

Environmental Monitoring Report

4 Semestral Report
May 2023

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.

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4th Semestral Report (July – December 2022)

Pakistan: Balochistan Water Resources Development Sector Project

Semi Annual Environmental Monitoring Report

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For:

Executing agency - Balochistan Irrigation Department
Implementing agency - Agriculture and Cooperatives Department (ACD)

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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
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 subprojects 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.
3. The project is aligned with the following impacts: Increased farm income in Balochistan and improved water resources management in Balochistan. The project will have the following outcome: agriculture production in the project areas increased.
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. For the whole project, the civil works contract packages are divided into sub-projects. The Contractor names of various subprojects of BWRDSP with subproject name and contract number are as under

S. No.	Name of Sub-project	Contract No	Name of Contractor
1.	Ahmedzai PIS	NCB 08	Noor ul Haq & Brothers
2.	Water Resources Building	NCB 04	M/S Abdul Hameed Bangulzai JV M/S Muhammad Akram Shawani.

3.	Karakh valley development sub-project	NCB 01	M/S Zahir Khan Brothers VS Agha Construction Company
4.	Kharzan Hatachi Infiltration Gallery	NCB 02	M/s Agha Brothers Construction Company, M/s Agha Construction Company and M/s Sadaat Enterprises
5.	Sir Toi Dam	ICB 01	Noor ul Haq & Brothers

6. The sub-project 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 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 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. The design interventions 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. The proposed project is awarded to M/S Zahir Khan Brothers VS Agha Construction Company.
- 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.

- 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 subproject 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.
- The Siri Toi Dam subproject (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 disgned 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.

7. In last SAEMR, the construction works on NCB 08, NCB 05 and NCB 01 were reported in detail. In addition to the above sub-project sites, construction works on NCB 02 and ICB 01 have been started in October 2022 and November 2022 respectively..

8. Status of Site Specific Environmental Management Plan of all sub-projects is as follows,

- NCB 08 conditionally approved by ADB.
- NCB 05 is approved by ADB on 27th February 2022.
- NCB 01 SSEMP submitted to client office on 30th December 2022 for further process.
- NCB 02 submitted to client office for further process on 16/05/2022.
- ICB 01 has been approved on 9th December 2022.

9. This report refers to the 4th Semi Annual Environmental Monitoring Report for Balochistan Water Resources Development Sector Project (BWRDSP) from July, 2022 to December, Which is prepared to analyse the effectiveness of the implementation of environmental safeguards on project sites and compliance of applicable national & international laws & 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.

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

Exhibit 01: Details of ongoing construction activities.

S. No.	Details of ongoing construction Activities		Details of Locations
	Ahmedzai sub-project NCB 08		
1.	Stone Masonry		R.D 32+000
2.	Excavation		R.D 32+000
3.	Canal Concrete		R.D 32+000
	Water Resources Building sub-project NCB 05		
4.	Conference Hall walls brick masonry		WRB Quetta
5.	Conference Hall roof concrete		
6.	Lift walls RC concrete		
7.	Ground Floor flooring conduit		
8.	Door frames installation at ground floor		
	Karakh valley development sub-project NCB 01		
9.	Jhalaro Weir	Excavation	R.D 44 m length
10.	Jhalaro Weir	RCC walls	R.D 44 m length
11.	Jhalaro Channel	PCC bed	R.D 2+000 to 2+650
12.	Jhalaro Channel	Stone masonry	R.D 1+00 to 2+00
13.	Archerwand Channel	Stone masonry fall structure	R.D 1+700 to 1+575
14.	Chutta Gravity	Copping	R.D 0+400 to 1+016
15.	Bund 6	6 layers done	R.D 0+000 to 0+618
16.	Bund 7	Top done	R.D 0+00 to 0+318
17.	Bund 8	Top done	R.D 0+00 to 0+618
	Kharzan Hatachi Infiltration Gallery sub-project NCB 02		
18.	Bund # 2		Excavation (Earth work)
19.	Bund # 3 B		
20.	Bund 3 C & 3 A		Rising in progress
	Siri Toi Dam ICB 01		
21.	Camp establishment		Masonry
22.	Earth work (Dyke)		Excavation

11. 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 languages and approved by ADB. The GRM is fully implemented in the camp areas and construction sites. The GRM record is being checked on monthly basis.
12. A good working relationship is being maintained among the PMO, Contractor and the Consultant's environmental staff. Trainings on regular basis are performed by 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 weekly/monthly basis to adhere with Environmental Management and Monitoring activities.
13. 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 agreed CAP. The corrective actions included better housekeeping on camp and active sites, provision of proper PPEs to the workers, on-job trainings, avoid littering activities, etc.
14. Additional field staff was nominated by Contractors and trainings on housekeeping including waste management and good practice measure was provided to all labors and staff, which decreased minor non-conformance levels months from July to December 2022.
15. SSEMP of NCB 01 was submitted to SC Environmental Specialist with only one comment for resubmission to ADB on 26th December 2022.

1 INTRODUCTION

1.1 General

16. This report represents the 4th Semi - Annual Environmental Monitoring Review for Balochistan Water Resources Development Sector Project from July to December 2022. It contains findings of Environmental Compliance monitoring activities at following subproject sites i.e Ahmedzai Perennial sub-project NCB 08, Water Resources Building NCB 05, Karakh Valley Development Sub-Project on Mula River NCB 01, NCB 02 Kharzan Hitachi Infiltration Gallery and ICB 01 Siri Toi Dam. This 4th SAEMR for the project consisting of the following sub-projects:

Ahmedzai Perennial and Flood Irrigation Sub-Project NCB 08

- Weir
- Flood Protection Channel
- Perennial Channel

Water Resources Building, Quetta NCB 05

- Multi-storey Building

Karakh 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.

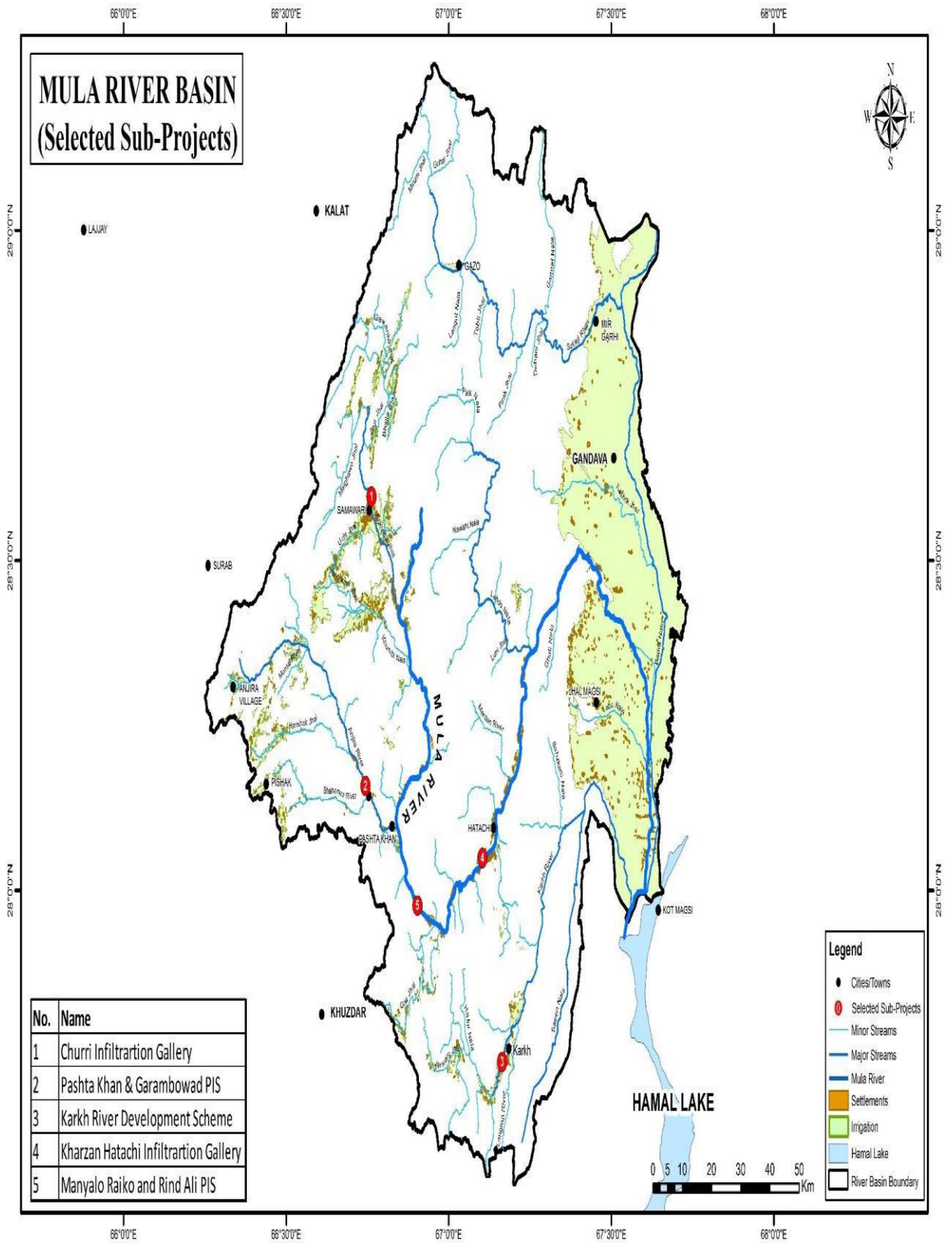
Siri Toi Dam Sub Project ICB 01

- Construction of Siri Toi Dam Sub Project

1.2 Location of sub-project sites

The sub-projects location of Mula River Basin and Zhob River Basin are shown in Exhibit 2 and 3 respectively.

Exhibit 2: Location map of Mula River Basin



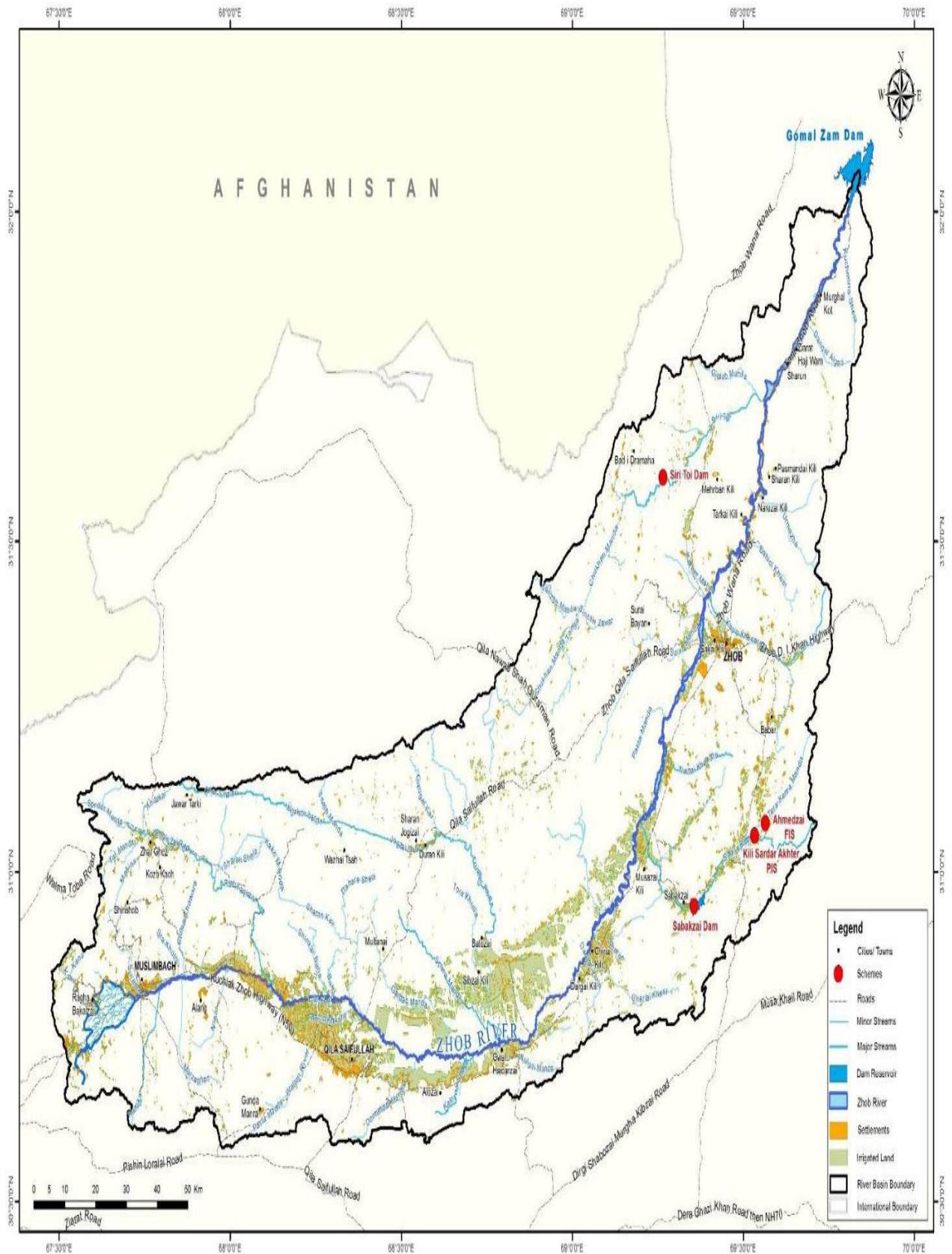


Exhibit 3: Location map of Zhub River Basin

PUBLIC. This information is being disclosed to the public in accordance with ADB's Access to Information Policy. July-December 2022

1.3 Location of camps on sub-project sites



Exhibit 4: Ahmedzai Sub-project NCB 08 camp location

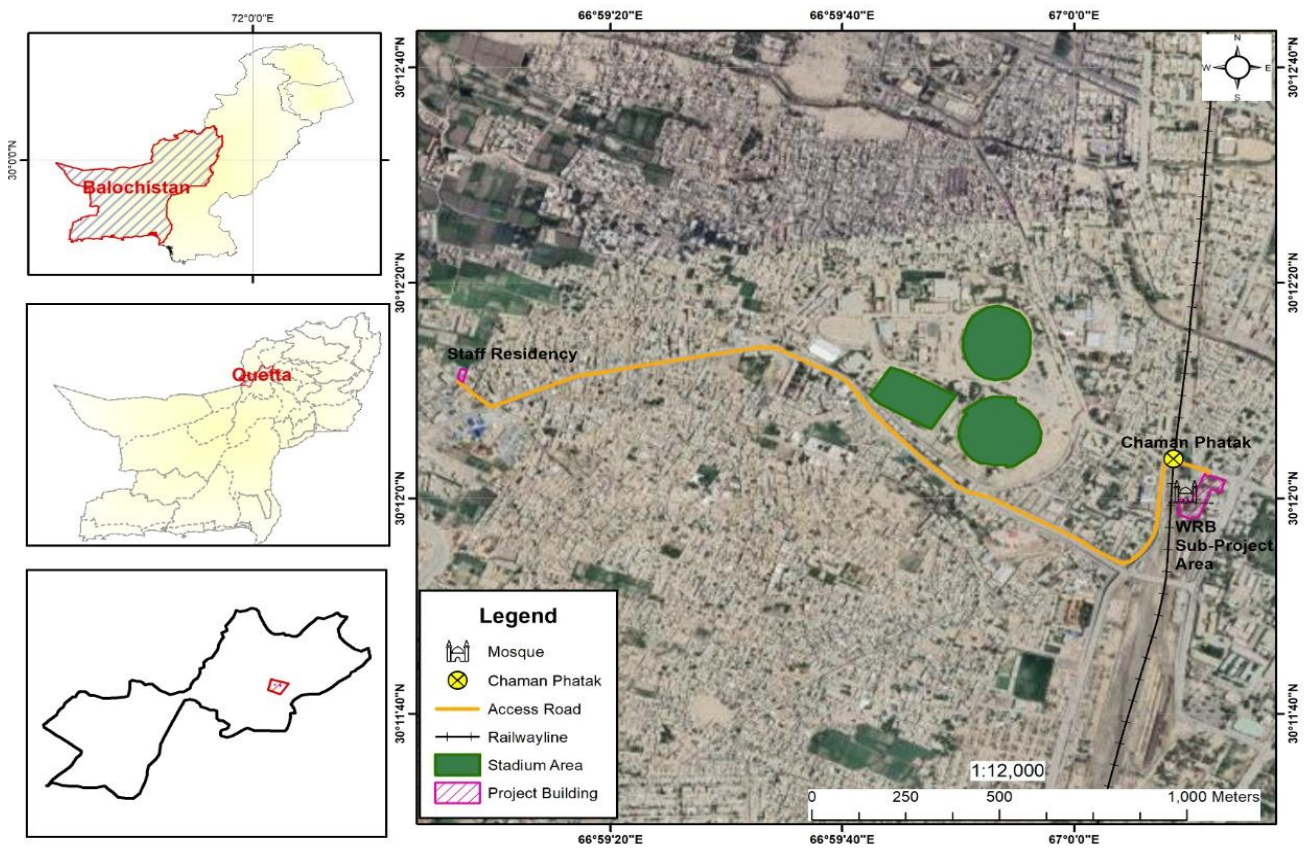


Exhibit 5: Water Resources Building sub- project NCB 05 Contractor staff Residency

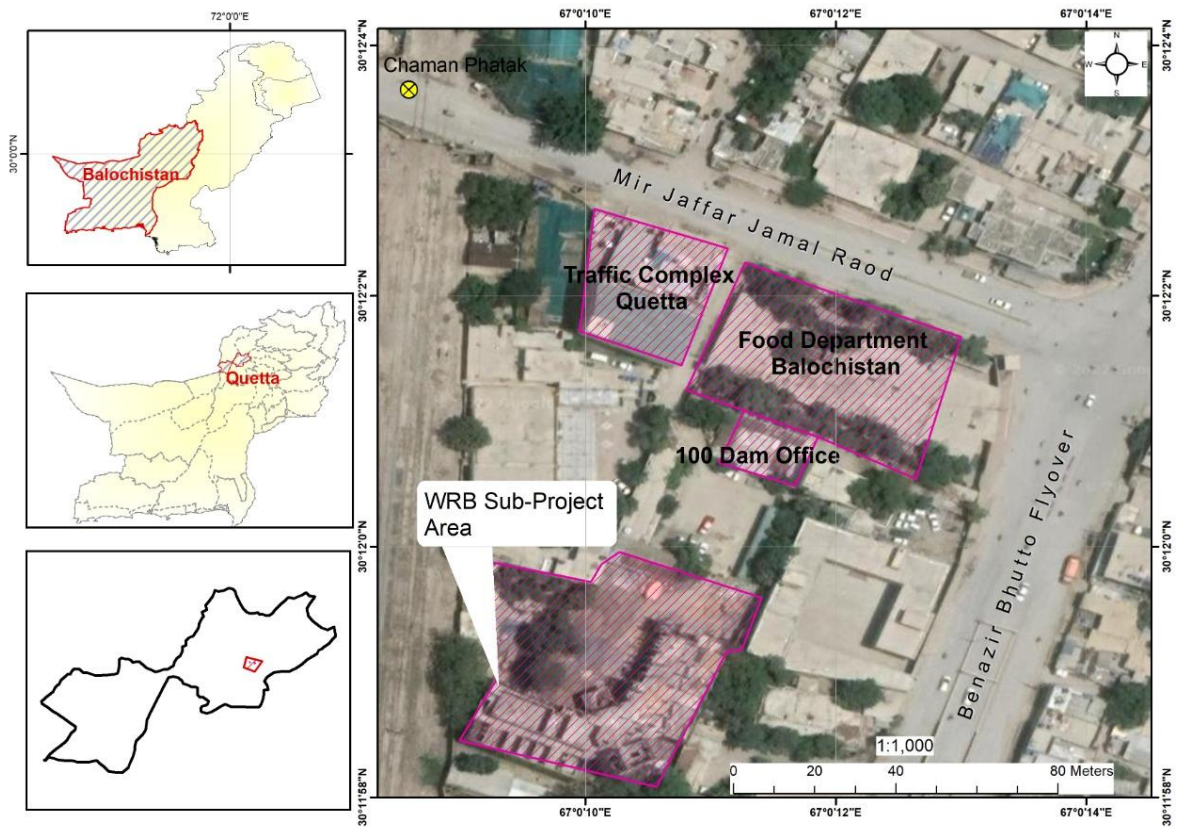


Exhibit 6: Proposed project location WRB sub-project NCB 05 Quetta

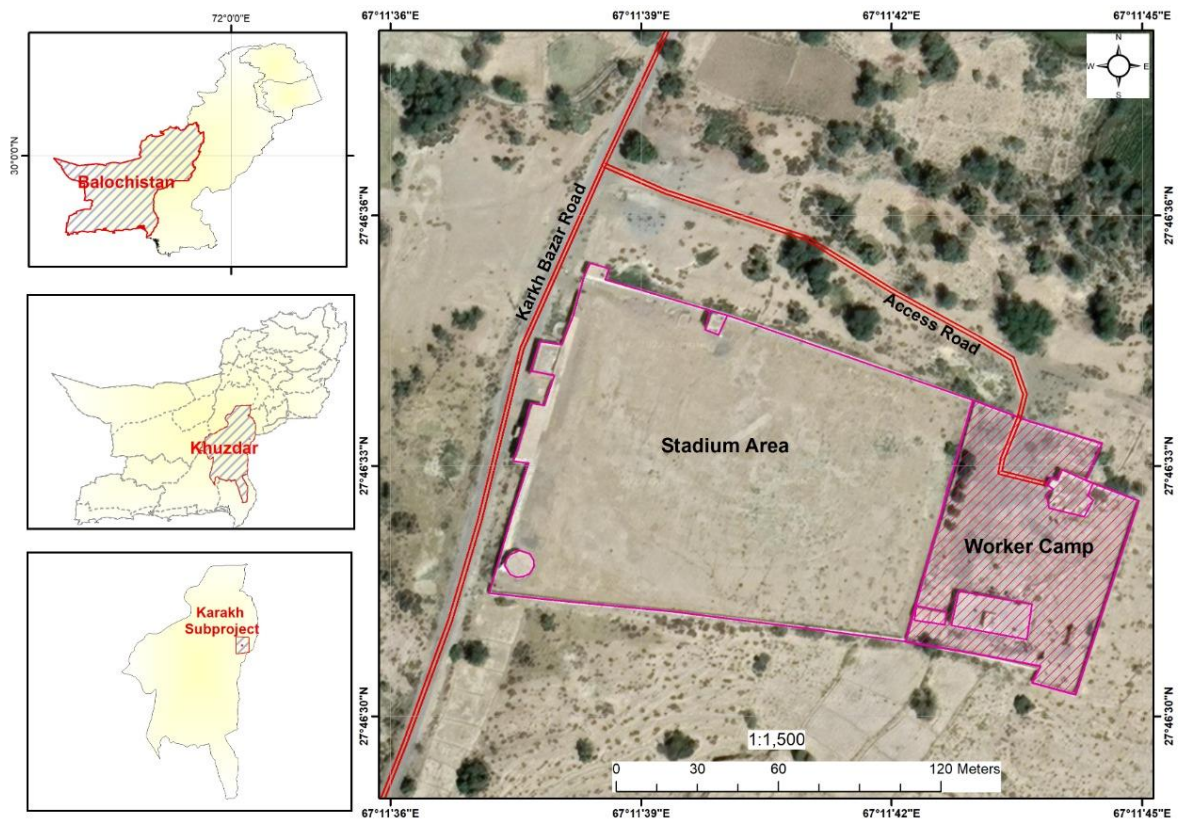


Exhibit 7: Karakh valley development sub-project NCB 01 location

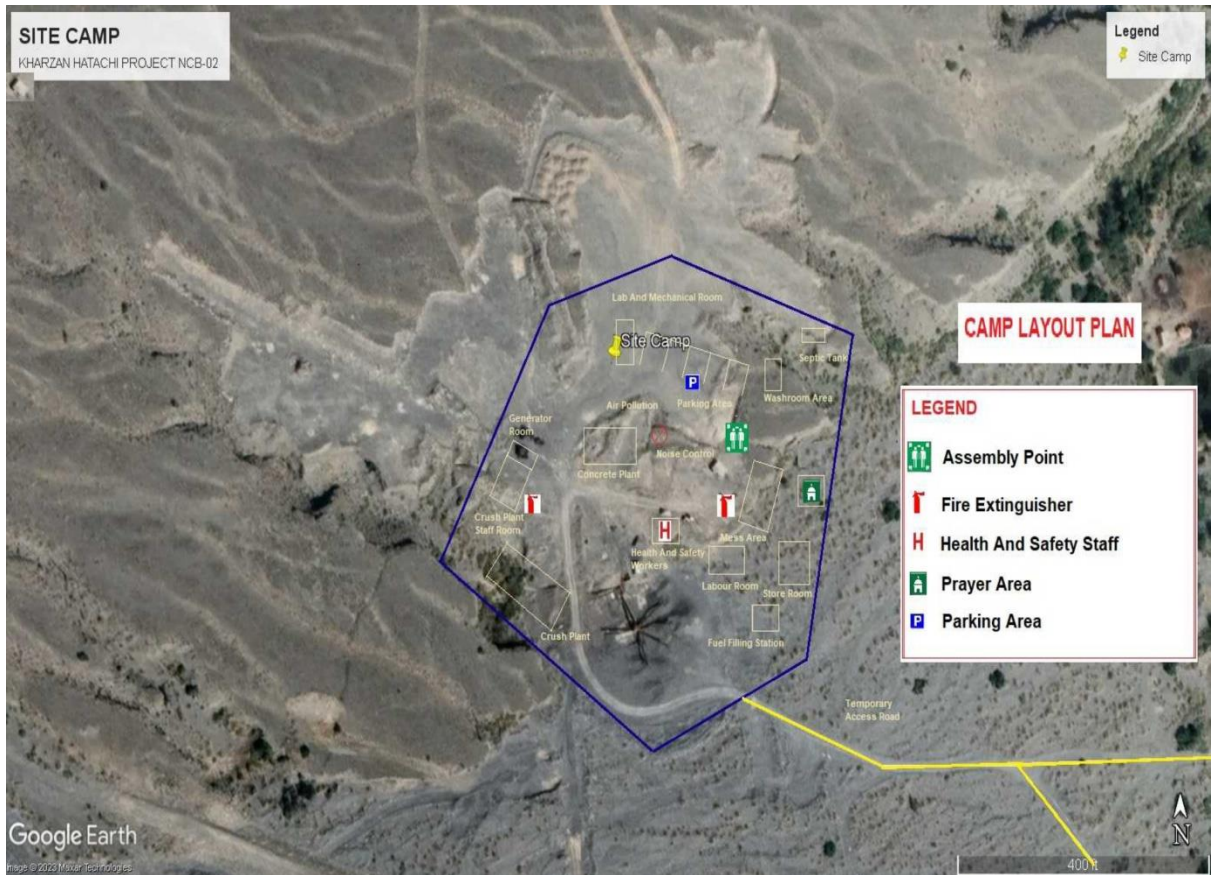


Exhibit 8: Kharzan Hatachi Infiltration Gallery sub-project NCB 02 location



Exhibit 9: Siri Toi Dam camp site sub-project ICB 01 location

2 PROJECT DESCRIPTION AND CURRENT ACTIVITIES

2.1 Project Description

17. 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.
 18. 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 subprojects 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.
 19. The project is aligned with the following impacts: Increased farm income in Balochistan and improved water resources management in Balochistan. The project will have the following outcome: agriculture production in the project areas increased.
 20. 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.
- I. Output 1: Irrigation Infrastructure and watershed protection constructed and/or rehabilitated:** The output will construct, upgrade, or rehabilitate (i) Siri Toi Dam with storage of 30 million cubic meters including a spillway and a water intake; (ii) weirs and infiltration galleries; (iii) about 276 kilometers of irrigation network, including head works, off-takes, aqueducts, culverts, sluice gates, guide bunds, drop/fall facilities, washing structures, transition chambers, and livestock drinking facilities; and (iv) flood protection

works to reduce flood risks to irrigation canals and command area. About 4,145 ha of watersheds is expected to be protected from water erosion as a result of these activities.

- II. **Output 2: Command Area established and/or Improved:** This output will support: Command area development: About 11,603 ha land improved to maximize benefits from the irrigation investments (a) construction and rehabilitation of secondary and tertiary canals in schemes identified for improvement under the output 1; (b) construction of lined watercourses; (c) improvement on-farm water management and agronomic techniques, such as land leveling and irrigation scheduling; (c) Kacha track/access road; (d) rain water harvesting and storage facilities; (e) provision of farm machinery; and (f) farming training for sustainable farming. This output is expected to achieve following targets i) About 11,603 ha land improved and served by rehabilitated irrigation and Khushkaba infrastructure. About 5,989 ha land developed under new irrigation infrastructure. About 130 ha of high value agriculture piloted drip irrigation system through JFPR grant. At least 22 women-led small-scale income generating agri-business launched.
- III. **Output 3: Institutional capacity strengthened:** Water resources information system (WRIS) established and operational through technical Assistance. This output aims to achieve the following targets; High level technology hydro-meteorological equipment used in the field validation of satellite based WRIS data for monitoring of water resources in 3 river basins under Grant Project. At least 40 trained staff from ID, ACD and PMO/PIO, of which at least 30% are women, increased their project management and implementation skills. At least 750 trained farmers increased their knowledge and skills on efficient use of water and value added farming; and at least 250 women trained for income-generating high-value agri-businesses. Pilot of about 130 ha high value agriculture in the project area: Infrastructure, such as 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 vegeExhibits, and construction of at least 22 women-led small-scale income generating agri-businesses for livestock, strengthening of high-value farming technology to contribute increasing agricultural production. Production: strengthening of high value farming technology to contribute increasing agricultural production through demonstration of technology on at least 130 ha in 160 farms will be brought under high-value farming of fruits and vegeExhibits and guidelines on efficient use of water and agriculture inputs. Community capacity of high-value agriculture including provision of training for efficient use of water and value-added farming enhanced.

2.2 Project Contracts and Management

21. The GOB, through its Irrigation Department, is the executing agency, and the Agriculture and Cooperatives Department (ACD) is the implementing agency, are wholly responsible for the Project implementation, as agreed jointly between the borrower and ADB, and in accordance with the policies and procedures of the government and ADB. The Project Management Office has been established in Quetta for overall project implementation and coordination.
22. The environmental management teams for this project and their respective roles are as provided below as Exhibit 10.

Exhibit 10: Key Project stakeholders and their contacts

Organization	Discipline/ Designation	Deployed Team	Location	Contact no	Email Id
PMO	Project Director	Muhammad Sufyan Durrani	Quetta	0333-5172464	pd.bwrdsp@gmail.com
	Deputy Project Director (MRB)	Mr. Nadeem	Khuzdar	0333-4198491	
	Deputy Project Director (ZRB)	Mr. Abu Bakar	Zhob	0333-7872140	
PIO	Deputy Project Director	Asif Mastooi	Quetta	0333-3122310	pio.bwrdsp@gmail.com
ADB	Environment Specialist	Syed Asim Ali Sabzwari	Islamabad	(+632) 632-6757	asabzwari@adb.org
ADB	Environment Specialist (Consultant)	Abdul Basit Khan	Islamabad	0333-3427609	abkhan.consultant@adb.org
NESPAK/ RHC	Team Leader	Habib Ullah Bhutto	Quetta	0334-8665251	bwrdsp@gmail.com
NESPAK/ RHC	Environment Specialist	Dr Akhtar Iqbal	Lahore	0300-8381968	enviro@rehmanhabib.com
	Environment Specialist	Sibghat Ullah Khan	Quetta	0331-9017601	sibghat.envir86@gmail.com
Siri Toi Dam (ICB 01)	(Environment Specialist)	Allah Dino	Karachi	0334-1271590	
Contractor (WRB)	HSE	Jameel Khan	Quetta	0333-5335002	
Contractor (Ahmedzai)	HSE Supervisor	Abdullah Khan	Ahmedzai Zhob	0334-9278908	AbdullahHKD95@gmail.com
Contractor (Karakh)	HSE Supervisor	Shah Meer Ahmed	Karakh (Khuzdar)	0333-0395887	
Contractor	Environmental ist	Shehzad Channa	Khuzdar	0333-7770410	

23. The GoB, through the Irrigation Department, is the executing agency of the project and the Agriculture and Cooperatives Department (ACD) is the implementing agency, with

active support from relevant departments (Forestry and Wild Life, and Livestock and Dairy). A project management office (PMO) has been established in Quetta for overall project implementation and coordination. The PMO, led by a Project Director, have direct responsibility for Output 1 and Output 3. A project implementation office (PIO) has been established in the ACD to implement the Output 2. For Output 1, the PMO has been supported by Deputy Director Irrigation in Zhob and Khuzdar districts, and by District Forest Officers and their staff in Zhob and Khuzdar districts (for implementation of watershed protection measures). For Output 2, the PIO has been supported by Deputy Directors on farm water management and their staff in Zhob and Khuzdar districts. Output 3 will be implemented by the PMO with support from the PIO.

24. The BWRDSP Consultants are tasked with specific responsibility to assist PMO in ensuring safeguard compliance of civil works – with particular emphasis on the monitoring of implementation of EMP through the Contractors SSEMP and related aspects of the project.

2.3 Project Activities during Current Reporting Period

25. Brief description of works performed by the Contractors during the reporting period is provided in Exhibit 11, 12 and 13 below.

Exhibit 11: NCB-08 Ahmedzai Subproject Contractors works Progress

Sr. No	Activity	Status
A. Weir		
1.	Weir Structure	100% completed
B. Perennial Channel		
1.	Stone masonry side wall	95 % completed
C. Flood Channel		
1.	Earth work (excavation, filling)	95% completed
2.	Stone masonry side wall	95 % completed

Exhibit 12: NCB-05 Water Resources Building Contractors works Progress

Sr. No	Activity	Status
1.	Excavation	100% completed
2.	Anti-termite	100% completed
3.	Lean concrete	100% completed
4.	Raft foundation	100% completed
5.	Backfilling	100% completed
6.	Plinth steel	100% completed

7.	Plinth concrete	40% completed
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**Exhibit 13: NCB-01 Karakh Valley Development sub-project Mula River Basin
Contractor works progress**

Sr. No	Sub-project Name	Earthwork/excavation status
1.	Wanderi	80% completed
2.	Chotta	90% completed
3.	Kadri	75% completed
4.	Jhalaro	65% completed
5.	Acherwand	65% completed
6.	Sinjori	40% completed
7.	Norwah	30% completed
8.	Bund 2	15% completed
9.	Bund 6	100% completed
10.	Bund 7	100% completed
11.	Bund 8	100% completed

Exhibit 14: ICB-01 Siri Toi Dam Subproject

Contractors works Progress

Sr. No	Activity	Status
1.	Excavation of dyke on Dam site	100% completed
2.	Camp Establishment	95 % completed

26. Activities carried out by consultant during the monitoring period are provided in Exhibit 15.

**Exhibit 15: Environmental Safeguards Activities Carried out During Reporting Period
(July - Decemer 2022)**

Environmental Safeguard Activities	Dates
<ul style="list-style-type: none"> ▪ Review of Cost Estimates for EMP implementation; ▪ Training of Contractor staff regarding onsite EMP implementation ▪ Supervised and assisted during the SSEMP preparation by the contractor; ▪ Regularly corrdinated with engineers regarding updates on the project design and works; ▪ Site inspections and guiding Contractor's personnel to contantly use PPE's and improving hygienic conditions at campAssisted contractor's environmental, health and safety personnel for proper implementation of environmental mitigation measures; 	<p>Dec 2022 Quarterly</p> <p>10th Dec 2022</p> <p>Daily</p> <p>Daily</p>

<ul style="list-style-type: none"> ▪ Guided Contractor HSE staff regarding preparation of Contractor's Environmental Monthly Report; 	Daily Monthly
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- Projects manpower, equipment's, materials:

27. Details of manpower Technical/skilled/ unskilled staff has been given in Exhibit 16.

Exhibit 16- Manpower Technical/skilled/ unskilled staff details

Designation	Ahmedzai subproject	Water Resources Building, Quetta	Karakh Valley sub-project	Kharzan Hatachi Infiltration Gallery	Siri Toi Dam
Project Manager	1	1	1	1	1
Chief Surveyor/Quantity Surveyor	1	1	1	1	1
Surveyor	3	1	4	2	3
Surveyor Helper	6	1	4	6	3
General Forman	3	1	2	3	2
Material Engineer	1	1	1	1	1
Lab Technician	2	1	1	1	1
Lab Helper	3	1	1	2	1
AutoCAD Operator	1	2	1	1	2
Accountant	1	1	1	1	1
Storekeeper	2	1	1	1	1
Procurement Officer	1	1	1	1	1
Supervisor	2	1	4	1	1
Mechanic	3	1	1	2	2
Auto Electrician	1	1	1	1	1
Batching Plant Operator	1	-	2	1	1
Batching Plant Helper	2	-	1	1	1
Crush Plant Operator	1	-	1	1	1
Crush Plant Helper	2	-	1	2	2
Heavy Machinery Operator	36	12	26	36	46
Heavy Machinery Helper	10	6	17	10	18
Diesel Store	1	1	1	1	1
Security Guard	3	2	5	3	4

Cook	2	1	2	2	2
Cook Helper	1	2	1	1	3
Labor	45	50	27	21	48
Mason	10	10			12
Steel fixer	8	5			5
Total	153	105	109	105	166

28. Details of machinery/equipment's of sites has been given in Exhibit 17.

Exhibit 17- List of Machinery/Equipment's

Name of Machine	Ahmedzai subproject NCB 08	Water Resources Building, Quetta NCB 05	Karakh Valley sub-project NCB 01	Kharzan Hatachi Infiltration Gallery	Siri Toi Dam
Excavator	7	2	3	3	11
Roller	3	1	6	3	3
Grader	3	1	3	2	1
Loader	2	1	2	1	3
Dozer				1	
Transit Mixer	3	2	2		2
Dumper	5	2	10	5	7
Tractor 240	3	1			2
Tractor 385	5				2
Tractor Trolley	8	1	9		4
Pickup	4	1		3	3
Generator	4	1	1 (Heavy)	3	5
Water Bowser	1	1	5	2	2
Batching Plant	1	-	1	1	1
Crush Plant	1	-		1	1
Diesel Tank	2	1	1		5
Tractor with Blade	-	-	1		
Mechanical Hand Mixture Machine	-	-	1		
Water Pump for dewatering	-	-	1		
Jack Hammer	-	-	1		
Light Travelling Vehicle	-	-	6		

Welding Plants	-	-	1		
Motor Cycle	-	-	8		
Low Bed	-	-		1	
Steel Machine	1	1			7
Toyota Car (Surf)	1	-			2
Total	54	16	62	26	61

Exhibit: 18- Detail of material and sources of Ahmedzai sub-project NCB 08 are as under

Sr. No.	Name of Material	Source of Material	Quantities Used
1	Cement	Fauji Cement Ltd, Mapple Leaf	78000 bags
2	Steel	Agha Steel Pvt Ltd Karachi	622 tonne
3	Earth work/fill	Borrow Material from site	160000 cu.m

- Facilities like camp site arrangements, borrow area, disposal areas etc.,

29. The campsite of Ahmedzai sub-project is located on nearby existing weir. Camp include worksite facilities that can house between 100 and 200 workers, with an average permanent staffing of 55 workers on site, including professional and technical personnel, workers, drivers, and operators associated to canteen tasks.
30. The construction camp has following facilities for labors working hands:
- Constant supply and accessibility of safe drinking water.
 - Living Accommodations/Shelter.
 - Sanitary and toilet facilities.
 - Washing facilities.
 - Kitchen/mess
 - Laboratory for material testing
31. For the construction activities borrow areas have been selected for the extraction of materials, which were already approved by the Engineers. Borrow Area Management Plan has been prepared by contractor that pertains to the measures which is incorporated during identification of borrow area location, material extraction and rehabilitation.

32. Water Resources Building, Quetta site is located at very congested place in the city. Contractor has three rooms along site for labour accommodation. Water dispenser is available to provide safe drinking water. Toilet facilities are present at site.
33. Plinth concrete activity is in progress at WRB, Quetta. Detail of material and sources of BWR Building NCB 05 sub-project are as under,

Exhibit: 18- Detail of material and sources of WRB NCB 05 are as under

Sr. No.	Name of Material	Source of Material	Quantities Used
1	Cement	Lucky Cement & DG Cement	38000 Bags
2	Steel	Agha Steel Pvt Ltd Karachi	600 Tons
3	Earth work/back filling	Yarro Sand	90000 CFT
4	Aggregate	Aggregate	882000 CFT
5	Sand Concrete	Yarro Sand	60200 CFT
6	Bricks	SPL & NSR Bricks Company	459000 No.s
7	Plaster Sand	Yaro Sand	550 Sekra

34. The main campsite of Karakh sub-project is located on Khuzdar Road while temporary camp site is located nearby sub-project site on Karakh village road. Camp include worksite facilities that can house between 100 and 200 workers, with an average permanent staffing of 35 workers on site, including professional and technical personnel, workers, drivers, and operators associated to canteen tasks.

Exhibit: 19- Detail of material and sources of Karakh Valley Development sub-project NCB 01 are as under

Sr. No.	Name of Material	Source of Material	Quantities Used
1	Cement	Power D.G Lucky	50700 bags
2	Steel	Faizan Amberley	179990 Kg
3	Earth work	Borrow Material from site	Record awaited
4	Crush	Karkh	
5	Sand	Wadh	
6	Aggregate	Karkh River	

35. The Contractor campsite of Kharzan Hatachi Infiltration Gallery sub-project is located in Union Council Abad, Tehsil Mula, District Khuzdar. Contractor has established two camps, one for the residence of staff and second for labor residence. Basic facilities are being provided by contractor on camp sites. Staff has been hired to look after each and every activity as per required. Good housekeeping is maintained at camp site properly by camp incharge.

Exhibit: 20- Detail of material and sources of Kharzan Hatachi Infiltration Gallery sub-project NCB 02 are as under

Sr. No.	Name of Material	Source of Material	Quantities Used
1	Cement	-	-
2	Steel	-	-
3	Earth work	Borrow Material from site	52142

36. The location of Siri Toi Dam camp is far away from the local community/settlement so. The total area of the leased land is 20 Acres (Est.). Construction camp consists of consultant and contractor offices, consultant and contractor staff residency, labor accommodation, mess for staff and labor, residency of FC, Masjid. Contractor staff. Camp include worksite facilities that can house between 100 and 200 workers, with an average permanent staffing and workers on site.

Exhibit: 21- Detail of material and sources of Siri Toi Dam subproject ICB 01 are as under

Sr. No.	Name of Material	Source of Material	Quantities Used
1	Cement	D.G Lucky, Lucky cement, Fauji cement, Mapple leaf cement	50700 bags
2	Steel	Agha steel, Faizan steel, Naveena steel	179990 Kg
3	Earth work and excavation	Borrow Material areas	3200000 cu.m
4	Crush aggregates	As per approved sources nearby site	56640 Tons
5	Sand		93360 Tons

2.4 Description of Any Changes to Project Design

37. No change to project design has taken place during the reporting period of this report.

2.5 Description of Any Changes to Agreed Construction methods

38. No change in the construction methodology has taken place during the reporting period of this report with the initially developed method statements still applicable.

3 ENVIRONMENTAL SAFEGUARD ACTIVITIES

3.1 General Description of Environmental Safeguard Activities

39. During the reporting period, BWRDSP consultants carried out environmental compliance monitoring of sub-projects NCB 01, NCB-05, NCB-08, NCB-02 and ICB-01. The field visits were carried out by SC Environmental Specialist along with contractor Environmental Engineer. Environmental Safeguard staff of all contractors was on site. The Contractor's environmental team performed the day-to-day inspection on the construction sites and implemented measures per EMP.

3.2 Site Inspection

40. Site inspections of the sub-projects are being performed in order to comply with the EMP provisions requirements with the Contractor being immediately directed to resolve any non-compliance identified during the site inspections.

3.3 Issues Tracking (Based on Non-Conformance Notices)

41. During the reporting period the BWRDSP Consultants noted that under Sub-Project NCB-08, NCB-05, NCB-01, NCB-02 and ICB 01 contractor is working for the improvement of environmental compliance identified during the site visits.

42. As non-compliances were related to wearing full set of PPE's , regular cleaning of the site, installation of proper warning and information signs and other issues. BWRDSP Contractor was asked to introduce corresponding corrective measures. However, the BWRDSP Consultants warned the Contractor that the Non-Conformance Notices will be issued, if the Contractor will not follow the BWRDSP Consultants recommendations, EMP and SSEMP.

43. Consultant issued non-compliance notices to sub-project contractors for not carrying out quarterly basis instrumental monitoring. As part of the contract, it is mandatory to perform quarterly basis instrumental monitoring reports (Non-compliance notices annexure I).

44. Subproject Environmental Staff uses daily, weekly and monthly environmental monitoring checklists to assess various environmental parameters enabling Environmental staff take any corrective action for any non-conformance observed (see Annexure II,III,IV,V,VI & VII containing checklists as example). The checklists provide quick oversight to environmental parameters including; soil conditions/contamination, fuel/oils usage and spills, waste materials generation and disposal, traffic

management, borrow areas management, drainage, diesel generator, emergency response, camp management, use of PPEs, septic tanks, vehicle movement, worker's training, safety signs, vegetation, tree cutting, labor hiring, etc. The parameters have been adequately addressed in the checklists and their monitoring is conducted on regular intervals. Based on these checklists, Contractor staff develops reports on level of compliance to EMP measures.

45. The BWRDSP Consultants environmental team had discussed with the Contractor's team the revealed findings during physical presence on the site or over phone conversation to identify the best corrective measures.

3.4 Trends

46. With review of compliance to non-conformances and to the CAP provided in the previous SAEMR, it has been observed that sub-projects of BWRDSP are progressing and improving its compliance to environmental requirements in accordance with their respective EMP's. Sub-project have invested a lot in environmental compliance through staffing and provision of facilities for environmental management.
47. As per previous CAP record, Fire extinguishers are still not available on sites. Contractor are informed to provide fire extinguishers in camp site or non-conformance notices will be issued.

3.5 Unanticipated Environmental Impacts or Risks

48. No new environmental impact or risk identified during this reporting period.

3.6 Grievance Redressal Mechanism (GRM)

49. Grievance Redressal Committee's has been formed. No grievance is received up till the reporting period at all project sites.

4 ENVIRONMENTAL MANAGEMENT

4.1 General

50. The Environmental Management Plan (EMP) is an integral part of the BWRDSP sub project's bidding documents and is broadly being followed by the contractor, while Environmental Specialist/HSE Advisor of the contractor's staff is regularly and strictly monitoring the overall compliance related to environmental and safety issues.
51. The overall Environmental and Social Performance is observed good/satisfactory, while efforts for continuous improvements are being carried out.

4.2 Site Specific Environmental Management Plan (SSEMP)

52. A Site-Specific Environmental Management Plan (SSEMP) minimizes adverse or negative impacts of construction activities on local communities and the natural environment, to reduce the induced impacts of construction activities; to prevent pollution and ensure that construction activities are planned & there will be no risk to the environment.
53. SSEMP also provides an approach for managing and monitoring environment and social related issues and provides a mechanism to address the adverse environmental impacts of a project during its construction, to accelerate project benefits and describes the institutional framework and resource allocations proposed by the PMO to implement the SSEMP.
54. Site Specific Environmental Management Plan details of sub-projects are given below,
- NCB 08 conditionally approved by ADB.
 - NCB 05 is approved by ADB on 27th February 2022.
 - NCB 01 SSEMP submitted to client office on 30th december 2022 for further process.
 - NCB 02 submitted to client office for further process on 16/05/2022.
 - ICB 01 is approved by ADB on 9th December 2022.

4.2.1 Emergency Response Arrangements:

55. Emergency response plan were comprised of the following mandatory work plans as per requirement of approved EMP/SSEMP and being implemented.
- Health, Safety and Environment Plan
 - Risk Assessment Plan
 - Construction Safety Plan
 - Emergency Preparedness Response Plan

56. Emergency response procedure and contact details were displayed at the sub-project sites, to whom may be contacted in the event of fire as elaborated hereof: -

- Site Supervisor
- Environmental Engineer
- Fire Brigade
- Nearby Doctor
- Nearby Hospital

57. Emergency Response Plan (ERP) has been elaborated in plain words subsequently all prone areas/dangerous spots will be monitored on daily basis. Monitoring safety observation cards will be produced for inspection. If any unsafe act/unsafe condition observed in the project will be mitigated.

4.2.2 Waste Management Plan

58. The Waste Management Plan (WMP) includes; collection, storage, transportation and disposal of the generated waste in environmentally safe manner. The WMP is designed for the active construction sites and camp sites. The workers are trained to implement WMP at the camp(s) and construction sites. Following are the important features:

- Waste segregation at source.
- Reusable and recycled material (cardboard, packing material, Bottles, cans, empty bags, drums) is re-used whereas rest is sold in the market.
- Transportation of solid waste as per SOPs.

59. The following section provides the details of major types of waste materials that have been produced from project activities are mainly kitchen/domestic waste and construction waste and is being managed as follows.

4.2.3 Current Period

I. Ahmedzai Subproject

60. For proper general/domestic waste management, project area has a temporarily designated waste area where waste is collected. Moreover, garbage cans/drums are placed in all areas for primary collection of waste on daily basis to transfer on secondary/temporarily designated waste area then it is transported to nearby dumping point. Construction waste including wire cutters, plastic and paper, etc is generated at the site which is recycled and reused in second market. The waste generated from cutting of earth is reused to strengthen the walkways or back filling, where possible.

61. All hazardous waste from waste collection drums are being transported to disposal sites in a vehicle. All the waste from residential areas, office area and construction site is being transported by any vehicle available etc. tractor trolley or any vehicle with open rear side. However, the Contractor has no contract with local solid waste company.

II. Water Resources Building

62. There is no workshop area, washing yard and batching plant at project site. So, no bulk waste produced from this site. Solid Waste burning at work is prohibited. Waste material is disposed in waste yard in a safe condition, without blocking access for other users and people.

a. Kitchen and General/Domestic Waste

63. This type of waste has been generated from the construction site and offices of the project. The solid waste produced at site is being collected into waste bins and transported to nearby Municipal collection point.

b. Hazardous Waste – Medical Waste and Oily Waste

64. Medical waste is generated from the site first aid facilities, whereas oily empty drums are generated from the construction activities. Medical waste generated from the project site is being collected at one designated location and sent to incinerator for safe disposal accordingly. As far as other hazardous waste are concerned, those are being transported to disposal sites in a vehicle. Moreover, hazardous waste like oily drums are kept at the project site to become completely dry and resold to third party junk dealers accordingly.

III. Karakh Valley Development Sub-project Mula River Basin

65. There is no any properly designated area selected by the contractor for waste material. The contractor was directed to transport all waste immediately from camp site as it creates nuisance.

a. Kitchen and General/Domestic Waste

66. This type of waste has been generated from all the camp site, offices and construction sites of the project. Dustbins are provided in offices and camp residency which are regularly monitored by contractor staff/sweeper and disposed-off at nearby area. The empty cement bags and associated items generated from construction activity and have been sold to local vendor accordingly.

b. Hazardous Waste – Medical Waste and Oily Waste

67. Medical waste is generated from the site first aid facilities, whereas oily empty drums are generated from the construction sites of the project. Medical waste generated from all the construction sites are collected and disposed-off in a ditch/landfill which is located away from the project site. Hazardous waste collected in drums are being transported to disposal sites in a vehicle. Moreover, hazardous waste like oily drums are kept in camp site to become completely dry and will be sold to third party junk dealers accordingly.

IV. Kharzan Hatachi Infiltration Gallery Sub-project Mula River Basin

a. Solid Waste Management:

68. Workers actions pertaining to waste management are found to be responsible and careful. The priority have always been to reduce the waste generated therefore the 3Rs (reduce, reuse and recycle) is observed as 2nd step of effective waste management following the 1st priority of preventing waste at the point source at the site. Most of the waste produced is bio degradable. The dust bins are provided for site use that are conveniently located. Due to the limited duty time and the low number of staff, the waste is produced in such a low quantity that it is transported to its designated area. This activity is done on regular basis to make sure that the small waste do not exceeds large amount so its management and impacts following the remedial actions become expensive and time consuming that can engage resource from useful work.

b. Housekeeping and Material Storage

69. Proper storage and stacking is promoted at work sites, the good housekeeping and properly stored material has the potential to reduce safety incidents by 70% roughly. It is due to this reason that housekeeping and material storage is done in a responsible way to protect workers from untoward safety events or any damage to the environment.

The following measures regarding house keeping are taken;

- All material, spoils, debris, etc. is cleaned-up to avoid accumulation at the end of each work shift.
- Accumulation of trash and debris are prevented by proper covering with polythene sheet and water sprinkles to suppress the mud.
- Access walkways, roadways are clear to avoid trips and fall.
- Dustbins are placed at appropriate locations.
- Good housekeeping is maintained at camp as well as on working site.

c. Hazardous waste

70. The waste with the characteristics of flammability, toxicity, reactivity and corrosivity is regarded as hazardous. There is no hazardous waste generated at the moment. However, the designated area has still been prepared for storage of any hazardous waste. This will be ensured that in case of hazardous waste generated, the soil or water contamination is prevented through its responsible storage and handling. In case the hazardous waste is generated, its storage will take the careful consideration of the safe distance of nearly 100m (as practically applicable) from the surface water for its handling and storage.

V. Siri Toi Dam Sub-project Zhob River Basin

The construction activities have been started after approval of SSEMP approval on 9th December 2022. Camp establishment is under process. The contractor staff is assisted to mark the designated area for solid waste management. Signboards were observed during the reporting period (Annexure XI).Exhibit: 22- Solid Waste generated at subproject sites are as under

Sr. #	Name of Sub-Project	Solid Waste generated in Kilograms/day	Types of Waste	Remarks
1	Ahmadzai NCB 08	2 Kg/day	Plastic, Polythene bags	Solid waste is preferable reused, recycled and disposed off at designated dumping site.
		4 Kg/day	Kitchen waste/Organic waste	
		1 Kg/day	Solid Waste	
2	Water Resources Building WRB NCB 05	1 Kg/day	Plastic waste/polythene bags	-do-
		10 Kg/day	Solid waste (Steel wastes, bottle, cans, cement bags)	
		2 Kg/day	Kitchen waste/organic waste	
3	Karakh Valley Development NCB 01	2 Kg/day	Plastic, polythene bags	There is no properly designated area selected by the contractor for collection and disposal of waste generated on site.
		7 Kg/day	Kitchen waste/organic waste	
		10 Kg/day	Solid waste including cement bags	
4	Kharzan Hatachi Infiltration Gallery NCB 02	1 Kg/day	Plastic waste	Solid waste is preferable reused, recycled and disposed off at designated dumping site.
		5 Kg/day	Solid waste including wood ply	
		1 Kg/day	Kitchen waste	
5	Siri Toi Dam ICB 01	1.2 Kg/day	Plastic, polythene bags	-do-
		2 Kg/day	Solid waste/ cans etc	
		1 Kg/day	Kitchen waste/ Organic waste	

4.2.4 Traffic Management & Diversion Plan (TMP)

71. Pursuant to the EMP and SSEMP, all sub-project sites are located in the remote areas. For smooth flow of traffic during the execution of construction works and partial /full closure of road for safety of transporters, road users, assets and general public, for which the Contractor is committed to deliver the following during the reporting period:

- To ensure that vehicular movement will not cause any adverse impacts.
- To ensure that vehicular movement will not result into disturbances for the local community residing in the vicinity of the project as far as possible.
- To ensure the site activities as per guidelines of TMP and all regulatory requirements.
- Flagmen/signboards were observed near diversions.

4.3 Trainings

4.3.1 Training Imparted by the Contractors

72. A good working relationship is being maintained among the Contractor and the Consultants' environmental staff. Trainings and awareness campaigns are being conducted at the Contractor's Camp and Work Sites with regular intervals to raise awareness about worker's safety. 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 prepared to respond to any kind of emergency situation. **(Annuxure VIII-X).**

Exhibit: 23- Training details on subproject sites are as under

Sr. #	Name of Sub-Project	Training Details	Date
1	Ahmadzai NCB 08	Importance of PPE's	18-9-2022
2	Water Resources Building WRB NCB 05	Electrical safety and mandatory PPE's	7-12-2022
3	Karakh Valley Development NCB 01	Awareness regarding importance of safety during work	7-11-2022
4	Kharzan Hatachi Infiltration Gallery NCB 02	Housekeeping on site	6-12-2022
5	Siri Toi Dam ICB 01	Importance of PPE's	8-12-2022

73. Toolbox talks are conducted by the HSE Supervisor / Officer on daily basis for a site - specific scope of work. Toolbox talks are also conducted when there is change in season, to make workers well aware about the various infectious and viral diseases. Toolbox talk topics will be repeated periodically as per change in work force at site or change in scope of work at site.

5 RESULTS OF ENVIRONMENTAL MONITORING

5.1 Overview of Monitoring Conducted during Current Period

74. Overview of environmental monitoring conducted during July-December 2022 is as under.

5.1.1 Air Quality

75. Potential sources of air pollution during construction were the kick-off dust, and the movement of dumper trucks transporting construction related material, excavation activities at borrow area/camp site.

76. Visual observations were noted to monitor regular water sprinkling at dust prone areas during the construction activities. However, some violations were observed and the concerned contractors were advised to take care to control the dust emissions. Use of natural gas i.e. LPG as fuel in kitchen was recommended to avoid use of wood and release of smoke. The consultant environment specialist informed the contractor that the dust should be reduced to maximum possible level through sprinkling of water on unpaved roads, stockpiles and covering trucks carrying sand with tarpaulin. SC Environmental Specialist assisted the Contractor to carry out onsite ambient air quality monitoring through certified laboratory. Contractor vehicles and construction equipments may comply with NEQS level.

5.1.2 Noise and Vibration

77. During SC visits to the sub-project sites, no significant non-compliance issues regarding high noise levels were observed. No complaints from workers and public were registered during this reporting period. The Contractor was advised to provide workers with proper safety equipment's e.g. ear plugs and ear muffs on need basis during working hours to avoid any harm to their hearing ability.

78. Implementation of the mitigation measures recommended in EMP to reduce the impact of Noise and Vibration were observed. Construction activities situated close to populated areas were limited to daylight hours only to minimize the impact of noise. Prayer timings were observed specially in the areas close to the mosques along the carriageway during the construction activities to keep noise level at minimum. Camp sites were established away from the residential areas. Contractors were advised to keep their earth moving equipment's in good condition and to provide personal protective equipment's like ear-plugs to the working staff at noise generating sites. No

noise and vibration related complaints from public or workers were registered during the reporting period.

79. Special field visits were carried out in order to assess the effectiveness of the protective equipment's used by the contractor for the workers. The safety signs and signage have not been arranged properly by the contractors in order to warn people about the high intensity or level of noise being generated by the machinery. During consultant team visits contractors were assisted to re-install signboards inside and outside the camp site.

5.1.3 Surface Water and Ground Water

80. Construction activities have the potential to cause damage to surface water resources at Ahmedzai, Karakh sub-project, Kharzan Hatachi and Siri Toi Dam. It was ensured that construction activities near any water bodies should not contaminate the surface water sources. The implementation of the mitigation measures as per EMP were monitored and assessed in the field visit. No surface water or ground water contamination was reported due to oil spillages and solid waste dumping. Potable water was supplied to the workers working at the sites.

5.2 Trends

81. Instrumental monitoring of environmental parameters as per EMP was not carried out by the Contractors under Sub-Project NCB 01, NCB-05 and NCB-08 for which non-compliance notices was issued by the supervision consultant.

5.3 Summary of Monitoring Outcomes

82. Environmental monitoring was not conducted in this quarter due to insecure conditions. Contractors are directed to carryout instrumental monitoring of environmental parameters as per requirements of EMP immediately.

5.4 Material Resources Utilization

5.4.1 Current Period

83. Material resources utilization is necessary to meet the objectives of the project and to satisfy the client's requirements. The contractor's construction resources include:
- Materials
 - Construction plant, tools and equipment
 - Human Resources
 - Space and facilities

- Sub-contractor
- Finance

5.5 Waste Management

5.5.1 Cumulative Waste Generation

84. For all sub project sites, the Contractor was advised that organic waste should be disposed-off into waste pit. Construction waste like wire cutters, plastic and paper, etc. is generated at the site which is recycled and reused in second market. It was ensured that the Contractor's housekeeping staff is mobilized for the removal of solid waste. Currently, all wastes are segregated disposed of temporarily on designated sites, identified and demarked before construction. Such waste is then removed to be reused in second market on regular interval with the help of specified subcontractors, assigned by each contractor.

5.6 Health and Safety

5.6.1 Community Health and Safety

85. During the reporting period, Contractor took a number of initiatives towards the community health and safety.

a. Ahmedzai Sub-project NCB 08

86. During reporting period, the Contractor took utmost care for community health and safety. No incidents related to the community health and safety has been occurred during the current reporting period. The following measures were taken to ensure the safety of community:

87. The project site was cordoned-off, especially the areas where machinery is involved were barricaded and constantly monitored to ensure that local residents, particularly children stay away from construction area. Also, no machinery was left unattended, particularly in running condition. Drivers were provided orientation on safe driving practices to minimize accidents and to prevent spill of hazardous. Daily Tool Box Talk (TBT) is conducted by HSE Supervisor in the morning before starting any activity on the site. HSE Officer uses daily, weekly and monthly environmental monitoring checklists to assess various environmental parameters enabling Environmental staff take any corrective action for any non-conformance observed. **(Annexure II,III).**

b. Water Resources Building NCB 05

88. During reporting period, the Contractor took utmost care for community health and safety. Within this duration of the project no massive traffic activity has been initiated. Only material supply vehicles are being used at site for shifting of material. The project site is near offices buildings, no any heavy machinery is involved. No incidents related to the community health and safety has been occurred during the current reporting period. **(Annexure IX)**.

c. Karakh Valley Development Sub-project NCB 01

89. The unpaved service roads, used by the Contractor's vehicles, were regularly sprinkled to suppress dust and protect general commuters from the related impact and diseases.

To avoid noise disturbance at night, no construction activities were carried out at night time.

d. Kharzan Hatachi Infiltration Gallery Sub-project NCB 02

90. NCB 02 contractor has started working activities i.e Rising of Bund#3A, Bund#3B, Bund#3C and Bund#2 in October 2022. No incidents related to the community health and safety has been occurred or reported yet.

e. Siri Toi Dam Sub-project ICB 01

91. The contractor environmental specialist is assisted by the consultant team to provide adequate trainings to staff for caring community health and safety. Installation of signboards at designated spots, camp site may be barricaded and constantly monitored to ensure that local residents and domestic animals/livestock (cow, goats, sheeps & dogs) stay away from construction area. Moreover, no incidents related to the community health and safety occurred or reported.

5.6.2 Worker Safety and Health**a. Ahmedzai Subproject NCB 08**

92. The provision of adequate first aid facilities on priority basis was ensured. Construction activities have minor impacts including major/minor injuries and health issues of workers. Prior to starting the project engineering and administrative control measures were taken by the contractor. For example, Awareness of contractor needed to be created for instituting safety procedure during construction. Contractor has conducted trainings on safety issues with practical demonstration of response in case

of any emergency. Before start of the work, toolbox talks focusing on HSE related issues were regularly being held. Provision of Personal Protective Equipment's (PPE's) to the work force is considered the mandatory step in health and safety management system. Other safety measures to avoid exposure to accidents due to operation of construction, vehicle movements and machinery operations were to be ensured. However, the contractor have 4WD vehicles to deal with any kind of emergency. No significant incidents related to the workers' health and safety have been occurred during the current reporting period. **(Annexure XI, Section 1).**

b. Water Resources Building NCB 05

93. First aid medical facility is provided by contractor at site. Proper supervision and monitoring of excavation and compaction activities construction phase is carried out in compliance with the Health and Safety requirements as per standard specifications outlined in EMP and in the Contract. No incidents related to the workers' health and safety have been occurred during the current reporting period. **(Annexure XI, Section 2).**

c. Karakh Valley Development Sub-project NCB 01

94. For the construction workers, Contractor has conducted trainings on safety issues with practical demonstration of response in case of any emergency. Before start of the work, toolbox talks focusing on HSE related issues were regularly being held. . Facemasks were provided to all workers to protect them from COVID-19 related issues. Also, hand sanitizers were provided free of cost to all labours and officers working on the project. Availability of First Aid Box was ensured to provide medical assistance in case of any emergency. Contractor has ensured supply of clean drinking water to the workers, both at camp and at sites..Contractor's camp is equipped with all basic necessities like accommodation, dining halls, sanitation, etc. **(Annexure XI, Section 3).**No incidents related to the workers' health and safety has been occurred or reported yet.

d. Kharzan Hatachi Infiltration Gallery Sub-project NCB 02

95. First aid kit is mandatory to be provided by the contractor, which was ensured. Provision of Personal Protective Equipment's (PPE's) to the work force on site is ensured. Other safety measures to avoid exposure to accidents due to construction, vehicle movements and machinery operations were to be ensured. To deal with any kind of emergency 4WD vehicles are provided by the contractor. **(Annexure XI,**

Section 4). No incidents related to the workers' health and safety has been occurred or reported yet.

e. Siri Toi Dam Sub-project ICB 02

96. The provision of adequate First Aid kit, medical room, ambulance and medical technician was ensured during site visits. Construction activities in camp have minor impacts on safety and health of workers. Prior to starting the project engineering and administrative control measures were taken by the contractor. For example, provision of Personal Protective Equipment's (PPE's) to the work force is ensured on site.. Other safety measures to avoid exposure to accidents due to operation of construction, vehicle movements and machinery operations were to be ensured. However, the contractor have 4WD vehicles to deal with any kind of emergency. **(Annexure XI, Section 5).** No significant incidents related to the workers' health and safety have been occurred during the current reporting period.

5.7 Corrective Action Plans (CAPs):

97. Environment Specialist of PIC/SC had regularly carried out visits and monitored the project for implementation of EMP. Accordingly; CAPs were prepared for EMP non-compliances for sub-projects (construction of Water Resources Building and Ahmedzai Irrigation sub-project, Karakh valley development, Kharzan Hatachi and Siri Toi Dam). The details are provided in Exhibits below.

Exhibit 24- Karakh Valley Development Subproject Corrective Action Plan

Sr. No	Date	Raised By	Issues	Category	Corrective Action	Responsibility	Original Target Date	Updated Status Closed/open
1	July-December 2022	CSC	SSEMP is not approved	Major	Contractor shared revised SSEMP with client office for adb approval.	Contractor	30th December 2022	Still awaited/open
2			Use of PPE's including Helmets, gloves, safety vests not being ensured	Major	Application 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	30 th November 2021	Still awaited/open
3			No Fire Safety Equipment available in camp and at site.	Major	Fire Safety Equipment especially Fire Extinguishers should be available in Contractor camp and construction site.	Contractor	30 th November 2021	Still awaited/open
4			No Medical Health Facility available at contractor camp and at site	Major	First Aid kits should be available on sites and emergency first aid trainings should be conducted	Contractor	30 th November 2021	Still awaited/open
5			Improper Toilet facilities with unhygienic condition.	Moderate	Washrooms should be with sufficient facilities and hygienic condition	Contractor	30 th November 2021	Closed

6			Scarcity of Safety signs	Moderate	Proper safety signs should be installed by the contractor	Contractor	30 th November 2021	Still awaited/open
7			No Barricading of construction site	Major	Sites should be barricaded especially at borrow areas and areas where construction activities are being carried on	Contractor	30 th November 2021	Still awaited/open
8			Monthly HSE Progress Report are not being submitted that is required as per contract documents	Major	Monthly HSE reports should be submitted on regular basis	Contractor	After approved SSEMP	Closed
9			Daily/weekly Environmental checklists are not being filled.	Moderate	Daily/weekly Environmental checklist should be filled on regular basis	Contractor	30 th November 2021	Closed
10			Arrangement of waste disposal and management.	Major	Routinely	Contractor	30 th November 2021	Still awaited/open

Exhibit 25- Water Resources Building sub project -Corrective Action Plan (CAP)

	Date	Raised By	Location	Issues	Category*	Corrective Action	Responsibility	Original Target Date	Updated Status Closed/open
1	July-December 2022	CSC ¹	Water Resources Building, Quetta	SSEMP is submitted by contractor	Major	SSEMP is conditionally approved	Contractor	27 th February 2022	Closed
2				Scarcity of safety signs/warning tape	Moderate	Proper safety signs boards/warning tapes should be installed by the Contractor.	Contractor	15 th March 2022	Closed
3				Unhygienic Toilet condition	Moderate	Washrooms should be with sufficient facilities and hygienic condition	Contractor	15 th March 2022	Closed
4				Improper Toilet facilities and unhygienic condition	Moderate	Washrooms should be with sufficient facilities and hygienic condition	Contractor	15 th March 2022	Closed
5				Weekly Environmental Report/Checklist submitted	Moderate	Weekly Environmental Report/Checklist submission is maintained properly	Contractor	Timely submitted	Closed
6				Use of PPE's especially safety boots ensured	Major	Contractor should ensure use of PEE's especially safety boots by labor	Contractor	15 th March 2022	Closed

¹ Construction Supervision Consultants

Exhibit 26- Ahmedzai Irrigation Subproject Corrective Action Plan

Sr. No	Date	Raised By	Location	Issues	Category*	Corrective Action	Responsibility	Original Target Date	Updated Status Closed/open
1	July-December 2022	CSC	Ahmedzai Irrigation Subproject	SSEMP is submitted	Major	SSEMP is conditionally approved	Contractor	13 th July 2022	Closed
2				Scarcity of safety signs	Moderate	Proper safety signs should be installed by the Contractor	Contractor	31 st July 2022	Closed
3				Water Sprinkling	Moderate	Frequently water sprinkling on sites and within camp is greatly required	Contractor	Regularly	Closed
4				No Barricading of construction site	Major	Site should be barricaded especially at borrow areas and areas where construction activities are being carried on	Contractor	31 st July 2022	Still awaited/open
5				Weekly Environmental Report/Checklist	Moderate	Weekly Environmental Report/Checklist submission is maintained properly	Contractor HSE Supervisor	31 st July 2022	Closed
6				Use of PPE's especially safety boots ensured	Major	Contractor should ensure use of PEE's especially safety boots by labor	Contractor HSE Supervisor	31 st July 2022	Closed
7				Improper Toilet facilities and unhygienic conditions	Moderate	Washrooms should be with sufficient facilities and hygienic conditions	Contractor	31 st July 2022	Closed
8				Medical Health Facility available/First Aid Kits	Major	First Aid kits were available on sites and emergency trainings were conducted accordingly	Contractor HSE Supervisor	31 st July 2022	Closed
9				Environmental/HSE advisor has been hired	Major	Environmental/HSE advisor has been hired for monitoring Environmental Compliance	Contractor	March 2022	Closed

10			Arrangement of waste disposal and management.	Major	Routinely	Contractor	31 st December 2022	Still awaited/open
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Exhibit 27- Kharzan Hatachi Infiltration Gallery subproject Corrective Action Plan

Sr. No	Date	Raised By	Location	Issues	Category*	Corrective Action	Responsibility	Original Target Date	Updated Status Closed/open
1	July-December 2022	CSC	Kharzan Hatachi Infiltration Gallery Subproject	SSEMP is submitted	Major	SSEMP submitted for ADB review	Contractor	16 th May 2022	Open
2				Scarcity of safety signs	Moderate	Proper safety signs should be installed by the Contractor	Contractor	31 st December 2022	Closed
3				Water Sprinkling	Moderate	Water sprinkling on sites and within camp is greatly required	Contractor	Regularly	Closed
4				No Barricading of construction site	Major	Site should be barricaded especially at borrow areas and areas where construction activities are being carried on	Contractor	31 st December 2022	Still awaited/open
5				Weekly Environmental Report/Checklist	Moderate	Weekly Environmental Report/Checklist submission is maintained properly	Contractor HSE Supervisor	31 st December 2022	Open
6				Use of PPE's especially safety boots ensured	Major	Contractor should ensure use of PPE's especially safety boots by labor	Contractor HSE Supervisor	31 st December 2022	Closed
7				Medical Health Facility available/First Aid Kits/ fire extinguishers	Major	First Aid kits were not available on sites	Contractor HSE Supervisor	31 st December 2022	Open
8				Environmentalist/HSE advisor has been hired	Major	Environmentalist/HSE advisor has been hired for monitoring Environmental Compliance	Contractor	31 st July 2022	Closed

9			Arrangement of waste disposal and management.	Major	Routinely	Contractor	31st December 2022	Still awaited/open
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Exhibit 28- Siri Toi Dam sub-project Corrective Action Plan

Sr. No	Date	Raised By	Location	Issues	Category*	Corrective Action	Responsibility	Original Target Date	Updated Status Closed/open
1	July-December 2022	CSC	Siri Toi Dam Sub-project	SSEMP is submitted	Major	SSEMP submitted for ADB review	Contractor	9 th December 2022	Closed
2				Scarcity of safety signs	Moderate	Proper safety signs should be installed by the Contractor near diversions and slopes	Contractor	31 st December 2022	Open
3				Water Sprinkling	Moderate	Water sprinkling on sites and within camp is greatly required	Contractor	Regularly	Closed
4				No Barricading of construction site	Major	Site should be barricaded especially at camp site, borrow areas and areas where construction activities are being carried on	Contractor	31 st December 2022	Still awaited/open
5				Weekly Environmental Report/Checklist	Moderate	Weekly Environmental Report/Checklist submission is maintained properly	Contractor HSE Supervisor	31 st December 2022	Open
6				Use of PPE's especially safety boots ensured	Major	Contractor should ensure use of PEE's especially safety boots to labors	Contractor HSE Supervisor	31 st December 2022	Closed
7				Medical Health Facility available/First Aid Kits/ fire extinguishers	Major	First Aid kits were not available on sites	Contractor HSE Supervisor	31 st December 2022	Open

8			Environmental/HSE advisor has been hired	Major	Environmental/HSE advisor has been hired for monitoring Environmental Compliance	Contractor	31 st July 2022	Closed
9			Arrangement of waste disposal and management.	Major	Routinely	Contractor	31 st December 2022	Still awaited/open

6 GOOD PRACTICE AND OPPORTUNITY FOR IMPROVEMENT

6.1 Good Practice

98. The good practices are mentioned as:

Ahmedzai Sub-project and Karakh Valley Development Sub-project

- Establishment of Contractor's camp is within the permissible standards and Parameters.
- Contractor has displayed direction signs board on main Zhob - DI Khan road. **(Annexure XI)**.
- Availability of HSE Advisor on site was ensured.
- Cutting of trees for firewood are being avoided as LPG is being used instead of fuel wood. Complaint register is in place of project site and No complaint/conflict observed.
- A good liaison is established between PMO, Supervisory consultant and contractor to follow the environmental safeguard guidelines.
- Monthly and weekly environmental monitoring checklists are timely submitted to Supervision Consultant in monthly Environmental Monitoring Report. **(Annexure I-VI)**.
- Use of PPE's by workers were noticed as a good practice.

Water Resources Building

- Contractor has displayed precautionary signs boards and warning tapes inside construction site, around material storage and cement bags.
- Frequent water sprinkling was observed to avoid dust pollution.
- Providing clean drinking water to workers and staff.
- Monthly and weekly environmental monitoring checklists are timely submitted in monthly EMR report. **(Annexure I- VI)**.
- A good liaison is established between PMO, Supervisory consultant and contractor to follow the environmental safeguard guidelines.

6.2 Awareness

99. Before any worker, no matter his or her role or experience level, can set foot on a construction site, he or she must be fully cognizant of the possible hazards. Ignorant workers are perhaps the biggest dangers at any construction sight, as their unknowing mistakes put everyone else at risk. Understanding of perils at hand and sustaining a perpetual state of alertness is perhaps the number-one best way to prevent accidents for

which awareness campaign and risk assessment of each activity is done before start of the new activity for the staff. For this purpose, daily Tool Box Talk (TBT) is conducted by HSE Supervisor in the morning before starting any activity on the site. Safety posters indicating different construction hazards are displayed at site.

6.3 Opportunities for Improvement

100. Overall quality of work and environment is satisfactory at site. However, improvements are required;

Ahmedzai Subproject and Karakh Valley Development Subproject

- All the concerned staff has been instructed to improve OHS performance levels including use of PPEs by all site workers is mandatory, implementation of working hours etc.
- Training sessions must be conducted more frequently.
- Quarterly environmental monitoring timeline should be followed strictly.
- The trucks carrying construction material should be covered with tarpaulin sheet to avoid dust pollution.
- Safety signboards, safety cones, fluorescent tape, speed limit boards etc. at Junction point of village and camp site road should be used.
- Washrooms should be with sufficient facilities and hygienic condition.
- Generator should be placed away from fuel pump and rest rooms of workers and staff.
- Construction sites should be appropriately barricaded.
- Avoid contamination of Camp soil by oil leakage from machinery.

Water Resources Building

- Material transportation should be in the night time to avoid traffic issues.
- Entrance of public within project vicinity must be prohibited and more vigilance needed.
- The Contractors Environment Specialist should continue to provide both off and onsite HSE training to the Contractor's top/middle management, and workers for the capacity building and providing them necessary awareness on how to deal with HSE issues that arises on day to day basis.
- Environment Specialist should be present at site throughout construction period.

7 SUMMARY AND RECOMMENDATIONS

7.1 Summary

a. Ahmedzai Subproject

101. The overall Health Safety & Environment (HSE) implementation is satisfactory due to continuous efforts by the supervisory staff at site as the Contractor was pressed hard to follow the HSE guidelines in true letter and spirit. There is no major adverse impact on surface water quality due to minor construction activities on the irrigation channels.

b. Water Resources Building

102. The impact of dust was reduced by regular water sprinkling. Use of PPE's was satisfactory during construction. The Supervisory Consultant visit construction sites on regular basis and provide the needed feedback to the supervisory staff at site. The overall working environment at the Project Area has been safe as no major incident/accident or casualty was reported.

c. Karakh Valley Development Subproject

103. The overall Health Safety & Environment (HSE) implementation is improving because the Contractor is continuously in efforts to follow the HSE guidelines as per EMP. SSEMP has been reviewed by the project consultant and submitted to client office for ADB comments. So far, the generic EMP's prepared as part of the IEE studies, has been used for implementation of the required mitigation measures and for conducting the required monitoring to ensure compliance with the national and ADB safeguard requirements.

d. Kharzan Hatchi Infiltration Gallery Subproject and Siri Toi Dam

104. Contractor Environmental Specialist is assisted to provide trainings to the workers and site staff for implementation of EMP/SSEMP.

7.2 Recommendations

105. The following recommendation should be applied to all the subprojects i.e. Ahmedzai sub-project, Water Resources Building, Karakh valley, Kharzan Hatachi and Siri Toi Dam.

- Contract clause regarding health safety and environment issues should be strictly followed.
- Strict compliance of SSEMP/EMP at project site.

- Use of PPEs during masonry work and working at height is enforced strictly.
- Presence of trained medical person and contractor's environmental officer should be ensured during working hours.
- Stacking of construction materials at site should be according to EMP/SSEMP.
- Reflect all major findings and recommendations of this report in the next SAEMR.
- Warning sign boards, diversion boards /warning tapes should be mandatory at the construction sites.
- Flagmen must be present near construction site to avoid any accident.

ANNEXURES



ANNEXURE I: Weekly Monitoring Checklist Ahmedzai (NCB 08) Sub-Project

**Construction of Ahmedzai Perennial & Flood Irrigation
Sub Project Zhob River Basin**



Annexure-I

Weekly Monitoring Checklist


 NCB-08 Construction of Ahmedzai Perennial & Flood Irrigation
Subproject, Zhob River Basin District Zhob,
 

Project Name: Construction of Ahmedzai PFI Package # NCB-08
 Monitoring Location: Camp and Project Site Date: 01/09/2022

Weekly Monitoring Check List

Description	Status	Comments
A- Physical Condition		
1- Soil Conditions		
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 the soil types?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Have the area along the access road been visually monitored and show any sign of soil erosion?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & 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 a safe manner, ensuring no leakage & 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 up material being disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spills and leak thoroughly cleaned?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
3- Waste Material		
Is waste being stored temporarily on camp & sites within the designated area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is any type of solid waste is being disposed of 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	
4- 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 been used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Are pressure horns being used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

1



Construction of Ahmedzai Perennial & Flood Irrigation
Sub Project Zhob River Basin



NCB-08 Construction of Ahmedzai Perennial & Flood Irrigation
Subproject, Zhob River Basin District Zhob



Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	<input type="checkbox"/> Yes <input checked="" 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 areas?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
6- Camp Site		
Are the generator 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	

Additional Comments (if any):

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

**ANNEXURE II: Monthly Monitoring Check List Ahmedzai Irrigation Sub-Project
(NCB 08)****Construction of Ahmedzai Perennial & Flood Irrigation
Sub Project Zhob River Basin****Annexure-II****Monthly Monitoring Checklist**NCB-08 Construction of Ahmedzai Perennial & Flood Irrigation
Subproject, Zhob River Basin District Zhob**Monthly Monitoring Checklist**

Name of the Project: Construction of Ahmedzai Perennial & Flood Irrigation Subproject.						
Environmental Compliance Checklist:						
Sr. No	Description	Week				Monthly Avg
		1	2	3	4	sept 2022
Major Adverse Impacts (weightage 0-3)						
1	Copy of the Site specific EMP is provided at the camp site/contractors office?	2	2	3	3	2.5
2	The EMP instructions are understood?	2	3	3	3	2.75
3	An individual is nominated for implementation of EMP?	2	2	2	3	2.25
4	Camp Management, Health & Hygiene/ Heating, Cooling, Lighting and Housekeeping	1	1	2	2	1.5
5	Assembly Point is demarcated, alarming system.	1	2	2	3	2
6	Workforce use PPE at site?	2	2	2	2	2
7	Contractor provided PPE to their workforce?	2	1	2	2	1.75
8	Potable water is available to labor?	3	3	3	3	3
9	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	1	2	2	2	1.75
10	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	3	3	3	3	3
11	Contractor maintained Grievances Log and registered the complaints from community?	0	0	0	0	0
12	Contractors prohibited child labor and forced labor?	3	3	3	3	3
13	Borrow area is leased and the landowner is compensated as per a lease agreement?	2	2	3	3	2.75
14	Septic Tank and Soak Pits are designed for treatment of effluents?	1	1	2	2	1.5
15	No complaint filed regarding transmission of communicable diseases	3	3	3	3	3
Moderate Adverse Impacts (weightage 0-2)						
16	Provision of necessary welfare and hygiene requirements for the prevention of epidemic	1	1	2	2	1.5
17	Availability of an updated emergency vehicle (Ambulance)	2	1	2	2	1.75
18	Site selected for camp is 500 m from the human settlements and wildlife habitats?	1	1	2	2	1.5
19	No wood cutting for fuel?	2	2	2	2	2
20	LPG cylinders are provided for cooking or heating purposes?	2	2	2	2	2



Construction of Ahmedzai Perennial & Flood Irrigation Sub Project Zhob River Basin



NCB-08 Construction of Ahmedzai Perennial & Flood Irrigation
Subproject, Zhob River Basin District Zhob



Name of the Project: Construction of Ahmedzai Perennial & Flood Irrigation Subproject.						
Environmental Compliance Checklist:						
Sr. No	Description	Week				Monthly Avg
		1	2	3	4	sept 2022
21	Arrangement for proper storage and disposal for solid waste is planned?	1	2	2	2	1.75
22	Safety signs are properly displayed?	1	1	2	2	1.5
23	Contractor provided training to workers to effectively implement project specific EMP?	1	1	2	2	1.5
24	Contractors followed HSE plan and Emergency Response Procedures	1	1	2	2	1.5
25	Contractors properly disposes debris materials in approved barren land/ TMA facilities preferably recycling, reuse process?	1	1	1	1	1
26	Natural areas with high elevation are normally selected as borrow areas?	1	2	2	2	1.75
27	Minimum damage to the agriculture land due to borrow pits on agriculture land?	1	1	2	2	1.5
28	Top 300 mm are stripped and stockpiled for redressing?	2	1	1	2	1.5
29	Stockpiling of Material, Construction Material Management	1	1	2	2	1.5
30	Waste being stored temporarily on camp & sites only within the designated area	1	2	2	2	1.75
31	Fuel/oil storage areas are away from watercourses?	2	2	2	2	2
32	Fuel/oil storage areas are paved & ventilated	1	2	1	2	1.5
33	Fire Extinguisher is placed near Fuel Storage area	1	1	1	1	1
34	No vegetation covers aside from that required as part of construction and inside the RoW removed?	1	2	2	2	1.75
35	Tree cutting restricted to RoW and shoulder areas only?	2	2	2	2	2
36	No damage reported to public services like electric, water, gas, sewer or telephone lines?	1	1	1	2	1.25
37	Batching Plant Material is taken from existing approved plants?	2	2	2	2	2
38	Batching Plant properly managed, no complaints	2	2	2	2	2
39	Maintenance of Roads, Hospitals, Buildings, Sewage facilities, Electric and water supply system	1	1	1	1	1
40	Project activities are displayed at proper locations	1	1	1	1	1
Minor Adverse Impacts & Good Practice Measures (weightage 0-1)						
41	No complaints were made due to noise and vibration?	0.5	0.5	0.5	0.5	0.5
42	Contractor conduct Information, Education and Communication (IEC) campaign	0	0	0.25	0.25	0.125
43	Labor Screening at the time of Induction	0.25	0.25	0.5	0.5	0.375



Construction of Ahmedzai Perennial & Flood Irrigation Sub Project Zhob River Basin



NCB-08 Construction of Ahmedzai Perennial & Flood Irrigation Subproject, Zhob River Basin District Zhob



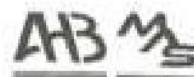
Name of the Project: Construction of Ahmedzai Perennial & Flood Irrigation Subproject.						
Environmental Compliance Checklist:						
Sr. No	Description	Week				Monthly Avg
		1	2	3	4	sept 2022
44	Fire Extinguisher are placed and checked properly	0.25	0.25	0.25	0.25	0.25
45	Contractors hiring of local labor?	1	1	1	1	1
46	Project site is fenced to prevent trespassing?	0.5	1	1	1	0.875
47	Generator in the construction camp properly maintained	0.5	0.5	0.5	0.5	0.5
48	Community consultation has been carried out for project activities/concerns?	0	0	0.25	0.25	0.125
49	Adequate barriers are provided around areas where hazards may exist	1	1	1	1	1
50	Spilled oil or fuel and used clean up material being disposed of properly	0.5	0.5	0.5	0.5	0.5
51	Waste segregation at source	0.5	0.25	0.25	0.5	0.437
52	Construction & Maintenance of Walkways	0.5	0.25	0.25	0.25	0.312
53	Dust Generation during construction well managed and record exists	0.25	0.25	0.25	0.25	0.25
54	Number of routes kept to a minimum	1	1	1	1	1
55	Water Sprinkling Record is available	0.25	0.5	0.5	0.5	0.375
56	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow.	0.25	0.25	0.5	0.5	0.375
57	Photographic Record of Roads and agricultural fields is being maintained.	0	0.5	0.5	0	0.25
58	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	1	1	1	1	1
59	Spills and leak thoroughly cleaned	0.5	0.75	0.75	0.75	0.687
60	Construction machinery parked at designated areas?	0.75	0.75	0.75	0.75	0.75
61	Traffic issues managed well, no complaints on record	0.25	0.5	0.75	0.75	0.562
62	Daily, Weekly & Monthly Checklists are filed regularly	1	1	1	1	1
63	Storage of Hazardous Material in designated areas. MSDS available	0.5	0.5	0.5	0.5	0.5
64	Social Framework Agreement is prepared and signed	0	0	0	0	0
65	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
Total Weightage (out of 116)						85.998
Monthly Percentage						74.13
Key: (Percentage)						
100 = Excellent						
above 80 = Good						
above 60 = Average						
above 40 = Below Average						
Below 30 = Unsatisfactory						

**ANNEXURE III: Weekly Monitoring Checklist BWR Building (NCB 05) Sub-
Project**NCB-05 Construction of Water Resources
Building at Quetta**ABMS**Project Name: construction of WRS Quetta Package # NCB-05Monitoring Location: project and camp site Date: 23, 08, 2022**Weekly Monitoring Check List**

Description	Status	Comments
A- Physical Condition		
1- Soil Conditions		
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 the soil types?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Have the area along the access road been visually monitored and show any sign of soil erosion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2- Fuel / Lubricants		
Is regular inspection carried to check leaks & 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 a safe manner, ensuring no leakage & 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 up material being disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are the spills and leak thoroughly cleaned?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
3- Waste Material		
Is waste being stored temporarily on camp & sites within the designated area?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Is any type of solid waste is being disposed of in the fields?	<input checked="" type="checkbox"/> Yes <input 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	
4- 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 been used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are all the vehicles and construction machinery properly maintained and tuned to maintain NEQS level?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Are pressure horns being used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	



NCB-05 Construction of Water Resources Building at Quetta



5- 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 top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	<input type="checkbox"/> Yes <input checked="" 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 areas?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6- Camp Site	
Are the generator 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

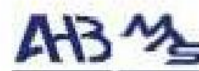
Additional Comments (if any):

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

ANNEXURE IV: Monthly Monitoring Check List BWR Building Sub-Project (NCB 05)



NCB-05 Water Resources Building at Quetta

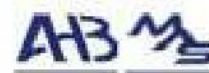


Monthly Monitoring Checklist

Name of the Project: Construction of Water Resources Building						
Environmental Compliance Checklist						
Sr. No	Description	Week				Monthly Avg
		1	2	3	4	Aug 2022
Major Adverse Impacts (weightage 0-3)						
1	Copy of the Site specific EMP is provided at the camp site/contractors office?	1	2	3	3	2.25
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 & Hygiene/ Heating, Cooling, Lighting and Housekeeping	2	2	2	3	2.75
5	Assembly Point is demarcated, alarming system.	1	1	1	1	1
6	Workforce use PPE at site?	1	2	3	2	2
7	Contractor provided PPE to their workforce?	2	2	3	3	2.5
8	Potable water is available to labor?	3	3	3	3	3
9	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	0	1	1	2	1
10	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	0	1	2	3	1.5
11	Contractor maintained Grievances Log and registered the complaints from community?	1	2	2	2	1.75
12	Contractors prohibited child labor and forced labor?	2	2	3	3	2.5
13	Borrow area is leased and the landowner is compensated as per a lease agreement?	0	1	2	3	1.5
14	Septic Tank and Soak Pits are designed for treatment of effluents?	0	0	0	0	0
15	No complaint filed regarding transmission of communicable diseases	3	3	3	3	3
Moderate Adverse Impacts (weightage 0-2)						
16	Provision of necessary welfare and hygiene requirements for the prevention of epidemic	1	1	2	2	1.5
17	Availability of an updated emergency vehicle (Ambulance)	1	1	2	2	1.5
18	Site selected for camp is 500 m from the human settlements and wildlife habitats?	2	2	2	2	2
19	No wood cutting for fuel?	2	2	2	2	2
20	LPG cylinders are provided for cooking or heating purposes?	1	2	2	2	1.75
21	Arrangement for proper storage and disposal for solid waste is planned?	1	1	2	2	1.5



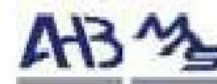
NCB-05 Water Resources Building at Quetta



Name of the Project: Construction of Water Resources Building						
Environmental Compliance Checklist						
Sr. No	Description	Week				Monthly Avg
		1	2	3	4	Aug 2022
22	Safety signs are properly displayed?	2	2	2	2	2
23	Contractor provided training to workers to effectively implement project specific EMP?	2	2	2	2	2
24	Contractors followed HSE plan and Emergency Response Procedures	2	2	2	2	2
25	Contractors properly dispose debris materials in approved barren land/ TMA facilities preferably recycling, reuse process?	1	1	1	2	1.25
26	Natural areas with high elevation are normally selected as borrow areas?	1	1	1	1	1
27	Minimum damage to the agriculture land due to borrow pits on agriculture land?	1	1	2	2	1.5
28	Top 300 mm are stripped and stockpiled for redressing?	1	1	1	1	1
29	Stockpiling of Material, Construction Material Management	1	1	1	1	1
30	Waste being stored temporarily on camp & sites only within the designated area	1	1	2	2	1.5
31	Fuel/oil storage areas are away from watercourses?	2	1	2	2	1.75
32	Fuel/oil storage areas are paved & ventilated	1	1	2	2	1.5
33	Fire Extinguisher is placed near Fuel Storage area	0	0	1	1	0.5
34	No vegetation cover aside from that required as part of construction and inside the RoW removed?	2	2	2	2	2
35	Tree cutting restricted to RoW and shoulder areas only?	2	2	2	2	2
36	No damage reported to public services like electric, water, gas, sewer or telephone lines?	1	1	2	2	1.5
37	Batching Plant Material is taken from existing approved plants?	0	1	1	2	1
38	Batching Plant properly managed, no complaints	0	0	1	1	0.5
39	Maintenance of Roads, Hospitals, Buildings, Sewage facilities, Electric and water supply system	1	1	1	1	1
40	Project activities are displayed at proper locations	1	2	0	1	1
Minor Adverse Impacts & Good Practice (weightage 0-1)						
41	No complaints were made due to noise and vibration?	0.5	0.5	1	1	0.75
42	Contractor conduct Information, Education and Communication (IEC) campaign	0.1	0.1	0.1	0.1	0.1
43	Labor Screening at the time of Induction	0.3	0.3	0.5	0.5	0.4
44	Fire Extinguisher are placed and checked properly	0	0	0.2	0.5	0.17
45	Contractors hiring of local labor?	1	1	1	1	1
46	Project site is fenced to prevent trespassing?	1	1	1	1	1



NCB-05 Water Resources Building at Quetta



Name of the Project: Construction of Water Resources Building						
Environmental Compliance Checklist						
Sr. No	Description	Week				Monthly Avg
		1	2	3	4	Aug 2022
47	Generator in the construction camp properly maintained	0.5	0.5	0.5	0.5	0.5
48	Community consultation has been carried out for project activities/concerns?	0	0	0.5	0.5	0.25
49	Adequate barriers are provided around areas where hazards may exist	1	1	1	1	1
50	Spilled oil or fuel and used clean up material being disposed of properly	0.5	0.5	0.5	1	0.62
51	Waste segregation at source	0	0	0	1	0.25
52	Construction & Maintenance of Walkways	0	0	0.4	0.5	0.32
53	Dust Generation during construction well managed and record exists	0.5	0.5	0.5	0.5	0.5
54	Number of routes kept to a minimum	1	1	1	1	1
55	Water Sprinkling Record is available	0.2	0.2	0.4	0.5	0.32
56	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow.	0.5	0.5	1	1	0.75
57	Photographic Record of Roads and agricultural fields is being maintained.	0	0	0.5	0.5	0.25
58	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	1	1	1	1	1
59	Spills and leak thoroughly cleaned	0.5	0.5	0.5	1	0.62
60	Construction machinery parked at designated areas?	0.5	0.5	1	1	0.75
61	Traffic issues managed well, no complaints on record	1	1	1	1	1
62	Daily, Weekly & Monthly Checklists are filed regularly	1	1	1	1	1
63	Storage of Hazardous Material in designated areas. MSDS available	0.5	0.5	0.5	1	0.62
64	Social Framework Agreement is prepared and signed	0	0	0	0	0
65	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
Total Weightage (out of 116)					81.32	
Monthly Percentage					70.10%	
Key: (Percentage)						
100 = Excellent						
above 80 = Good						
above 60 = Average						
above 40 = Below Average						
Below 30 = Unsatisfactory						

ANNEXURE V: Weekly Environmental Monitoring Checklist Karakh Valley Development Sub-Project (NCB 01)



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



Annexure- I

Weekly Monitoring Checklists

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

Project Name: Const. of Karakh valley development Package. No. NCB-01
Monitoring Location: Camp & Project sites Date: 7/11/22

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 cleaned?	<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 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	
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 generator 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 of 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**

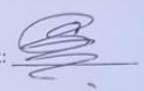


CONSTRUCTION OF KARAKH VALLEY DEVELOPMENT
SUB- PROJECT –MULA RIVER BASIN
CONTRACT NO: NCB-01

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	
---	---	--

Additional Comments (if any): _____

Contractor Environmentalist:  _____

PIC Environmentalist:  _____

ANNEXURE VI: Monthly Environmental Monitoring Check List Karakh Valley Development Sub-Project (NCB 01)



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



Annexure- II

Monthly Monitoring Checklist

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	Nov, 2022
Major Adverse Impacts (weightage 0-3)						
1	Copy of the SSEMP provided at the camp site/contractor office?	1	2	3	3	2.25
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?	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?	0	1	1	2	1
9	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	0	1	2	3	1.5
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?	0	0	0	0	0
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



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



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	Nov, 2022
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



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



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)						73.24
Monthly Percentage						63.13%
Key: (Percentage)						
100 = Excellent						
Above 80 = Good						
Above 60 = Average						
Below 40 = Below Average						
Below 30 = Unsatisfactory						

ANNEXURE VII: Onsite Training Photographs of Ahmedzai Sub-Project NCB 08



Construction of Ahmedzai Perennial & Flood Irrigation
Sub Project Zhob River Basin



Annexure-IV

Photographic Record of Training



Training Attendance and Photographs Ahmedzai Irrigation Sub-project NCB 08



Construction of Ahmedzai Perennial & Flood Irrigation Sub Project Zhob River Basin



Annexure-III

Training Attendance Sheet



Construction of Ahmedzai Perennial & Flood Irrigation Canal
BWRDS/NCB-08
RD 0+000 to 3+200 & RD 0+000 to 7+320

Training Attendance Sheet			
Topic: <i>Importance of trees, plantation and importance of personal protection equipment</i>		Date: <i>18/09/2022</i>	
S. No.	Name	Designation	Signature
01	<i>Khanjan</i>	<i>Site incharge</i>	<i>[Signature]</i>
02	<i>Dilawal Khan</i>	<i>Supervisor</i>	<i>[Signature]</i>
03	<i>Imran Ali</i>	<i>Surveyor</i>	<i>[Signature]</i>
04	<i>M. Rizwan</i>	<i>C.I</i>	<i>[Signature]</i>
05	<i>Shahzain Khan</i>	<i>Steel fixer</i>	<i>[Signature]</i>
06	<i>Muhammad Khan</i>	<i>Steel fixer</i>	<i>[Signature]</i>
07	<i>Wasim Amjad</i>	<i>Steel fixer</i>	<i>[Signature]</i>
08	<i>Abdul Wahid</i>	<i>Lab Helper</i>	<i>[Signature]</i>

Trainer Signature: *[Signature]*

**ANNEXURE VIII: Training Attendance and Photographs BWR Building Quetta Sub-
Project NCB 05**



NCB-05 Water Resources Building at Quetta



Annexure-IV

Photographic Record of Training



Training Attendance and Photographs BWR Building Quetta Sub-Project NCB 05



NCB-05 Water Resources Building at Quetta



Annexure-III

Training Attendance Sheet



NCB-05 Construction Water Resources Building at Quetta



Training Attendance Sheet			
Topic: Ergonomics, Electrical Safety and Mandatory PPEs.			Date: 17/11/2022
S. No.	Name	Designation	Signature
1	Jamil Khan	Site manager	[Signature]
2	Shanish	Contractor	[Signature]
3	Ahmed Khan	Shifting	[Signature]
4	Pasque	Helper	[Signature]
5	Naveed Ahmad	Helper	[Signature]
6	Ahmed Jan	Mason	[Signature]
7	Majid	Mason	[Signature]
8	Mazhar	Mason	[Signature]
9	Mustafa	Mason	[Signature]
10	M. Jan Khan	Helper	[Signature]
11	Syedullah	Field site	[Signature]

Trainer Signature: _____

1

**ANNEXURE X: Training Attendance and Photographs Karakh Valley Development
Sub-Project NCB 01**



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



AGHA
Construction Company

Annexure-IV

Photographic Record of Training



ANNEXURE XI: Compliance and Non-Compliance on Construction sites

1. Ahmedzai PIS Subproject



Signboards provided on main Zhub DIK Road



Presence of Contractors Environment Specialist on site



Domestic waste collection point



Water Sprinkling near batching plant to suppress dust



Workers using PPE's at site.



Workers not willing to wear PPE's.

PUBLIC. This information is being disclosed to the public in accordance with ADB's Access to Information Policy.

2. BWR Building Sub-project NCB 05



Ensuring first aid kit availability and medicines expiry date



Safety measures displayed on several locations



Safety warning tape provided on steel yard



Workers using PPE's on site



Washrooms in unhygienic conditions



Kitchen facility provided at construction site

3. Karakh Sub-project NCB 01



Wearing PPE's during working hours



Warning tape showing no go area for out siders



On site discussion with EHS Advisor



Unhygienic housekeeping in camp area



Hygienic conditions of workers washrooms



Burning of firewood in camp area

4. Kharzan Hatachi Sub-project NCB 02



SC environmental specialist discussion with site supervisor to provide complete set of PPE's.



Onsite water sprinkling on bund 3A.



Empty drums should be placed at their designated area



Installation or erection of batching plant on selected site



Site workers working without PPE's.



Workers without PPE's.

5. Siri Toi Dam Sub-project ICB 01



First Aid Box is available in camp site, incase of any injury.



Material Testing Laboratory in Contractor camp



Gas Cylinder is available for kitchen uses.



Mosque under construction for prayers.



Safety signboards panaflex arrived during field visit at Siri Toi Dam Camp.



Open drain needs to be covered in proper pipes & barricading around campsite is required.

PUBLIC. This information is being disclosed to the public in accordance with ADB's Access to Information Policy.



Safety signboards panaflex used during construction activities.



Dining Hall for serving meal to officers and staff.



Excavation of Dyke (Earth work).



Drinking water dispenser available in camp kitchen.



Use of PPE's by site staff and workers



Joint visit of SC Environmental Specialist along with Contractor Environmental Specialist.

