbidity (1 NTU) and Colour (1 TCU) are within limits, and Residual Chlorine (0.3 mg/L) is optimal. pH (7.22), Total Hardness (280 mg/L), Fluoride (0.25 mg/L), Chloride (200 mg/L), and Nitrate (0.1 mg/L) are within safe levels. TDS (500 mg/L) is also below the 1000 mg/L limit. Heavy metals like Lead and Arsenic are well within permissible levels, confirming the water's safety. Following is the comparison of the results obtained for drinking water parameters shown in Table 6-9.

Table 6-9: Drinking Water Quality (Bore Water) Report

S.No	Parameters	Unit	Testing Method	BEQS Limits	NEQS Limits	WHO Limits	Results	Remarks
1.	Total Bacteria Count	TBC (count/ml)	Total Viable Count	-----	-----	-----	N.D.	-
2.	Total Coliform	TC (count/ml)	APHA 922 B	0/100 ml	0/100 ml	0/100 ml	N.D.	WL
3.	E-Coli	EC (count/ml)	Total Viable Count	0/100 ml	0/100 ml	0/100 ml	N.D.	WL
4.	Facial Coli	FC (count/ml)	APHA 922 B	0/100 ml	0/100 ml	0/100 ml	N.D.	WL

S.No	Parameters	Unit	Testing Method	BEQS Limits	NEQS Limits	WHO Limits	Results	Remarks
5.	Turbidity	NTU	HACH Turbidity meter	<15	<5	<15	<1	WL
6.	Taste	Taste	Sensory Evolution	Obj/Non Obj	Obj/Non Obj	Obj/Non Obj	Tasteless	WL
7.	Odour	Odor	Sensory Evolution	Obj/Non Obj	Obj/Non Obj	Obj/Non Obj	Odourless	WL
8.	Colour	TCU	Pt-Co method	≤ 15 TCU	≤ 15 TCU	≤ 15 TCU	01	WL
9.	Phenolic Compounds	As Phenol (mg/L)	ASTM D-1783	-	-	-	<0.001	WL
10.	Residual chlorine	Cl ₂ (mg/L)	HACH Method 8167	0.2-0.5	0.2-0.5	-	0.3	WL
11.	Ph@25° C	PH	ASTM D-1293	6.5 to 8.5	6.5 to 8.5	6.5 to 8.5	7.22	WL
12.	Total Dissolved Solid	TDS (mg/L)	APHA 2540-C	< 1000	< 1000	< 1000	500	WL
13.	Total Hardness	As COCO ₃ (mg/L)	APHA 2340-C	< 500	< 500	-	280	WL
14.	Fluoride	F ₁ (mg/L)	APHA 4500-F 1	≤ 1.5	≤ 1.5	1.5	0.25	WL
15.	Chloride	CL ₁ (mg/L)	APHA 4500-Cl 1	< 250	< 250	250	200	WL
16.	Cyanide	CN ₁ (mg/L)	HACH Method 8027	≤ 0.05	≤ 0.05	0.05	N.D.	WL
17.	Nitrate	NO _{3_1} (mg/L)	HACH Method 8192	≤ 50	≤ 50	50	0.1	WL
18.	Nitrite	NO _{2_1} (mg/L)	APHA 4500-NO _{2_1} -B	≤3.0 (P)	≤3.0 (P)	3	0.002	WL
19.	Antimony	Sb (mg/L)	ASTM D-3697	≤0.005	≤0.005	0.02	<0.005	WL
20.	Aluminium	Al (mg/L)	ASTM D-857	≤0.2	≤0.2	0.2	<0.028	WL
21.	Arsenic	As (mg/L)	ASTM D-2972	≤0.05	≤0.05	0.01	<0.05	WL
22.	Boron	B (mg/L)	ASTM D-3082	0.3	0.3	0.3	N.D.	WL
23.	Barium	Ba(mg/L)	ASTM D-4382	0.7	0.7	0.7	N.D.	WL
24.	Chromium Total	Cr(mg/L)	ASTM D-1687	≤0.05	≤0.05	0.05	<0.0054	WL
25.	Copper	Cu(mg/L)	ASTM D-1688	2	2	2	<0.0045	WL
26.	Cadmium	Cd(mg/L)	ASTM D-3557	0.01	0.01	0.03	<0.0028	WL
27.	Lead	Pb(mg/L)	ASTM D-3559	≤0.05	≤0.05	0.01	<0.013	WL
28.	Manganese	Mn(mg/L)	ASTM D-858	≤0.5	≤0.5	0.5	<0.0016	WL

S.No	Parameters	Unit	Testing Method	BEQS Limits	NEQS Limits	WHO Limits	Results	Remarks
29.	Mercury	Hg (mg/L)	ASTM D-3223	≤0.001	≤0.001	0.001	<0.001	WL
30.	Nickel	Ni(mg/L)	ASTM D-3866	≤0.05	≤0.02	0.02	<0.0080	WL
31.	Selenium	Se(mg/L)	ASTM D-3858	0.01	0.01	0.01	<0.01	WL
32.	Zinc	Zn (mg/L)	ASTM D-1691	5	5	3	<0.0033	WL

Note:

BEQS= Baluchistan Environmental Quality Standards

NEQS= National Environmental Quality Standards

WHO= World Health Organization Limits

WL= Within Limit

6.10 Waste Management

215. There is no workshop area, washing yard, or batching plant at the project site. Therefore, no bulk waste is produced from this site. The burning of solid waste at the workplace is strictly prohibited. Waste material is disposed of in the waste yard in a safe condition, ensuring that it does not block access for other users and people.

a. Kitchen and General/Domestic Waste

216. This type of waste has been generated from the construction camp site, offices of the project. The utilities setup at the camp was inadequate. Additionally, the kitchen's hygiene conditions were poor. Housekeeping was also neglected, with waste and debris left unmanaged.

b. Hazardous Waste – Medical Waste and Oily Waste

217. Medical waste is generated from the site's first aid facilities, while oily empty drums are generated from construction activities. The medical waste generated from the project site is collected at one designated location and sent to an incinerator for safe disposal. Other hazardous waste is transported to disposal sites using a vehicle. Additionally, hazardous waste such as oily drums is kept at the project site until they become completely dry. Subsequently, these dry drums are sold to third-party junk dealers.

Table 6-10- Solid Waste generated at sub-project sites are as under

Sr. #	Name of Sub-Project	Solid Waste generated in Kilograms/day	Types of Waste	Remarks
1	Pashta Khan and Garambowad Perennial Irrigation Sub Project (NCB-4)	0.2 Kg/day	Plastic Waste	Stored at designated area in the camp and then auctioned through approved procedure
2		0	Used Tyres	Stored in junk yard for auction
3		12.9 ltr/day	Used Engine Oil	Stored in barrels

Sr. #	Name of Sub-Project	Solid Waste generated in Kilograms/day	Types of Waste	Remarks
				Used for Shuttering lubrication
4		0.2 Kg/day	Biodegradable waste (Vegetables, Food etc.)	Landfill
5		0	Medical Waste	No medical waste produced at NCB-04 in the month of September. Medical wastes incinerated 1 km away from camp site

6.11 HEALTH AND SAFETY

Community Health and Safety

218. During the reporting period, the Contractor took utmost care for community health and safety. There have been no massive traffic activities initiated during this duration of the project. Only material supply vehicles are being used at the site for shifting materials. The project site is located near office buildings, and no heavy machinery is involved. No incidents related to community health and safety have occurred during the current reporting period.

Worker Safety and Health

219. First aid medical facilities are being provided by the contractor at the site. There were no caution tapes or safety signboards on-site, increasing the risk of accidents due to the lack of proper warnings. Proper supervision and monitoring of excavation and compaction activities during the construction phase are carried out in compliance with the Health and Safety requirements as per standard specifications outlined in the EMP and in the Contract. No incidents related to the workers' health and safety have occurred during the current reporting period. (Annexure IX).

6.11.1 Training

220. The Contractor maintains a strong working relationship with the Consultants' environmental staff. Regular training and awareness campaigns at the Contractor's Camp and work sites keep workers informed about site-specific risks and emergency preparedness.

221. In the reported month of October 2024, following trainings had been conducted as mentioned in Table6-12.

Table 6-11: Details of Health and Safety Trainings on Site.

Sr. #	Name of Sub-Project	Training Details	Date
1	NCB-04 Project site	Concrete Safety	18-10-2024

6.12 FUNCTIONING OF THE SSEMP

6.13 GOOD PRACTICE AND OPPORTUNITY FOR IMPROVEMENT

- The Contractor has displayed temporary precautionary signboards and warning tapes inside the construction site, around material storage, and cement bags.
- Clean drinking water is provided to workers and staff.
- Monthly and weekly environmental monitoring checklists are timely submitted in the monthly EMR report.
- A good liaison is established between the PMO, Supervisory consultant, and contractor to ensure adherence to environmental safeguard guidelines.
- PPEs Compliance was maintained, ensuring worker safety.
- First Aid Box was available on-site for emergency medical assistance.
- Fire Extinguishers were strategically placed for fire safety.
- Water Sprinkling was being carried out to control dust and maintain air quality.

6.14 OPPORTUNITIES FOR IMPROVEMENT

222. To maintain a clean and safe working environment, the contractor should implement a scheduled cleaning routine for the kitchen areas and ensure regular inspections to uphold hygiene standards. Proper safety signboards and warning tapes should be installed at critical locations on-site and maintained to ensure visibility. A structured housekeeping plan should be enforced at both the construction site and worker camps to manage waste collection, debris removal, and overall cleanliness, contributing to improved safety and operational efficiency.

7 DESCRIPTION OF MANYALO RAIKO & RIND ALI (PIS) SUBPROJECT, MULA RIVER BASIN(NCB-07)

7.1 PROJECT DESCRIPTION

223. The sub-project is situated in Khuzdar district, approximately 50 km northeast of Khuzdar. Manyalo and Raiko are located on the right bank of the river, while Rind Ali is situated on the left bank. Access to the sub-project site from Khuzdar is through the M-8 motorway, which connects to a dirt road crossing the Mula River Basin boundary on the northeast side of M-8. The main components of the sub-projects include (i) a weir structure on the Mula River with four channels: the Left Main Channel of Manyalo, Manyalo Right Channel, Rind Ali Channel, and Raiko Channel. (ii) The construction of hydraulic structures, including Time Division Structures/Flow Division structures, Fall Structures, Sump, Culverts, Aqueducts, Syphons, Super Passages, and Flood Protection Bunds. (iii) The construction of social structures and command area development in the sub-project area.

224. Project Layout is shown in Figure 7-1.

SALIENT FEATURES:

- | | |
|--------------------------------|---------------------------|
| • Total Revised Cost | Rs. 971.417 (Rs. Million) |
| • Total Command Area | 678 hector |
| • Left Main Channel of Manyalo | 7,110 Meter |
| • Manyalo Right Channel Length | 9,263 Meter |
| • Rind Ali Channel Length | 4,370 Meter |
| • Raiko Channel Length | 5,800 Meter |

PROJECT PROGRESS:

- | | |
|-----------------------|--------|
| • Overall Target: | 53.30% |
| • Physical Progress: | 6.57% |
| • Financial Progress: | 3.04% |

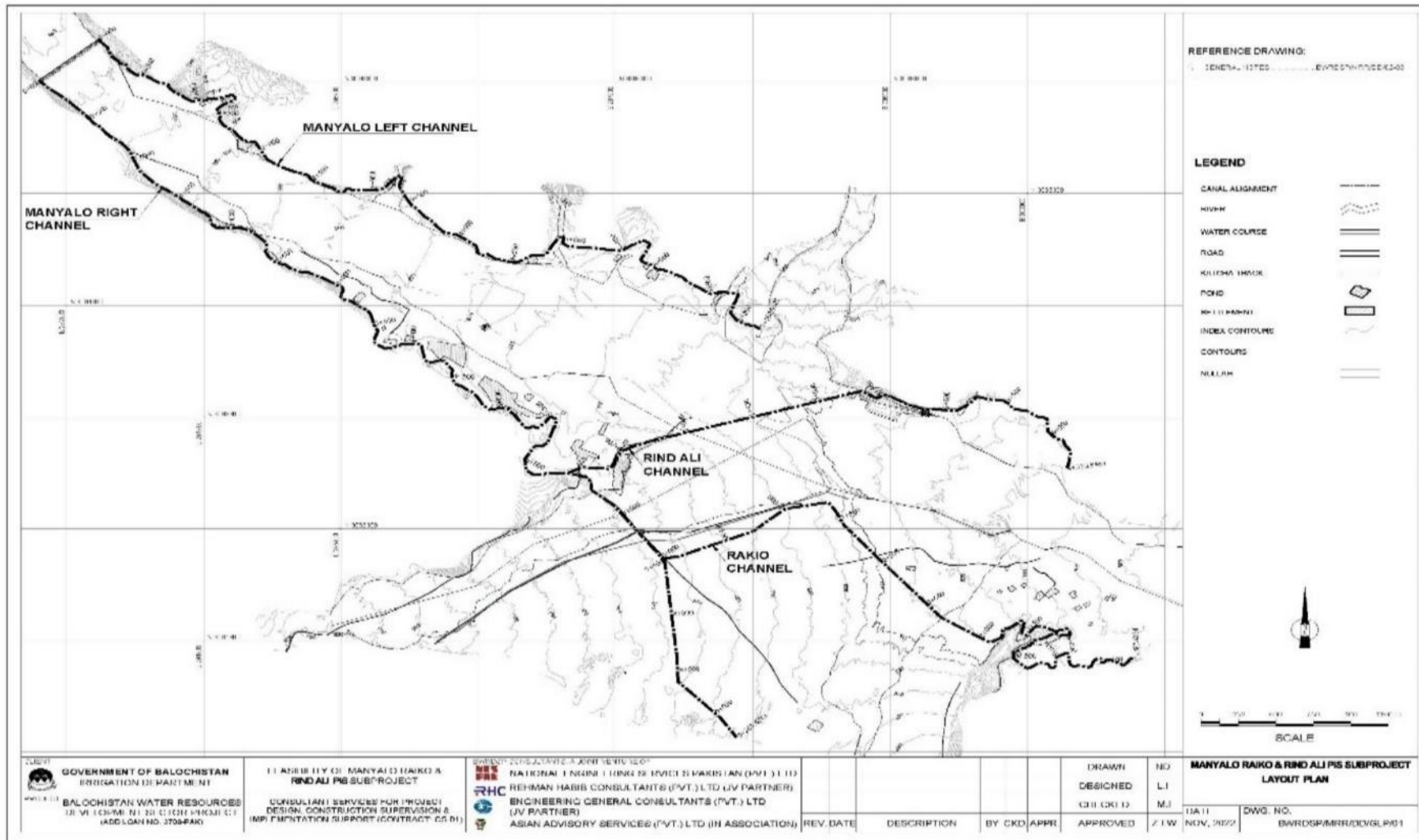


Figure 7-1: Layout Map

7.2 ACTIVITIES DURING CURRENT REPORTING PERIOD

225. An overview of the current progress for various activities under the Killi Sardar Akhtar Perennial Irrigation Subproject (NCB-06) is provided in Table 7-1 below. It outlines the completion percentages of key construction tasks, reflecting the status of each activity as the project advances

Table 7-1: Manyalo Raiko & Rind Ali (Pis) Subproject (NCB-07) works progress

S.No.	Description	Construction Activities	Location	status
1.	Bund 1	15 layers	0+000-1+845.38	7% completed
2.	Weir	2000 cu\m	0+015-+225	10% completed
3.	Manyalo Channel	1700 meters	3+862-50 to 5+200	10% completed
4.	Excavation in channels			20% completed

Construction Material

226. For the construction activities, borrow areas have been selected for the extraction of materials, which have already been approved by the Engineers. The contractor has prepared a Borrow Area Management Plan that pertains to the measures incorporated during the identification of borrow area locations, material extraction, and rehabilitation.
227. Major construction materials used at NCB-06 include reinforced steel, cement, sand and aggregates supplied from the approved sources as mentioned in the SSEMP. Sources of construction materials are listed below. The Details for types of construction material used and their sources for the time period July - December 2024 are mentioned in Table 7-3

Table 7-2- Detail of material and sources of Siri Toi Dam sub-project NCB-06

Sr. No.	Name of Material	Source of Material	Quantities Used
1	Cement	Fauji Cement Ltd, Mapple Leaf	35,000 bags
2	Steel	Agha Steel Pvt Ltd Karachi	400 tonne
3	Earth work/fill	Borrow Material from site	85,000 cu.m

Human Resources

228. As part of its responsibilities, the contractor should prioritize hiring local staff, including both skilled and unskilled labor. This approach ensures that people living near the project area benefit financially, helping to address unemployment and improve their socio-economic status. The contractor has prioritized local hires based on availability and capability. The Details for categories of Employees both Skilled and Unskilled are mentioned in Table 7-4.

Table 7-3- Manpower Technical/skilled/ unskilled staff details

Designation	Number
Project Manager	1
Chief Surveyor/Quantity Surveyor	1
Surveyor	1
Surveyor Helper	2
General Forman	2
Material Engineer	1
Lab Technician	1
Lab Helper	2
AutoCAD Operator	2
Accountant	1
Storekeeper	2
Procurement Officer	1
Supervisor	2
Mechanic	1
Auto Electrician	1
Environmental Specialist	1
HSE Officer	1
Batching Plant Operator	-
Batching Plant Helper	-
Crush Plant Operator	1
Crush Plant Helper	2
Heavy Machinery Operator	10
Heavy Machinery Helper	5
Diesel Store	1
Security Guard	2
Cook	1
Cook Helper	1
Labor	35
Mason	10
Total	91

Equipment Machinery

229. The contractor is required to use heavy machinery to ensure the timely completion of the project. Proper maintenance of this machinery is crucial for both effective results and the safety of workers nearby. Experts and supervisors of NCB-06 perform daily inspections of the machinery before and after use. The equipment is also cleaned daily and maintained by assigned operators. Details of the heavy machinery in use on-site are documented. The details for Heavy Machinery working on site are mentioned in Table 7-5.

Table 7-4: List of Machinery/Equipment's

Name of Machine	Number
Excavator	4
Roller	1
Grader	1
Loader	1
Dozer	-
Transit Mixer	2
Dumper	3
Tractor 240	3
Pickup	2
Generator	5
Water Bowser	3
Batching Plant	-
Crush Plant	1
Diesel Tank	2
Motor Cycle	2
Low Bed	-
Steel Machine	1
Toyota Car (Surf)	1
Total	32

7.3 DESCRIPTION OF ANY CHANGES IN NCB-06 DESIGN

230. During the reporting period, no changes were made in the design of NCB-06.

7.4 DESCRIPTION OF ANY CHANGES TO AGREED CONSTRUCTION METHODS

231. The construction activities at various sections of Site are in progress in accordance with the Engineer's approved methodology and specifications



On going Construction activities at NCB-07



7.5 ENVIRONMENTAL SAFEGUARD ACTIVITIES

7.5.1 General Description of Environmental Safeguard Activities

232. During the reporting period, the Contractor carried out multiple construction activities. At Bund 1, 15 layers of work were completed from 0+000 to 1+845.38. Work on the weir progressed with 2000 cubic meters completed from 0+015 to 0+225, reaching 10% completion. The Manyalo Channel construction covered 1700 meters from 3+862.50 to 5+200, with overall progress at 20%. Additionally, excavation in channels advanced, achieving 20% completion.
233. The Personal Protective Equipment (PPE) like safety helmets, high viz jackets, gloves, shoes etc. were generally being used by the project staff including skilled and unskilled labour.
234. Water Sprinkling was being carried out to control dust and improve air quality.
235. Dustbins at Camp Site were provided to facilitate proper waste disposal and maintain cleanliness.
236. Medical Facility in Camp was available for emergency healthcare support.
237. Fire Extinguishers at Camp Site were strategically placed for fire safety.
238. Toolbox talks and staff induction orientation must be conducted more frequently. The trucks carrying construction material should be covered with tarpaulin sheets to avoid dust pollution.
239. Washrooms should have sufficient facilities and maintain hygienic conditions.
240. During the reporting period, quarterly instrumental environmental monitoring was also held at the site during september 2024. Results obtained and commentary thereon has separately been given under dedicated section 7.8 of the report.

7.5.2 Corrective Action Plans (CAPs):

241. During the reporting period, the Environment Specialist of PIC/SC conducted regular visits and monitored the project for the implementation of the Environmental Management Plan (EMP). As a result of these visits, Corrective Action Plans (CAPs) have been prepared for EMP non-compliance. The details of these CAPs are provided in the Table 7-6 below.

Table 7-5: Manyalo Raiko & Rind Ali (Pis) Subproject, Mula River Basin(Ncb-07) - Corrective Action Plan CAP.

Sr. No	EMP Observations	Corrective Measures	Implementing Responsibility	Monitoring Responsibility	Timeline	Updated Status Closed/open
1.	Scarcity of safety signs boards	Proper safety signs should be installed by the Contractor	Contractor	CSC	7 January 2025	Open

Sr. No	EMP Observations	Corrective Measures	Implementing Responsibility	Monitoring Responsibility	Timeline	Updated Status Closed/open
2.	Uncovered Trucks carrying construction material	Ensure that trucks carrying construction materials are covered with tarpaulin sheets	Contractor	CSC	Immediately	Open
3.	Unhygienic conditions Washrooms	Ensure washrooms have sufficient facilities and are kept clean and hygienic	Contractor	CSC	7 January 2025	Open

7.5.3 Issues Tracking (Based on Non-Conformance Notices) .

242. Non-compliance noticed: The construction site was found lacking adequate safety signboards, trucks carrying construction materials were not covered with tarpaulin sheets, and washrooms were in unhygienic conditions.
243. Instruction to Contractor: The Contractor has been instructed to install proper safety signs throughout the construction site, ensure that trucks carrying construction materials are covered with tarpaulin sheets to prevent dust pollution, and maintain washrooms with sufficient facilities while ensuring they are kept clean and hygienic.

7.6 Grievance Redressal Mechanism.

244. As detailed in the SSEMP, Grievance Redressal Committees (GRCs) at field and project levels with composition thereof have already been notified and are functional. For registration of complaints, complaint registers are available at field offices and at sites wherein complainant can register complaint(s).
245. Complaint register is available inside camp to receive complaints from local community/project affected people and contractor's staff.
246. Upon receipt of complaint(s), GRC follow the specified procedure to address the complaint and resolve the issue within prescribed time frame.
247. During the reporting period, a complaint was received (in November 2024) from the residents of Mouza Rind Ali who desired to provide irrigation water from right channel of Manyalo. Different meetings were held with locals of Rind Ali residing at left side of the Mula river to convince them that this is not possible to provide irrigation water from right channel crossing Mula river through lined channel or buried pipe of 1.5 km (1500 meters). They were informed that irrigation water will be provided from the left channel that is the most feasible and convenient.
248. To resolve the issue, a meeting was arranged at site on 22-11-2024. The applicants and other were informed in advance to gather on 22-11-2024 at a common place of Dr. Ali Ahmad s/o Dost Muhammad of Manyalo killi. About 24 participants were present in the meeting. These participants belonged to Rind Ali, Raiko, and Sia Boz of Left canal while other belonged to Manyalo and Khair.

249. The Social and Engineering team of the Consultants participated in person (Mr. Haseeb Babar and Abdul Basit RE) while Design Engineer and Sr. Safeguard Specialist of Consultants joined the meeting on line. The DPD MRB also joined the meeting online effectively.
250. The design parameters and its feasibility were explained to the locals. In the same day, 03 sessions were held to convince them. Even the team stayed night at site to address the issue with mutual cooperation and understanding. In the last, the locals agreed on left channel.
251. Here is undertaking of the applicants of Rind Ali and others showing their willingness to irrigate their lands located on left side through the left channel. The undertaking in Urdu is attached herewith while its English translation is being provided below.

Application to the Project Director, BWRDSP

- We, the residents of Rind Ali request that the project staff of MRB, Resident Engineer and Haseeb Babar of Social team held a meeting and decided that irrigation water should be provided from Manyalo left channel to irrigate our land. We are about 50 households not satisfied with the previous design to irrigate our land through pipe from right channel.
- Therefore, the present design by the Asian Development Bank is acceptable to irrigate our land from the left channel. And our water share of right channel may be added in the left channel to irrigate our barren land.
- We also request to the PD saheb to construct a head at RD 7 km so that in case we are not getting irrigation water from the left channel, we could use river water through our old water course.
- In the presence of RE, Social team and Wadera Muhammad Yaqoob, we hereby signed as below:

Sr. No	Name of Participant	Father's Name	ID Card No	Phone No
1	Mumtaz Ismail	M. Ibrahim	51401-6411833-3	03358158840
2	Maulvi M. Hassan	M. Umar	51401-7045253-1	03360384130
3	Raza Muhammad	M. Bakhsh	15401-0331921-9	-
4	M. Khan	M. Hussain	51401-2283122-5	03332722954
5	Laal Muhammad	N. Hassan	51401-7057610-7	03363177130
6	Ali Hassan	M. Ibrahim	51401-1011322-5	03322881134
7	Binyamin	M. Ismail	51401-1550290-9	03333061509
8	Sana Ullah	Raza Muhammad	51401-1003146-3	-
9	Naimat Ullah	Raza Muhammad	-	03360845167
10	Shoaib Ahmad	M. Ishaq	51401-7188781-9	-
11	Dost Muhammad	Laal Muhammad	-	03314926405
12	Wadera M. Yaqoob	Mola Bakhsh	51401-8833410-1	03337975066

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Phone No	Name of the Participants	Father's Name	Phone No
0332-59158540	Abdul Basit	Abdul Wahid Bhutto	0332-3568150
0332-6-0254130	Haseeb Babar	Abdul Waheed Babar	0332-7941197
0332-2722954	Abdul Salam	Muhammad Yousaf	03343728525
0332-177130	Muhammad Ishaq	Muhammad Ibrahim	-
0322-2-891134	Lal Muhammad	Muhammad Hassan	03363177130
0332-3061509	Muhammad Yaqoob	Maula Bakhsh	03337975066
0332-0845167	Dr. Ali Ahmad	Dost Muhammad	03337991677
0331-4926405	Abdul Hameed	Abdur Rehman	03366773311
0332-7975066	Muhammad Kaif	Muhammad Arif	03353276706
	Fareed Ahmad	Dr. Ali Ahmad	03378625814
	Salman Khan	Noor Khan Gul	03338131156
	Shahbaz	Shahnawaz Khan	03369049947
	Arif Hameed	Abdul Hameed	03313933627
	Haji Muhammad Ismail	Abdul Kareem	03337973561
	Shakeel	Bashir Ahmad	03352700265
	Ijaz Ahmad	Amir Khan	03026133965
	Waseem	Ghulam Nabi	03341813365
	Ghulam Nabi	Noor Muhammad	03337997438
	Sayed Khan	Badal Khan	03337771559
	Wali Muhammad	Omaid Ali	03337991369
	Muhammad Ashraf	Abdul Hakeem	03360034031
	Abdul Star	Muhammad Yousaf	03337970154
	Abdul Baqi	Ghulam Rasool	03342470971
	Sharbat Khan	Sher Muhammad	03337973562

Table 7-6: List of Other Participants of General Meeting

Sr. No	Name of the Participants	Father's Name	Phone No
1	Abdul Basit (Resident Engineer)	Abdul Wahid Bhutto	0332-3568150
2	Haseeb Babar (Social organiser)	Abdul Waheed Babar	0332-7941197
3	Abdul Salam	Muhammad Yousaf	03343728525
4	Muhammad Ishaq	Muhammad Ibrahim	-
5	Lal Muhammad	Muhammad Hassan	03363177130
6	Muhammad Yaqoob	Maula Bakhsh	03337975066
7	Dr. Ali Ahmad	Dost Muhammad	03337991677
8	Abdul Hameed	Abdur Rehman	03366773311
9	Muhammad Kaif	Muhammad Arif	03353276706
10	Fareed Ahmad	Dr. Ali Ahmad	03378625814
11	Salman Khan	Noor Khan Gul	03338131156
12	Shahbaz	Shahnawaz Khan	03369049947
13	Arif Hameed	Abdul Hameed	03313933627
14	Haji Muhammad Ismail	Abdul Kareem	03337973561
15	Shakeel	Bashir Ahmad	03352700265
16	Ijaz Ahmad	Amir Khan	03026133965
17	Waseem	Ghulam Nabi	03341813365
18	Ghulam Nabi	Noor Muhammad	03337997438
19	Sayed Khan	Badal Khan	03337771559
20	Wali Muhammad	Omaid Ali	03337991369
21	Muhammad Ashraf	Abdul Hakeem	03360034031
22	Abdul Star	Muhammad Yousaf	03337970154
23	Abdul Baqi	Ghulam Rasool	03342470971
24	Sharbat Khan	Sher Muhammad	03337973562

Scanned copy of above listed participants

Participants of the meeting regarding social issues in the guest room of Dr. Ali Ahmed at Manajala. Date - 22/4/2024

- 1) Abdul salam s/o Muhammad Yousef - 03343798595 M-R
- 2) Muhammad Isahq s/o Muhammad Ibrahim - 0111 Rind ALI
- 3) Lal Muhammad s/o Muhammad Hassan - 03365177130 Rind ALI
- 4) Muhammad Yagoub s/o Mulla Bakhsh - 03337975066 Rind ALI
- 5) Dr. Ali Ahmed s/o Dost Muhammad - 03337991677 M-R
- 6) Abdul Hameed s/o Abdul Raheem - 03366779311 M-L
- 7) Muhammad Kaif s/o Muhammad Arif - 03353276706 M-R
- 8) Fareed Ahmed s/o Dr. Ali Ahmed - 03388625814 M-R
- 9) RE - Abdul Basit Phutto sb
- 10) Haseeb Babat sb (Social Organizer) Lt - ZARAR.
- 11) Salman Khan s/o Noor Ikhtiar Gul - 03338131156 M-R
- 12) Shabbaz s/o Shah Nawaz Khan - 03369049947 M-R
- 13) Arif Hameed s/o Abdul Hameed - 03319933627 M-R
- 14) Hajim-Gmail s/o Abdul Kareem - 03337973561 M-R
- 15) Shakeel s/o Bashir Ahmed - 03352700208 M-R
- 16) Qasim Ahmed s/o Amir Khan - 030263390 M-R
- 17) Waseem s/o Ghulam Nabi - 03341813365 M-R
- 18) Ghulam Nabi s/o Noor Muhammad - 03337997438 M-R
- 19) Sayed Khan s/o Badar Khan - 03337771559 M-R
- 20) Wali Muhammad s/o Email Ali - 0333-7991369 M-R
- 21) Muhammad Ashraf s/o Abdul Hameed - 0336-0034031 M-R
- 22) Abdul STAR s/o Muhammad Yousef - 0333-7970154 M-L
- 23) Abdul Bagi s/o Gulam Rasool - 03342470971 M-L
- 24) Shabbir Khan s/o Shair Muhammad - 03337973562 M-L
- 25) Atzel

Meeting Photographs with the Complainants



7.7 Unanticipated Environmental Impacts or Risks.

252. During the reporting period, neither unanticipated environmental impacts were observed nor reported by the Contractor.

7.8 MONITORING OF AIR, NOISE AND WATER AT MANYALO RAIKO & RIND ALI (PIS) SUBPROJECT(NCB-07)

7.8.1 Ambient Air Monitoring

i. Methodology and Instrument Used

253. Ambient air quality monitoring was carried out for the assessment of parameters (NO, NO₂, SO₂, CO, O₃, SPM, PM₁₀, PM_{2.5}, Humidity, Wind direction, Wind velocity, Pressure etc). The Air Quality Monitoring Station (AQMS-09), employed for PM₁₀ & PM_{2.5}, is a fully integrated air monitoring station that delivers 'near reference levels' of performance parameters. With a size of large suitcase, it can measure up to 20 different gaseous and particulate pollutants and environmental parameters simultaneously. The AQMS 09 offers optimal balance between performance and measuring criteria pollutants.

ii. Test Results and Discussion

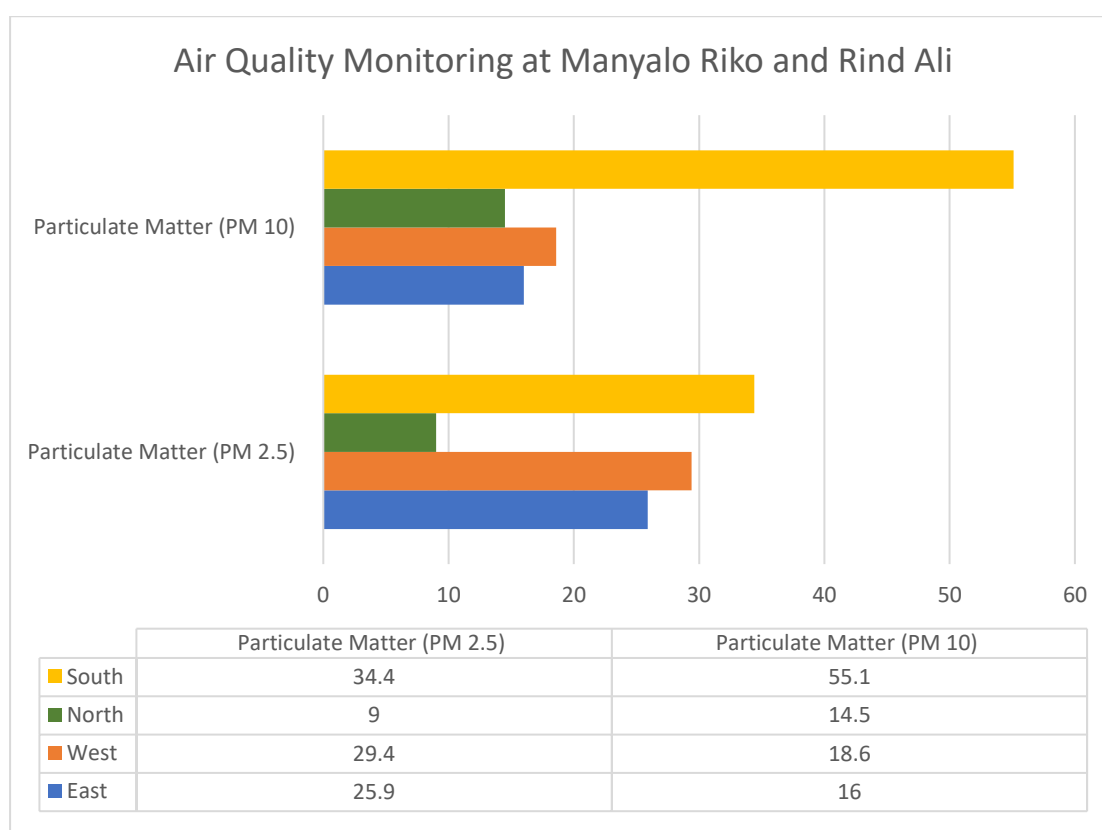


Figure 7-2: Graphical representation of Ambient Air Quality at NCB-07

254. Ambient air quality (NO, NO₂, SO₂, CO, O₃, SPM, PM₁₀, PM_{2.5}, Humidity, Wind direction, Wind velocity, Pressure etc) were monitored for twenty-four (24) hours at the locations identified by the SC and results obtained are shown as Annexure XV.

255. All the results(provided as Table 7-7) are within the permissible limits and compliance with the BEQS, NEQS and WHO standards. However, it is worth noting that during the first quarter, the contractor has not performed quarterly monitoring at the sub-project sites.

Table 7-7: Ambient Air Quality Monitoring Test Results

East

Sr. No.	Measuring Parameters	Location	Unit	Results	WHO Limit	NEQS & BEQS Limits	Remarks
1.	Oxide of Nitrogen as (NO ₂)	Camp	µg/m ³	N.D.	25(24 hrs.)	80 (24 hrs.)	WL
2.	Sulphur Dioxide (SO ₂)	Camp	µg/m ³	N.D.	40(24 hrs.)	120 (24 hrs.)	WL
3.	Carbon Monoxide (CO)	Camp	mg/m ³	N.D.	4(24 hrs.)	5 (08 hrs.)	WL
4.	Particulate Matter (PM 2.5)	Camp	µg/m ³	25.9	15(24 hrs.)	35 (24 hrs.)	WL
5.	Particulate Matter (PM 10)	Camp	µg/m ³	16	45(24 hrs.)	150 (24 hrs.)	WL
6.	Ozone (O ₃)	Camp	µg/m ³	N.D.	60 (Peek Season)	130 (01 hr.)	WL

West

Sr. No.	Measuring Parameters	Location	Unit	Results	WHO Limit	NEQS & BEQS Limits	Remarks
1.	Oxide of Nitrogen as (NO ₂)	Camp	µg/m ³	N.D.	25(24 hrs.)	80 (24 hrs.)	WL
2.	Sulphur Dioxide (SO ₂)	Camp	µg/m ³	N.D.	40(24 hrs.)	120 (24 hrs.)	WL
3.	Carbon Monoxide (CO)	Camp	mg/m ³	N.D.	4(24 hrs.)	5 (08 hrs.)	WL
4.	Particulate Matter (PM 2.5)	Camp	µg/m ³	29.4	15(24 hrs.)	35 (24 hrs.)	WL
5.	Particulate Matter (PM 10)	Camp	µg/m ³	18.6	45(24 hrs.)	150 (24 hrs.)	WL
6.	Ozone (O ₃)	Camp	µg/m ³	N.D.	60 (Peek Season)	130 (01 hr.)	WL

North

Sr. No.	Measuring Parameters	Location	Unit	Results	WHO Limit	NEQS & BEQS Limits	Remarks
1.	Oxide of Nitrogen as (NO ₂)	Camp	µg/m ³	N.D.	25(24 hrs.)	80 (24 hrs.)	WL
2.	Sulphur Dioxide (SO ₂)	Camp	µg/m ³	N.D.	40(24 hrs.)	120 (24 hrs.)	WL
3.	Carbon Monoxide (CO)	Camp	mg/m ³	N.D.	4(24 hrs.)	5 (08 hrs.)	WL
4.	Particulate Matter (PM 2.5)	Camp	µg/m ³	09	15(24 hrs.)	35 (24 hrs.)	WL
5.	Particulate Matter (PM 10)	Camp	µg/m ³	14.5	45(24 hrs.)	150 (24 hrs.)	WL
6.	Ozone (O ₃)	Camp	µg/m ³	N.D.	60 (Peek Season)	130 (01 hr.)	WL

South

Sr. No.	Measuring Parameters	Location	Unit	Results	WHO Limit	NEQS & BEQS Limits	Remarks
1.	Oxide of Nitrogen as (NO ₂)	Camp	µg/m ³	N.D.	25(24 hrs.)	80 (24 hrs.)	WL
2.	Sulphur Dioxide (SO ₂)	Camp	µg/m ³	N.D.	40(24 hrs.)	120 (24 hrs.)	WL
3.	Carbon Monoxide (CO)	Camp	mg/m ³	N.D.	4(24 hrs.)	5 (08 hrs.)	WL
4.	Particulate Matter (PM 2.5)	Camp	µg/m ³	34.4	15(24 hrs.)	35 (24 hrs.)	WL
5.	Particulate Matter (PM 10)	Camp	µg/m ³	55.1	45(24 hrs.)	150 (24 hrs.)	WL
6.	Ozone (O ₃)	Camp	µg/m ³	N.D.	60 (Peek Season)	130 (01 hr.)	WL

256. Considering the compliance with NEQS and WHO standards, there is no immediate need for additional mitigation measures to control dust, apart from the measures proposed in the SSEMP. These measures may include regular sprinkling of water to suppress dust and timely transportation or disposal of excess materials temporarily stored at the site.

257. It is important to regularly monitor and assess the dust levels and compliance with environmental standards throughout the project's implementation to ensure continued adherence to regulations and to address any potential concerns that may arise.

7.8.2 Noise Monitoring

258. The twenty-four (24) hours noise level monitoring was carried out at Manyalo Raiko & Rind Ali (PIS) Subproject(NCB-07) site using Digital Noise level meter.

Test Results and Discussion

259. Following table 7-8 shows comparison of noise level monitoring results obtained during the instrumental monitoring.

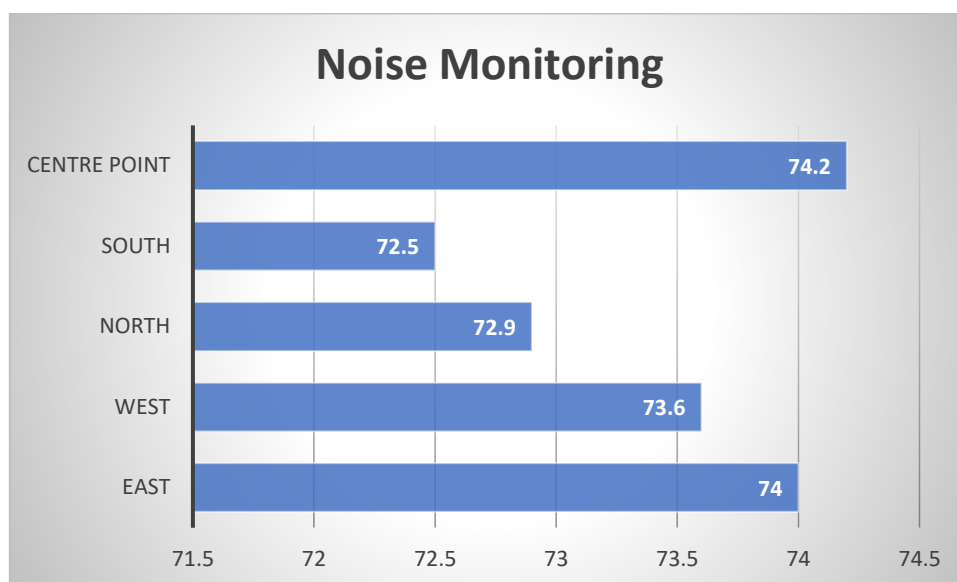


Figure 7-3: Graphical Representation of Noise Monitoring

Table 7-8: Noise Level Test Results

Sr. No	Locations	Methods	Unit	Results	WHO Limits	NEQS/BEQS Limits
1	East	ASTM E-1686-16	dB	74	55	55 ¹
2	West			73.6		
3	North			72.9		
4	South			72.5		
5	Centre Point			74.2		

260. The noise level monitoring at sites was carried out during day and night with the objective to assess the off working noise levels as well.

¹ WHO and NEQS limits for residential area during daytime

261. As evident from the results obtained, the average noise level at all intervals falls within the WHO, BEQS and NEQS limits of 65 and 75 dB set for areas.

7.8.3 Monitoring of Metrological Data

i. Methodology

262. During the reporting period, metrological conditions of the construction site was monitored for 24 hours. As evident from the below table 7-9, almost all parameters falls within the permissible limits set under NEQS.

263. Following is the comparison of the results obtained.

Table 7-9: Metrological Data Analysis

S.No.	TIME	Wind Direction		Wind Velocity		Humidity		Pressure	
		First Quarter	Second Quarter	First Quarter	Second Quarter	First Quarter	Second Quarter	First Quarter	Second Quarter
	Hours			m/sec		%		Mm of Hg	
01	09:00 AM	S	N	5.52	4.84	23	21	731	721
02	10:00 AM	SN	SW	6.57	5.47	22	21	732	722
03	11:00 PM	SN	NS	6.86	5.25	22	21	733	723
04	12:00 AM	SN	SW	6.75	5.66	22	23	734	724
05	01:00 PM	N	S	7.83	6.54	21	22	735	728
06	02:00 PM	NS	NW	7.62	6.47	21	22	735	731
07	03:00 PM	S	N	7.63	7.57	20	21	737	732
08	04:00 PM	NW	NW	8.54	7.22	20	21	733	732
09	05:00 PM	NW	NS	8.56	7.77	20	21	733	714
10	06:00 PM	NW	NW	8.58	7.74	20	22	731	720
11	07:00 PM	NW	SN	8.77	6.47	19	21	733	730
12	08:00 PM	W	N	9.57	8.24	19	20	734	732
13	09:00 PM	N	W	9.56	8.58	19	18	737	735
14	10:00 PM	NS	NS	9.55	9.45	19	18	736	734
15	11:00 PM	SW	SW	10.84	9.96	19	17	726	724
16	12:00 AM	SE	SW	10.53	10.85	19	17	725	724
17	01:00 AM	NS	NE	10.51	11.51	19	16	723	721
18	02:00 AM	NW	NS	10.72	11.74	18	16	724	722
19	03:00 AM	E	S	10.23	12.69	18	15	723	728

S.No.	TIME	Wind Direction		Wind Velocity		Humidity		Pressure	
		First Quarter	Second Quarter	First Quarter	Second Quarter	First Quarter	Second Quarter	First Quarter	Second Quarter
	Hours			m/sec		%		Mm of Hg	
20	04:00 AM	NW	NW	11.54	11.58	19	16	727	724
21	05:00 AM	NW	NW	11.57	10.47	19	17	726	724
22	06:00 AM	NW	NW	11.46	10.25	20	18	726	725
23	07:00 AM	S	S	11.64	9.14	20	20	725	723
24	08:00 AM	S	N	5.52	5.52	23	21	731	730

7.8.4 Monitoring of Drinking Water Quality

i. Methodology

264. During the reporting period, drinking water quality of the Contractor's camp was monitored for the agreed parameters given in the SSEMP. High density sterilized polyethylene bottles were used for the sampling. The collected samples were preserved, sealed and chilled at 4°C as recommended. Grab method is used for sampling and preservation of water whereas.

ii. Drinking Water Discussion

265. The drinking water demand is being met from bore hole dug out at the camp. At the first instance, water is pumped to elevated storage tank from where it is supplied to the consumer points through a pipe network.

266. Following is the comparison of the results obtained at source.

267. As evident from the above table, almost all parameters of the drinking water, at the Contractor's camp, falls within the permissible limits set under BEQS, NEQS and WHO limits.

Table 7-10: Drinking Water Quality Report

S.No	Parameters	Unit	Testing Method	BEQS Limits	NEQS Limits	WHO Limits	Results	Remarks
1.	Total Bacteria Count	TBC (count/ml)	Total Viable Count	-----	-----	-----	N.D.	-
2.	Total Coliform	TC (count/ml)	APHA 922 B	0/100 ml	0/100 ml	0/100 ml	N.D.	WL
3.	E-Coli	EC (count/ml)	Total Viable Count	0/100 ml	0/100 ml	0/100 ml	N.D.	WL
4.	Facial Coli	FC (count/ml)	APHA 922 B	0/100 ml	0/100 ml	0/100 ml	N.D.	WL

S.No	Parameters	Unit	Testing Method	BEQS Limits	NEQS Limits	WHO Limits	Results	Remarks
5.	Turbidity	NTU	HACH Turbidity meter	<15	<5	<15	<1	WL
6.	Taste	Taste	Sensory Evolution	Obj/Non Obj	Obj/Non Obj	Obj/Non Obj	Tasteless	WL
7.	Odour	Odour	Sensory Evolution	Obj/Non Obj	Obj/Non Obj	Obj/Non Obj	Odourless	WL
8.	Colour	TCU	Pt-Co method	≤ 15 TCU	≤ 15 TCU	≤ 15 TCU	02	WL
9.	Phenolic Compounds	As Phenol (mg/L)	ASTM D-1783	-	-	-	<0.001	WL
10.	Residual chlorine	Cl ₂ (mg/L)	HACH Method 8167	0.2-0.5	0.2-0.5	-	0.2	WL
11.	Ph@25° C	PH	ASTM D-1293	6.5 to 8.5	6.5 to 8.5	6.5 to 8.5	7.11	WL
12.	Total Dissolved Solid	TDS (mg/L)	APHA 2540-C	< 1000	< 1000	< 1000	556	WL
13.	Total Hardness	As COCO ₃ (mg/L)	APHA 2340-C	< 500	< 500	-	300	WL
14.	Fluoride	F ₁ (mg/L)	APHA 4500-F ₁	≤ 1.5	≤ 1.5	1.5	0.45	WL
15.	Chloride	CL ₁ (mg/L)	APHA 4500-Cl ₁	< 250	< 250	250	219.93	WL
16.	Cyanide	CN ₁ (mg/L)	HACH Method 8027	≤ 0.05	≤ 0.05	0.05	N.D.	WL
17.	Nitrate	NO ₃ ₁ (mg/L)	HACH Method 8192	≤ 50	≤ 50	50	0.2	WL
18.	Nitrite	NO ₂ ₁ (mg/L)	APHA 4500-NO ₂ ₁ -B	≤3.0 (P)	≤3.0 (P)	3	0.002	WL
19.	Antimony	Sb (mg/L)	ASTM D-3697	≤0.005	≤0.005	0.02	<0.005	WL

S.No	Parameters	Unit	Testing Method	BEQS Limits	NEQS Limits	WHO Limits	Results	Remarks
20.	Aluminum	Al (mg/L)	ASTM D-857	≤0.2	≤0.2	0.2	<0.028	WL
21.	Arsenic	As (mg/L)	ASTM D-2972	≤0.05	≤0.05	0.01	<0.05	WL
22.	Boron	B (mg/L)	ASTM D-3082	0.3	0.3	0.3	N.D.	WL
23.	Barium	Ba(mg/L)	ASTM D-4382	0.7	0.7	0.7	N.D.	WL
24.	Chromium Total	Cr(mg/L)	ASTM D-1687	≤0.05	≤0.05	0.05	<0.0054	WL
25.	Copper	Cu(mg/L)	ASTM D-1688	2	2	2	<0.0045	WL
26.	Cadmium	Cd(mg/L)	ASTM D-3557	0.01	0.01	0.03	<0.0028	WL
27.	Lead	Pb(mg/L)	ASTM D-3559	≤0.05	≤0.05	0.01	<0.013	WL
28.	Manganese	Mn(mg/L)	ASTM D-858	≤0.5	≤0.5	0.5	<0.0016	WL
29.	Mercury	Hg (mg/L)	ASTM D-3223	≤0.001	≤0.001	0.001	<0.001	WL
30.	Nickel	Ni(mg/L)	ASTM D-3866	≤0.05	≤0.02	0.02	<0.0080	WL
31.	Selenium	Se(mg/L)	ASTM D-3858	0.01	0.01	0.01	<0.01	WL
32.	Zinc	Zn (mg/L)	ASTM D-1691	5	5	3	<0.0033	WL

Note:

BEQS= Baluchistan Environmental Quality Standards

NEQS= National Environmental Quality Standardse

WHO= World Health Organization Limits

WL= Within Limit

7.8.5 Monitoring of Wastewater Quality

Wastewater was collected from the campsite. As per NEQs, all parameters for wastewater are within permissible level.

Table 7-11: Wastewater Quality Report

Parameters	Unit	Method / Technique	PEQS	Result
Temperature	°C	APHA-2550 B	-	32
pH [^]	---	APHA-4500-H+ B	6-9	7.69
Biological Oxygen Demand (BOD5 at 20 0C)	mg/L	APHA-5210 D	80	66
Chemical Oxygen Demand (COD) [^]	mg/L	APHA-5220 B	150	124
Total Suspended Solids (TSS) [^]	mg/L	APHA-2540 D	200	123
Total Dissolved Solids (TDS) [^]	mg/L	APHA-2540 C	3500	500
Greases & Oil	mg/L	APHA-5520 B	10	04
Phenolic Compound (As Phenol)	mg/L	APHA-5530 D	0.1	N.D.
Chloride (as Cl1-) [^]	mg/L	APHA-4500-Cl B	1000	299.91
An Ionic detergent as MBAs	mg/L	APHA 5540 C	20	02
Sulphate (SO42-) [^]	mg/L	APHA-4500-SO4 C	600	100
Sulphide (S2-)	mg/L	APHA-4500-S2- F	1.0	<1
Ammonia (NH3) [^]	mg/L	APHA-4500NH3 C	40	0.68
Cadmium (Cd) [^]	mg/L	APHA-3111 B	0.1	0.0192
Chromium (Trivalent & Hexavalent) [^]	mg/L	APHA-3111 B	1.0	0.0206
Copper (Cu) [^]	mg/L	APHA-3111 B	1.0	0.0241
Lead (Pb) [^]	mg/L	APHA-3111 B	0.5	N.D.
Mercury (Hg)	mg/L	APHA-3112 B	0.01	N.D.
Selenium (Se)	mg/L	APHA-3114 C	0.5	N.D.
Nickel (Ni)	mg/L	APHA-3111 B	1.0	0.0222
Silver (Ag)	mg/L	APHA-3111 B	1.0	N.D.
Zinc (Zn) [^]	mg/L	APHA-3111 B	5.0	N.D.
Arsenic (As)	mg/L	APHA-3114 C	1.0	N.D.
Barium (Ba)	mg/L	APHA-3111 D	1.5	N.D.
Iron (Fe) [^]	mg/L	APHA-3111 B	8.0	0.0125
Manganese (Mn) [^]	mg/L	APHA-3111 B	1.5	N.D.
Boron (B)	mg/L	APHA-3111 D	6.0	N.D.
Chlorine (Cl2)	mg/L	APHA-4500 Cl B	1.0	N.D.
Cyanide	mg/L	APHA-3111 B	1.0	0.007

7.9 Waste Management

268. For effective general waste management, the project area has a designated temporary waste collection zone where waste is deposited. Additionally, garbage cans are strategically placed throughout the site for the daily collection of waste, which is then transferred to the designated waste area before being transported to a nearby municipal collection point. Construction waste is either used to reinforce walkways or repurposed as sub-base material for new road construction where feasible.
269. All waste collected from drums across residential, office, and construction areas is transported to disposal sites using available vehicles, such as tractor trolleys or any open rear vehicles. Currently, the Contractor does not have a formal contract with a local solid waste management company.

7.10 HEALTH AND SAFETY

Community Health and Safety

270. During the reporting period, the Contractor took several steps to ensure community health and safety:
- Before starting construction in any area, the Contractor held consultations with local villagers to discuss the project layout, activities, and machinery. The goal was to inform them about the project, its risks, and the safety measures in place.
 - To minimize noise disturbance, no construction activities were conducted at night.
 - Warning signs were posted at key locations on the construction sites.
 - No incidents involving injuries to the community or project staff have occurred to date.

Worker Safety and Health

271. The Contractor is implementing the following health and safety measures: Proper safety signs are installed near diversions and slopes, and LPG is being used for cooking. Generators are placed on concrete platforms with trays to trap oil. Workers and staff are wearing the required PPEs, with a system in place to ensure compliance through training. There were no caution tapes or safety signboards on-site. A concrete base has been established for the vehicle washing area. Adequate fire extinguishers are positioned at a safe distance from the oil storage area and are easily accessible.. Additionally, toilets with septic tanks are provided at the construction site. No incidents related to workers' health and safety have occurred during the current reporting period.

7.10.1 Training

272. To continue fostering a culture of HSE excellence, the obligatory training will be conducted in the upcoming reporting period.
273. Aside from the formal trainings, Contractor's Environmentalist and Site supervisors regularly hold toolbox talks before start of work to emphasis the importance of HSE aspect of work. Trainings and awareness campaigns are pivotal part of EMP. These trainings are being conducted at regular intervals in order to keep workers and environment safe. Basic purpose of these sessions is to keep workers well aware about the different risks and hazards associated with site specific construction activities and to make them well effective to respond in any kind of emergency situation. In the reported months of June to November 2024, total of 2 training had been conducted as mentioned in Table 7-13.

Table 7-12: Details of Health and Safety Trainings on Site.

S. No	Location	Topic	Date (d-m-y)
1	Camp	Importance of PPEs	26-09-2024
2		Slip Trip and fall	13-10-2024

7.11 FUNCTIONING OF THE SSEMP

7.11.1 Good Practice And Opportunity For Improvement

- To minimize noise disturbance, no construction activities were conducted at night.
- Warning signs were posted at key locations on the construction sites.

- Clean drinking water is provided to workers and staff
- HSE Officer is available on-site during working hours.
- Construction machinery is parked in designated locations, and daily correspondence with the supervision consultant is conducted to discuss day-to-day improvements and activities.
- Monthly training sessions and Toolbox Talks are held and reported in the Monthly HSE report.
- No incidents involving injuries to the community or project staff have occurred to date.
- PPE Compliance was maintained, ensuring worker safety.
- Medical Facility in Camp was available for emergency healthcare support.
- Fire Extinguishers at Camp Site were strategically placed for fire safety.
- Water Sprinkling was being carried out to control dust and improve air quality.
- Dustbins at Camp Site were provided to facilitate proper waste disposal and maintain cleanliness.

274. Overall, these practices contribute to a well-maintained, safe, and organized work environment, enhancing both operational efficiency and worker well-being.

7.11.2 Opportunities for Improvement

275. To improve safety, the contractor must install and maintain clear safety signs at key locations to provide essential hazard warnings and directions to workers. Trucks transporting construction materials should be covered with tarpaulin sheets to reduce dust dispersion and prevent material spillage, ensuring environmental protection and road cleanliness. The washrooms must be well-equipped, regularly cleaned, and stocked with necessary supplies to maintain hygiene and provide a comfortable environment for workers.

Works Progress in Pictures





ANNEXURES

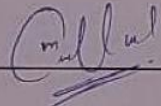
Annexure I: Weekly Environmental Monitoring Checklist**Construction of Siri Toi Dam Sub Project ICB-01**

Weekly Monitoring Check List

Project Name: Siri Toi Dam Package # ICB-01

Monitoring Location: Spilway Date: 01/07/24

Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being complied with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

Contractor HSEO:  Consultant HSEO: _____

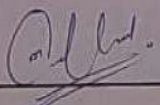
1

Weekly Monitoring Check List

Project Name: Siri Foi Dam Package # ICB-01

Monitoring Location: Transport routes Date: 09/07/24

Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being compiled with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

Contractor HSEO:  Consultant HSEO: _____

Weekly Monitoring Check List

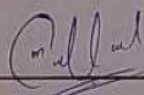
Project Name: Siri Poi Dam

Package # ICB-01

Monitoring Location: Dylce

Date: 16/07/24

Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being complied with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

Contractor HSEO: 

Consultant HSEO: _____

Weekly Monitoring Check List

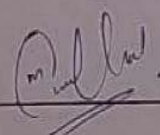
Project Name: Siri Toi Dam

Package # 12B-01

Monitoring Location: Slope

Date: 24/07/24

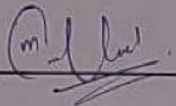
Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being complied with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

Contractor HSEO: 

Consultant HSEO: _____

Weekly Monitoring Check ListProject Name: Siri Toi DamPackage # ICB-01Monitoring Location: SpillwayDate: 01/08/24

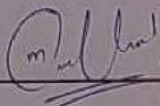
Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustibile or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being compiled with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

Contractor HSEO: 

Consultant HSEO: _____

Weekly Monitoring Check ListProject Name: Siri Toi Dam Package # ICB-01Monitoring Location: Transport route Date: 09/08/24

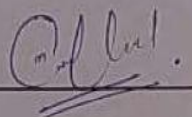
Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being complied with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

Contractor HSEO:  Consultant HSEO: _____

Weekly Monitoring Check List

Project Name: Siri Foi Dam Package # 1CB-01
 Monitoring Location: Basin Date: 16/08/24

Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being compiled with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

Contractor HSEO:  Consultant HSEO: _____

Weekly Monitoring Check List

Project Name: Siri Toi Dam Package # ICB-01
 Monitoring Location: Dyke Date: 24/08/24

Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being complied with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

Contractor HSEO:  Consultant HSEO: _____

Weekly Monitoring Check List

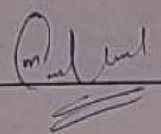
Project Name: Siri Toi Dam

Package # 1CB-01

Monitoring Location: Spilway

Date: 01/09/24

Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being compiled with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

Contractor HSEO: 

Consultant HSEO: _____

Weekly Monitoring Check List

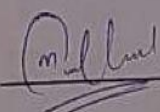
Project Name: Stri Toi Dam

Package # 10B-01

Monitoring Location: Transport route

Date: 09/09/24

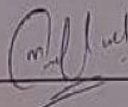
Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being complied with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

Contractor HSEO: 

Consultant HSEO: _____

Weekly Monitoring Check ListProject Name: Siri Toi DamPackage # 1018-01Monitoring Location: SlopeDate: 16/09/24

Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being compiled with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

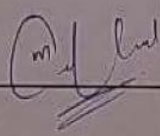
Contractor HSEO: 

Consultant HSEO: _____

Weekly Monitoring Check List

Project Name: Siri Poi Dam Package # 1CB-01
 Monitoring Location: Basin Date: 24/07/24

Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being complied with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

Contractor HSEO:  Consultant HSEO: _____

Weekly Monitoring Check List

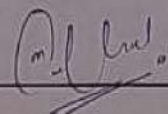
Project Name: Sivi Toi Down

Package # LCB-01

Monitoring Location: Transport route

Date: 01/10/24

Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being complied with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

Contractor HSEO: 

Consultant HSEO: _____

Weekly Monitoring Check List

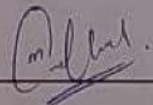
Project Name: Siri Poi Dam

Package # LCB-01

Monitoring Location: Spillway

Date: 09/10/24

Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being compiled with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

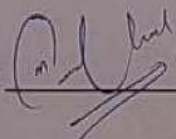
Contractor HSEO: 

Consultant HSEO: _____

Weekly Monitoring Check List

Project Name: Siri Toi Dam Package # 1013-01
 Monitoring Location: Slope Date: 16/10/24

Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have the area along the access road been visually monitored and show any sign of soil erosion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is there any combustible or flammable material in the fuel storage area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are the spilled oil or fuel and used clean up material being disposed of properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are the spills and leak thoroughly cleaned?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is any type of solid waste is being disposed of in the fields?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Traffic Management		
Are the existing routes being used to access the project area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are the number of routes kept to a minimum?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are shortcuts been used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are pressure horns being used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is the condition of approval for excavation of the borrow pits are being compiled with?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Camp Site		
Are generators in the construction camp properly maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is the emergency response plan available in the camp	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Contractor HSEO:  Consultant HSEO: _____

Weekly Monitoring Check List

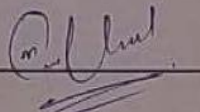
Project Name: Siri Toi Dam

Package # 11B-01

Monitoring Location: Dyke

Date: 24/10/24

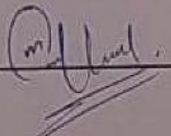
Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being complied with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

Contractor HSEO: 

Consultant HSEO: _____

Weekly Monitoring Check ListProject Name: Siri Toi DamPackage # 1CB-01Monitoring Location: SpillwayDate: 02/11/24

Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being complied with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

Contractor HSEO: 

Consultant HSEO: _____

Weekly Monitoring Check List

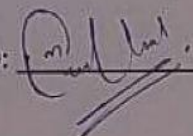
Project Name: Siri Sai Dam

Package # ICB-01

Monitoring Location: Transport route

Date: 09/11/24

Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being complied with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

Contractor HSEO: 

Consultant HSEO: _____

Weekly Monitoring Check ListProject Name: Siri Toi DamPackage # LCB-01Monitoring Location: SlopeDate: 16/11/24

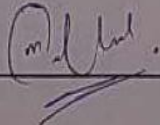
Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have the area along the access road been visually monitored and show any sign of soil erosion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is there any combustible or flammable material in the fuel storage area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are the spilled oil or fuel and used clean up material being disposed of properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are the spills and leak thoroughly cleaned?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is any type of solid waste is being disposed of in the fields?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Traffic Management		
Are the existing routes being used to access the project area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are the number of routes kept to a minimum?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are shortcuts been used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are pressure horns being used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is the condition of approval for excavation of the borrow pits are being complied with?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Camp Site		
Are generators in the construction camp properly maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is the emergency response plan available in the camp	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Contractor HSEO: 

Consultant HSEO: _____

Weekly Monitoring Check ListProject Name: Siri Toi Dam Package # 1CB-01Monitoring Location: Basin Date: 24/11/24

Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being compiled with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

Contractor HSEO:  Consultant HSEO: _____

Weekly Monitoring Check List

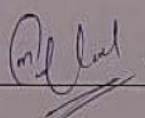
Project Name: Siri Toi Dam

Package # LCB-01

Monitoring Location: Spillway

Date: 01/10/24

Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?	✓	
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being compiled with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

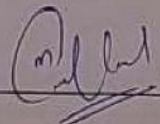
Contractor HSEO: 

Consultant HSEO: _____

Weekly Monitoring Check List

Project Name: Siri Toi DamPackage # ICB-01Monitoring Location: BasinDate: 6/12/24

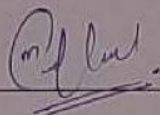
Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being complied with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

Contractor HSEO: 

Consultant HSEO: _____

Weekly Monitoring Check ListProject Name: Siri Toi Dam Package # ICB-01Monitoring Location: Transport route Date: 15/12/24

Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?		✓
Are shortcuts been used?	✓	✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being complied with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

Contractor HSEO:  Consultant HSEO: _____


Weekly Monitoring Check List

Project Name: Sixi Toi Dam Package # ICB-01
 Monitoring Location: Spillway Date: 24/12/24

Description	Status	
	Yes	No
Soil Conditions		
Is any soil erosion observed?		✓
Has the movement of Construction equipment been restricted to work areas to avoid unnecessary disturbance to the soil types?	✓	
Have the area along the access road been visually monitored and show any sign of soil erosion?		✓
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & spills?	✓	
Is there any combustible or flammable material in the fuel storage area?		✓
Are the fuels and oils handled in a safe manner, ensuring no leakage & Spillage?	✓	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	✓	
Are the spilled oil or fuel and used clean up material being disposed of properly?	✓	
Are the spills and leak thoroughly cleaned?	✓	
Waste Material		
Is waste are stored temporarily on camp & sites within the designated area?	✓	
Is any type of solid waste is being disposed of in the fields?		✓
Do the vehicles carry adequate container / trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	✓	
Traffic Management		
Are the existing routes being used to access the project area?	✓	
Are the number of routes kept to a minimum?	✓	
Are shortcuts been used?		✓
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	✓	
Are pressure horns being used?		✓
Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	✓	
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	✓	
Is the condition of approval for excavation of the borrow pits are being complied with?	✓	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	✓	
Camp Site		
Are generators in the construction camp properly maintained?	✓	
Is the emergency response plan available in the camp	✓	

Contractor HSEO:  Consultant HSEO: _____



Construction of Karakh Valley Development (NCB-01)



CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT

SUB- PROJECT –MULA RIVER BASIN

CONTRACT NO: NCB-01

Project Name: Construction of Karakh Valley **Package No.** NCB -01

Monitoring Location: Camp & Project Site **Date** 7/7/24

Weekly Monitoring Checklist

Description	Status	Comments
A. Physical Condition		
1. Soil Condition		
Is any soil erosion observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has the movement of construction equipment been restricted to work areas to avoid unnecessary disturbance to soil types?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the area along the access road being visually monitored and show any type of soil erosion	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2. Fuel Lubricants		
Is regular inspection carried to check leaks and spills?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is there any combustible or flammable material in the fuel storage area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the fuels and oils handled in the safe manner, ensure no leakage and spillage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spilled oil or fuel and used clean material being disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spills and leaks thoroughly ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	




1

CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT
SUB- PROJECT –MULA RIVER BASIN
CONTRACT NO: NCB-01

3. Traffic Management

Are the existing routes being used to access the project area?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Are the number of routes kept to a minimum?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Are shortcuts being used?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are all the vehicles and construction machinery properly maintained and tuned to maintained NEQS level?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Are pressure horn being used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
4. Borrow Areas			
Is necessary approval for the borrow areas been obtained from the Engineer?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Is the condition of approval for excavation of the borrow pits are being compiled with?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
5. Camp Site			
Are the generators in the construction camp properly maintained?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Is the emergency response plan available in the camp?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
6. Waste Material			
Is waste being stored temporarily at camp and sites within the designated area?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Is any type solid waste is being disposed-off in the fields?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	

2

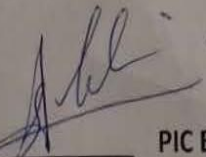
 **CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT**  


SUB- PROJECT -MULA RIVER BASIN

CONTRACT NO: NCB-01



Do the vehicles carry adequate container/ trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
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Additional Comments (if any): _____

Contractor Environmentalist:  PIC Environmentalist: _____



CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT
SUB- PROJECT -MULA RIVER BASIN

CONTRACT NO: NCB-01

Project Name: Construction of Karakh valley Package No. NCB -01

Monitoring Location: Camp & Project Site Date 14/7/24

Weekly Monitoring Checklist

Description	Status	Comments
A. Physical Condition		
1. Soil Condition		
Is any soil erosion observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has the movement of construction equipment been restricted to work areas to avoid unnecessary disturbance to soil types?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the area along the access road being visually monitored and show any type of soil erosion	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2. Fuel Lubricants		
Is regular inspection carried to check leaks and spills?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Is there any combustible or flammable material in the fuel storage area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the fuels and oils handled in the safe manner, ensure no leakage and spillage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the spilled oil or fuel and used clean material being disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spills and leaks thoroughly ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

1

CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT
SUB- PROJECT -MULA RIVER BASIN
CONTRACT NO: NCB-01

3. Traffic Management

Are the existing routes being used to access the project area?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Are the number of routes kept to a minimum?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Are shortcuts being used?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are all the vehicles and construction machinery properly maintained and tuned to maintained NEQS level?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Are pressure horn being used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
4. Borrow Areas			
Is necessary approval for the borrow areas been obtained from the Engineer?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Is the condition of approval for excavation of the borrow pits are being compiled with?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow area?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
5. Camp Site			
Are the generators in the construction camp properly maintained?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Is the emergency response plan available in the camp?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
6. Waste Material			
Is waste being stored temporarily at camp and sites within the designated area?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Is any type solid waste is being disposed-off in the fields?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	

2

CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT
SUB- PROJECT -MULA RIVER BASIN
CONTRACT NO: NCB-01



Do the vehicles carry adequate container/ trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
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Additional Comments (if any): _____

Contractor Environmentalist: *Abe* PIC Environmentalist: _____

CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT
SUB- PROJECT -MULA RIVER BASIN

CONTRACT NO: NCB-01

Project Name: Construction of Karakh Valley

Monitoring Location: Gap & Project site

Package No. NCB -01
Date 21/7/24

Weekly Monitoring Checklist

Description	Status	Comments
A. Physical Condition		
1. Soil Condition		
Is any soil erosion observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has the movement of construction equipment been restricted to work areas to avoid unnecessary disturbance to soil types?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the area along the access road being visually monitored and show any type of soil erosion	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2. Fuel Lubricants		
Is regular inspection carried to check leaks and spills?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is there any combustible or flammable material in the fuel storage area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the fuels and oils handled in the safe manner, ensure no leakage and spillage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the spilled oil or fuel and used clean material being disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spills and leaks thoroughly ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

1




CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT




SUB- PROJECT –MULA RIVER BASIN

CONTRACT NO: NCB-01



3. Traffic Management		
Are the existing routes being used to access the project area?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are the number of routes kept to a minimum?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are shortcuts being used?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are all the vehicles and construction machinery properly maintained and tuned to maintained NEQS level?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are pressure horn being used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
4. Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the condition of approval for excavation of the borrow pits are being complied with?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow area?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
5. Camp Site		
Are the generators in the construction camp properly maintained?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the emergency response plan available in the camp?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
6. Waste Material		
Is waste being stored temporarily at camp and sites within the designated area?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is any type solid waste is being disposed-off in the fields?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

 **CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT**
SUB- PROJECT -MULA RIVER BASIN
CONTRACT NO: NCB-01

Do the vehicles carry adequate container/ trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
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Additional Comments (if any): _____

Contractor Environmentalist: *Ali* PIC Environmentalist: _____

CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT
SUB- PROJECT –MULA RIVER BASIN

CONTRACT NO: NCB-01

Project Name: Construction of Karakh valley Package No. NCB -01

Monitoring Location: Caf & Project site Date 29/7/24

Weekly Monitoring Checklist

Description	Status	Comments
A. Physical Condition		
1. Soil Condition		
Is any soil erosion observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has the movement of construction equipment been restricted to work areas to avoid unnecessary disturbance to soil types?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the area along the access road being visually monitored and show any type of soil erosion	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2. Fuel Lubricants		
Is regular inspection carried to check leaks and spills?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is there any combustible or flammable material in the fuel storage area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the fuels and oils handled in the safe manner, ensure no leakage and spillage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the spilled oil or fuel and used clean material being disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spills and leaks thoroughly ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

1

CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT
SUB- PROJECT –MULA RIVER BASIN
CONTRACT NO: NCB-01

3. Traffic Management

Are the existing routes being used to access the project area?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Are the number of routes kept to a minimum?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Are shortcuts being used?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are all the vehicles and construction machinery properly maintained and tuned to maintained NEQS level?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Are pressure horn being used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
4. Borrow Areas			
Is necessary approval for the borrow areas been obtained from the Engineer?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Is the condition of approval for excavation of the borrow pits are being complied with?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow area?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
5. Camp Site			
Are the generators in the construction camp properly maintained?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Is the emergency response plan available in the camp?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
6. Waste Material			
Is waste being stored temporarily at camp and sites within the designated area?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Is any type solid waste is being disposed-off in the fields?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	

2


CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT
SUB- PROJECT -MULA RIVER BASIN
CONTRACT NO: NCB-01



Do the vehicles carry adequate container/ trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
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Additional Comments (if any): _____


Contractor Environmentalist:  PIC Environmentalist: _____



CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT

SUB- PROJECT -MULA RIVER BASIN

CONTRACT NO: NCB-01



Project Name: Construction of Karakh Valley **Package No. NCB -01**

Monitoring Location: Camp 2 project site **Date 7/8/24**





Weekly Monitoring Checklist

Description	Status	Comments
A. Physical Condition		
1. Soil Condition		
Is any soil erosion observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has the movement of construction equipment been restricted to work areas to avoid unnecessary disturbance to soil types?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the area along the access road being visually monitored and show any type of soil erosion	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2. Fuel Lubricants		
Is regular inspection carried to check leaks and spills?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is there any combustible or flammable material in the fuel storage area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the fuels and oils handled in the safe manner, ensure no leakage and spillage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spilled oil or fuel and used clean material being disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spills and leaks thoroughly ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

1

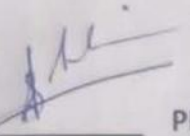
CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT
SUB- PROJECT –MULA RIVER BASIN
CONTRACT NO: NCB-01

3. Traffic Management		
Are the existing routes being used to access the project area?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Are the number of routes kept to a minimum?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are shortcuts being used?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are all the vehicles and construction machinery properly maintained and tuned to maintained NEQS level?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are pressure horn being used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
4. Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the condition of approval for excavation of the borrow pits are being compiled with?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow area?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5. Camp Site		
Are the generators in the construction camp properly maintained?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the emergency response plan available in the camp?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
6. Waste Material		
Is waste being stored temporarily at camp and sites within the designated area?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is any type solid waste is being disposed-off in the fields?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

 CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT
SUB- PROJECT -MULA RIVER BASIN
CONTRACT NO: NCB-01   

Do the vehicles carry adequate container/ trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
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Additional Comments (if any): _____

Contractor Environmentalist:  _____ PIC Environmentalist: _____

3

CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT

SUB- PROJECT –MULA RIVER BASIN

CONTRACT NO: NCB-01

Project Name: Construction of Karakh valley

Package No. NCB -01

Monitoring Location: Cop & Pipelits

Date 14/8/24

Weekly Monitoring Checklist

Description	Status	Comments
A. Physical Condition		
1. Soil Condition		
Is any soil erosion observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has the movement of construction equipment been restricted to work areas to avoid unnecessary disturbance to soil types?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the area along the access road being visually monitored and show any type of soil erosion	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2. Fuel Lubricants		
Is regular inspection carried to check leaks and spills?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Is there any combustible or flammable material in the fuel storage area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the fuels and oils handled in the safe manner, ensure no leakage and spillage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the spilled oil or fuel and used clean material being disposed of properly?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spills and leaks thoroughly ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT
SUB- PROJECT –MULA RIVER BASIN
CONTRACT NO: NCB-01

3. Traffic Management

Are the existing routes being used to access the project area?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are the number of routes kept to a minimum?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are shortcuts being used?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are all the vehicles and construction machinery properly maintained and tuned to maintained NEQS level?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are pressure horn being used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

4. Borrow Areas

Is necessary approval for the borrow areas been obtained from the Engineer?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is the condition of approval for excavation of the borrow pits are being complied with?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow area?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

5. Camp Site


Are the generators in the construction camp properly maintained?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the emergency response plan available in the camp?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

6. Waste Material

Is waste being stored temporarily at camp and sites within the designated area?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is any type solid waste is being disposed-off in the fields?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

2

CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT
SUB- PROJECT -MULA RIVER BASIN
CONTRACT NO: NCB-01




Do the vehicles carry adequate container/ trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
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Additional Comments (if any): _____

Contractor Environmentalist:  PIC Environmentalist: _____


3



CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT

SUB- PROJECT –MULA RIVER BASIN

CONTRACT NO: NCB-01



Project Name: Construction of Karakh Valley **Package No.** NCB -01

Monitoring Location: Camp & Project Site **Date** 21/8/24

Weekly Monitoring Checklist

Description	Status	Comments
A. Physical Condition		
1. Soil Condition		
Is any soil erosion observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has the movement of construction equipment been restricted to work areas to avoid unnecessary disturbance to soil types?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the area along the access road being visually monitored and show any type of soil erosion	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2. Fuel Lubricants		
Is regular inspection carried to check leaks and spills?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is there any combustible or flammable material in the fuel storage area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the fuels and oils handled in the safe manner, ensure no leakage and spillage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the spilled oil or fuel and used clean material being disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spills and leaks thoroughly ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

1

CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT
SUB- PROJECT -MULA RIVER BASIN
CONTRACT NO: NCB-01

3. Traffic Management

Are the existing routes being used to access the project area?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are the number of routes kept to a minimum?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are shortcuts being used?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are all the vehicles and construction machinery properly maintained and tuned to maintained NEQS level?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are pressure horn being used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
4. Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is the condition of approval for excavation of the borrow pits are being complied with?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow area?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
5. Camp Site		
Are the generators in the construction camp properly maintained?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the emergency response plan available in the camp?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
6. Waste Material		
Is waste being stored temporarily at camp and sites within the designated area?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is any type solid waste is being disposed-off in the fields?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

2


CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT
SUB- PROJECT –MULA RIVER BASIN
CONTRACT NO: NCB-01

Do the vehicles carry adequate container/ trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
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Additional Comments (if any): _____

Contractor Environmentalist: *[Signature]* PIC Environmentalist: _____



3



CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT

SUB- PROJECT -MULA RIVER BASIN

CONTRACT NO: NCB-01

Project Name: Construction of Karakh Valley . Package No. NCB -01

Monitoring Location: Cof & Project site . Date 29/8/24

Weekly Monitoring Checklist

Description	Status	Comments
A. Physical Condition		
1. Soil Condition		
Is any soil erosion observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has the movement of construction equipment been restricted to work areas to avoid unnecessary disturbance to soil types?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Have the area along the access road being visually monitored and show any type of soil erosion	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2. Fuel Lubricants		
Is regular inspection carried to check leaks and spills?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is there any combustible or flammable material in the fuel storage area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the fuels and oils handled in the safe manner, ensure no leakage and spillage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the spilled oil or fuel and used clean material being disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spills and leaks thoroughly ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

1




CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT




SUB- PROJECT -MULA RIVER BASIN

CONTRACT NO: NCB-01



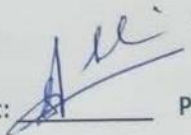
3. Traffic Management		
Are the existing routes being used to access the project area?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are the number of routes kept to a minimum?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are shortcuts being used?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are all the vehicles and construction machinery properly maintained and tuned to maintained NEQS level?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are pressure horn being used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
4. Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the condition of approval for excavation of the borrow pits are being compiled with?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow area?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
5. Camp Site		
Are the generators in the construction camp properly maintained?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the emergency response plan available in the camp?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
6. Waste Material		
Is waste being stored temporarily at camp and sites within the designated area?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is any type solid waste is being disposed-off in the fields?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

 **CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT**
SUB- PROJECT -MULA RIVER BASIN
CONTRACT NO: NCB-01

Do the vehicles carry adequate container/ trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
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Additional Comments (if any): _____

Contractor Environmentalist:  _____ PIC Environmentalist: _____

Pashta Khan and Garambowad Perennial Irrigation Sub (NCB- 04)



M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE



Project Name: Pashta Khan

Package No. NCB -04

Monitoring Location: camp site

Date: 07-10-24

Weekly Monitoring Checklist

Description	Status	Comments
A. Physical Condition		
1. Soil Condition		
Is any soil erosion observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has the movement of construction equipment been restricted to work areas to avoid unnecessary disturbance to soil types?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the area along the access road being visually monitored and show any type of soil erosion	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2. Fuel Lubricants		
Is regular inspection carried to check leaks and spills?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is there any combustible or flammable material in the fuel storage area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the fuels and oils handled in the safe manner, ensure no leakage and spillage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the spilled oil or fuel and used clean material being disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spills and leaks thoroughly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
3. Traffic Management		
Are the existing routes being used to access the project area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the number of routes kept to a minimum?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are shortcuts being used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are all the vehicles and construction machinery properly maintained and tuned to maintained NEQS level?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are pressure horn being used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

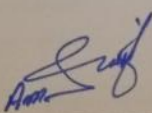


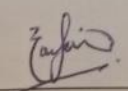
M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE



Is the condition of approval for excavation of the borrow pits are being complied with?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Camp Site		
Are the generators in the construction camp properly maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is the emergency response plan available in the camp?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
6. Waste Material		
Is waste being stored temporarily at camp and sites within the designated area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is any type solid waste is being disposed-off in the fields?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Do the vehicles carry adequate container/ trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Additional Comments (if any): _____

Contractor Environmentalist: 

PIC Environmentalist: 



M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE



Project Name: Pashta Ikhon

Package No. NCB -04

Monitoring Location: comp site

Date: 14/10/24

Weekly Monitoring Checklist

Description	Status	Comments
A. Physical Condition		
1. Soil Condition		
Is any soil erosion observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has the movement of construction equipment been restricted to work areas to avoid unnecessary disturbance to soil types?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the area along the access road being visually monitored and show any type of soil erosion	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2. Fuel Lubricants		
Is regular inspection carried to check leaks and spills?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there any combustible or flammable material in the fuel storage area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the fuels and oils handled in the safe manner, ensure no leakage and spillage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the spilled oil or fuel and used clean material being disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spills and leaks thoroughly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Traffic Management		
Are the existing routes being used to access the project area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the number of routes kept to a minimum?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are shortcuts being used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are all the vehicles and construction machinery properly maintained and tuned to maintained NEQS level?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are pressure horn being used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

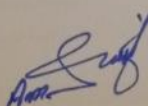



M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE



Is the condition of approval for excavation of the borrow pits are being compiled with?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Camp Site		
Are the generators in the construction camp properly maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is the emergency response plan available in the camp?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
6. Waste Material		
Is waste being stored temporarily at camp and sites within the designated area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is any type solid waste is being disposed-off in the fields?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Do the vehicles carry adequate container/ trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Additional Comments (if any): _____

Contractor Environmentalist: 

PIC Environmentalist: 



M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE



Project Name: Pashta Ichan

Package No. NCB -04

Monitoring Location: camp site

Date: 21/10/24

Weekly Monitoring Checklist

Description	Status	Comments
A. Physical Condition		
1. Soil Condition		
Is any soil erosion observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has the movement of construction equipment been restricted to work areas to avoid unnecessary disturbance to soil types?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the area along the access road being visually monitored and show any type of soil erosion	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2. Fuel Lubricants		
Is regular inspection carried to check leaks and spills?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is there any combustible or flammable material in the fuel storage area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the fuels and oils handled in the safe manner, ensure no leakage and spillage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the spilled oil or fuel and used clean material being disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spills and leaks thoroughly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
3. Traffic Management		
Are the existing routes being used to access the project area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the number of routes kept to a minimum?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are shortcuts being used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are all the vehicles and construction machinery properly maintained and tuned to maintained NEQS level?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are pressure horn being used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

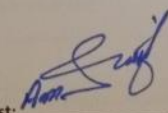


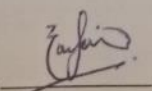
M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE



Is the condition of approval for excavation of the borrow pits are being complied with?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Camp Site		
Are the generators in the construction camp properly maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is the emergency response plan available in the camp?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
6. Waste Material		
Is waste being stored temporarily at camp and sites within the designated area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is any type solid waste is being disposed-off in the fields?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Do the vehicles carry adequate container/ trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Additional Comments (if any): _____

Contractor Environmentalist: 

PIC Environmentalist: 



M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE



Project Name: Pashta Iahon

Package No. NCB -04

Monitoring Location: comp site

Date: 28/10/24

Weekly Monitoring Checklist

Description	Status	Comments
A. Physical Condition		
1. Soil Condition		
Is any soil erosion observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has the movement of construction equipment been restricted to work areas to avoid unnecessary disturbance to soil types?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the area along the access road being visually monitored and show any type of soil erosion	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2. Fuel Lubricants		
Is regular inspection carried to check leaks and spills?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is there any combustible or flammable material in the fuel storage area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the fuels and oils handled in the safe manner, ensure no leakage and spillage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the spilled oil or fuel and used clean material being disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spills and leaks thoroughly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
3. Traffic Management		
Are the existing routes being used to access the project area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the number of routes kept to a minimum?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are shortcuts being used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are all the vehicles and construction machinery properly maintained and tuned to maintained NEQS level?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are pressure horn being used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

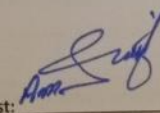


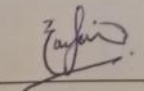
M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE



Is the condition of approval for excavation of the borrow pits are being complied with?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Camp Site		
Are the generators in the construction camp properly maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is the emergency response plan available in the camp?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
6. Waste Material		
Is waste being stored temporarily at camp and sites within the designated area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is any type solid waste is being disposed-off in the fields?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Do the vehicles carry adequate container/ trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Additional Comments (if any): _____

Contractor Environmentalist: 

PIC Environmentalist: 

Construction of Manyalo, Raiko and Rind Ali Perennial Irrigation Sub Project – Mula River Basin (NCB-07)



M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE



Project Name: Manyalo

Package No. NCB -07

Monitoring Location: camp site

Date: 7/10/24

Weekly Monitoring Checklist

Description	Status	Comments
A. Physical Condition		
1. Soil Condition		
Is any soil erosion observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has the movement of construction equipment been restricted to work areas to avoid unnecessary disturbance to soil types?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the area along the access road being visually monitored and show any type of soil erosion	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2. Fuel Lubricants		
Is regular inspection carried to check leaks and spills?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is there any combustible or flammable material in the fuel storage area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the fuels and oils handled in the safe manner, ensure no leakage and spillage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spilled oil or fuel and used clean material being disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spills and leaks thoroughly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
3. Traffic Management		
Are the existing routes being used to access the project area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the number of routes kept to a minimum?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are shortcuts being used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are all the vehicles and construction machinery properly maintained and tuned to maintained NEQS level?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are pressure horn being used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	



**M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE**



Is the condition of approval for excavation of the borrow pits are being complied with?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Soil
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Camp Site		
Are the generators in the construction camp properly maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is the emergency response plan available in the camp?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
6. Waste Material		
Is waste being stored temporarily at camp and sites within the designated area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is any type solid waste is being disposed-off in the fields?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Do the vehicles carry adequate container/ trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Additional Comments (if any): _____

Contractor Environmentalist: *[Signature]*

PIC Environmentalist: _____



M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE



Project Name: Manyolo

Package No. NCB -07

Monitoring Location: Comp site

Date: 14/10/24

Weekly Monitoring Checklist

Description	Status	Comments
A. Physical Condition		
1. Soil Condition		
Is any soil erosion observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has the movement of construction equipment been restricted to work areas to avoid unnecessary disturbance to soil types?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the area along the access road being visually monitored and show any type of soil erosion	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2. Fuel Lubricants		
Is regular inspection carried to check leaks and spills?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is there any combustible or flammable material in the fuel storage area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the fuels and oils handled in the safe manner, ensure no leakage and spillage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spilled oil or fuel and used clean material being disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spills and leaks thoroughly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Traffic Management		
Are the existing routes being used to access the project area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the number of routes kept to a minimum?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are shortcuts being used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are all the vehicles and construction machinery properly maintained and tuned to maintained NEQS level?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are pressure horn being used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

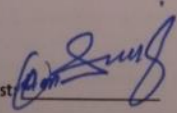


**M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE**



Is the condition of approval for excavation of the borrow pits are being complied with?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Camp Site		
Are the generators in the construction camp properly maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is the emergency response plan available in the camp?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
6. Waste Material		
Is waste being stored temporarily at camp and sites within the designated area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is any type solid waste is being disposed-off in the fields?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Do the vehicles carry adequate container/ trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Additional Comments (if any): _____

Contractor Environmentalist: 

PIC Environmentalist: _____



M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE



Project Name: Manyalo

Package No. NCB -07

Monitoring Location: camp site

Date: 21/10/24

Weekly Monitoring Checklist

Description	Status	Comments
A. Physical Condition		
1. Soil Condition		
Is any soil erosion observed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Has the movement of construction equipment been restricted to work areas to avoid unnecessary disturbance to soil types?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the area along the access road being visually monitored and show any type of soil erosion	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2. Fuel Lubricants		
Is regular inspection carried to check leaks and spills?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Is there any combustible or flammable material in the fuel storage area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the fuels and oils handled in the safe manner, ensure no leakage and spillage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spilled oil or fuel and used clean material being disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spills and leaks thoroughly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
3. Traffic Management		
Are the existing routes being used to access the project area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the number of routes kept to a minimum?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are shortcuts being used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are all the vehicles and construction machinery properly maintained and tuned to maintained NEQS level?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are pressure horn being used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	



**M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE**



Is the condition of approval for excavation of the borrow pits are being complied with?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Soil
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow area?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Camp Site		
Are the generators in the construction camp properly maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is the emergency response plan available in the camp?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
6. Waste Material		
Is waste being stored temporarily at camp and sites within the designated area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is any type solid waste is being disposed-off in the fields?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Do the vehicles carry adequate container/ trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Additional Comments (if any): _____

Contractor Environmentalist: Amir

PIC Environmentalist: _____



M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE



Project Name: Manyalo

Package No. NCB -07

Monitoring Location: camp site

Date: 28/10/24

Weekly Monitoring Checklist

Description	Status	Comments
A. Physical Condition		
1. Soil Condition		
Is any soil erosion observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has the movement of construction equipment been restricted to work areas to avoid unnecessary disturbance to soil types?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the area along the access road being visually monitored and show any type of soil erosion	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2. Fuel Lubricants		
Is regular inspection carried to check leaks and spills?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is there any combustible or flammable material in the fuel storage area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are the fuels and oils handled in the safe manner, ensure no leakage and spillage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the entire oil and fuel storage areas provided with impervious floor underneath to prevent soil contamination from leaks or spills?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spilled oil or fuel and used clean material being disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spills and leaks thoroughly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
3. Traffic Management		
Are the existing routes being used to access the project area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the number of routes kept to a minimum?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are shortcuts being used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are all the vehicles and construction machinery properly maintained and tuned to maintained NEQS level?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are pressure horn being used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. Borrow Areas		
Is necessary approval for the borrow areas been obtained from the Engineer?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	



**M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE**



Is the condition of approval for excavation of the borrow pits are being complied with?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Soil
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Camp Site		
Are the generators in the construction camp properly maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is the emergency response plan available in the camp?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
6. Waste Material		
Is waste being stored temporarily at camp and sites within the designated area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is any type solid waste is being disposed-off in the fields?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Do the vehicles carry adequate container/ trash bags for litter garbage and are they emptied at the camp site or other designated location regularly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Additional Comments (if any): _____

Contractor Environmentalist: *[Signature]*

PIC Environmentalist: _____

Annexure II: Monthly Environmental Monitoring Checklist

Construction of Siri Toi Dam Sub Project ICB-01

July, 2024

Name of The Project: ICB - 01: Construction of Siri Toi Dam SubProject, Zhob River Basin, District Zhob, Balochistan						
Environmental Compliance Checklist						
s. No	Description	Week				Month
		1	2	3	4	Jul-24
Major Adverse Impacts (weightage 0-3)						
1	Copy of the SSEMP provided at the camp site/contractor office?	2	3	3	3	2.75
2	The EMP instructions are understood?	2	2	3	2	2.25
3	An individual is nominated for implementation of EMP?	2	2	3	3	2.5
4	Camp Management Health and Hygiene/ Heating, Cooling, Lighting and Housekeeping	3	3	2	3	2.75
5	Workforce use PPE at site?	2	2	2	3	2.25
6	Contractor provide PPE to their workforce?	3	2	3	3	2.75
7	Potable water is available to labor	2	3	3	3	2.75
8	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	2	2	2	2	2
9	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	2	2	3	3	2.5
10	Contractor maintained Grievances Log registered the complaints from community?	2	3	2	2	2.25
11	Contractors prohibited child labor and forced labor?	3	3	3	3	3
12	Borrow area is leased and the landowner is compensated as per a lease agreement?	3	3	3	3	3
13	Septic tank and Soak Pits are designed for treatment of effluents?	2	2	2	2	2
14	No complaint filed regarding transmission of communicable diseases	2	3	2	2	2.25
Moderate Adverse Impacts (weightage 0-2)						
15	Provision of necessary welfare and hygiene requirements for the prevention of epidemic	2	2	2	2	2
16	Availability of an updated emergency vehicle (Ambulance)	2	2	2	2	2
17	Site selected for camp is 500 m from the human settlements and wildlife habitats?	2	1	1	1	1.25
18	No wood cutting for fuel?	2	2	2	2	2
19	LPG cylinders are provided for cooking or heating purposes?	1	1	1	1	1
20	Arrangements for proper storage and disposal solid waste is planned?	2	1	2	1.5	1.625
21	Safety signs are properly displayed?	2	1	2	2	1.75
22	Contractor provided training to workers to effectively implement project specific EMP?	1.5	2	1	1.5	1.5
23	Contractors followed HSE plan and Emergency Response Procedures	2	1.5	1.5	2	1.75
24	Contractors properly disposes debris materials in approved barren land/TMA facilities preferably recycling, reuse process?	1	1	1.5	1.5	1.25
25	Natural areas with high elevation are normally selected as borrow areas?	2	1	1	1	1.25
26	Minimum damage to the agriculture land due to borrow pits on agriculture land?	1.5	1	1.5	1.5	1.375
27	Stockpiling of Material , Construction Material Management	1	1	1.5	1	1.125
28	Waste being stored temporarily on camp and sites only within the designated area	1	1.5	1	2	1.375
29	Fuel/oil storage areas are away from watercourses?	2	1	1.5	1.5	1.5
30	Fuel/oil storage areas are paved and ventilated	1.5	1	1	2	1.375
31	Fire Extinguisher is placed near Fuel Storage area	1.5	1	2	1.5	1.5
32	Tree cutting restricted to Row and shoulder areas only?	1	1	1.5	1	1.125
33	No damage reported to public services like electric, water, gas, sewer or telephone lines?	2	2	1	1.5	1.625
34	Batching plant properly managed, no complaints	1	1	1.5	1.5	1.25
35	Project activities are displayed at proper locations	0.5	0.5	1	0.5	0.625

Minor Adverse Impacts and Good Practice (weightage 0-1)						
36	No complaints were made due to noise and vibration?	1	1	1	1	1
37	Contractor conduct Information, Education and Communication (IEC) campaign	1	0.5	0.5	1	0.75
38	Labor Screening at the time of induction	0.5	0.5	1	1	0.75
39	Fire Extinguisher are placed and checked properly	1	1	1	1	1
40	Contractors hiring of local labor?	1	1	1	1	1
41	Project site is fenced to prevent trespassing?	0	0	1	1	0.5
42	Community consultation has been carried out for project activities/concerns	1	1	1	1	1
43	Generator in the construction camp properly maintained	1	1	1	1	1
44	Adequate barriers are provided around areas where hazards may exist	0.5	0.5	0.5	0.5	0.5
45	Spilled oil or fuel and used clean up material being disposed of properly	0.5	0.5	0.5	0.5	0.5
46	Waste segregation at source	1	1	1	1	1
47	Construction and Maintenance of Walkways	0.5	1	1	0.5	0.75
48	Dust Generation during construction well managed and record exists	1	1	1	1	1
49	Water Sprinkling Record is available	1	1	1	1	1
50	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow	1	1	1	1	1
51	Photographic Record of roads and agricultural fields are being maintained	0.5	0.4	0.5	0.6	0.5
52	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	0.5	0.5	0.5	0.5	0.5
53	Spills and leak thoroughly cleaned	0.7	0.8	0.6	1	0.775
54	Construction machinery parked at designated areas?	0.8	0.8	0.7	0.8	0.775
55	Traffic issues managed well, no complaints on record	1	1	1	1	1
56	Daily, Weekly and Monthly Checklists are filled regularly	1	1	1	1	1
57	Storage of Hazardous Material in designated areas. MSDS available	1	1	1	1	1
58	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
Total Weightage (out of 107)						84.55
Monthly Percentage %						79.019

Key: (Percentage)

100 = Excellent

Above 80 = Good

Above 60 = Average

Below 40 = Below Average

Below 33 = Unsatisfactory

August, 2024

Name of The Project: ICB - 01: Construction of Siri Toi Dam SubProject, Zhob River Basin, District Zhob, Balochistan.						
Environmental Compliance Checklist						
s. No	Description	Week				Month
		1	2	3	4	Aug-24
Major Adverse Impacts (weightage 0-3)						
1	Copy of the SSEMP provided at the camp site/contractor office?	3	3	3	2	2.75
2	The EMP instructions are understood?	2	3	3	2	2.5
3	An individual is nominated for implementation of EMP?	2	2	3	3	2.5
4	Camp Management Health and Hygiene/ Heating, Cooling, Lighting and Housekeeping	2	3	2	3	2.5
5	Workforce use PPE at site?	3	2	2	3	2.5
6	Contractor provide PPE to their workforce?	3	2	2	3	2.5
7	Potable water is available to labor	3	3	3	3	3
8	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	2	3	3	2	2.5
9	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	3	3	3	3	3
10	Contractor maintained Grievances Log registered the complaints from community?	2	3	2	2	2.25
11	Contractors prohibited child labor and forced labor?	3	3	3	3	3
12	Borrow area is leased and the landowner is compensated as per a lease agreement?	3	3	3	3	3
13	Septic tank and Soak Pits are designed for treatment of effluents?	2	2	2	2	2
14	No complaint filed regarding transmission of communicable diseases	2	2	2	2	2
Moderate Adverse Impacts (weightage 0-2)						
15	Provision of necessary welfare and hygiene requirements for the prevention of epidemic	2	1	2	2	1.75
16	Availability of an updated emergency vehicle (Ambulance)	2	2	2	2	2
17	Site selected for camp is 500 m from the human settlements and wildlife habitats?	2	2	2	2	2
18	No wood cutting for fuel?	2	2	2	2	2
19	LPG cylinders are provided for cooking or heating purposes?	1	1	1	1	1
20	Arrangements for proper storage and disposal solid waste is planned?	2	1	2	1.5	1.625
21	Safety signs are properly displayed?	2	1	2	2	1.75
22	Contractor provided training to workers to effectively implement project specific EMP?	1.5	2	1	1.5	1.5
23	Contractors followed HSE plan and Emergency Response Procedures	2	1.5	1.5	2	1.75
24	Contractors properly disposes debris materials in approved barren land/TMA facilities preferably recycling, reuse process?	1	0.5	1.5	1.5	1.125
25	Natural areas with high elevation are normally selected as borrow areas?	2	1	1	1	1.25
26	Minimum damage to the agriculture land due to borrow pits on agriculture land?	1.5	1	1.5	1.5	1.375
27	Stockpiling of Material , Construction Material Management	1	1	1.5	1	1.125
28	Waste being stored temporarily on camp and sites only within the designated area	1	1	1	2	1.25
29	Fuel/oil storage areas are away from watercourses?	2	1	1.5	1.5	1.5
30	Fuel/oil storage areas are paved and ventilated	1.5	1	1	2	1.375
31	Fire Extinguisher is placed near Fuel Storage area	1.5	1	2	1.5	1.5
32	Tree cutting restricted to Row and shoulder areas only?	1	1	1.5	1	1.125
33	No damage reported to public services like electric, water, gas, sewer or telephone lines?	2	2	1	2	1.75
34	Batching plant properly managed, no complaints	1	1	1.5	1.5	1.25
35	Project activities are displayed at proper locations	0.5	0.5	1	0.5	0.625

Minor Adverse Impacts and Good Practice (weightage 0-1)						
36	No complaints were made due to noise and vibration?	1	1	1	1	1
37	Contractor conduct Information, Education and Communication (IEC) campaign	1	0.5	0.5	1	0.75
38	Labor Screening at the time of induction	1	1	1	1	1
39	Fire Extinguisher are placed and checked properly	1	1	1	1	1
40	Contractors hiring of local labor?	1	1	1	1	1
41	Project site is fenced to prevent trespassing?	0	0	1	1	0.5
42	Community consultation has been carried out for project activities/concerns	1	1	1	1	1
43	Generator in the construction camp properly maintained	1	1	1	1	1
44	Adequate barriers are provided around areas where hazards may exist	0.5	0.8	0.6	0.5	0.6
45	Spilled oil or fuel and used clean up material being disposed of properly	0.5	0.5	0.5	0.5	0.5
46	Waste segregation at source	0.8	0.7	0.9	0.5	0.725
47	Construction and Maintenance of Walkways	0.5	1	1	0.5	0.75
48	Dust Generation during construction well managed and record exists	1	1	1	1	1
49	Water Sprinkling Record is available	1	1	1	1	1
50	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow	1	1	1	1	1
51	Photographic Record of roads and agricultural fields are being maintained	0.5	0.4	0.5	0.6	0.5
52	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	0.5	0.4	0.3	0	0.3
53	Spills and leak thoroughly cleaned	0.7	0.8	0.6	1	0.775
54	Construction machinery parked at designated areas?	0.7	0.5	0.7	0.8	0.675
55	Traffic issues managed well, no complaints on record	1	1	1	1	1
56	Daily, Weekly and Monthly Checklists are filled regularly	1	1	1	1	1
57	Storage of Hazardous Material in designated areas. MSDS available	1	1	1	1	1
58	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
Total Weightage (out of 107)						85.7
Monthly Percentage %						80.093

Key: (Percentage)

100 = Excellent

Above 80 = Good

Above 60 = Average

Below 40 = Below Average

Below 33 = Unsatisfactory

September, 2024

Name of The Project: ICB - 01: Construction of Siri Toi Dam SubProject, Zhob River Basin, District Zhob, Balochistan						
Environmental Compliance Checklist						
s. No	Description	Week				Month
		1	2	3	4	Sep-24
Major Adverse Impacts (weightage 0-3)						
1	Copy of the SSEMP provided at the camp site/contractor office?	2	3	3	3	2.75
2	The EMP instructions are understood?	2	2	3	2	2.25
3	An individual is nominated for implementation of EMP?	2	2	3	3	2.5
4	Camp Management Health and Hygiene/ Heating, Cooling, Lighting and Housekeeping	2	3	2	3	2.5
5	Workforce use PPE at site?	2	2	2	3	2.25
6	Contractor provide PPE to their workforce?	3	2	3	3	2.75
7	Potable water is available to labor	2	3	3	3	2.75
8	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	2	2	2	2	2
9	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	2	2	3	3	2.5
10	Contractor maintained Grievances Log registered the complaints from community?	2	3	2	2	2.25
11	Contractors prohibited child labor and forced labor?	3	3	3	3	3
12	Borrow area is leased and the landowner is compensated as per a lease agreement?	3	3	3	3	3
13	Septic tank and Soak Pits are designed for treatment of effluents?	3	3	3	3	3
14	No complaint filed regarding transmission of communicable diseases	2	3	2	2	2.25
Moderate Adverse Impacts (weightage 0-2)						
15	Provision of necessary welfare and hygiene requirements for the prevention of epidemic	2	1	2	2	1.75
16	Availability of an updated emergency vehicle (Ambulance)	2	1	1	2	1.5
17	Site selected for camp is 500 m from the human settlements and wildlife habitats?	2	2	2	2	2
18	No wood cutting for fuel?	2	2	2	2	2
19	LPG cylinders are provided for cooking or heating purposes?	1	1	1	1	1
20	Arrangements for proper storage and disposal solid waste is planned?	2	1	2	1.5	1.625
21	Safety signs are properly displayed?	2	1	2	2	1.75
22	Contractor provided training to workers to effectively implement project specific EMP?	1.5	2	1	1.5	1.5
23	Contractors followed HSE plan and Emergency Response Procedures	2	1.5	1.5	2	1.75
24	Contractors properly disposes debris materials in approved barren land/TMA facilities preferably recycling, reuse process?	1	1	1.5	1.5	1.25
25	Natural areas with high elevation are normally selected as borrow areas?	2	1	1	1	1.25
26	Minimum damage to the agriculture land due to borrow pits on agriculture land?	1.5	1	1.5	1.5	1.375
27	Stockpiling of Material , Construction Material Management	1	1	1.5	1	1.125
28	Waste being stored temporarily on camp and sites only within the designated area	1	1.5	1	2	1.375
29	Fuel/oil storage areas are away from watercourses?	2	1	1.5	1.5	1.5
30	Fuel/oil storage areas are paved and ventilated	1.5	1	1	2	1.375
31	Fire Extinguisher is placed near Fuel Storage area	1.5	1	2	1.5	1.5
32	Tree cutting restricted to Row and shoulder areas only?	1	1	1.5	1	1.125
33	No damage reported to public services like electric, water, gas, sewer or telephone lines?	2	2	1	1.5	1.625
34	Batching plant properly managed, no complaints	1	1	1.5	1.5	1.25
35	Project activities are displayed at proper locations	0.5	0.5	1	0.5	0.625

Minor Adverse Impacts and Good Practice (weightage 0-1)						
36	No complaints were made due to noise and vibration?	1	1	1	1	1
37	Contractor conduct Information, Education and Communication (IEC) campaign	1	0.5	0.5	1	0.75
38	Labor Screening at the time of induction	0.5	0.5	1	1	0.75
39	Fire Extinguisher are placed and checked properly	1	1	1	1	1
40	Contractors hiring of local labor?	1	1	1	1	1
41	Project site is fenced to prevent trespassing?	0	0	1	1	0.5
42	Community consultation has been carried out for project activities/concerns	1	1	1	1	1
43	Generator in the construction camp properly maintained	1	1	1	1	1
44	Adequate barriers are provided around areas where hazards may exist	0.5	0.5	0.5	0.5	0.5
45	Spilled oil or fuel and used clean up material being disposed of properly	0.5	0.5	0.5	0.5	0.5
46	Waste segregation at source	1	1	1	1	1
47	Construction and Maintenance of Walkways	0.5	1	1	0.5	0.75
48	Dust Generation during construction well managed and record exists	1	1	1	1	1
49	Water Sprinkling Record is available	1	1	1	1	1
50	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow	1	1	1	1	1
51	Photographic Record of roads and agricultural fields are being maintained	0.5	0.4	0.5	0.6	0.5
52	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	0.5	0.4	0.3	0	0.3
53	Spills and leak thoroughly cleaned	1	1	1	1	1
54	Construction machinery parked at designated areas?	0.8	0.5	0.8	0.8	0.725
55	Traffic issues managed well, no complaints on record	1	1	1	1	1
56	Daily, Weekly and Monthly Checklists are filled regularly	1	1	1	1	1
57	Storage of Hazardous Material in designated areas. MSDS available	1	1	1	1	1
58	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
Total Weightage (out of 107)						85.275
Monthly Percentage %						79.696

Key: (Percentage)

100 = Excellent

Above 80 = Good

Above 60 = Average

Below 40 = Below Average

Below 33 = Unsatisfactory

October, 2024

Name of The Project: ICB - 01: Construction of Siri Toi Dam SubProject, Zhob River Basin, District Zhob, Balochistan						
Environmental Compliance Checklist						
s. No	Description	Week				Month
		1	2	3	4	Oct-24
Major Adverse Impacts (weightage 0-3)						
1	Copy of the SSEMP provided at the camp site/contractor office?	3	3	3	3	3
2	The EMP instructions are understood?	2	2	3	2	2.25
3	An individual is nominated for implementation of EMP?	2	3	3	2	2.5
4	Camp Management Health and Hygiene/ Heating, Cooling, Lighting and Housekeeping	2	3	2	3	2.5
5	Workforce use PPE at site?	2	2	2	3	2.25
6	Contractor provide PPE to their workforce?	3	2	3	3	2.75
7	Potable water is available to labor	2	3	3	3	2.75
8	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	3	3	3	3	3
9	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	2	2	3	3	2.5
10	Contractor maintained Grievances Log registered the complaints from community?	2	3	2	2	2.25
11	Contractors prohibited child labor and forced labor?	3	3	3	3	3
12	Borrow area is leased and the landowner is compensated as per a lease agreement?	3	3	3	3	3
13	Septic tank and Soak Pits are designed for treatment of effluents?	3	3	3	3	3
14	No complaint filed regarding transmission of communicable diseases	2	3	2	3	2.5
Moderate Adverse Impacts (weightage 0-2)						
15	Provision of necessary welfare and hygiene requirements for the prevention of epidemic	1	1.5	1.5	2	1.5
16	Availability of an updated emergency vehicle (Ambulance)	2	2	2	2	2
17	Site selected for camp is 500 m from the human settlements and wildlife habitats?	2	2	2	2	2
18	No wood cutting for fuel?	2	2	2	2	2
19	LPG cylinders are provided for cooking or heating purposes?	1	1	1	1	1
20	Arrangements for proper storage and disposal solid waste is planned?	2	1	2	1.5	1.625
21	Safety signs are properly displayed?	2	1	2	2	1.75
22	Contractor provided training to workers to effectively implement project specific EMP?	1	2	1.5	1	1.375
23	Contractors followed HSE plan and Emergency Response Procedures	2	1.5	1.5	2	1.75
24	Contractors properly disposes debris materials in approved barren land/TMA facilities preferably recycling, reuse process?	1	1	1.5	1.5	1.25
25	Natural areas with high elevation are normally selected as borrow areas?	2	1	1	1	1.25
26	Minimum damage to the agriculture land due to borrow pits on agriculture land?	2	2	2	2	2
27	Stockpiling of Material , Construction Material Management	1	1	1.5	1	1.125
28	Waste being stored temporarily on camp and sites only within the designated area	1	1.5	1.5	2	1.5
29	Fuel/oil storage areas are away from watercourses?	2	2	2	2	2
30	Fuel/oil storage areas are paved and ventilated	2	2	2	2	2
31	Fire Extinguisher is placed near Fuel Storage area	2	2	2	2	2
32	Tree cutting restricted to Row and shoulder areas only?	1	1	1.5	1	1.125
33	No damage reported to public services like electric, water, gas, sewer or telephone lines?	2	1	1	1.5	1.375
34	Batching plant properly managed, no complaints	1	1	1.5	1.5	1.25
35	Project activities are displayed at proper locations	0.5	0.5	1	0.5	0.625

Minor Adverse Impacts and Good Practice (weightage 0-1)						
36	No complaints were made due to noise and vibration?	1	1	1	1	1
37	Contractor conduct Information, Education and Communication (IEC) campaign	1	0.5	0.5	1	0.75
38	Labor Screening at the time of induction	0.5	0.5	1	1	0.75
39	Fire Extinguisher are placed and checked properly	1	1	1	1	1
40	Contractors hiring of local labor?	1	1	1	1	1
41	Project site is fenced to prevent trespassing?	0	0	1	1	0.5
42	Community consultation has been carried out for project activities/concerns	1	1	1	1	1
43	Generator in the construction camp properly maintained	1	1	1	1	1
44	Adequate barriers are provided around areas where hazards may exist	0.5	0.5	0.5	0.5	0.5
45	Spilled oil or fuel and used clean up material being disposed of properly	0.5	0.5	0.5	0.5	0.5
46	Waste segregation at source	1	1	1	1	1
47	Construction and Maintenance of Walkways	0.5	1	1	0.5	0.75
48	Dust Generation during construction well managed and record exists	1	1	1	1	1
49	Water Sprinkling Record is available	1	1	1	1	1
50	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow	1	1	1	1	1
51	Photographic Record of roads and agricultural fields are being maintained	0.5	0.4	0.5	0.6	0.5
52	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	0.5	0.7	0.6	0.7	0.625
53	Spills and leak thoroughly cleaned	0.7	0.8	0.6	1	0.775
54	Construction machinery parked at designated areas?	0.8	0.5	0.8	0.8	0.725
55	Traffic issues managed well, no complaints on record	1	1	1	1	1
56	Daily, Weekly and Monthly Checklists are filled regularly	1	1	1	1	1
57	Storage of Hazardous Material in designated areas. MSDS available	1	1	1	1	1
58	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
Total Weightage (out of 107)						89.125
Monthly Percentage %						83.294

Key: (Percentage)

100 = Excellent

Above 80 = Good

Above 60 = Average

Below 40 = Below Average

Below 33 = Unsatisfactory

November, 2024

Name of The Project: ICB - 01: Construction of Siri Toi Dam SubProject, Zhob River Basin, District Zhob, Balochistan						
Environmental Compliance Checklist						
s. No	Description	Week				Month
		1	2	3	4	Nov-24
Major Adverse Impacts (weightage 0-3)						
1	Copy of the SSEMP provided at the camp site/contractor office?	3	3	3	3	3
2	The EMP instructions are understood?	3	3	3	2	2.75
3	An individual is nominated for implementation of EMP?	3	3	3	3	3
4	Camp Management Health and Hygiene/ Heating, Cooling, Lighting and Housekeeping	2	3	2	3	2.5
5	Workforce use PPE at site?	2	2	2	3	2.25
6	Contractor provide PPE to their workforce?	3	2	3	3	2.75
7	Potable water is available to labor	2	3	3	3	2.75
8	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	3	2	3	2	2.5
9	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	3	3	3	3	3
10	Contractor maintained Grievances Log registered the complaints from community?	2	3	2	3	2.5
11	Contractors prohibited child labor and forced labor?	3	3	3	3	3
12	Borrow area is leased and the landowner is compensated as per a lease agreement?	3	3	3	3	3
13	Septic tank and Soak Pits are designed for treatment of effluents?	2	2	2	2	2
14	No complaint filed regarding transmission of communicable diseases	2	3	2	2	2.25
Moderate Adverse Impacts (weightage 0-2)						
15	Provision of necessary welfare and hygiene requirements for the prevention of epidemic	2	1	2	2	1.75
16	Availability of an updated emergency vehicle (Ambulance)	2	2	2	2	2
17	Site selected for camp is 500 m from the human settlements and wildlife habitats?	2	2	2	2	2
18	No wood cutting for fuel?	2	2	2	2	2
19	LPG cylinders are provided for cooking or heating purposes?	2	2	1.5	1	1.625
20	Arrangements for proper storage and disposal solid waste is planned?	2	1	2	1.5	1.625
21	Safety signs are properly displayed?	2	1	1	2	1.5
22	Contractor provided training to workers to effectively implement project specific EMP?	1.5	2	1	1.5	1.5
23	Contractors followed HSE plan and Emergency Response Procedures	2	1.5	1.5	2	1.75
24	Contractors properly disposes debris materials in approved barren land/TMA facilities preferably recycling, reuse process?	1	1	1.5	1.5	1.25
25	Natural areas with high elevation are normally selected as borrow areas?	2	2	2	2	2
26	Minimum damage to the agriculture land due to borrow pits on agriculture land?	2	2	2	2	2
27	Stockpiling of Material , Construction Material Management	1	1	1.5	1	1.125
28	Waste being stored temporarily on camp and sites only within the designated area	1	1.5	1	2	1.375
29	Fuel/oil storage areas are away from watercourses?	2	2	2	2	2
30	Fuel/oil storage areas are paved and ventilated	2	2	2	2	2
31	Fire Extinguisher is placed near Fuel Storage area	2	2	2	2	2
32	Tree cutting restricted to Row and shoulder areas only?	1	1	1.5	1	1.125
33	No damage reported to public services like electric, water, gas, sewer or telephone lines?	2	2	1	1.5	1.625
34	Batching plant properly managed, no complaints	1	1	1.5	1.5	1.25
35	Project activities are displayed at proper locations	0.5	0.5	1	0.5	0.625

Minor Adverse Impacts and Good Practice (weightage 0-1)						
36	No complaints were made due to noise and vibration?	1	1	1	1	1
37	Contractor conduct Information, Education and Communication (IEC) campaign	1	0.5	0.5	1	0.75
38	Labor Screening at the time of induction	1	1	1	1	1
39	Fire Extinguisher are placed and checked properly	1	1	1	1	1
40	Contractors hiring of local labor?	1	1	1	1	1
41	Project site is fenced to prevent trespassing?	0	0	1	1	0.5
42	Community consultation has been carried out for project activities/concerns	1	1	1	1	1
43	Generator in the construction camp properly maintained	1	1	1	1	1
44	Adequate barriers are provided around areas where hazards may exist	0.5	0.5	0.5	0.5	0.5
45	Spilled oil or fuel and used clean up material being disposed of properly	0.5	0.5	0.5	0.5	0.5
46	Waste segregation at source	1	1	1	1	1
47	Construction and Maintenance of Walkways	0.5	1	1	0.5	0.75
48	Dust Generation during construction well managed and record exists	1	1	1	1	1
49	Water Sprinkling Record is available	1	1	1	1	1
50	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow	1	1	1	1	1
51	Photographic Record of roads and agricultural fields are being maintained	0.5	0.4	0.5	0.6	0.5
52	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	0.5	0.4	0.6	0.7	0.55
53	Spills and leak thoroughly cleaned	0.7	0.8	0.6	1	0.775
54	Construction machinery parked at designated areas?	0.7	0.6	0.8	0.8	0.725
55	Traffic issues managed well, no complaints on record	1	1	1	1	1
56	Daily, Weekly and Monthly Checklists are filled regularly	1	1	1	1	1
57	Storage of Hazardous Material in designated areas. MSDS available	1	1	1	1	1
58	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
Total Weightage (out of 107)						90.925
Monthly Percentage %						84.977

Key: (Percentage)

100 = Excellent

Above 80 = Good

Above 60 = Average

Below 40 = Below Average

Below 33 = Unsatisfactory

December, 2024

Name of The Project: ICB - 01: Construction of Siri Toi Dam SubProject, Zhob River Basin, District Zhob, Balochistan.						
Environmental Compliance Checklist						
s. No	Description	Week				Month
		1	2	3	4	Dec-24
Major Adverse Impacts (weightage 0-3)						
1	Copy of the SSEMP provided at the camp site/contractor office?	2	3	3	2	2.5
2	The EMP instructions are understood?	2	1	2.5	2	1.875
3	An individual is nominated for implementation of EMP?	2	2.3	3	3	2.575
4	Camp Management Health and Hygiene/ Heating, Cooling, Lighting and Housekeeping	2	3	2	3	2.5
5	Workforce use PPE at site?	3	2	2	3	2.5
6	Contractor provide PPE to their workforce?	3	2	2	3	2.5
7	Potable water is available to labor	3	2.5	3	3	2.875
8	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	2	3	3	2	2.5
9	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	3	3	3	3	3
10	Contractor maintained Grievances Log registered the complaints from community?	2	2.6	2	2	2.15
11	Contractors prohibited child labor and forced labor?	3	2	3	3	2.75
12	Borrow area is leased and the landowner is compensated as per a lease agreement?	3	2.5	3	2.7	2.8
13	Septic tank and Soak Pits are designed for treatment of effluents?	2	2	3	2	2.25
14	No complaint filed regarding transmission of communicable diseases	2	2	2	2	2
Moderate Adverse Impacts (weightage 0-2)						
15	Provision of necessary welfare and hygiene requirements for the prevention of epidemic	2	2	1.8	2	1.95
16	Availability of an updated emergency vehicle (Ambulance)	2	2	1.5	2	1.875
17	Site selected for camp is 500 m from the human settlements and wildlife habitats?	2	1	2	2	1.75
18	No wood cutting for fuel?	2	2	1	2	1.75
19	LPG cylinders are provided for cooking or heating purposes?	1	2	1	1	1.25
20	Arrangements for proper storage and disposal solid waste is planned?	2	1	2	1.5	1.625
21	Safety signs are properly displayed?	2	2	2	2	2
22	Contractor provided training to workers to effectively implement project specific EMP?	1.5	2	1	1.5	1.5
23	Contractors followed HSE plan and Emergency Response Procedures	2	1.5	1.5	2	1.75
24	Contractors properly disposes debris materials in approved barren land/TMA facilities preferably recycling, reuse process?	1	0.5	1.5	1.5	1.125
25	Natural areas with high elevation are normally selected as borrow areas?	2	1	1	1	1.25
26	Minimum damage to the agriculture land due to borrow pits on agriculture land?	1.5	1	1.5	1.5	1.375
27	Stockpiling of Material , Construction Material Management	1	1	1.5	1	1.125
28	Waste being stored temporarily on camp and sites only within the designated area	1	1	1	2	1.25
29	Fuel/oil storage areas are away from watercourses?	2	1	1.5	1.5	1.5
30	Fuel/oil storage areas are paved and ventilated	1.5	1	1	2	1.375
31	Fire Extinguisher is placed near Fuel Storage area	1.5	1	2	1.5	1.5
32	Tree cutting restricted to Row and shoulder areas only?	2	1	1.5	1	1.375
33	No damage reported to public services like electric, water, gas, sewer or telephone lines?	2	2	1	2	1.75
34	Batching plant properly managed, no complaints	1	1	1.5	1.5	1.25
35	Project activities are displayed at proper locations	0.5	0.5	1	0.5	0.625

Minor Adverse Impacts and Good Practice (weightage 0-1)						
36	No complaints were made due to noise and vibration?	1.5	1	0.5	1	1
37	Contractor conduct Information, Education and Communication (IEC) campaign	1	0.5	0.5	1	0.75
38	Labor Screening at the time of induction	0.5	1	0.5	1	0.75
39	Fire Extinguisher are placed and checked properly	1	1	1	1	1
40	Contractors hiring of local labor?	1	1	1	1	1
41	Project site is fenced to prevent trespassing?	0	0	1	1	0.5
42	Community consultation has been carried out for project activities/concerns	1	1	1	1	1
43	Generator in the construction camp properly maintained	1	1	1	1	1
44	Adequate barriers are provided around areas where hazards may exist	0.5	0.8	0.6	0.5	0.6
45	Spilled oil or fuel and used clean up material being disposed of properly	0.5	0.5	0.5	0.5	0.5
46	Waste segregation at source	0.8	0.7	0.9	0.5	0.725
47	Construction and Maintenance of Walkways	0.5	1	1	0.5	0.75
48	Dust Generation during construction well managed and record exists	1	1	1	1	1
49	Water Sprinkling Record is available	0.6	1	1	1	0.9
50	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow	1	1	0.9	1	0.975
51	Photographic Record of roads and agricultural fields are being maintained	0.5	0.4	0.5	0.6	0.5
52	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	0.5	0.4	0.3	0	0.3
53	Spills and leak thoroughly cleaned	0.7	0.8	0.6	1	0.775
54	Construction machinery parked at designated areas?	0.7	0.5	0.7	0.8	0.675
55	Traffic issues managed well, no complaints on record	1	1	1	1	1
56	Daily, Weekly and Monthly Checklists are filled regularly	1	1	1	1	1
57	Storage of Hazardous Material in designated areas. MSDS available	1	1	1	1	1
58	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
Total Weightage (out of 107)						84.425
Monthly Percentage %						78.902

Key: (Percentage)

100 = Excellent

Above 80 = Good

Above 60 = Average

Below 40 = Below Average

Below 33 = Unsatisfactory

Construction of Karakh Valley Development (NCB-01)**July, 2024**

Name of The Project: Construction of Karakh Valley Development Sub-Project – Mulla River Basin						
Environmental Compliance Checklist						
Sr.no	Description	Week				Monthly Avg
		1	2	3	4	July, 2024
Major Adverse Impacts (weightage 0-3)						
1	Copy of the SSEMP provided at the camp site/contractor office?	3	3	3	3	3
2	The EMP instructions are understood?	3	3	3	3	3
3	An individual is nominated for implementation of EMP?	1	2	3	3	2.25
4	Camp Management Health and Hygiene/ Heating, Cooling, Lighting and Housekeeping	2	2	2	3	2.25
5	Workforce use PPE at site?	3	3	3	3	3
6	Contractor provide PPE to their workforce?	2	2	3	3	2.5
7	Potable water is available to labor	3	3	3	3	3
8	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	3	3	3	3	3
9	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	3	3	3	3	3
10	Contractor maintained Grievances Log registered the complaints from community?	1	2	2	2	1.75
11	Contractors prohibited child labor and forced labor?	2	2	3	3	2.5
12	Borrow area is leased and the landowner is compensated as per a lease agreement?	0	1	2	3	1.5
13	Septic tank and Soak Pits are designed for treatment of effluents?	2	2	2	2	2
14	No complaint filed regarding transmission of communicable diseases	3	3	3	3	3
Moderate Adverse Impacts (weightage 0-2)						
15	Provision of necessary welfare and hygiene requirements for the prevention of epidemic	1	1	2	2	1.5
16	Availability of an updated emergency vehicle (Ambulance)	1	1	2	2	1.5
17	Site selected for camp is 500 m from the human settlements and wildlife habitats?	2	2	2	2	2
18	No wood cutting for fuel?	2	2	2	2	2
19	LPG cylinders are provided for cooking or heating purposes?	2	2	2	2	2
20	Arrangements for proper storage and disposal solid waste is planned?	1	1	2	2	1.5
21	Safety signs are properly displayed?	0	0	1	1	0.4

Name of The Project: Construction of Karakh Valley Development Sub-Project – Mulla River Basin						
Environmental Compliance Checklist						
Sr.no	Description	Week				Monthly Avg
		1	2	3	4	July, 2024
22	Contractor provided training to workers to effectively implement project specific EMP?	2	2	2	2	2
23	Contractors followed HSE plan and Emergency Response Procedures	2	2	2	2	2
24	Contractors properly disposes debris materials in approved barren land/TMA facilities preferably recycling, reuse process?	1	1	1	2	1.25
25	Natural areas with high elevation are normally selected as borrow areas?	1	1	1	1	1
26	Minimum damage to the agriculture land due to borrow pits on agriculture land?	1	1	2	2	1.5
27	Stockpiling of Material , Construction Material Management	1	1	1	1	1
28	Waste being stored temporarily on camp and sites only within the designated area	2	2	2	2	2
29	Fuel/oil storage areas are away from watercourses?	2	2	2	2	2
30	Fuel/oil storage areas are paved and ventilated	1	1	2	2	1.5
31	Fire Extinguisher is placed near Fuel Storage area	2	2	2	2	2
32	Tree cutting restricted to RoW and shoulder areas only?	1	1	2	2	1.5
33	No damage reported to public services like electric, water, gas, sewer or telephone lines?	1	1	2	2	1.5
34	Batching plant properly managed, no complaints	0	0	1	1	0.5
35	Project activities are displayed at proper locations	1	2	0	1	1
Minor Adverse Impacts and Good Practice (weightage 0-1)						
36	No complaints were made due to noise and vibration?	1	1	1	1	1
37	Contractor conduct Information, Education and Communication (IEC) campaign	0.1	0.1	0.1	0.1	0.1
38	Labor Screening at the time of induction	0.3	0.3	0.5	0.5	0.4
39	Fire Extinguisher are placed and checked properly	1	1	1	1	1
40	Contractors hiring of local labor?	1	1	1	1	1
41	Project site is fenced to prevent trespassing?	0	0	0	1	0.25
42	Community consultation has been carried out for project activities/concerns	1	1	1	1	1
43	Generator in the construction camp properly maintained	1	1	1	1	1
44	Adequate barriers are provided around areas where hazards may exist	0	0	0	1	0.25
45	Spilled oil or fuel and used clean up material being disposed of properly	1	1	1	1	1

46	Waste segregation at source	0	0	0	1	0.25
47	Construction and Maintenance of Walkways	0	0	0.4	0.5	0.22
48	Dust Generation during construction well managed and record exists	0.5	0.5	0.5	0.5	0.5
49	Water Sprinkling Record is available	1	1	1	1	1
50	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow	1	1	1	1	1
51	Photographic Record of roads and agricultural fields are being maintained	1	1	1	1	1
52	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	1	1	1	1	1
53	Spills and leak thoroughly cleaned	1	1	1	1	1
54	Construction machinery parked at designated areas?	1	1	1	1	1
55	Traffic issues managed well, no complaints on record	0.5	0.5	0.5	1	0.62
56	Daily, Weekly and Monthly Checklists are filled regularly	0	0	1	1	0.5
57	Storage of Hazardous Material in designated areas. MSDS available	1	1	1	1	1
58	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
Total Weightage (out of 116)						84.55
Monthly Percentage						72.89%
Key: (Percentage)						
100 = Excellent						
Above 80 = Good						
Above 60 = Average						
Below 40 = Below Average						
Below 30 = Unsatisfactory						

August, 2024

Name of The Project: Construction of Karakh Valley Development Sub-Project – Mulla River Basin						
Environmental Compliance Checklist						
Sr.no	Description	Week				Monthly Avg
		1	2	3	4	Aug, 2024
Major Adverse Impacts (weightage 0-3)						
1	Copy of the SSEMP provided at the camp site/contractor office?	3	3	3	3	3
2	The EMP instructions are understood?	3	3	3	3	3
3	An individual is nominated for implementation of EMP?	1	2	3	3	2.25
4	Camp Management Health and Hygiene/ Heating, Cooling, Lighting and Housekeeping	2	2	2	3	2.25
5	Workforce use PPE at site?	3	3	3	3	3
6	Contractor provide PPE to their workforce?	2	2	3	3	2.5
7	Potable water is available to labor	3	3	3	3	3
8	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	3	3	3	3	3
9	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	3	3	3	3	3
10	Contractor maintained Grievances Log registered the complaints from community?	1	2	2	2	1.75
11	Contractors prohibited child labor and forced labor?	2	2	3	3	2.5
12	Borrow area is leased and the landowner is compensated as per a lease agreement?	0	1	2	3	1.5
13	Septic tank and Soak Pits are designed for treatment of effluents?	2	2	2	2	2
14	No complaint filed regarding transmission of communicable diseases	3	3	3	3	3
Moderate Adverse Impacts (weightage 0-2)						
15	Provision of necessary welfare and hygiene requirements for the prevention of epidemic	1	1	2	2	1.5
16	Availability of an updated emergency vehicle (Ambulance)	1	1	2	2	1.5
17	Site selected for camp is 500 m from the human settlements and wildlife habitats?	2	2	2	2	2
18	No wood cutting for fuel?	2	2	2	2	2
19	LPG cylinders are provided for cooking or heating purposes?	2	2	2	2	2
20	Arrangements for proper storage and disposal solid waste is planned?	1	1	2	2	1.5
21	Safety signs are properly displayed?	0	0	1	1	0.4

² The scoring system (0–3) included in the quantitative checklist is defined as follows: 0 = Non-Compliant, 1 = Poorly Compliant, 2 = Moderately Compliant, and 3 = Fully Compliant, based on the level of adherence to EMP requirements.

Name of The Project: Construction of Karakh Valley Development Sub-Project – Mulla River Basin						
Environmental Compliance Checklist						
Sr.no	Description	Week				Monthly Avg
		1	2	3	4	Aug, 2024
22	Contractor provided training to workers to effectively implement project specific EMP?	2	2	2	2	2
23	Contractors followed HSE plan and Emergency Response Procedures	2	2	2	2	2
24	Contractors properly disposes debris materials in approved barren land/TMA facilities preferably recycling, reuse process?	1	1	1	2	1.25
25	Natural areas with high elevation are normally selected as borrow areas?	1	1	1	1	1
26	Minimum damage to the agriculture land due to borrow pits on agriculture land?	1	1	2	2	1.5
27	Stockpiling of Material , Construction Material Management	1	1	1	1	1
28	Waste being stored temporarily on camp and sites only within the designated area	2	2	2	2	2
29	Fuel/oil storage areas are away from watercourses?	2	2	2	2	2
30	Fuel/oil storage areas are paved and ventilated	1	1	2	2	1.5
31	Fire Extinguisher is placed near Fuel Storage area	2	2	2	2	2
32	Tree cutting restricted to RoW and shoulder areas only?	1	1	2	2	1.5
33	No damage reported to public services like electric, water, gas, sewer or telephone lines?	1	1	2	2	1.5
34	Batching plant properly managed, no complaints	0	0	1	1	0.5
35	Project activities are displayed at proper locations	1	2	0	1	1
Minor Adverse Impacts and Good Practice (weightage 0-1)						
36	No complaints were made due to noise and vibration?	1	1	1	1	1
37	Contractor conduct Information, Education and Communication (IEC) campaign	0.1	0.1	0.1	0.1	0.1
38	Labor Screening at the time of induction	0.3	0.3	0.5	0.5	0.4
39	Fire Extinguisher are placed and checked properly	1	1	1	1	1
40	Contractors hiring of local labor?	1	1	1	1	1
41	Project site is fenced to prevent trespassing?	0	0	0	1	0.25
42	Community consultation has been carried out for project activities/concerns	1	1	1	1	1
43	Generator in the construction camp properly maintained	1	1	1	1	1
44	Adequate barriers are provided around areas where hazards may exist	0	0	0	1	0.25
45	Spilled oil or fuel and used clean up material being disposed of properly	1	1	1	1	1
46	Waste segregation at source	0	0	0	1	0.25

47	Construction and Maintenance of Walkways	0	0	0.4	0.5	0.22
48	Dust Generation during construction well managed and record exists	0.5	0.5	0.5	0.5	0.5
49	Water Sprinkling Record is available	1	1	1	1	1
50	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow	1	1	1	1	1
51	Photographic Record of roads and agricultural fields are being maintained	1	1	1	1	1
52	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	1	1	1	1	1
53	Spills and leak thoroughly cleaned	1	1	1	1	1
54	Construction machinery parked at designated areas?	1	1	1	1	1
55	Traffic issues managed well, no complaints on record	0.5	0.5	0.5	1	0.62
56	Daily, Weekly and Monthly Checklists are filled regularly	0	0	1	1	0.5
57	Storage of Hazardous Material in designated areas. MSDS available	1	1	1	1	1
58	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
Total Weightage (out of 116)						84.55
Monthly Percentage						72.89%
Key: (Percentage)						
100 = Excellent						
Above 80 = Good						
Above 60 = Average						
Below 40 = Below Average						
Below 30 = Unsatisfactory						

CONSTRUCTION OF KHARZAN HATACHI INFILTRATION GALLERY SUBPROJECT MULLA RIVER BASIN (NCB-02)

June, 2024

Name of The Project: CONSTRUCTION OF KHAZRAN & HATACHI INFILTRATION GALLERY SUBPROJECT (NCB-02) MULLA RIVER BASIN.						
Environmental Compliance Checklist						
Sr.no	Description	Week				Month
		1	2	3	4	June, 2024
Major Adverse Impacts (weightage 0-3)						
1	Copy of the SSEMP provided at the camp site/contractor office?	3	3	2	3	2.75
2	The EMP instructions are understood?	3	3	3	3	3
3	An individual is nominated for implementation of EMP?	3	2	3	2	2.25
4	Camp Management Health and Hygiene/ Heating, Cooling, Lighting and Housekeeping	2	2	2	3	2.25
5	Workforce use PPE at site?	1	2	3	2	2
6	Contractor provide PPE to their workforce?	2	2	3	3	2.5
7	Potable water is available to labor	3	3	3	3	3
8	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	1	1	2	2	1.5
9	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	3	1	2	1	1.75
10	Contractor maintained Grievances Log registered the complaints from community?	0	2	3	2	1.75
11	Contractors prohibited child labor and forced labor?	3	2	3	1	2.5
12	Borrow area is leased and the landowner is compensated as per a lease agreement?	2	1	0	3	1.5
13	Septic tank and Soak Pits are designed for treatment of effluents?	3	2	3	3	2.5
14	No complaint filed regarding transmission of communicable diseases	3	0	3	3	2.25
Moderate Adverse Impacts (weightage 0-2)						
15	Provision of necessary welfare and hygiene requirements for the prevention of epidemic	1	0	2	2	1.25
16	Availability of an updated emergency vehicle (Ambulance)	1	1	2	2	1.5

17	Site selected for camp is 500 m from the human settlements and wildlife habitats?	2	2	2	2	2
18	No wood cutting for fuel?	2	2	2	2	2
19	LPG cylinders are provided for cooking or heating purposes?	2	2	2	2	2
20	Arrangements for proper storage and disposal solid waste is planned?	1	1	2	2	1.5
21	Safety signs are properly displayed?	0	2	1	1	1
22	Contractor provided training to workers to effectively implement project specific EMP?	2	2	2	2	2
23	Contractors followed HSE plan and Emergency Response Procedures	2	2	2	2	2
24	Contractors properly disposes debris materials in approved barren land/TMA facilities preferably recycling, reuse process?	1	1	1	2	1.25
25	Natural areas with high elevation are normally selected as borrow areas?	1	1	1	1	1
26	Minimum damage to the agriculture land due to borrow pits on agriculture land?	1	1	2	2	1.5
27	Stockpiling of Material , Construction Material Management	1	1	1	1	1
28	Waste being stored temporarily on camp and sites only within the designated area	2	2	2	2	2
29	Fuel/oil storage areas are away from watercourses?	2	2	2	2	2
30	Fuel/oil storage areas are paved and ventilated	1	1	2	2	1.5
31	Fire Extinguisher is placed near Fuel Storage area	0	0	0	1	0.25
32	Tree cutting restricted to RoW and shoulder areas only?	1	1	2	2	1.5
33	No damage reported to public services like electric, water, gas, sewer or telephone lines?	1	1	2	2	1.5
34	Batching plant properly managed, no complaints	0	0	1	1	0.5
35	Project activities are displayed at proper locations	1	2	0	1	1
Minor Adverse Impacts and Good Practice (weightage 0-1)						
36	No complaints were made due to noise and vibration?	1	1	1	1	1
37	Contractor conduct Information, Education and Communication (IEC) campaign	0.1	0.1	0.1	0.1	0.1
38	Labor Screening at the time of induction	0.3	0.3	0.5	0.5	0.4
39	Fire Extinguisher are placed and checked properly	0	0	0	1	0.25
40	Contractors hiring of local labor?	1	1	1	1	1

41	Project site is fenced to prevent trespassing?	0	0	0	1	0.25
42	Community consultation has been carried out for project activities/concerns	1	1	1	1	1
43	Generator in the construction camp properly maintained	1	1	1	1	1
44	Adequate barriers are provided around areas where hazards may exist	0	0	0	1	0.25
45	Spilled oil or fuel and used clean up material being disposed of properly	1	1	1	1	1
46	Waste segregation at source	0	0	0	1	0.25
47	Construction and Maintenance of Walkways	0	0	0.4	0.5	0.22
48	Dust Generation during construction well managed and record exists	0.5	0.5	0.5	0.5	0.5
49	Water Sprinkling Record is available	1	1	1	1	1
50	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow	1	1	2	1	1.5
51	Photographic Record of roads and agricultural fields are being maintained	1	1	1	1	1
52	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	1	1	1	1	1
53	Spills and leak thoroughly cleaned	1	1	1	1	1
54	Construction machinery parked at designated areas?	1	1	1	1	1
55	Traffic issues managed well, no complaints on record	0.5	0.5	0.5	1	0.62
56	Daily, Weekly and Monthly Checklists are filled regularly	0	2	1	1	2
57	Storage of Hazardous Material in designated areas. MSDS available	1	1	1	1	1
58	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
Total Weightage (out of 107)						80.24
Monthly Percentage						77.13%
Key: (Percentage) 100 = Excellent Above 80 = Good Above 60 = Average Below 40 = Below Average Below 33 = Unsatisfactory						

July, 2024

Name of The Project: CONSTRUCTION OF KHAZRAN & HATACHI INFILTRATION GALLERY SUBPROJECT (NCB-02) MULLA RIVER BASIN.						
Environmental Compliance Checklist						
Sr.no	Description	Week				Month
		1	2	3	4	July, 2024
Major Adverse Impacts (weightage 0-3)						
1	Copy of the SSEMP provided at the camp site/contractor office?	3	3	2	3	2.75
2	The EMP instructions are understood?	1	3	3	3	2.25
3	An individual is nominated for implementation of EMP?	3	3	3	3	3
4	Camp Management Health and Hygiene/ Heating, Cooling, Lighting and Housekeeping	2	2	2	3	2.25
5	Workforce use PPE at site?	1	2	3	2	2
6	Contractor provide PPE to their workforce?	2	2	3	3	2.5
7	Potable water is available to labor	3	3	3	3	3
8	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	1	1	2	2	1.5
9	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	3	1	2	1	1.75
10	Contractor maintained Grievances Log registered the complaints from community?	0	2	3	2	1.75
11	Contractors prohibited child labor and forced labor?	3	2	3	1	2.5
12	Borrow area is leased and the landowner is compensated as per a lease agreement?	2	1	0	3	1.5
13	Septic tank and Soak Pits are designed for treatment of effluents?	3	2	3	3	2.5
14	No complaint filed regarding transmission of communicable diseases	3	0	3	3	2.25
Moderate Adverse Impacts (weightage 0-2)						
15	Provision of necessary welfare and hygiene requirements for the prevention of epidemic	1	0	2	2	1.25
16	Availability of an updated emergency vehicle (Ambulance)	1	3	2	2	2.25
17	Site selected for camp is 500 m from the human settlements and wildlife habitats?	2	2	2	2	2
18	No wood cutting for fuel?	2	2	2	2	2

19	LPG cylinders are provided for cooking or heating purposes?	2	2	2	2	2
20	Arrangements for proper storage and disposal solid waste is planned?	1	1	2	2	1.5
21	Safety signs are properly displayed?	1	2	1	1	1.5
22	Contractor provided training to workers to effectively implement project specific EMP?	2	2	2	2	2
23	Contractors followed HSE plan and Emergency Response Procedures	2	2	2	2	2
24	Contractors properly disposes debris materials in approved barren land/TMA facilities preferably recycling, reuse process?	1	1	1	2	1.25
25	Natural areas with high elevation are normally selected as borrow areas?	1	1	1	1	1
26	Minimum damage to the agriculture land due to borrow pits on agriculture land?	1	1	2	2	1.5
27	Stockpiling of Material , Construction Material Management	1	1	1	1	1
28	Waste being stored temporarily on camp and sites only within the designated area	2	2	2	2	2
29	Fuel/oil storage areas are away from watercourses?	2	2	2	2	2
30	Fuel/oil storage areas are paved and ventilated	1	1	2	2	1.5
31	Fire Extinguisher is placed near Fuel Storage area	0	0	0	1	0.25
32	Tree cutting restricted to RoW and shoulder areas only?	1	1	2	2	1.5
33	No damage reported to public services like electric, water, gas, sewer or telephone lines?	1	1	2	2	1.5
34	Batching plant properly managed, no complaints	0	0	1	1	0.5
35	Project activities are displayed at proper locations	1	2	0	1	1
Minor Adverse Impacts and Good Practice (weightage 0-1)						
36	No complaints were made due to noise and vibration?	1	1	1	1	1
37	Contractor conduct Information, Education and Communication (IEC) campaign	0.1	0.1	0.1	0.1	0.1
38	Labor Screening at the time of induction	0.3	0.3	0.5	0.5	0.4
39	Fire Extinguisher are placed and checked properly	0	0	0	1	0.25
40	Contractors hiring of local labor?	1	1	0	1	0.75
41	Project site is fenced to prevent trespassing?	0	1	0	1	0.5
42	Community consultation has been carried out for project activities/concerns	1	1	1	1	1
43	Generator in the construction camp properly maintained	1	1	0	1	75

44	Adequate barriers are provided around areas where hazards may exist	0	0	1	1	0.5
45	Spilled oil or fuel and used clean up material being disposed of properly	1	1	1	1	1
46	Waste segregation at source	0	0	0	1	0.25
47	Construction and Maintenance of Walkways	0	0	0.4	0.5	0.22
48	Dust Generation during construction well managed and record exists	0.5	0.5	0.5	0.5	0.5
49	Water Sprinkling Record is available	1	1	1	1	1
50	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow	1	1	2	1	1.25
51	Photographic Record of roads and agricultural fields are being maintained	1	1	0	1	0.75
52	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	1	1	1	1	1
53	Spills and leak thoroughly cleaned	1	1	1	1	1
54	Construction machinery parked at designated areas?	1	1	1	1	1
55	Traffic issues managed well, no complaints on record	1	1	1	1	1
56	Daily, Weekly and Monthly Checklists are filled regularly	0	2	1	1	2
57	Storage of Hazardous Material in designated areas. MSDS available	1	1	1	1	1
58	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
Total Weightage (out of 107)						82.5
Monthly Percentage						73.13%
<p>Key: (Percentage)</p> <p>100 = Excellent</p> <p>Above 80 = Good</p> <p>Above 60 = Average</p> <p>Below 40 = Below Average</p> <p>Below 33 = Unsatisfactory</p>						

August, 2024

Name of The Project: CONSTRUCTION OF KHAZRAN & HATACHI INFILTRATION GALLERY SUBPROJECT (NCB-02) MULLA RIVER BASIN.						
Environmental Compliance Checklist						
Sr. no	Description	Week				Month
		1	2	3	4	August, 2024
Major Adverse Impacts (weightage 0-3)						
1	Copy of the SSEMP provided at the camp site/contractor office?	1	3	3	3	2.5
2	The EMP instructions are understood?	3	3	3	3	3
3	An individual is nominated for implementation of EMP?	3	3	3	3	3
4	Camp Management Health and Hygiene/ Heating, Cooling, Lighting and Housekeeping	2	2	3	3	2.5
5	Workforce use PPE at site?	1	2	2	2	1.75
6	Contractor provide PPE to their workforce?	2	2	3	3	2.5
7	Potable water is available to labor	3	3	3	3	3
8	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	1	1	2	2	1.5
9	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	3	1	2	1	1.75
10	Contractor maintained Grievances Log registered the complaints from community?	0	2	3	2	1.75
11	Contractors prohibited child labor and forced labor?	3	2	3	1	2.5
12	Borrow area is leased and the landowner is compensated as per a lease agreement?	2	0	1	3	1.5
13	Septic tank and Soak Pits are designed for treatment of effluents?	3	2	3	3	2.5
14	No complaint filed regarding transmission of communicable diseases	3	3	2	1	2.25
Moderate Adverse Impacts (weightage 0-2)						
15	Provision of necessary welfare and hygiene requirements for the prevention of epidemic	0	1	2	2	1.25
16	Availability of an updated emergency vehicle (Ambulance)	1	3	2	2	2.25
17	Site selected for camp is 500 m from the human settlements and wildlife habitats?	2	2	2	2	2

18	No wood cutting for fuel?	1	2	0	2	1.25
19	LPG cylinders are provided for cooking or heating purposes?	2	2	2	2	2
20	Arrangements for proper storage and disposal solid waste is planned?	1	1	2	2	1.5
21	Safety signs are properly displayed?	1	2	1	1	1.5
22	Contractor provided training to workers to effectively implement project specific EMP?	2	2	2	2	2
23	Contractors followed HSE plan and Emergency Response Procedures	0	2	0	2	1
24	Contractors properly disposes debris materials in approved barren land/TMA facilities preferably recycling, reuse process?	1	1	1	2	1.25
25	Natural areas with high elevation are normally selected as borrow areas?	1	1	1	1	1
26	Minimum damage to the agriculture land due to borrow pits on agriculture land?	2	1	1	2	1.5
27	Stockpiling of Material , Construction Material Management	1	1	1	1	1
28	Waste being stored temporarily on camp and sites only within the designated area	2	2	2	2	2
29	Fuel/oil storage areas are away from watercourses?	2	2	2	2	2
30	Fuel/oil storage areas are paved and ventilated	1	1	2	2	1.5
31	Fire Extinguisher is placed near Fuel Storage area	0	0	0	0	0
32	Tree cutting restricted to RoW and shoulder areas only?	1	1	2	2	1.5
33	No damage reported to public services like electric, water, gas, sewer or telephone lines?	1	1	2	2	1.5
34	Batching plant properly managed, no complaints	0	0	1	1	0.5
35	Project activities are displayed at proper locations	1	2	0	1	1
Minor Adverse Impacts and Good Practice (weightage 0-1)						
36	No complaints were made due to noise and vibration?	1	1	1	1	1
37	Contractor conduct Information, Education and Communication (IEC) campaign	0. 1	0. 1	0.1	0.1	0.1
38	Labor Screening at the time of induction	0. 3	0. 3	0.5	0.5	0.4
39	Fire Extinguisher are placed and checked properly	0	0	0	1	0.25
40	Contractors hiring of local labor?	1	1	0	1	0.75
41	Project site is fenced to prevent trespassing?	0	1	0	1	0.5
42	Community consultation has been carried out for project activities/concerns	1	1	1	1	1

43	Generator in the construction camp properly maintained	1	1	0	1	75
44	Adequate barriers are provided around areas where hazards may exist	0	1	0	1	0.5
45	Spilled oil or fuel and used clean up material being disposed of properly	0	2	1	1	1
46	Waste segregation at source	0	0	0	1	0.25
47	Construction and Maintenance of Walkways	0	0	0.4	0.5	0.22
48	Dust Generation during construction well managed and record exists	0.5	0.5	0.5	0.5	0.5
49	Water Sprinkling Record is available	1	1	1	1	1
50	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow	1	1	2	1	1.25
51	Photographic Record of roads and agricultural fields are being maintained	1	1	0	1	0.75
52	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	1	1	1	1	1
53	Spills and leak thoroughly cleaned	1	1	1	1	1
54	Construction machinery parked at designated areas?	1	1	1	1	1
55	Traffic issues managed well, no complaints on record	1	1	1	1	1
56	Daily, Weekly and Monthly Checklists are filled regularly	0	2	1	1	2
57	Storage of Hazardous Material in designated areas. MSDS available	1	1	1	1	1
58	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
Total Weightage (out of 107)						80.5
Monthly Percentage						75.13 %
<p>Key: (Percentage)</p> <p>100 = Excellent</p> <p>Above 80 = Good</p> <p>Above 60 = Average</p> <p>Below 40 = Below Average</p> <p>Below 33 = Unsatisfactory</p>						

September, 2024

Name of The Project: CONSTRUCTION OF KHAZRAN & HATACHI INFILTRATION GALLERY SUBPROJECT (NCB-02) MULLA RIVER BASIN.						
Environmental Compliance Checklist						
Sr.no	Description	Week				Month
		1	2	3	4	Sep, 2024
Major Adverse Impacts (weightage 0-3)						
1	Copy of the SSEMP provided at the camp site/contractor office?	3	3	3	3	3
2	The EMP instructions are understood?	3	2	0	3	2
3	An individual is nominated for implementation of EMP?	3	3	3	3	3
4	Camp Management Health and Hygiene/ Heating, Cooling, Lighting and Housekeeping	0	3	3	3	2.25
5	Workforce use PPE at site?	1	2	2	2	1.75
6	Contractor provide PPE to their workforce?	2	2	3	3	2.5
7	Potable water is available to labor	3	3	3	3	3
8	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	1	1	2	2	1.5
9	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	2	3	2	1	2
10	Contractor maintained Grievances Log registered the complaints from community?	3	0	3	2	2
11	Contractors prohibited child labor and forced labor?	3	2	3	1	2.5
12	Borrow area is leased and the landowner is compensated as per a lease agreement?	2	0	1	3	1.5
13	Septic tank and Soak Pits are designed for treatment of effluents?	3	2	3	3	2.5
14	No complaint filed regarding transmission of communicable diseases	3	3	2	1	2.25
Moderate Adverse Impacts (weightage 0-2)						
15	Provision of necessary welfare and hygiene requirements for the prevention of epidemic	0	1	2	2	1.25
16	Availability of an updated emergency vehicle (Ambulance)	1	3	2	2	2.25
17	Site selected for camp is 500 m from the human settlements and wildlife habitats?	2	2	2	2	2
18	No wood cutting for fuel?	1	2	0	2	1.25

19	LPG cylinders are provided for cooking or heating purposes?	2	2	2	2	2
20	Arrangements for proper storage and disposal solid waste is planned?	1	1	2	2	1.5
21	Safety signs are properly displayed?	1	2	1	1	1.5
22	Contractor provided training to workers to effectively implement project specific EMP?	2	2	2	2	2
23	Contractors followed HSE plan and Emergency Response Procedures	0	0	0	2	0.5
24	Contractors properly disposes debris materials in approved barren land/TMA facilities preferably recycling, reuse process?	1	1	1	2	1.25
25	Natural areas with high elevation are normally selected as borrow areas?	1	0	2	1	1
26	Minimum damage to the agriculture land due to borrow pits on agriculture land?	2	1	1	2	1.5
27	Stockpiling of Material , Construction Material Management	1	0	1	1	0.75
28	Waste being stored temporarily on camp and sites only within the designated area	2	2	3	2	2
29	Fuel/oil storage areas are away from watercourses?	2	1	2	2	1.75
30	Fuel/oil storage areas are paved and ventilated	1	1	2	2	1.5
31	Fire Extinguisher is placed near Fuel Storage area	0	0	0	0	0
32	Tree cutting restricted to RoW and shoulder areas only?	1	1	2	2	1.5
33	No damage reported to public services like electric, water, gas, sewer or telephone lines?	1	1	2	2	1.5
34	Batching plant properly managed, no complaints	0	0	1	1	0.5
35	Project activities are displayed at proper locations	1	2	0	1	1
Minor Adverse Impacts and Good Practice (weightage 0-1)						
36	No complaints were made due to noise and vibration?	1	0	1	1	0.75
37	Contractor conduct Information, Education and Communication (IEC) campaign	0.1	0.1	0.1	0.1	0.1
38	Labor Screening at the time of induction	0.3	0.3	0.5	0.5	0.4
39	Fire Extinguisher are placed and checked properly	0	0	0	1	0.25
40	Contractors hiring of local labor?	1	1	0	1	0.75
41	Project site is fenced to prevent trespassing?	0	1	0	1	0.5
42	Community consultation has been carried out for project activities/concerns	1	1	1	1	1
43	Generator in the construction camp properly maintained	1	2	1	0	1

44	Adequate barriers are provided around areas where hazards may exist	0	0	0	1	0.25
45	Spilled oil or fuel and used clean up material being disposed of properly	0	2	1	1	1
46	Waste segregation at source	0	1	0	1	0.5
47	Construction and Maintenance of Walkways	0	1	0.4	0.5	1.9
48	Dust Generation during construction well managed and record exists	0.5	0.5	0.5	0.5	0.5
49	Water Sprinkling Record is available	1	2	0	1	1
50	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow	2	1	2	0	1.25
51	Photographic Record of roads and agricultural fields are being maintained	1	1	0	1	0.75
52	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	1	1	1	1	1
53	Spills and leak thoroughly cleaned	0	1	2	1	1
54	Construction machinery parked at designated areas?	1	1	1	1	1
55	Traffic issues managed well, no complaints on record	1	0	1	1	0.75
56	Daily, Weekly and Monthly Checklists are filled regularly	0	2	1	1	2
57	Storage of Hazardous Material in designated areas. MSDS available	1	1	1	1	1
58	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
Total Weightage (out of 107)						81.16
Monthly Percentage						77.16%
<p>Key: (Percentage)</p> <p>100 = Excellent</p> <p>Above 80 = Good</p> <p>Above 60 = Average</p> <p>Below 40 = Below Average</p> <p>Below 33 = Unsatisfactory</p>						

October, 2024

Name of The Project: CONSTRUCTION OF KHAZRAN & HATACHI INFILTRATION GALLERY SUBPROJECT (NCB-02) MULLA RIVER BASIN.						
Environmental Compliance Checklist						
Sr.no	Description	Week				Month
		1	2	3	4	October, 2024
Major Adverse Impacts (weightage 0-3)						
1	Copy of the SSEMP provided at the camp site/contractor office?	1	3	2	3	2.25
2	The EMP instructions are understood?	2	3	3	3	2.75
3	An individual is nominated for implementation of EMP?	3	3	3	3	3
4	Camp Management Health and Hygiene/ Heating, Cooling, Lighting and Housekeeping	2	2	2	3	2.25
5	Workforce use PPE at site?	1	2	3	2	2
6	Contractor provide PPE to their workforce?	2	2	3	3	2.5
7	Potable water is available to labor	3	3	3	3	3
8	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	1	1	2	2	1.5
9	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	3	1	2	1	1.75
10	Contractor maintained Grievances Log registered the complaints from community?	0	2	3	2	1.75
11	Contractors prohibited child labor and forced labor?	3	2	3	1	2.5
12	Borrow area is leased and the landowner is compensated as per a lease agreement?	2	1	0	3	1.5
13	Septic tank and Soak Pits are designed for treatment of effluents?	3	2	3	3	2.5
14	No complaint filed regarding transmission of communicable diseases	3	0	3	3	2.25
Moderate Adverse Impacts (weightage 0-2)						
15	Provision of necessary welfare and hygiene requirements for the prevention of epidemic	1	0	2	2	1.25
16	Availability of an updated emergency vehicle (Ambulance)	1	3	2	2	2.25
17	Site selected for camp is 500 m from the human settlements and wildlife habitats?	2	2	2	2	2
18	No wood cutting for fuel?	2	2	2	2	2

19	LPG cylinders are provided for cooking or heating purposes?	2	2	2	2	2
20	Arrangements for proper storage and disposal solid waste is planned?	1	1	2	2	1.5
21	Safety signs are properly displayed?	1	2	1	1	1.5
22	Contractor provided training to workers to effectively implement project specific EMP?	2	2	2	2	2
23	Contractors followed HSE plan and Emergency Response Procedures	2	2	2	2	2
24	Contractors properly disposes debris materials in approved barren land/TMA facilities preferably recycling, reuse process?	1	1	1	2	1.25
25	Natural areas with high elevation are normally selected as borrow areas?	1	1	1	1	1
26	Minimum damage to the agriculture land due to borrow pits on agriculture land?	1	1	2	2	1.5
27	Stockpiling of Material , Construction Material Management	1	1	1	1	1
28	Waste being stored temporarily on camp and sites only within the designated area	2	2	2	2	2
29	Fuel/oil storage areas are away from watercourses?	2	2	2	2	2
30	Fuel/oil storage areas are paved and ventilated	1	1	2	2	1.5
31	Fire Extinguisher is placed near Fuel Storage area	0	0	0	1	0.25
32	Tree cutting restricted to RoW and shoulder areas only?	1	1	2	2	1.5
33	No damage reported to public services like electric, water, gas, sewer or telephone lines?	1	1	2	2	1.5
34	Batching plant properly managed, no complaints	0	0	1	1	0.5
35	Project activities are displayed at proper locations	1	2	0	1	1
Minor Adverse Impacts and Good Practice (weightage 0-1)						
36	No complaints were made due to noise and vibration?	1	1	1	1	1
37	Contractor conduct Information, Education and Communication (IEC) campaign	0.1	0.1	0.1	0.1	0.1
38	Labor Screening at the time of induction	0.3	0.3	0.5	0.5	0.4
39	Fire Extinguisher are placed and checked properly	0	0	0	1	0.25
40	Contractors hiring of local labor?	1	1	0	1	0.75
41	Project site is fenced to prevent trespassing?	0	1	0	1	0.5
42	Community consultation has been carried out for project activities/concerns	1	1	1	1	1
43	Generator in the construction camp properly maintained	1	1	0	1	75

44	Adequate barriers are provided around areas where hazards may exist	0	0	1	1	0.5
45	Spilled oil or fuel and used clean up material being disposed of properly	1	1	1	1	1
46	Waste segregation at source	0	0	0	1	0.25
47	Construction and Maintenance of Walkways	0	0	0.4	0.5	0.22
48	Dust Generation during construction well managed and record exists	0.5	0.5	0.5	0.5	0.5
49	Water Sprinkling Record is available	1	1	1	1	1
50	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow	1	1	2	1	1.25
51	Photographic Record of roads and agricultural fields are being maintained	1	1	0	1	0.75
52	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	1	1	1	1	1
53	Spills and leak thoroughly cleaned	1	1	1	1	1
54	Construction machinery parked at designated areas?	1	1	1	1	1
55	Traffic issues managed well, no complaints on record	1	1	1	1	1
56	Daily, Weekly and Monthly Checklists are filled regularly	0	2	1	1	2
57	Storage of Hazardous Material in designated areas. MSDS available	1	1	1	1	1
58	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
Total Weightage (out of 107)						80.5
Monthly Percentage						76.25%
<p>Key: (Percentage)</p> <p>100 = Excellent</p> <p>Above 80 = Good</p> <p>Above 60 = Average</p> <p>Below 40 = Below Average</p> <p>Below 33 = Unsatisfactory</p>						

November, 2024

Name of The Project: CONSTRUCTION OF KHAZRAN & HATACHI INFILTRATION GALLERY SUBPROJECT (NCB-02) MULLA RIVER BASIN.						
Environmental Compliance Checklist						
Sr.no	Description	Week				Month
		1	2	3	4	Nov, 2024
Major Adverse Impacts (weightage 0-3)						
1	Copy of the SSEMP provided at the camp site/contractor office?	1	3	3	3	2.75
2	The EMP instructions are understood?	3	3	3	3	3
3	An individual is nominated for implementation of EMP?	3	3	1	3	2.25
4	Camp Management Health and Hygiene/ Heating, Cooling, Lighting and Housekeeping	2	2	3	2	2.25
5	Workforce use PPE at site?	2	0	3	2	2
6	Contractor provide PPE to their workforce?	2	2	3	3	2.5
7	Potable water is available to labor	3	3	3	3	3
8	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	1	0	3	2	1.5
9	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	3	1	2	1	1.75
10	Contractor maintained Grievances Log registered the complaints from community?	0	2	3	2	1.5
11	Contractors prohibited child labor and forced labor?	3	2	3	1	2.25
12	Borrow area is leased and the landowner is compensated as per a lease agreement?	2	1	0	3	1.5
13	Septic tank and Soak Pits are designed for treatment of effluents?	3	2	3	3	2.5
14	No complaint filed regarding transmission of communicable diseases	3	0	3	3	2.25
Moderate Adverse Impacts (weightage 0-2)						
15	Provision of necessary welfare and hygiene requirements for the prevention of epidemic	1	0	2	2	1.25
16	Availability of an updated emergency vehicle (Ambulance)	1	3	2	2	2.25
17	Site selected for camp is 500 m from the human settlements and wildlife habitats?	2	2	2	2	2
18	No wood cutting for fuel?	2	2	2	2	2

19	LPG cylinders are provided for cooking or heating purposes?	2	2	2	2	2
20	Arrangements for proper storage and disposal solid waste is planned?	1	1	2	2	1.5
21	Safety signs are properly displayed?	1	2	1	1	1.5
22	Contractor provided training to workers to effectively implement project specific EMP?	2	2	2	2	2
23	Contractors followed HSE plan and Emergency Response Procedures	2	3	1	0	1.5
24	Contractors properly disposes debris materials in approved barren land/TMA facilities preferably recycling, reuse process?	1	2	1	2	1.5
25	Natural areas with high elevation are normally selected as borrow areas?	1	3	1	0	1.25
26	Minimum damage to the agriculture land due to borrow pits on agriculture land?	2	1	0	2	1.5
27	Stockpiling of Material , Construction Material Management	1	1	1	1	1
28	Waste being stored temporarily on camp and sites only within the designated area	2	2	2	2	2
29	Fuel/oil storage areas are away from watercourses?	3	0	3	2	2
30	Fuel/oil storage areas are paved and ventilated	1	1	2	2	1.5
31	Fire Extinguisher is placed near Fuel Storage area	0	0	0	1	0.25
32	Tree cutting restricted to RoW and shoulder areas only?	1	1	2	2	1.5
33	No damage reported to public services like electric, water, gas, sewer or telephone lines?	1	1	2	2	1.5
34	Batching plant properly managed, no complaints	0	1	1	1	0.75
35	Project activities are displayed at proper locations	1	2	0	1	1
Minor Adverse Impacts and Good Practice (weightage 0-1)						
36	No complaints were made due to noise and vibration?	0	1	3	1	1
37	Contractor conduct Information, Education and Communication (IEC) campaign	0.1	0.1	0.1	0.1	0.1
38	Labor Screening at the time of induction	0.3	0	0.5	0.5	1.3
39	Fire Extinguisher are placed and checked properly	0	0	0	1	0.25
40	Contractors hiring of local labor?	1	1	0	1	0.75
41	Project site is fenced to prevent trespassing?	0	1	0	1	0.5
42	Community consultation has been carried out for project activities/concerns	1	1	1	1	1
43	Generator in the construction camp properly maintained	1	2	0	1	1

44	Adequate barriers are provided around areas where hazards may exist	0	0	1	1	0.5
45	Spilled oil or fuel and used clean up material being disposed of properly	1	1	2	1	1.25
46	Waste segregation at source	0	0	0	1	0.25
47	Construction and Maintenance of Walkways	0	0	0.4	0.5	0.22
48	Dust Generation during construction well managed and record exists	0.5	0.5	0.5	0.5	0.5
49	Water Sprinkling Record is available	1	1	1	1	1
50	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow	1	1	2	1	1.25
51	Photographic Record of roads and agricultural fields are being maintained	1	1	0	1	0.75
52	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	1	0	1	1	0.75
53	Spills and leak thoroughly cleaned	1	1	1	1	1
54	Construction machinery parked at designated areas?	1	1	1	1	1
55	Traffic issues managed well, no complaints on record	1	1	2	1	1.25
56	Daily, Weekly and Monthly Checklists are filled regularly	0	1	1	1	0.75
57	Storage of Hazardous Material in designated areas. MSDS available	1	1	1	1	1
58	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
Total Weightage (out of 107)						82.63
Monthly Percentage						77.23%
<p>Key: (Percentage)</p> <p>100 = Excellent</p> <p>Above 80 = Good</p> <p>Above 60 = Average</p> <p>Below 40 = Below Average</p> <p>Below 33 = Unsatisfactory</p>						

Pashta Khan and Garambowad Perennial Irrigation Sub (NCB- 04)**October, 2024**

Name of The Project: Construction of Pashta Khan and Garambowad Perennial Sub Project NCB-04						
Environmental Compliance Checklist						
Sr.no	Description	Week				Monthly Avg
		1	2	3	4	Oct, 2024
Major Adverse Impacts (weightage 0-3)						
1	Copy of the SSEMP provided at the camp site/contractor office?	3	2	3	3	2.75
2	The EMP instructions are understood?	1	3	3	3	2.25
3	An individual is nominated for implementation of EMP?	1	2	3	3	2.25
4	Camp Management Health and Hygiene/ Heating, Cooling, Lighting and Housekeeping	2	3	2	3	2.75
5	Workforce use PPE at site?	3	3	3	3	3
6	Contractor provide PPE to their workforce?	2	2	3	3	2.5
7	Potable water is available to labor	3	3	3	3	3
8	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	3	3	3	3	3
9	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	3	3	3	3	3
10	Contractor maintained Grievances Log registered the complaints from community?	1	2	2	2	1.75
11	Contractors prohibited child labor and forced labor?	2	2	3	3	2.5
12	Borrow area is leased and the landowner is compensated as per a lease agreement?	0	1	2	3	1.5
13	Septic tank and Soak Pits are designed for treatment of effluents?	2	2	2	2	2
14	No complaint filed regarding transmission of communicable diseases	3	3	3	3	3
Moderate Adverse Impacts (weightage 0-2)						
15	Provision of necessary welfare and hygiene requirements for the prevention of epidemic	1	1	2	2	1.5
16	Availability of an updated emergency vehicle (Ambulance)	1	1	2	2	1.5
17	Site selected for camp is 500 m from the human settlements and wildlife habitats?	2	2	2	2	2

18	No wood cutting for fuel?	2	2	2	2	2
19	LPG cylinders are provided for cooking or heating purposes?	2	2	2	2	2
20	Arrangements for proper storage and disposal solid waste is planned?	1	1	2	2	1.5
21	Safety signs are properly displayed?	0	0	1	1	0.4
22	Contractor provided training to workers to effectively implement project specific EMP?	2	3	2	3	2.75
23	Contractors followed HSE plan and Emergency Response Procedures	2	2	2	2	2
24	Contractors properly disposes debris materials in approved barren land/TMA facilities preferably recycling, reuse process?	1	1	1	2	1.25
25	Natural areas with high elevation are normally selected as borrow areas?	1	1	1	1	1
26	Minimum damage to the agriculture land due to borrow pits on agriculture land?	1	1	2	2	1.5
27	Stockpiling of Material , Construction Material Management	1	1	1	1	1
28	Waste being stored temporarily on camp and sites only within the designated area	2	2	2	2	2
29	Fuel/oil storage areas are away from watercourses?	2	2	2	2	2
30	Fuel/oil storage areas are paved and ventilated	1	1	2	2	1.5
31	Fire Extinguisher is placed near Fuel Storage area	2	2	2	2	2
32	Tree cutting restricted to RoW and shoulder areas only?	1	1	2	2	1.5
33	No damage reported to public services like electric, water, gas, sewer or telephone lines?	1	1	2	2	1.5
34	Batching plant properly managed, no complaints	0	0	1	1	0.5
35	Project activities are displayed at proper locations	1	2	0	1	1
Minor Adverse Impacts and Good Practice (weightage 0-1)						
36	No complaints were made due to noise and vibration?	1	1	1	1	1
37	Contractor conduct Information, Education and Communication (IEC) campaign	0.1	0.1	0.1	0.1	0.1
38	Labor Screening at the time of induction	0.3	0.3	0.5	0.5	0.4
39	Fire Extinguisher are placed and checked properly	1	1	1	1	1
40	Contractors hiring of local labor?	1	1	1	1	1
41	Project site is fenced to prevent trespassing?	0	0	0	1	0.25
42	Community consultation has been carried out for project activities/concerns	1	1	1	1	1

43	Generator in the construction camp properly maintained	1	1	1	1	1
44	Adequate barriers are provided around areas where hazards may exist	0	0	0	1	0.25
45	Spilled oil or fuel and used clean up material being disposed of properly	1	1	1	1	1
46	Waste segregation at source	0	0	0	1	0.25
47	Construction and Maintenance of Walkways	0	0	0.4	0.5	0.22
48	Dust Generation during construction well managed and record exists	0.5	0.5	0.5	0.5	0.5
49	Water Sprinkling Record is available	1	1	1	1	1
50	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow	1	1	1	1	1
51	Photographic Record of roads and agricultural fields are being maintained	1	1	1	1	1
52	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	1	1	1	1	1
53	Spills and leak thoroughly cleaned	1	1	1	1	1
54	Construction machinery parked at designated areas?	1	1	1	1	1
55	Traffic issues managed well, no complaints on record	0.5	0.5	0.5	1	0.62
56	Daily, Weekly and Monthly Checklists are filled regularly	0	0	1	1	0.5
57	Storage of Hazardous Material in designated areas. MSDS available	1	1	1	1	1
58	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
Total Weightage (out of 116)						86.55
Monthly Percentage						71.89%
<p>Key: (Percentage)</p> <p>100 = Excellent</p> <p>Above 80 = Good</p> <p>Above 60 = Average</p> <p>Below 40 = Below Average</p> <p>Below 30 = Unsatisfactory</p>						

Construction of Manyalo, Raiko and Rind Ali Perennial Irrigation Sub Project – Mulla River Basin (NCB-07)**October, 2024**

Name of The Project: Construction of Manyalo ,Raiko and Rind Ali Perennial Sub-Project – Mulla River Basin NCB-07						
Environmental Compliance Checklist						
Sr.no	Description	Week				Monthly Avg
		1	2	3	4	October , 2024
Major Adverse Impacts (weightage 0-3)						
1	Copy of the SSEMP provided at the camp site/contractor office?	3	3	3	3	3
2	The EMP instructions are understood?	3	3	3	3	3
3	An individual is nominated for implementation of EMP?	1	2	3	3	2.25
4	Camp Management Health and Hygiene/ Heating, Cooling, Lighting and Housekeeping	2	2	2	3	2.25
5	Workforce use PPE at site?	3	3	3	3	3
6	Contractor provide PPE to their workforce?	2	2	3	3	2.5
7	Potable water is available to labor	3	3	3	3	3
8	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	3	3	3	3	3
9	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	3	3	3	3	3
10	Contractor maintained Grievances Log registered the complaints from community?	1	2	2	2	1.75
11	Contractors prohibited child labor and forced labor?	2	2	3	3	2.5
12	Borrow area is leased and the landowner is compensated as per a lease agreement?	0	1	2	3	1.5
13	Septic tank and Soak Pits are designed for treatment of effluents?	2	2	2	2	2
14	No complaint filed regarding transmission of communicable diseases	3	3	3	3	3
Moderate Adverse Impacts (weightage 0-2)						
15	Provision of necessary welfare and hygiene requirements for the prevention of epidemic	1	1	2	2	1.5
16	Availability of an updated emergency vehicle (Ambulance)	1	1	2	2	1.5

17	Site selected for camp is 500 m from the human settlements and wildlife habitats?	2	2	2	2	2
18	No wood cutting for fuel?	2	2	2	2	2
19	LPG cylinders are provided for cooking or heating purposes?	2	2	2	2	2
20	Arrangements for proper storage and disposal solid waste is planned?	1	1	2	2	1.5
21	Safety signs are properly displayed?	0	0	1	1	0.4
22	Contractor provided training to workers to effectively implement project specific EMP?	2	2	3	3	2.75
23	Contractors followed HSE plan and Emergency Response Procedures	2	3	2	1	2.25
24	Contractors properly disposes debris materials in approved barren land/TMA facilities preferably recycling, reuse process?	1	2	1	2	1.75
25	Natural areas with high elevation are normally selected as borrow areas?	1	1	2	1	1.25
26	Minimum damage to the agriculture land due to borrow pits on agriculture land?	1	1	2	2	1.5
27	Stockpiling of Material , Construction Material Management	1	1	1	1	1
28	Waste being stored temporarily on camp and sites only within the designated area	2	2	2	2	2
29	Fuel/oil storage areas are away from watercourses?	2	2	2	2	2
30	Fuel/oil storage areas are paved and ventilated	1	1	2	2	1.5
31	Fire Extinguisher is placed near Fuel Storage area	2	2	1	2	1.75
32	Tree cutting restricted to RoW and shoulder areas only?	1	1	2	2	1.5
33	No damage reported to public services like electric, water, gas, sewer or telephone lines?	1	1	2	2	1.5
34	Batching plant properly managed, no complaints	0	0	1	1	0.5
35	Project activities are displayed at proper locations	1	2	0	1	1
Minor Adverse Impacts and Good Practice (weightage 0-1)						
36	No complaints were made due to noise and vibration?	1	1	1	1	1
37	Contractor conduct Information, Education and Communication (IEC) campaign	0.1	0.1	0.1	0.1	0.1
38	Labor Screening at the time of induction	0.3	0.3	0.5	0.5	0.4
39	Fire Extinguisher are placed and checked properly	1	1	1	1	1
40	Contractors hiring of local labor?	1	1	1	1	1
41	Project site is fenced to prevent trespassing?	0	0	0	1	0.25

42	Community consultation has been carried out for project activities/concerns	1	1	1	1	1
43	Generator in the construction camp properly maintained	1	1	1	1	1
44	Adequate barriers are provided around areas where hazards may exist	0	0	0	1	0.25
45	Spilled oil or fuel and used clean up material being disposed of properly	1	1	1	1	1
46	Waste segregation at source	0	0	0	1	0.25
47	Construction and Maintenance of Walkways	0	0	0.4	0.5	0.22
48	Dust Generation during construction well managed and record exists	0.5	0.5	0.5	0.5	0.5
49	Water Sprinkling Record is available	1	1	1	1	1
50	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow	1	1	1	1	1
51	Photographic Record of roads and agricultural fields are being maintained	1	1	1	1	1
52	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	1	1	1	1	1
53	Spills and leak thoroughly cleaned	1	1	1	1	1
54	Construction machinery parked at designated areas?	1	1	1	1	1
55	Traffic issues managed well, no complaints on record	0.5	0.5	0.5	1	0.62
56	Daily, Weekly and Monthly Checklists are filled regularly	0	0	1	1	0.5
57	Storage of Hazardous Material in designated areas. MSDS available	1	1	1	1	1
58	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
Total Weightage (out of 116)						83.65
Monthly Percentage						75.84%
Key: (Percentage) 100 = Excellent Above 80 = Good Above 60 = Average Below 40 = Below Average Below 30 = Unsatisfactory						

Annexure III: Training Photographs and Attendance Sheet

Construction of Siri Toi Dam Sub Project (ICB-01)

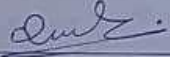
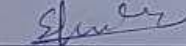



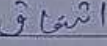
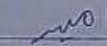

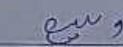
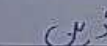
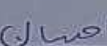



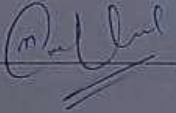
Safety Trainings

Construction of Siri Toi Dam ICB-01

Training Attendance Sheet

Topic: Eye & Hand Safety Date: 26-6-24

S. No.	Name	Designation	Signature
1-	Qadeer	Accountant	
2-	Shouib	~	
3-	Nadir	D.S	
4-	Bashir	~	
5-	Javed	~	
6-	Ashfaq	Labour	
7-	Amir	~	
8-	Sifat	~	
9-	Wasi	~	
10-	Zahir	~	
11-	Ahsan	~	
12	Mubasir	~	

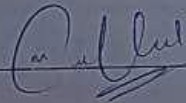
Trainer Signature: 

Construction of Siri Toi Dam ICB-01

Training Attendance Sheet

Topic: <u>Fire Prevention</u>		Date: <u>1-7-24</u>	
S. No.	Name	Designation	Signature
1-	Chairman	Barman	Chairman
2-	Hanif	Laborer	Hanif
3-	Qadher	~	Qadher
4-	Osama	~	Osama
5-	Waidar	~	Waidar
6-	Naeen	~	Naeen
7-	Chote	~	Chote
8-	Nisar	~	Nisar
9-	Zia	Electrician	Zia
10-	Nawaz	~	Nawaz

Trainer Signature: _____



Construction of Siri Toi Dam ICB-01

Training Attendance Sheet

Topic: <u>Zero harm</u>		Date: <u>11-7-24</u>	
S. No.	Name	Designation	Signature
1-	Tariq	Qasab	Q, 16
2-	Ikhlaq	N	خدا
3-	Hulcamran	N	خدا
4-	Umer	N	خدا
5-	Mutawakil	N	خدا
6-	Bozibekhan	N	خدا
7-	Atta ur rehman	N	خدا
8-	Nasseeb	N	خدا
9-	Latif	N	خدا
10	Qadir	N	خدا

Trainer Signature: Amjad


Construction of Siri Toi Dam ICB-01

Training Attendance Sheet

Topic: Fire Safety in kitchen Date: 18-10-24

S. No.	Name	Designation	Signature
1-	Atiq	Cook	Abr
2-	Sibyan	~	Jm
3-	Zair	Cook helper	J
4-	Icareem	~	~
5-	Aurangzeb	~	~
6-	Salal	Labour	~
7-	Noman	~	~
8-	Zalim	~	~
9-	Alamgir	~	~
10	Dadeer	~	~
11-	Tarfa	~	~
12	Qasim	~	~
13-	Dawood	~	~
14	Behan	~	~
15-	Mansoor	~	~

Trainer Signature: _____



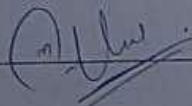
Construction of Siri Toi Dam ICB-01

Training Attendance Sheet

Topic: Equipment InspectionDate: 28-10-24

S. No.	Name	Designation	Signature
1-	Belan	Surveyor	Belan
2-	Zaib	v	Zaib
3-	Azhar	Foreman	Azhar
4-	Jibril	ll	Jibril
5-	Sahil	v	Sahil
6-	Mareem	Labour	Mareem
7-	Tanzai'h	v	Tanzai'h
8-	Irfan	v	Irfan
9-	Sakit	v	Sakit
10-	shah Fahad	v	shah Fahad
11-	Istiaf	v	Istiaf
12-	Atta	v	Atta
13-	Caizar	v	Caizar
14-	Waqar	v	Waqar
15-	Umar	v	Umar

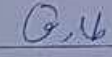
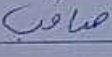
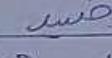
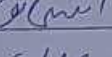
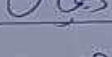
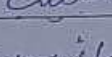
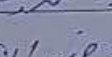
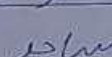


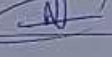

Trainer Signature: _____




Construction of Siri Toi Dam ICB-01

Training Attendance Sheet

Topic: Healthy eating at work Date: 9-11-24


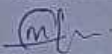
S. No.	Name	Designation	Signature
1-	Tariq	labour	
2-	Saqib	M	
3-	Junaid	N	
4-	Eshwar	N	
5-	Rohan	N	
6-	Habib	N	
7-	Janzab	N	
8-	Rizwan	N	
9-	Sajid	N	
10	Alamgir	Cook	
11-	Ismail	Cooler helper	
12-	Naseer	N	


Trainer Signature: 

Construction of Siri Toi Dam ICB-01

Training Attendance Sheet

Topic: Safety awareness Campaign Date: 26-11-24

S. No.	Name	Designation	Signature
1-	Sifat	Barman	
2-	Mehnoor	~	
3-	Iqbal	Labour	اقبال
4-	Rahim	~	رحیم
5-	Zahir	~	ظاہر
6-	Batoo	~	باتو
7-	Farman	~	فرمان
8-	Amal	~	امال
9-	Zia	~	ظہیر
10-	Jawad	~	جواد
11-	Zulfiqar	~	ذولفقار
12-	Amad	~	اماد
13-	Asfandyar	~	اسفندیار
14-	Waqar	~	واقار
15-	Dadoos	~	دادووس
16-	Zafar	~	زافر
17-	Atiq	~	اتیق
18-	Shebaz	~	شہباز

19- Razia 
Trainer Signature: _____

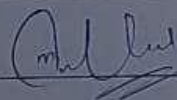
Construction of Siri Toi Dam ICB-01

Training Attendance Sheet

Topic: Communication & Collaboration Date: 6-12-24

S. No.	Name	Designation	Signature
1-	Sajad	labour	سجاد
2-	Arimal	v	ارمیل
3-	Zarak	v	زرک
4-	Laqman	v	لقمان
5-	Azhar	v	اظہار
6-	Zair	v	زائر
7-	Saqib	v	ساقب
8-	Zafar	v	زفار
9-	Subhan	Store keeper	سبھان
10-	Sadiq	Foreman	سادیق

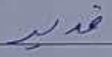


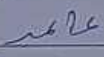
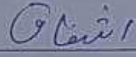
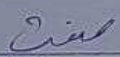

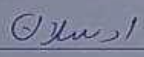

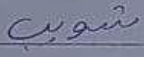

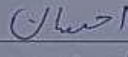
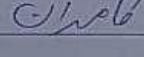
Trainer Signature: _____

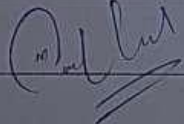


Construction of Siri Toi Dam ICB-01

Training Attendance Sheet

Topic: Emergency response drillsDate: 21-12-24

S. No.	Name	Designation	Signature
1-	Qadeer	Foreman	
2-	Basbir	v	
3-	Qadeer	Store keeper	
4-	Amir	v	
5-	Asifjan	v	
6-	Sifat	Surveyor	
7-	Wasi	v	
8-	Arsalan	laborer	
9-	Zain	v	
10-	Shoib	v	
11-	Nadir	v	
12-	Alisan	v	
13-	Kamran	v	

Trainer Signature: 

Construction of Karakh Valley Development (NCB-01)



Construction of Kharzan Hatachi Infiltration Gallery Subproject Mulla River Basin (NCB-02)



Training Attendance

June- 2024



CONSTRUCTION OF KHAZRAN & HATACHI INFILTRATION GALLERY
SUBPROJECT (NCB-02) MULLA RIVER BASIN.



Training Attendance Sheet

Date June - 2024

Sr.No	Name	Designation	Signature
1	Jalal	Driver	
2	Dagorb	Driver	ياسر
3	Ahmed	Labor	
4	Bilal	Labor	بلال
5	Nasir	Driver helper	
6	Khalid	Helper	خالد
7	Ahmad	Chowdary	

Training Topic: speed limit
vehicles

July- 2024



CONSTRUCTION OF KHAZRAN & HATACHI INFILTRATION GALLERY
SUBPROJECT (NCB-02) MULLA RIVER BASIN.



Training Attendance Sheet

Date July 2024

Sr.No	Name	Designation	Signature
1	Sohil Ahmed	Surveyor	
2	Jahanzab	helper surveyor	
3	Saeed	Surveyor	
4	Ramzan	Munsif	
5	Yaseen	Driver Pochang	
6	Razzaq	Surveyor	

Training Topic: safe handling equipment materials.

August- 2024



CONSTRUCTION OF KHAZRAN & HATACHI INFILTRATION GALLERY
SUBPROJECT (NCB-02) MULLA RIVER BASIN.



Training Attendance Sheet

Date August - 2024

Sr.No	Name	Designation	Signature
1	Nasir	crush plant	ناسر خان
2	Jamal	helper crusher	
3	Sajid	Lat	
4	Nadeem	helper lat	
5	Mpk	mumshi	
7	Najeeb	Driver	
8	Panveer	Driver	
9	Najeeb	Driver	
10	Mujeeb	code	
11	Dameel	chokist	

Training Topic: Hand and head protection during working.

September- 2024



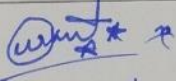
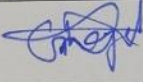


CONSTRUCTION OF KHAZRAN & HATACHI INFILTRATION GALLERY
SUBPROJECT (NCB-02) MULLA RIVER BASIN.



Training Attendance Sheet

Date September 2024

Sr.No	Name	Designation	Signature
1	Bashir	Driver	
2	Ilyas	Surveyor	
3	waqas	consultant	
4	Ghayaal	helper munsifi	
5	Zannan	munsifi	ijbi

Training Topic: Slip, Trips and falls.

October- 2024



CONSTRUCTION OF KHAZRAN & HATACHI INFILTRATION GALLERY
SUBPROJECT (NCB-02) MULLA RIVER BASIN.



Training Attendance Sheet

Date October

Sr.No	Name	Designation	Signature
1	Riaz	Driver	
2	Zia	Driver	
3	Zahid	Driver	
4	Younus	Dumper Driver	
5	Nasir	Driver	
6	Tanveer	Labour	
2	Ejaz	helper lat	اعجاز
2	Hameed	helper mugh	

Training Topic: Respiratory protection.

November – 2024



CONSTRUCTION OF KHAZRAN & HATACHI INFILTRATION GALLERY
SUBPROJECT (NCB-02) MULLA RIVER BASIN.



Training Attendance Sheet

Date November

Sr.No	Name	Designation	Signature
1	Ayoub	Labourer	
2	Khalid	Labourer	
3	Dil Murad	Surveyor	
4	Sheer Ahmed	Helper	
5	Waseem	Tractor Driver	
6	Mulbaddeen	Excavator	
7	Nasir	Tractor Driver	
8	Masood	Labourer	

Training Topic: First Aid and PPEs

Pashta Khan and Garambowad Perennial Irrigation Sub (NCB- 04)



Training Attendance



M/S AGHA BROTHERS CONSTRUCTION COMPANY -
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE



Training Attendance Sheet

Package No. NCB-04

Date 18/10/24Training Topic concrete safety

Sr.No	Name	Designation	Signature
01	Waseem	Labour	
02	Hassan	Labour	
03	Hussain	Labour	
04	Naveed	Labour	
05	Zubair	Labour	
06	Sabir	Driver	
07	Mushtaq	Driver	
08	Rajeeb	surveyor helper	
09	Lal Bakesh	Labour	
10	Naeem	L.T. Helper	

Construction of Manyalo, Raiko and Rind Ali Perennial Irrigation Sub Project – Mula River Basin (NCB-07)



Training Attendance



M/S AGHA BROTHERS CONSTRUCTION COMPANY -
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE



Training Attendance Sheet

Package No. NCB-07

Date 13/10/2024

Training Topic slip, Trips and falls

Sr.No	Name	Designation	Signature
1	Hafeez	Labour cement	
2	Nadeem	Labour cement	
3	Ejaz	1 Driver pickup	
4	Sami	Labour	
5	Ishak	watchman	
6	Niaz	Labour	
7	Shams	1 Driver	
8	Meer ^M Ahmed	L.T	
9	Qadir	Labour	

Annexure IV: Compliance and Non-Compliance on Construction sites

Construction of Siri Toi Dam Sub Project (ICB-01)

Compliance on Construction sites

	
<p>Emergency Assembly Points</p>	<p>Refueling Station</p>
	
<p>Fire Extinguisher</p>	<p>Safety Signboard at Site</p>
	
<p>Safety Signboard at Site</p>	<p>Safety Signboard at Site</p>
	
<p>Labor Canteen Facilities</p>	<p>Labor Canteen Facilities</p>



Heavy Machinery Parking Area at Site



Site Safety Barricade



Usage of LPG Gas Cylinder at Camp site

Non-Compliance on Construction sites



Sliding will be harmful for the workers



Lack of housekeeping on the dam site area, and the ground is observed uneven



Unwanted items observed on Assembly point of the Camp area



Didn't dispose off the waste



Non-compliance with safety protocols detected on excavator operations



Non-compliance with scaffolding safety protocols detected

Non-compliance with fall protection protocols



Non-compliance with PPE protocols

Construction of Karakh Valley Development (NCB-01)

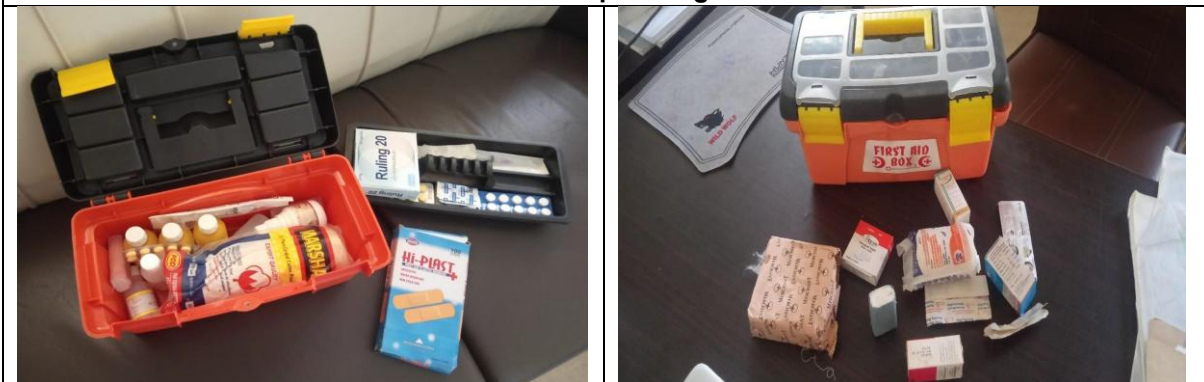
Compliance on Construction sites



PPEs Compliance



Water Sprinkling



Medical Facility at Camp

Non-Compliance on Construction sites



Solid waste not collected in Bins



Poor Hygiene condition at Camp



Use of wood for cooking



Poor Hygiene condition in Kitchen



No cleaning of washrooms at site



Poor Hygiene condition in washroom at Camp



No PPEs Compliance



Poor Hygiene condition in Kitchen at site

Construction of Kharzan Hatachi Infiltration Gallery Subproject Mulla River Basin (NCB-02)

Compliance on Construction sites



PPEs Compliance



First Aid Box



Fire Extinguisher



Signages at Site

Non-Compliance on Construction sites



Dust Soared due to no water sprinkling



No housekeeping and no disposal of solid waste



No hygiene and use of wood for cooking



No PPEs Compliance



No safety signboards

Pashta Khan and Garambowad Perennial Irrigation Sub (NCB- 04)

Compliance on Construction sites



PPEs Compliance



First Aid Box



Fire Extinguisher



Water Sprinkling

Non-Compliance on Construction sites



No Caution Tapes and Safety Signboards on Site



Poor utilities setup at camp



Poor Hygiene condition in Kitchen



No housekeeping

Construction of Manyalo, Raiko and Rind Ali Perennial Irrigation Sub Project – Mula River Basin (NCB-07)

Compliance on Construction sites



PPEs Compliance



Medical Facility in Camp



Fire Extinguisher at Camp Site



Water Sprinkling

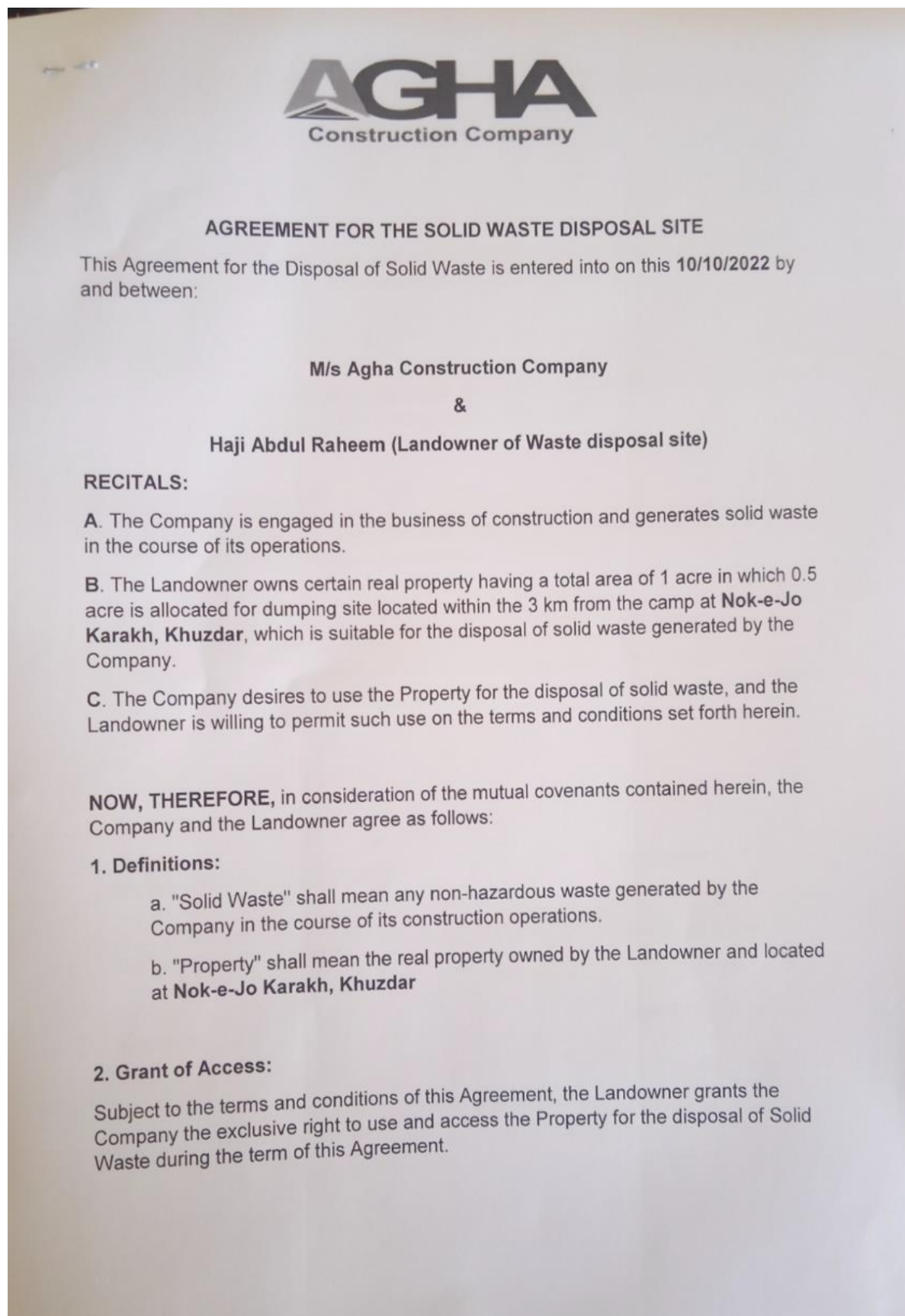


Dustbin at Camp Site

Non-Compliance on Construction sites



No Caution Tape and safety Sign Boards at Site

Annexure V: Solid Waste Disposal Site Agreement**Construction of Karakh Valley Development (NCB-01)**

**3. Term:**

This Agreement shall commence on the Effective Date and continue for a period of **2 years**, unless terminated earlier in accordance with the terms herein.

4. Compensation:

In consideration for the use of the Property, the Company shall pay the Landowner a fee of **Rs 5000** per month for the duration of this Agreement.

5. Compliance with Laws:

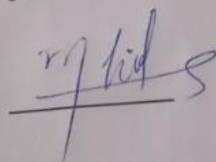
The Company shall comply with all federal, state, and local laws, regulations, and permits governing the disposal of Solid Waste on the Property.

6. Indemnification:

The Company shall indemnify and hold the Landowner harmless from any claims, damages, or liabilities arising from the Company's use of the Property for Solid Waste disposal.

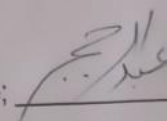
M/s Agha Construction Company

Site Incharge: Malik Sohail

Signature: 

Landowner

Haji Abdul Rahim

Signature: 

Date: 10/10/2022

Pashta Khan and Garambowad Perennial Irrigation Sub Project (NCB- 04)

M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE

**AGREEMENT FOR THE SOLID WASTE DISPOSAL SITE**

This agreement for the Disposal of Solid Waste is entered into on this 14/7/2024 by and between.

Agha Brothers Construction Company

&

Haji Ismail (Landowner of Waste disposal site)

RECITAL:

- A. The company is engaged in the business of construction and generates solid waste in the course of its operations.
- B. The Landowner owns certain real property having a total area of 3.5 acre in which 0.5 acre is allocated for dumping site located within the 1.5 km from the camp at Pashta Khan Mola, Khuzdar which is suitable for the disposal of solid waste generated by the Company
- C. The Company desires to use the property for the disposal of solid waste, and the Landowner is willing to permit such use on the terms and conditions set forth herein.

NOW, THEREFORE, in consideration of the mutual covenants contains herein, the Company and the Landowner agree as follows.

1. Definitions:

- A. Solid waste shall mean any non- hazardous waste generated by the Company in the course of its construction operations.
- B. Property shall mean the real property owned by the Landowner and located at Pashta Khan Mola, Khuzdar

2. Grant of access:

Subject to the terms and conditions of this agreement, the Landowner grants the Company the exclusive right to use and access the property for the disposal of Solid Waste during the term of this agreement.



M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE



3. Terms:

This agreement shall commence on the Effective Date and continue for a period of 2 years, unless terminated earlier in accordance with the terms herein.

4. Compensation:

In consideration for the use of the property, the Company shall pay the Landowner a fee of Rs 4000 per month for the duration of this agreement.

5. Compliance with Laws:

The Company shall comply with all federal, state, and local laws, regulations, and permits governing the disposal of Solid Waste on the property.

6. Indemnification:

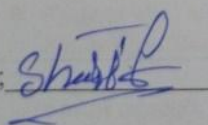
The Company shall indemnify and hold the Landowner harmless from any claims, damages, or liabilities arising from the Company's use of the Property for Solid Waste disposal.

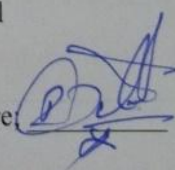
Agha Brother Construction Company

Landowner

Site In charge: M Sharif

Haji Ismail

Signature: 

Signature: 

Date: 17/07/2024

Construction of Manyalo, Raiko And Rind Ali Perennial Irrigation Sub Project – Mula River Basin (NCB-07)

M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE



AGREEMENT FOR THE SOLID WASTE DISPOSAL SITE

This agreement for the Disposal of Solid Waste is entered into on this 10/7/2024 by and between.

Agha Brothers Construction Company

&

Khalid Hussain (Landowner of Waste disposal site)

RECITAL:

- A. The company is engaged in the business of construction and generates solid waste in the course of its operations.
- B. The Landowner owns certain real property having a total area of 2.5 acre in which 0.5 acre is allocated for dumping site located within the 1.5 km from the camp at Manyalo, Khuzdar which is suitable for the disposal of solid waste generated by the Company
- C. The Company desires to use the property for the disposal of solid waste, and the Landowner is willing to permit such use on the terms and conditions set forth herein.

NOW, THEREFORE, in consideration of the mutual covenants contains herein, the Company and the Landowner agree as follows.

1. Definitions:

- A. Solid waste shall mean any non- hazardous waste generated by the Company in the course of its construction operations.
- B. Property shall mean the real property owned by the Landowner and located at Manyalo, Khuzdar

2. Grant of access:

Subject to the terms and conditions of this agreement, the Landowner grants the Company the exclusive right to use and access the property for the disposal of Solid Waste during the term of this agreement.



M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE



3. Terms:

This agreement shall commence on the Effective Date and continue for a period of 2 years, unless terminated earlier in accordance with the terms herein.

4. Compensation:

In consideration for the use of the property, the Company shall pay the Landowner a fee of Rs 4000 per month for the duration of this agreement.

5. Compliance with Laws:

The Company shall comply with all federal, state, and local laws, regulations, and permits governing the disposal of Solid Waste on the property.

6. Indemnification:

The Company shall indemnify and hold the Landowner harmless from any claims, damages, or liabilities arising from the Company's use of the Property for Solid Waste disposal.

Agha Brother Construction Company

Landowner


Site In charge: M Nasir

Khalid Hussain


Signature:

Signature:

Date: 11/07/2024

Annexure VI: MoU with Dispenser**Construction of Karakh Valley Development (NCB-01)**

CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT
SUB- PROJECT –MULA RIVER BASIN
CONTRACT NO: NCB-01



MEMORANDUM OF UNDERSTANDING

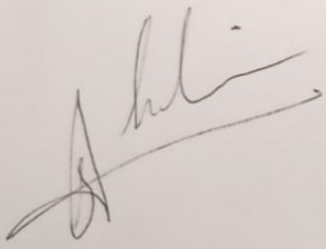
This Memorandum of Understanding (hereinafter referred to as the 'MOU') has been executed in Tehsil Karakh of District Khuzdar, on this, day of 9/2/2023


By and between

M/s Agha Construction Company (ACC) and Qutub Ud Din owner of Aajiz Medical Clinic.

Purpose.

- The ACC company will be responsible to send their minor ill health employers to the Aajiz Medical Clinic.
- It will be the responsibility of the medical staff of the suggested clinic to provide Medical First Aid and assistant to the company's ill health employers.


HSE Officer Agha Construction Company


Owner Aajiz Medical Clinic

Pashta Khan and Garambowad Perennial Irrigation Sub Project (NCB- 04)

M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE

**MEMORANDUM OF UNDERSTANDING**

This memorandum of understanding (hereinafter referred to as the 'MOU') has been executed in Mola Pashta Khan District Khuzdar, on this day of 7/5/2024

By and between

Agha Brother Construction Company (ABCC) and Dr Ilyas owner of Ahmed Medical and Clinic.

Purpose.

- The ABCC company will be responsible to send their minor ill health employees to the Ahmed Medical and Clinical
- It will be the responsibility of the medical staff of the suggested clinical to provide Medical First Aid and assistant to the company's ill health employees.

HSE Officer Agha Brother Construction Company

Owner Ahmed Medical Clinic

Construction of Manyalo, Raiko And Rind Ali Perennial Irrigation Sub Project – Mula River Basin (NCB-07)

M/S AGHA BROTHERS CONSTRUCTION COMPANY –
M/S RAMZAN & SONS (PVT) LIMITED - JOINT VENTURE

**MEMORANDUM OF UNDERSTANDING**

This memorandum of understanding (hereinafter referred to as the 'MOU') has been executed in Manyalo District Khuzdar, on this day of 7/5/2024

By and between

Agha Brother Construction Company (ABCC) and Dr Sajjad owner of Bilal Medical and Clinic.

Purpose.

- The ABCC company will be responsible to send their minor ill health employers to the Bilal Medical and Clinical
- It will be the responsibility of the medical staff of the suggested clinical to provide Medical First Aid and assistant to the company's ill health employers.

HSE Officer Agha Brother Construction Company

Owner Bilal Medical Clinic