

# Environmental Monitoring Report

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# 3 Semestral Report  
January 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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Project Number: Loan-3700  
January – June 2022

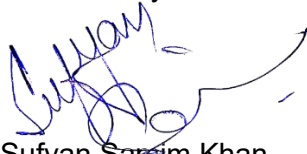
Islamic Republic of Pakistan: Balochistan Water Resources  
Development Sector Project  
(Financed by the Asian Development Bank) ADB

Prepared by:  
Dr. Akhtar Iqbal (Environmental Specialist PMO Support)  
Sibghat Ullah Khan (Environmental Specialist Design Team RHC)  
NESPAK-RHC-EGC Jv  
Lahore, Pakistan

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

For the Period January - June 2022

Endorsed by:



Sufyan Samim Khan  
Project Director, BWRDSP  
August 2022

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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
COVID-19	Coronavirus Disease 2019
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
ZRB	Zhob River Basin

## 1 INTRODUCTION

### 1.1 Preamble

This report represents the Semi - Annual Environmental Monitoring Review (SAEMR) for Balochistan Water Resources Development Sector Project for the period of January to July 2022. Sites visited included Karakh Valley Development Sub-Project on Mula River NCB 01, NCB 05 Water Resources Building and NCB 08 Ahmedzai Perennial and Flood Irrigation Sub-Project sites. This report is the 3<sup>rd</sup> 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 Bund Number 1, Bund Number 2 and Bund Number 3.
- 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 Headline Information

1. The Project has two Contractors on board under the “Contract No. NCB-05 Water Resources Building Quetta and NCB-08, Ahmedzai Subproject”. The Consultant Environmental Specialist visited the above sites to check Environmental Compliance by the contractors. HSE Officers on NCB 05 and 08 were available on the site.

2. Public consultation meetings with primary and secondary beneficial stakeholders for Solar Powered Drip Irrigation System were carried out during the month of May 2022 in Mula River Basin (MRB) and Zhob River Basin (ZRB). The participants were completely willing to cooperate in all kind of activities for installation of SPDIS. Photographic evidences and attendance sheets are attached as Annexure VII.
3. During the site visit to Karakh Valley Development Sub-Project Mula River Basin, the Contractor HSE officer was assisted to prepare SSEMP on first priority. After several verbal/written notices the SSEMP has been prepared and submitted to ADB for further comments.
4. During this period EMP implementation costs were updated.
5. Due to the proactive project management and strict monitoring of the EMP implementation by the Balochistan Water Resources Development Sector Project Consultants (BWRDSP consultants), the overall situation with regards to implementation of environmental safeguards at the project sites has remained satisfactory with no major non-compliances reported during the current reporting period i.e. January-June 2022.
6. The Environment team of BWRDSP consultants at site continued to perform strict monitoring of the EMP and Health & Safety (HS) Plan implementation by the Contractor.
7. The Environment team of BWRDSP consultants at site ensured first Aid Box and informed the contractor to keep a record of workers who become sick/ill or required first aid. Moreover the contractors directed to sign a contract agreement with nearest Doctor/hospital in case of any emergency for quick response.
8. Workers were noticed wearing PPE's during working hours/activities. Some of them were not feeling comfortable by using PPE's but environment team informed them, that without PPE's any kind of incident can be harmful to their health.
9. Furthermore, all works are significantly affected due to the COVID-19 pandemic outbreak. Keeping in view the required measures being implemented, such as social distancing of project staff, the overall staff has also been reduced.
10. Also, the on-site HSE team strictly implemented the SOPs issued by Government of Pakistan (GOP) for construction sites (provision of hand sanitizers to office and labour staff, provision of surgical face masks, instruction boards and signage at different locations for COVID-19 awareness).

## 2 PROJECT DESCRIPTION AND CURRENT ACTIVITIES

### 2.1 Project Description

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) Zhob and Khuzdar Districts.
  2. 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.
  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.
- 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 vegetables, 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 vegetables 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

5. 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.

6. The environmental management teams for this project and their respective roles are as provided below as Table 1.

**Table 1: Key Project stakeholders and their contacts**

Organization	Discipline/ Designation	Deployed Team	Location	Contact no	Email Id
<b>PMO</b>	Project Director	Mir Azhar Jabbar	Quetta	0333-3824644	pd.bwrdsp@gmail.com
	Deputy Project Director (Zhob)	Muhammad Sufyan Durrani	Zhob	0333-5172464	sufyan_durrani@yahoo.com
	Deputy Project Director (Khuzdar)	Imtiaz Rind	Khuzdar	0332-7897008	iarind15@gmail.com
<b>PIO</b>	Deputy Project Director	Asif Mastooi	Quetta	0333-3122310	pio.bwrdsp@gmail.com
<b>ADB</b>	Environment Specialist	Syed Asim Ali Sabzwari	Islamabad	(+632) 632-6757	asabzwari@adb.org
<b>ADB</b>	Environment Specialist (Consultant)	Abdul Basit Khan	Islamabad	0333-3427609	abkhan.consultant@adb.org
<b>NESPAK/ RHC</b>	Environment Specialist	Dr Akhtar Iqbal	Lahore	0300-8381968	enviro@rehmanhabib.com
	Environment Specialist	Sibghat Ullah Khan	Quetta	0331-9017601	sibghat.envir86@gmail.com
<b>Contractor (WRB)</b>	Environment Specialist	Faheem Akbar	Quetta	0300-3678816	faheemakber39@gmail.com
<b>Contractor (WRB)</b>	HSE	Jameel	Quetta	0333-5335002	
<b>Contractor (Ahmedzai )</b>	HSE Supervisor	Abdullah Khan	Ahmedzai Zhob	0334-9278908	AbdullahHKD95@gmail.com
<b>Contractor (Karakh)</b>	Project Manager	Azam Ali	Karakh (Khuzdar)	0334-7074662	zkb_qta@hotmail.com
<b>Contractor (Karakh)</b>	HSE Supervisor	Atta Ullah	Karakh (Khuzdar)	0334-3905189	
<b>Contractor (Kharzan-Hatachi)</b>	Project Manager	Engr. Mateen	Kharzan-Hitachi (Khuzdar)	0334-8859394	agha_construction_com@hotmail.com
<b>Contractor (Kharzan-Hatachi)</b>	Environmental ist	Masroor Ahmed	Kharzan-Hitachi (Khuzdar)	0308-7276071	

7. 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.

8. 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**

9. During the reporting period, construction works were carried out only under sub-projects “Contract No. NCB-05 Water Resources Building Quetta, NCB-08 Ahmedzai sub-project” and NCB-01 Karakh Valley Development sub-project.
10. NCB-02 Kharzan-Hatachi sub-project has been awarded but contractor have not started any construction activities during reporting period.
11. The actual physical works by the Contractor of NCB-08 and NCB-05 have been started on 14 December 2020 and 24 March 2021 respectively. One of the prerequisites for commencement of the works by the Contractor was the provision of SSEMP. However, despite long years of experience in implementing similar contracts, the Contractor of NCB-08 had submitted final draft of SSEMP on 29 November 2021 to the client for ADB.
12. The NCB-01 Contractor shared its first draft of SSEMP in October 2021 to BWRDSP consultants. The PMO and BWRDSP Consultants will make sure for other contractors on time submission and approval of SSEMPs to avoid similar non-compliances. Therefore, SSEMP was corrected and again submitted to the client office for submission to ADB on 5<sup>th</sup> July 2022. However, it should be noted that it took several months for the Contractor of NCB 01 to understand, prepare and submit SSEMP.
13. Brief description of works performed by the Contractors during the reporting period is provided in Table 2, 3 and 4 below.

**Table 2: NCB-08 Ahmedzai Subproject Contractors works Progress**

Sr. No	Activity	Status
<b>A. Weir</b>		
1.	Weir Structure	30% completed
<b>B. Perennial Channel</b>		
1.	Stone masonry side wall	90 % completed
<b>C. Flood Channel</b>		
1.	Earth work (excavation, filling)	80% completed
2.	Stone masonry side wall	10 % completed

**Table 3: 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

**Table 4: 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	70% completed
3.	Kadri	40% completed
4.	Jhalaro	20% completed
5.	Acherwand	50% completed
6.	Sinjori	40% completed
7.	Norwah	30% completed

14. Activities carried out by consultant during the monitoring period are provided in Table 5 below.

**Table 5: Environmental Safeguards Activities Carried out During Reporting Period (January - June 2022)**

Environmental Safeguard Activities	Dates
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<ul style="list-style-type: none"> <li>▪ Preparation of Semi-Annual Environmental Monitoring Report;</li> <li>▪ Reviewing the Cost Estimates for EMP implementation;</li> <li>▪ Provision of training activities to the contractors on EMP implementation and SSEMP preparation;</li> <li>▪ Supervision the preparation of SSEMP by the contractor;</li> <li>▪ Constant communication with engineers on updates on the project design and works;</li> <li>▪ Site inspection and provision of recommendations to the Contractor's personnel on constant usage of PPE's improvement the situation with the solid waste containers and regular cleaning of the site.</li> <li>▪ Support and consultation of contractor's environmental, health and safety personnel in implementation of environmental mitigation measures;</li> <li>▪ Assistance and guidance in preparation of Contractor's Environmental Monthly Report;</li> <li>▪ Participation in meetings arranged by the PMO and ADB.</li> </ul> <p>One day GAP orientation session was conducted in PMO office.</p>	<p>10th July 2022</p> <p>May 2022 Quarterly</p> <p>14<sup>th</sup> May 2022</p> <p>Daily</p> <p>Daily</p> <p>Monthly</p> <p>22<sup>nd</sup> May 2022</p>
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- ***Projects manpower, equipment's, materials:***

15. Ahmedzai Subproject manpower is 100-120 persons, WRB Quetta is 15 technical and 20-25 skilled/unskilled labors and 170 persons on Karakh Valley Development Sub-project Mula River Basin during reporting period. List of Machinery/equipment's of both sites has been given in Table 6.

**Table 6- List of Machinery/Equipment's**

<b>Name of Machine</b>	<b>Ahmedzai subproject NCB 08</b>	<b>Karakh Valley sub-project NCB 01</b>	<b>Water Resources Building, Quetta NCB 05</b>
Excavator	2	3	1
Roller	1	6	1
Grader	1	3	1
Loader	1	2	
Transit Mixer	1	2	
Dumper	1	10	
Tractor 240	1		
Tractor 385	1		
Tractor	5		
Pickup	2		
Generator	2	1 (Heavy)	
Tractor with Trolley		9	2
Water Bowser			1
Batching Plant		1	
Diesel Tank		1	
Tractor with Blade		1	
Mechanical Hand Mixture Machine		1	
Water Tank		5	
Water Pump for dewatering		1	
Jack Hammer		1	
Light Travelling Vehicle		6	
Welding Plants		1	
Motor Cycle		8	

**Table: 7- Detail of material and sources of Ahmedzai subproject NCB 08 are as under**

<b>Sr. No.</b>	<b>Name of Material</b>	<b>Source of Material</b>	<b>Quantities Used</b>
1	Cement	Fauji Cement Ltd, Mapple Leaf	60000 bags
2	Steel	Agha Steel Pvt Ltd Karachi	595 tonne
3	Earth work/fill	Borrow Material from site	130000 cu.m

- **COVID-19 arrangements.**

16. It was assured that Labour working is provided PPEs, face masks. Social distancing during work is being assured to control probability of spreading of pandemic. Social distance for minimum 6 ft is being assured from one person to another person at sites where workers have to work in groups. However, some workers were noticed working without using facemasks and properly wearing PPE's. SOPs issued by provincial government of Balochistan and National Command and Operation Centre (NCOC) government of Pakistan, are being followed.

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

17. The main 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 35 workers on site, including professional and technical personnel, workers, drivers, and operators associated to canteen tasks.

18. 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



**Figure 1: Camp Location of Ahmedzai Subproject**

19. For the construction activities borrow areas have been selected for the extraction of materials which are already approved by the Engineers. Borrow Area Management Plan has been prepared by contractor that pertains to the measures that need to be incorporated during identification of borrow area location, material extraction and rehabilitation.
20. Water Resources Building, Quetta site is located at very congested place in the city. Contractor has taken three rooms along site for labour accommodation. Water dispenser is available to provide safe drinking water. Toilet facilities are present at site.

**Figure 2: Site and staff residency location (Water Resources Building, Quetta)**

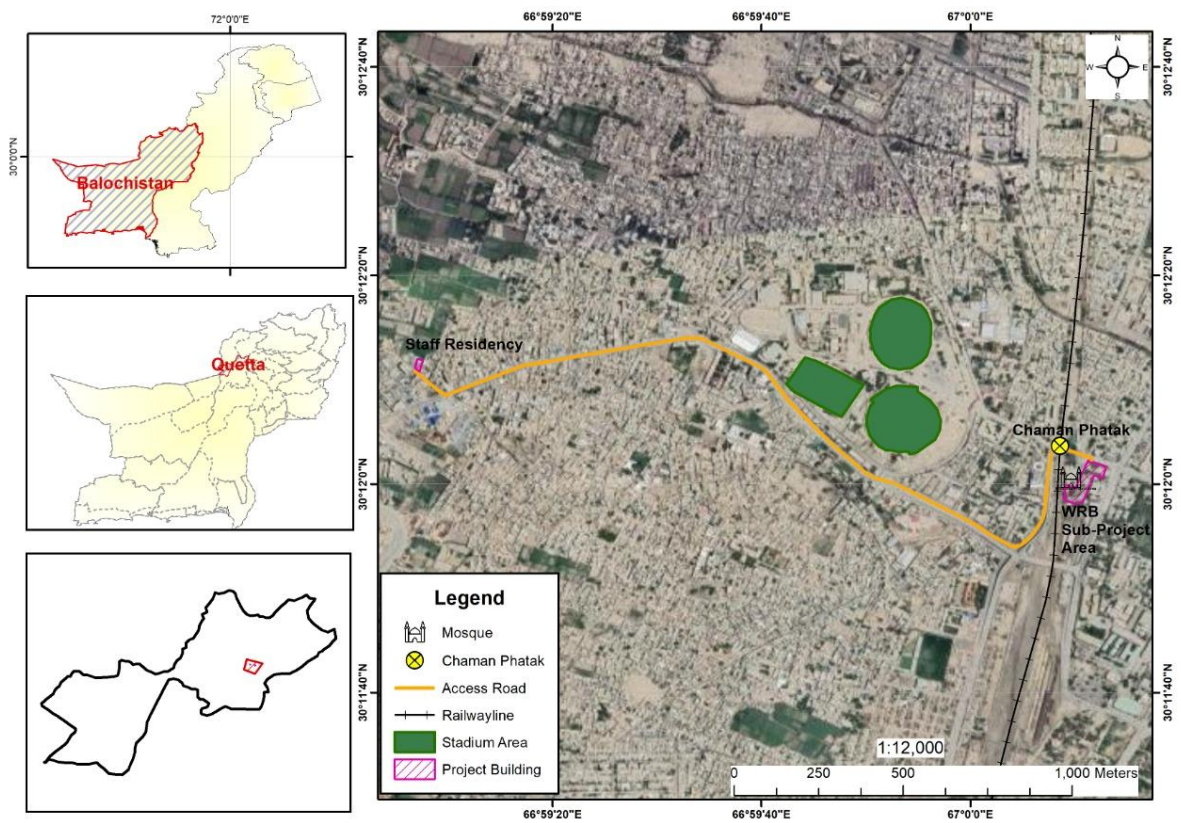
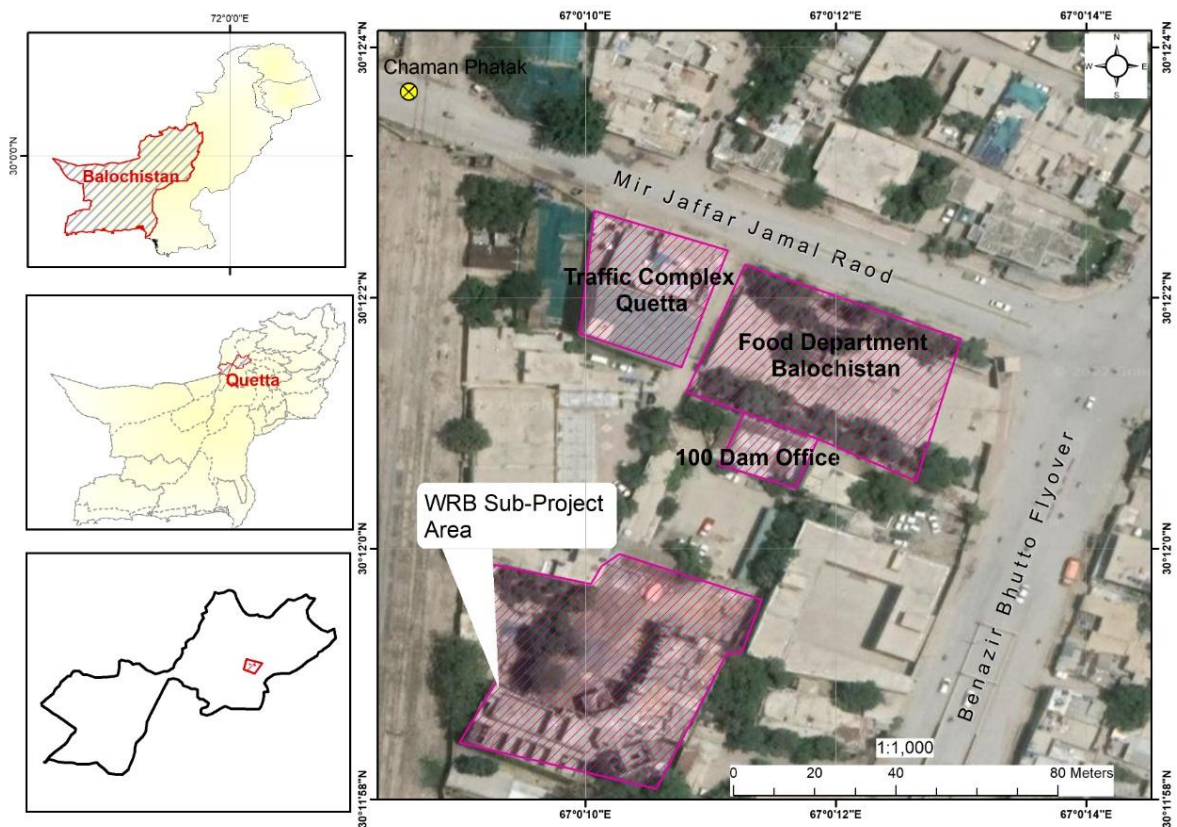


Figure 3: WRB, Sub Project site in Quetta

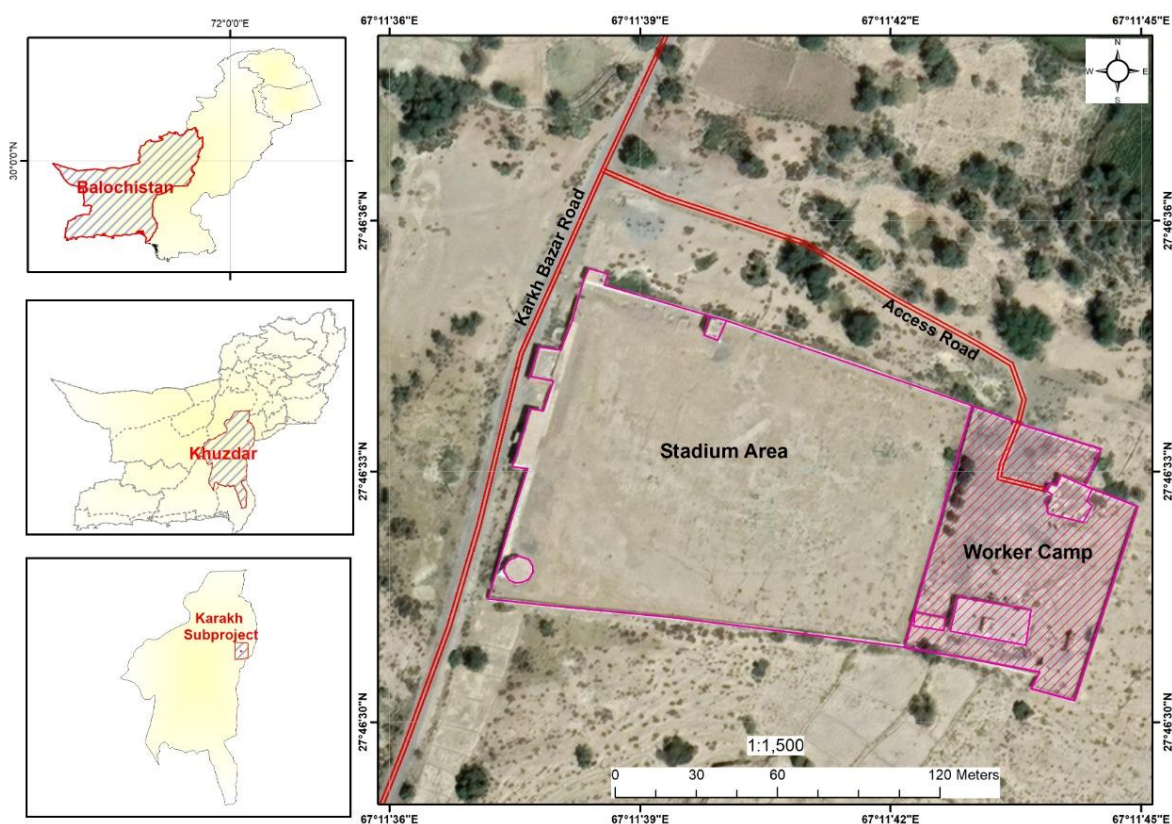


21. There was plinth concrete activity at WRB, Quetta. Detail of material and sources of BWR Building NCB 05 subproject are as under

**Table: 8- Detail of material and sources of BWR NCB 05 are as under**

Sr. No.	Name of Material	Source of Material	Quantities Used
1	Cement	Lucky Cement & DG Cement	28000 Bags
2	Steel	Agha Steel Pvt Ltd Karachi	550 Tons
3	Earth work/back filling	Yarro Sand	88000 CFT
4	Aggregate	Aggregate	85000 CFT
5	Sand Concrete	Yarro Sand	60000 CFT
6	Bricks	SPL & NSR Bricks Company	450000 No.s

22. 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.



**Figure 4: Camp Location of Karakh Subproject**

**Table: 9- Detail of material and sources of Karakh Valley Development subproject 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	

**- Emergency Response Arrangements:**

23. Emergency response plan has been drafted (as described below) and being implemented.
24. Emergency response procedure and contact detail shall be displayed in the project area at site, to whom may be contacted in the event of fire as elaborated hereof: -
- Site Supervisor
  - Environmental Engineer
  - Fire Brigade
  - Nearby Doctor
  - Nearby Hospital
25. 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.

**2.4 Description of Any Changes to Project Design**

26. 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**

27. 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**

28. During the reporting period, BWRDSP consultants carried out environmental and social monitoring only under Subprojects NCB 01, NCB-05 and NCB-08, since other subprojects did not start yet (Kharzan Hitachi Infiltration Gallery Sub-project NCB 02 and Siri Toi Dam ICB 01). The field visit was carried out by SC Environmental Specialist along with contractor Environmental Engineer through site inspections. Environmental Safeguard staff of all contractors was on site (Table 1). The Contractor's environmental team performed the day-to-day inspection on the construction sites and implemented measures per EMP.

#### **3.2 Site Inspection**

29. No formal audits have been conducted yet. 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)**

30. During the reporting period the BWRDSP Consultants noted that under Sub-Project NCB-08 and NCB-05 contractor is properly working for the environmental compliance noted during the site visits. As early months of the Contractor's performance were considered as capacity building phase, only verbal non-conformances were discussed between BWRDSP Consultants Environmental Specialists (Dr. Akhtar Iqbal), (Sibghat Ullah Khan) and Contractor's Environmental Engineer (Faheem Akbar). As part of the environmental monitoring support being provided by PMO, sample daily, weekly and monthly environmental monitoring checklists were timely submitted to consultant by the Contractor staff (Annexures I-III). The checklists were based on the EMP that was developed for each sub-project.

31. Consultants noted some non-conformances under Sub-Project NCB-01. Considering the contractors lack of experience in environmental management, the BWRDSP Consultants issued Non-Conformance Notices on 21<sup>st</sup> March 2022 during the reporting period, while working daily and weekly with the Contractor to enhance its skills and knowledge to perform the Environmental Management Plan and SSEMP. Therefore, SSEMP was corrected and again submitted to the client office for submission to ADB

on 5<sup>th</sup> July 2022. However, it should be noted that it took a several months period for the Contractor of NCB 01 to understand, prepare and submit SSEMP.

32. As these 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.
33. 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.
34. There are no opened issues as of end of reporting period under Sub-Projects NCB-05 and NCB-08.

### **3.4 Trends**

35. 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.

### **3.5 Unanticipated Environmental Impacts or Risks**

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

### **3.6 Grievance Redressal Mechanism (GRM)**

37. Grievance Redressal Committee's has been formed, Client has prepared draft notification of GRC's to be notified within a week. No grievance is received up till the reporting period at all project site because each project site is in closed vicinity and have no direct public interaction.

## **4 RESULTS OF ENVIRONMENTAL MONITORING**

### **4.1 Overview of Monitoring Conducted during Current Period**

38. Overview of environmental monitoring conducted during January-June 2022 is as under and pictures are attached as **Annexures**.

#### **4.1.1 Air Quality**

39. 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.

40. 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. Visual observations were also made for fitness of the vehicles to minimize the smoke emissions. The consultant environment specialist informed the contractor that the dust should be reduced to maximum possible level through sprinkling of water on katcha tracks, stockpiles and covering trucks carrying sand with trapulin . Ambient Air quality monitoring should be done through certified laboratory . Contractor vehicles and construction equipments must comply NEQS. so that the air quality may not affect the workers and the surrounding environment including the native people.

#### **4.1.2 Noise and Vibration**

41. During visits to the sub-project sites, no significant non-compliance issues with regards to 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.

42. 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. 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.

43. 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.

#### **4.1.3 Surface Water and Ground Water**

44. Construction activities have the potential to cause damage to surface water resources at Ahmedzai and Karakh sub-project. 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.

#### **4.2 Trends**

45. 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 due to unsecure conditions no Environmental lab was willing to conduct monitoring .

#### **4.3 Summary of Monitoring Outcomes**

46. Contractor should do Instrumental monitoring of environmental parameters as per requirements of EMP. Quarterly Environmental monitoring should be conducted in timely manner.

#### **4.4 Material Resources Utilisation**

##### **4.4.1 Current Period**

47. Material resources utilization is necessary to meet the objectives of the project and to satisfy the client's requirements. During reporting period, the Contractor faced financial problems which affected the project progress. The contractor's construction resources include:

- Materials
- Construction plant, tools and equipment
- Human Resources
- Space and facilities

- Subcontractor
- Finance

#### **4.5 Waste Management**

48. 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

##### **4.5.1 Current Period**

###### **I. Karakh Valley Development Sub-project Mula River Basin**

49. There is no any properly designated area selected by the contractor for waste material. All waste should be removed immediately from temporary camp site as it creates nuisance.

###### **a. Kitchen and General/Domestic Waste**

50. 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 selected 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**

II. 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.

###### **Ahmedzai Subproject**

51. For proper general/domestic waste management, project area has a temporarily designated waste area where waste is dumped. 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 Municipal collection point. Construction waste is being used to strengthen the walkways or reused in sub base course of the new road where possible.

52. 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.

### **III. Water Resources Building**

53. 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**

54. 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**

55. 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 are collected at one designated location will sent to incinerator for safe disposal accordingly. As far as other hazardous waste are concerned, are being transported to disposal sites in a vehicle. Moreover, hazardous waste like oily drums are kept in the project site to become completely dry and will be sold to third party junk dealers accordingly.

### **4.5.2 Cumulative Waste Generation**

56. For all project sites, the Contractor was advised that organic waste should be disposed-off into waste pit. Construction waste should be removed immediately from site as it creates nuisance. It was ensured that the Contractor's housekeeping staff is mobilized for the removal of solid waste.
57. Contractors were advised that all the hazardous waste from workshop should be stored into different drums and segregated at the spot. The used mobile oil should be stored into drums and sell through commercial department for recycling. Used vehicle filters should be stored into drums and should also be handed over to store that will sell it through commercial department for recycling. Batteries should be

drained and flushed before disposal, and the residual acid diluted and neutralized, should be discharged into the soakage pits.

#### **4.6 Health and Safety**

##### **4.6.1 Community Health and Safety**

###### **Karakh Valley Development Sub-project NCB 01**

58. NCB 01 contractor has recently involved HSE supervisor named Atta Ullah. Who is assisted by consultant team to re-submit SSEMP as soon as possible. SSEMP is being corrected and resubmitted to client office for ADB comments/review. The contractor HSE supervisor is assisted by the consultant team to submit monthly environmental monitoring report to consultant office. Moreover, No incidents related to the community health and safety has been occurred or reported yet.

###### **Ahmedzai Sub-project NCB 08**

59. 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:
60. 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.

###### **Water Resources Building NCB 05**

61. 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 was cordoned off, especially where machinery is involved, was barricaded and constantly monitored to ensure that local residents, particularly children stay away from construction area. No incidents related to the community health and safety has been occurred during the current reporting period.

##### **4.6.2 Worker Safety and Health**

###### **Karakh Valley Devepolemnt Sub-project NCB 01**

62. NCB 01 contractor has recently involved HSE supervisor named Atta Ullah. Who is assisted by consultant team to re-submit SSEMP as soon as possible. SSEMP is being corrected and resubmitted to client office for ADB comments/review. Moreover, No incidents related to the workers' health and safety has been occurred or reported yet.

#### **Ahmedzai Subproject NCB 08**

63. The provision of adequate First Aid facilities on priority basis was ensured. Construction activities 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 considered the mandatory step in health and safety management system. No significant incidents related to the workers' health and safety have been occurred during the current reporting period. Contractor was maintaining record of number of patients, injuries (minor, major), fatality, Covid-19 positive etc.

#### **Water Resources Building NCB 05**

64. First aid medical facility was 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. Contractor was not maintaining record of number of patients, injuries (minor, major), fatality, Covid-19 positive etc.

### **4.7 Training**

65. One day GAP orientation session was conducted in PMO office on date 22<sup>nd</sup> May 2022.



GAP Orientation session in PMO office



GAP Orientation in PMO office

### **HSE Training by Contractor**

66. The contractor conducted the HSE training for their workers and administrative staff. The trainer was well qualified and having broad knowledge of handling HSE issues during construction. The training was arranged by the Contractor for safety awareness regarding execution of works with the summary of trainings conducted provided. The laborers were encouraged to participate in this training and advised that safety should be ensured on first priority. HSE training was delivered on following topics:

- Use of PPEs
- Slip, Trip and fall Hazards
- Access Paths
- Safety of Scaffolding
- Oil Spillage
- Electrical Wires Hazards
- Noise Hazards

#### **4.8. Corrective Action Plans (CAPs):**

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

**Table 10- 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	January-June 2022	CSC	SSEMP is not approved	Major	SSEMP submitted to client office for ADB comments	Contractor	15th November 2021	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.	Contractor	30th 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	30th 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	Contractor	30th November 2021	Still awaited/open
5			Improper Toilet facilities with unhygienic condition.	Moderate	Washrooms should be with sufficient facilities and hygienic condition	Contractor	30th November 2021	Still awaited/open

6			Scarcity of Safety signs	Moderate	Proper safety signs should be installed by the Contractor	Contractor	30th 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	30th 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	Still awaited/open
9			Daily/weekly Environmental checklists are not being filled.	Moderate	Daily/weekly Environmental checklist should be filled on regular basis	Contractor	30th November 2021	Still awaited/open
10			Arrangement of waste disposal and management.	Major	Routinely	Contractor	30th November 2021	Still awaited/open

**Table 11- 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	January-June 2022	CSC <sup>1</sup>	Water Resources Building, Quetta	SSEMP is submitted by contractor	Major	SSEMP is already submitted and approved	Contractor	27th February 2022	Closed
2				Scarcity of safety signs	Moderate	Proper safety signs should be installed by the Contractor.	Contractor	15th March 2022	Closed
3				Unhygienic Toilet condition	Moderate	Washrooms should be with sufficient facilities and hygienic condition	Contractor	15th March	Closed
4				Improper Toilet facilities and unhygienic condition	Moderate	Washrooms should be with sufficient facilities and hygienic condition	Contractor	15th 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	15th March 2022	Closed

<sup>1</sup> Construction Supervision Consultants

**Table 12- 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	January-June 2022	CSC	Ahmedzai Irrigation Subproject	SSEMP is submitted	Major	SSEMP submitted for ADB review	Contractor	13th July 2022	Closed
2				Scarcity of safety signs	Moderate	Proper safety signs should be installed by the Contractor	Contractor	31st July 2022	Still awaited/open
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	31st July 2022	Still awaited/open
5				Weekly Environmental Report/Checklist	Moderate	Weekly Environmental Report/Checklist submission is maintained properly	Contractor HSE Supervisor	31st 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	31st July 2022	Closed
7				Improper Toilet facilities and unhygienic conditions	Moderate	Washrooms should be with sufficient facilities and hygienic conditions	Contractor	31st 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	31st July 2022	Closed
9				Environmentalist/HSE advisor has been hired	Major	Environmentalist/HSE advisor has been hired for monitoring Environmental Compliance	Contractor	March 2022	Closed
10				Arrangement of waste disposal and management.	Major	Routinely	Contractor	30th November 2021	Still awaited/open

January- June 2022

## **5 FUNCTIONING OF THE SSEMP**

### **5.1 SSEMP Review**

68. SSEMP for NCB 05 and NCB 08 have been reviewed by ADB and approved, it shall be used for implementation of required mitigation measures and their monitoring.
69. SSEMP of Karakh Valley Development Subproject NCB 01 has been submitted to the client office on 7<sup>th</sup> July 2022 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.

## **6 GOOD PRACTICE AND OPPORTUNITY FOR IMPROVEMENT**

### **6.1 Good Practice**

70. The good practices are mentioned as:

#### **Karakh Valley Development Subproject/ Ahmedzai Subproject**

- Establishment of Contractor's camp is within the permissible standards and Parameters
- Flora and Fauna are not unnecessarily damaged
- 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.

#### **Water Resources Building**

- Contractor has taken very strict action to avoid the corona virus contract.
- Frequent water sprinkling was observed to avoid dust pollution.
- Warning tapes near construction activities, material storage and cement bags are properly maintained.
- A good liaison is established between PMO, Supervisory consultant and contractor to follow the environmental safeguard guidelines.

### **6.2 Opportunities for Improvement**

71. 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, implementation of working hours etc.
- Training sessions must be conducted more frequently
- Reporting period and quarterly environmental monitoring timeline should be followed strictly.
- The trucks carrying construction material should be covered with tarpaulin sheet to avoid dust pollution.
- Awareness training of workers to control the spread of COVID-19 epidemic and safety on construction site.

- Visitors / meetings in closed room should not be allowed or cancelled and safety signs regarding Covid-19 be displayed.
- 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.
- HSE Supervisor should be present at site throughout construction period.

#### **Water Resources Building**

- Reporting period timeline should be followed strictly.
- 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.
- Awareness training of workers to control the spread of COVID-19 epidemic and safety on construction site.
- Environment Specialist should be present at site throughout construction period.

## **7 SUMMARY AND RECOMMENDATIONS**

### **7.1 Summary**

#### **Ahmedzai Subproject**

72. 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 weir and irrigation channels.

#### **Water Resources Building**

73. 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.

#### **Karakh Valley Development Subproject**

74. The overall Health Safety & Environment (HSE) implementation is unsatisfactory because the Contractor is still unable to prepare SSEMP. 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.

### **7.2 Recommendations**

75. The following recommendation should be applied to all the subprojects i.e. Karakh subproject, Ahmedzai Subproject, and Water Resources Building Subproject
- 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.

- Reflect all major findings and recommendations of this report in the next SAEMR.
- Moreover, due to COVID-19 restrictions on interprovincial movement, EPA approved labs from Lahore Karachi could not travel freely. Hence quarterly monitoring could not start. It has been planned to do it regularly in future.
- Record of HSE cases (Covid-19, injuries, accidents, and fatalities) and daily/weekly record of quantum of solid waste, usage of water other resources like fuel, water, materials etc should be properly maintained by contractor.

# 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 & Project Sites Date: 02/10/2022

**Weekly Monitoring Check List**

Description	Status	Comments
<b>A- Physical Condition</b>		
<b>1- Soil Conditions</b>		
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>2- Fuel / Lubricants</b>		
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	
<b>3- Waste Material</b>		
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	
<b>4- Traffic Management</b>		
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	
<b>5- Borrow Areas</b>		
Is necessary approval for the borrow areas been obtained from the Engineer?	<input checked="" type="checkbox"/> Yes <input 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	
<b>6- Camp Site</b>		
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	April 2022
<b>Major Adverse Impacts (weightage 0-3)</b>						
1	Copy of the Site specific EMP is provided at the camp site/contractors office?	2	2	2	2	2
2	The EMP instructions are understood?	1	1	2	2	1.5
3	An individual is nominated for implementation of EMP?	1	2	2	3	2
4	Camp Management, Health & Hygiene/ Heating, Cooling, Lighting and Housekeeping	1	2	2	3	2
5	Assembly Point is demarcated, alarming system.	1	1	2	2	1.5
6	Workforce use PPE at site?	1	2	2	2	1.75
7	Contractor provided PPE to their workforce?	1	1	2	2	1.5
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?	1	2	2	2	1.75
10	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	2	2	3	3	2.5
11	Contractor maintained Grievances Log and registered the complaints from community?	1	1	1	2	1.25
12	Contractors prohibited child labor and forced labor?	2	3	3	3	2.75
13	Borrow area is leased and the landowner is compensated as per a lease agreement?	2	2	3	3	2.5
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
<b>Moderate Adverse Impacts (weightage 0-2)</b>						
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	2	2	2	2
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?	2	2	2	2	2

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**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: Constuction of Ahmedzai Perennial & Flood Irrigation Subproject.						
Environmental Compliance Checklist:						
Sr. No	Description	Week				Monthly Avg
		1	2	3	4	April 2022
21	Arrangement for proper storage and disposal for solid waste is planned?	1	1	2	2	1.5
22	Safety signs are properly displayed?	0	1	1	2	1
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	2	2	1.5
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?	2	2	2	2	2
28	Top 300 mm are stripped and stockpiled for redressing?	0	0	1	1	0.5
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	1	2	2	1.5
31	Fuel/oil storage areas are away from watercourses?	2	2	2	2	2
32	Fuel/oil storage areas are paved & ventilated	0	0	0	0	0
33	Fire Extinguisher is placed near Fuel Storage area	0	0	1	1	0.5
34	No vegetation covers 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	1	1	1
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	0	0	1	1	0.5
Minor Adverse Impacts & Good Practice Measures (weightage 0-1)						
41	No complaints were made due to noise and vibration?	0.25	0.25	0.5	0.5	0.375
42	Contractor conduct Information, Education and Communication (IEC) campaign	0	0	0	0	0
43	Labor Screening at the time of Induction	0	0	0.5	0.5	0.25

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**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: Constuction of Ahmedzai Perennial & Flood Irrigation Subproject.						
Environmental Compliance Checklist:						
Sr. No	Description	Week				Monthly Avg
		1	2	3	4	April 2022
44	Fire Extinguisher are placed and checked properly	0	0	0	0	0
45	Contractors hiring of local labor?	1	1	1	1	1
46	Project site is fenced to prevent trespassing?	0.5	0.5	1	1	0.625
47	Generator in the construction camp properly maintained	1	1	1	1	1
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	0.2	0.25	0.5	0.5	0.362
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	0	0.5	0.5	0.25
52	Construction & Maintenance of Walkways	0.5	0.5	0.5	0.5	0.5
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	0.5	1	1	1	0.875
55	Water Sprinkling Record is available	0.5	0.5	0.5	0.5	0.5
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	0	0	0
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	0.5	0.5
60	Construction machinery parked at designated areas?	0.5	0.5	0.5	1	0.625
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	0.5	0.5
64	Social Framework Agreement is prepared and signed	0	0	0.5	0.5	0.25
65	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
<b>Total Weightage (out of 116)</b>						<b>78.99</b>
Monthly Percentage						<b>68.09</b>
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 Water Resources Building at Quetta



**Annexure-I**

**Weekly Monitoring Checklist**



NCB-05 Construction of Water Resources Building at Quetta



Project Name: Construction of Water Resources Building Package # NCB-05

Monitoring Location: Camp & Signal Site Date: 02/04/2022

**Weekly Monitoring Check List**

Description	Status	Comments
<b>A- Physical Condition</b>		
<b>1- Soil Conditions</b>		
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>2- Fuel / Lubricants</b>		
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 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 type="checkbox"/> Yes <input type="checkbox"/> No	
<b>3- Waste Material</b>		
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	
<b>4- Traffic Management</b>		
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 Water Resources Building at Quetta



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 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: *E. Q. P.* PIC Environmentalist: *A. S.*



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



NCB-05 Water Resources Building at Quetta



### Annexure-II

### Monthly Monitoring Checklist



NCB-05 Water Resources Building at Quetta



#### Monthly Monitoring Checklist

Name of the Project: Construction of Water Resources Building						
Environment Compliance Checklist						
Sr. No	Description	Week				Monthly Avg
		1	2	3	4	April 2022
<b>Major Adverse Impacts ( weightage 0-3)</b>						
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?	1	2	2	3	2
3	An individual is nominated for implementation of EMP?	2	2	3	3	2.5
4	Camp Management, Health & Hygiene/ Heating, Cooling, Lighting and Housekeeping	3	3	3	3	3
5	Assembly Point is demarcated, alarming system.	1	1	1	1	1
6	Workforce use PPE at site?	1	1	2	2	1.5
7	Contractor provided PPE to their workforce?	1	2	2	2	1.75
8	Potable water is available to labor?	2	2	3	3	2.5
9	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	1	1	2	3	1.75
10	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	2	2	2	2	2
11	Contractor maintained Grievances Log and registered the complaints from community?	1	1	2	2	1.5
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	3	3	3	2.75
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	2	3	3	3	2.75
<b>Moderate Adverse Impacts ( weightage 0-2)</b>						
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	1	2	1.25
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?	2	2	2	2	2

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Name of the Project: Construction of Water Resources Building						
Environmental Compliance Checklist						
Sr. No	Description	Week				Monthly Avg
		1	2	3	4	April 2022
21	Arrangement for proper storage and disposal for solid waste is planned?	1	1	1	2	1.25
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	2	2	2	1.75
24	Contractors followed HSE plan and Emergency Response Procedures	1	1	1	2	1.25
25	Contractors properly disposes debris materials in approved barren land/ TMA facilities preferably recycling, reuse process?	1	1	2	1	1.25
26	Natural areas with high elevation are normally selected as borrow areas?	2	2	2	2	2
27	Minimum damage to the agriculture land due to borrow pits on agriculture land?	1	2	2	2	1.75
28	Top 300 mm are stripped and stockpiled for redressing?	1	1	2	2	1.5
29	Stockpiling of Material, Construction Material Management	1	2	2	2	1.75
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	0	0	1	1	0.5
33	Fire Extinguisher is placed near Fuel Storage area	1	1	2	2	1.5
34	No vegetation cover aside from that required as part of construction and inside the RoW removed?	1	1	1	2	1.25
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	0	1	1	0.5
38	Batching Plant properly managed, no complaints	0	0	0	0	0
39	Maintenance of Roads, Hospitals, Buildings. Sewage facilities, Electric and water supply system	0	1	1	1	0.75
40	Project activities are displayed at proper locations	0.5	0.5	0.5	0.5	0.5
Minor Adverse Impacts & Good Practice (weightage 0-1)						
41	No complaints were made due to noise and vibration?	0	0.5	0.5	0.5	0.375
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	0.5	0.5	1	1	0.75
44	Fire Extinguisher are placed and checked properly	0.25	0.25	0.25	0.25	0.25

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Name of the Project: Construction of Water Resources Building						
Environmental Compliance Checklist						
Sr. No	Description	Week				Monthly Avg
		1	2	3	4	April 2022
45	Contractors hiring of local labor?	1	1	1	1	1
46	Project site is fenced to prevent trespassing?	0.5	0.5	1	1	0.75
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?	0.25	0.25	0.25	0.25	0.25
49	Adequate barriers are provided around areas where hazards may exist	0.25	0.25	0.5	0.5	0.375
50	Spilled oil or fuel and used clean up material being disposed of properly	0.25	0.25	0.5	0.25	0.312
51	Waste segregation at source	0.25	0.25	0.25	0.25	0.25
52	Construction & Maintenance of Walkways	0.5	0.5	0.5	0.5	0.5
53	Dust Generation during construction well managed and record exists	0.25	0.25	0.5	0.5	0.375
54	Number of routes kept to a minimum	1	1	1	1	1
55	Water Sprinkling Record is available	0.5	0.5	0.5	0.5	0.5
56	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow.	0.5	0.5	0.5	0.5	0.5
57	Photographic Record of Roads and agricultural fields is being maintained.	0.25	0.25	0.25	0.25	0.25
58	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	0.5	1	1	1	0.875
59	Spills and leak thoroughly cleaned	0.25	0.25	0.5	0.5	0.375
60	Construction machinery parked at designated areas?	0.25	0.25	0.25	0.25	0.25
61	Traffic issues managed well, no complaints on record	0.5	0.5	1	1	0.75
62	Daily, Weekly & Monthly Checklists are filled regularly	1	1	1	1	1
63	Storage of Hazardous Material in designated areas. MSDS available	0.25	0.5	0.5	0.5	0.437
64	Social Framework Agreement is prepared and signed	0	0	0.25	0.25	0.125
65	Construction activities carried out in daylight to reduce the impact of noise	0.5	0.5	0.5	0.5	0.5
<b>Total Weightage (out of 116)</b>						<b>77.87</b>
<b>Monthly Percentage</b>						<b>67.13%</b>
Key: (Percentage)						
100 = Excellent						
above 80 = Good						
above 60 = Average						
above 40 = Below Average						
Below 30 = Unsatisfactory						



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**ANNEXURE V: Training Attendance and Photographs Ahmedzai Irrigation Sub-Project NCB 08 January 2022**



Annexure-III

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



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: <u>Pollution &amp; its impacts on Human health.</u>			Date: <u>11-01-2022</u>
S. No.	Name	Designation	Signature
01	M. Usman	Site Incharge	<i>[Signature]</i>
02	Javed Iqbal	Accountant	<i>[Signature]</i>
03	Dilawar Khan	Supervisor	<i>[Signature]</i>
04	Qureshi	Surveyor	<i>[Signature]</i>
05	Abdul Aziz	Lab Helper	<i>[Signature]</i>
06	Hidayatullah	Labor	<i>[Signature]</i>
07	Jalaluddin	Labor	<i>[Signature]</i>
08	Imran Zai	Labor	<i>[Signature]</i>
09	Wajid	Shuttering	<i>[Signature]</i>

Trainer Signature: *[Signature]*



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



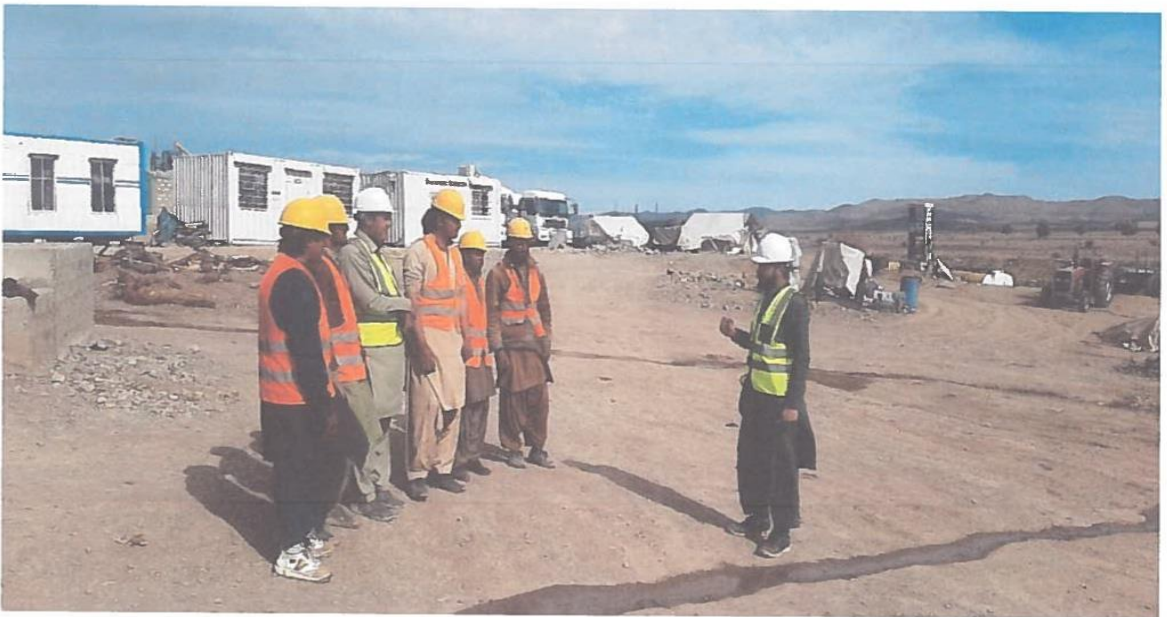
Annexure-IV

Photographic Record of Training





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







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



Annexure-IV

Photographic Record of Training





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



Annexure-V

Photographic Record of Site





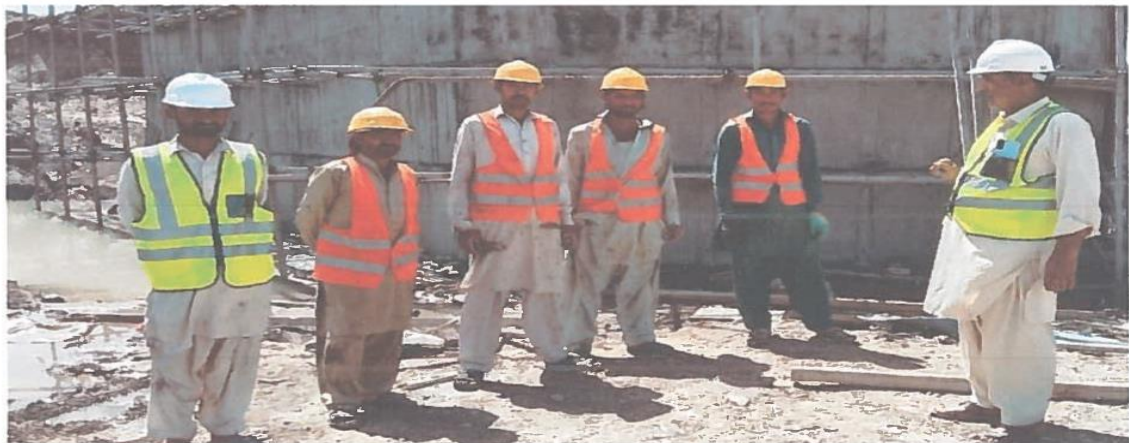


Construction of Ahmedzai Perennial & Flood Irrigation  
Sub Project Zhob River Basin



Annexure-IV

Photographic Record of Training



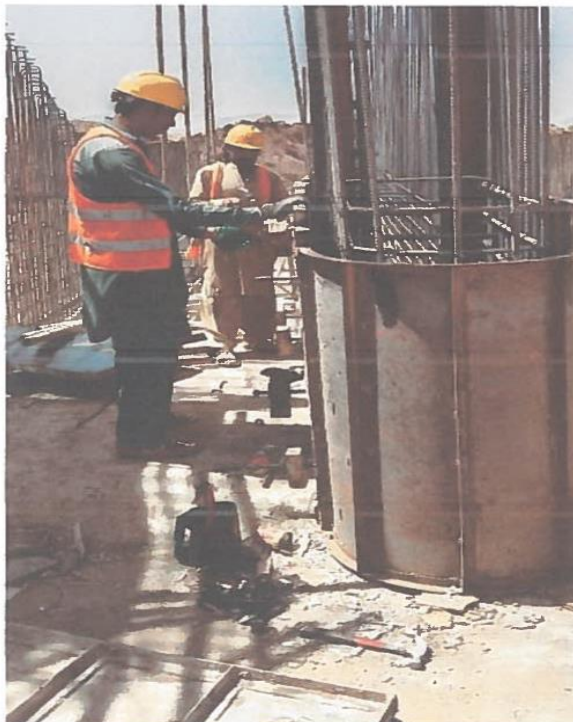


Construction of Ahmedzai Perennial & Flood Irrigation  
Sub Project Zhob River Basin



Annexure-V

Photographic Record of Site



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**ANNEXURE VI: Training Attendance and Photographs BWR Building Quetta Sub-Project NCB 05 January 2022**



NCB-05 Water Resources Building at Quetta



Annexure-III

Training Attendance Sheet



NCB-05 Construction Water Resources Building at Quetta



Training Attendance Sheet			
Topic: <i>Daily Maintenance of Machinery/ Equipments</i>			Date: <i>06-01-2022</i>
S. No.	Name	Designation	Signature
	<i>Nadir Jan</i>	<i>Foreman</i>	<i>[Signature]</i>
	<i>Ashique</i>	<i>Surveyor</i>	<i>[Signature]</i>
	<i>Khalid Khan</i>	<i>Supervisor</i>	<i>[Signature]</i>
	<i>Shahzaib</i>	<i>Shuttering</i>	<i>[Signature]</i>
	<i>Azeem</i>	<i>Shuttering</i>	<i>[Signature]</i>
	<i>Hussain Bux</i>	<i>Steel Fixer</i>	<i>[Signature]</i>
	<i>Sajid</i>	<i>Helper</i>	<i>[Signature]</i>
	<i>Subhan</i>	<i>Helper</i>	<i>[Signature]</i>
	<i>Sajid</i>	<i>Steel Fixer</i>	<i>[Signature]</i>
	<i>Muhammad</i>	<i>Helper</i>	<i>[Signature]</i>

Trainer Signature: *[Signature]*



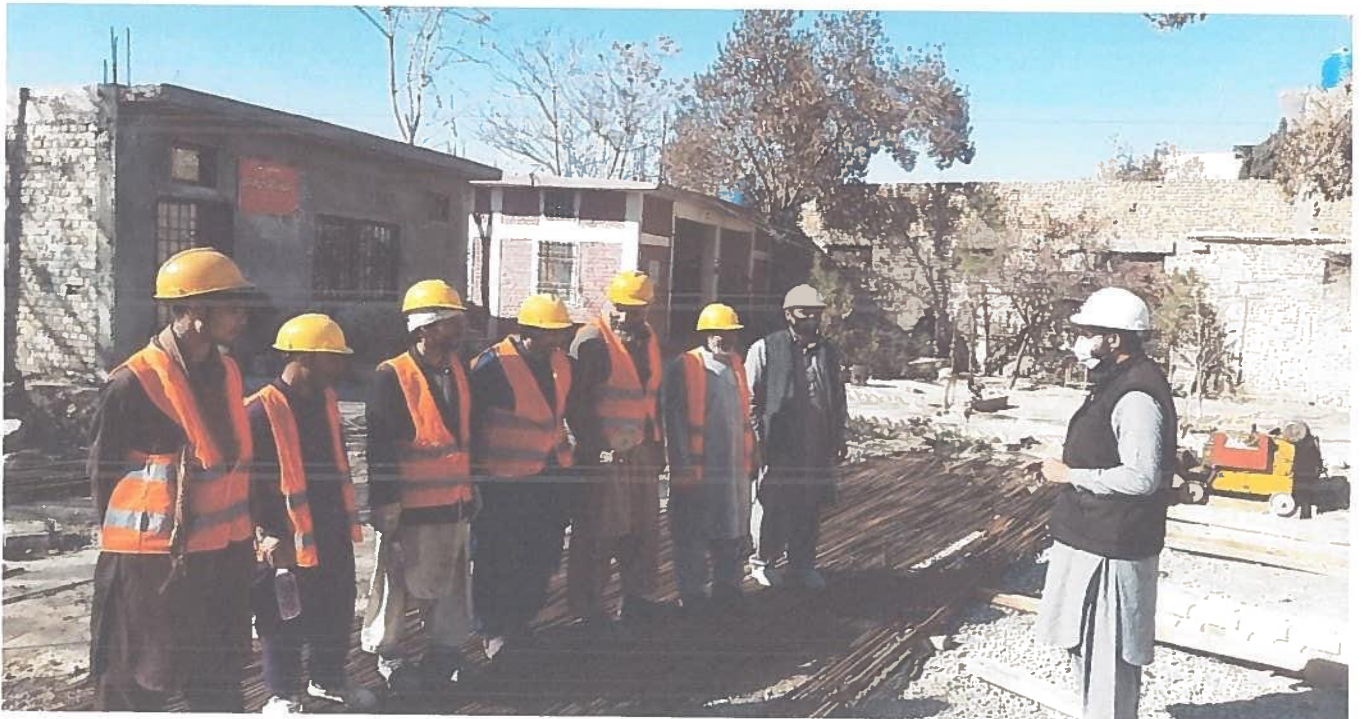
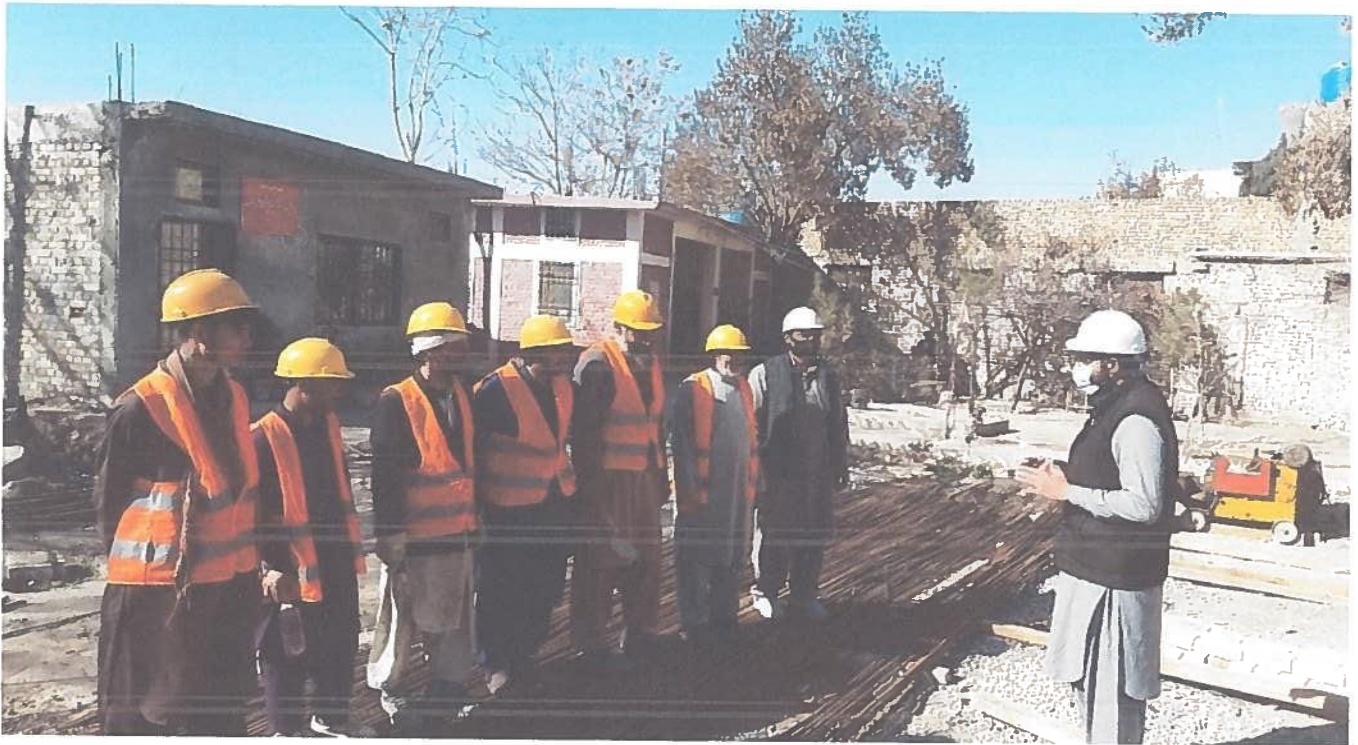


NCB-05 Water Resources Building at Quetta



Annexure-IV

Photographic Record of Training



**Training Attendance and Photographs BWR Building Quetta Sub-Project NCB 05  
February 2022**



NCB-05 Water Resources Building at Quetta



**Annexure-III**

**Training Attendance Sheet**



NCB-05 Construction Water Resources Building at Quetta



Training Attendance Sheet			
Topic: <u>Waste Management</u>		Date: <u>16-02-2022</u>	
S. No.	Name	Designation	Signature
	<u>Khulpan Alan</u>	<u>Supervisor</u>	<u>[Signature]</u>
	<u>Shahzaib</u>	<u>Shuttering</u>	<u>[Signature]</u>
	<u>Azeem</u>	<u>Shuttering</u>	<u>[Signature]</u>
	<u>Hussan Bux</u>	<u>Steel Fixer</u>	<u>[Signature]</u>
	<u>Sanwal</u>	<u>Helper</u>	<u>[Signature]</u>
	<u>Subhan</u>	<u>Helper</u>	<u>[Signature]</u>
	<u>Mushafiq</u>	<u>Helper</u>	<u>[Signature]</u>

Trainer Signature: [Signature]





**Annexure-IV**

**Photographic Record of Training**



**Training Attendance and Photographs BWR Building Quetta Sub-Project NCB 05  
April 2022**



NCB-05 Water Resources Building at Quetta



Annexure-III

Training Attendance Sheet



NCB-05 Construction Water Resources Building at Quetta



Training Attendance Sheet			
Topic: <u>Technique to Work Safely</u> <u>at site</u>		Date: <u>13-04-2022</u>	
S. No.	Name	Designation	Signature
	<u>Khulpan Akam</u>	<u>Supervisor</u>	<u>[Signature]</u>
	<u>Shahzaib</u>	<u>Shuttering</u>	<u>[Signature]</u>
	<u>Azeem</u>	<u>Shuttering</u>	<u>[Signature]</u>
	<u>Mushitajae</u>	<u>Helper</u>	<u>[Signature]</u>
	<u>Tahanzab</u>	<u>Helper</u>	<u>[Signature]</u>
	<u>Sayidur</u>	<u>Helper</u>	<u>[Signature]</u>
	<u>Samund</u>	<u>Helper</u>	<u>[Signature]</u>
	<u>Faraz</u>	<u>Helper</u>	<u>[Signature]</u>

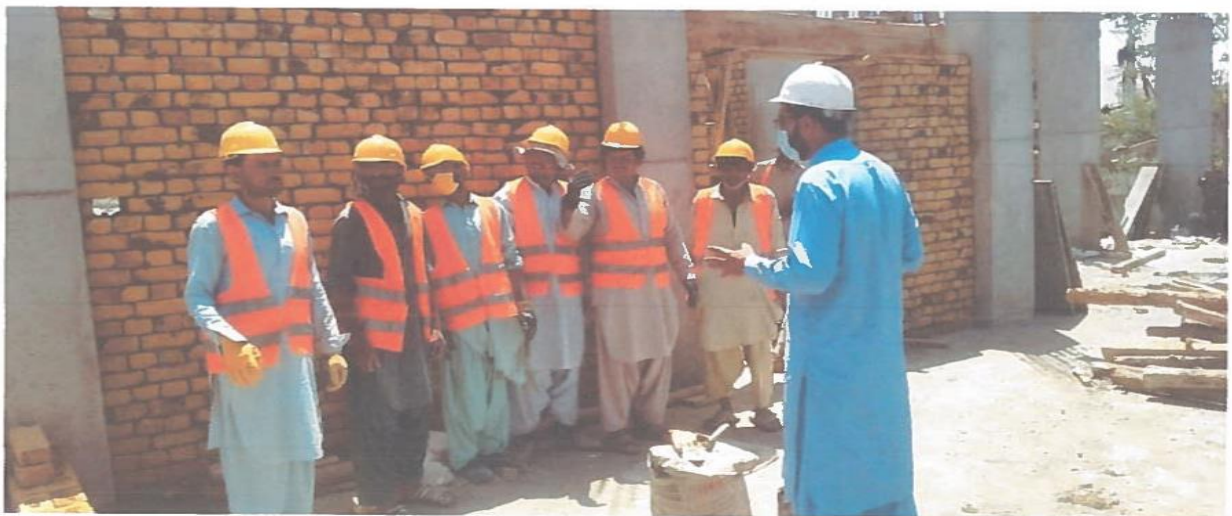
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Annexure-IV

Photographic Record of Training



**ANNEXURE VII: Consultation meetings with stakeholders Solar Power Drip Irrigation System Mula River Basin (MRB) and Zhob River Basin (ZRB)**



Consultation meeting with stakeholders Karakh Mula River Basin for SPDIS



Receiving information from influential person of the community village Karakh



Discussion with the community influential persons



Influential person Jawed Sab expressing his views to welcome the SPDIS Project.



Consultation meeting with the stakeholders Solar Power Drip Irrigation System Zhob River Basin



The local community is willing to participate in SPDIS project



The stakeholders are expressing the views, the consultant team is carefully receiving information.



Discussion with local community

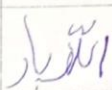
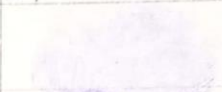

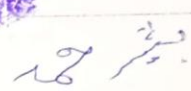
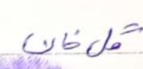
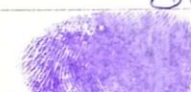
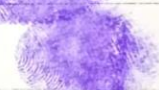
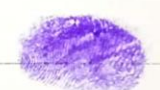
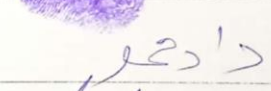



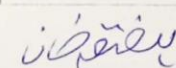
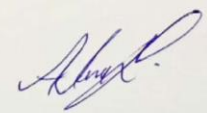
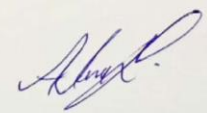
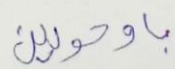


The influential person is expressing his views regarding SPDIS

**Attendance of the participants present in consultation meetings**

(Badinzi)

Annex : List of Consultation Participants of Killi Killi Anubba for Solar Powered Drip irrigation

Sr. No.	Name	Father's Name	Occupation	Sign/Thumb
1	Allah Yar	Haji Malik		
2	DOLAS Khan	Haji Qayyum		
3	Taj - Muhammad	Khaliq - Dad		
4	Muhammad Bashir	Haji Ali - Muhammad		
5	Gul - Khan	Dolas Khan		
6	Din - Muhammad	Haji Malik		
7	Noor - Muhammad	Ali		
8	Naseeb - Khan	Haji Malik		
9	DAD. Muhammad	Ali Muhammad		
10	Asmat - Wlah	Rahmat Khan		
11	Abdullah - Jan	Majeed		
12	Balim Ahmad	Ali Muhammad		
13	Hajta Khan	Abdullah		
14	SAFAR Khan	Johar Khan		
15	ABDUL Ghaffar	Johar Khan		
16	Bawa den	Brahe m		


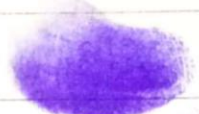


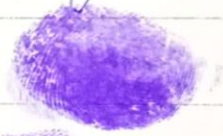


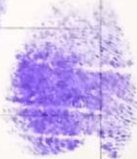

(Badayzai)

Annex : List of Consultation Participants of Killi DARAZAI (ZHOBI) for Solar  
Powered Drip irrigation

Sr. No.	Name	Father's Name	Occupation	Sign/Thumb
①	Allam Gul	Din Muhammad	کارگر	
②	Ghulam Hussan	Suleman		
③	Din-Gul	Din Muhammad	کارگر	
④	Rahmat-ullah	NASAR		
⑤	Habib-ullah	Rahmat-ullah	حیاتی	
⑥	Sultan-Muhammad	Din-Muhammad	کارگر	
⑦	Shah-NADEEM	Mulla-Alim		
⑧	Mehrab-gul	Din Muhammad		
⑨	Saleh-Muhammad	Fajr-Muhammad		
⑩	Gulab Khan	ABOW Kahir	کارگر	
⑪	Syed Hussan	Jamal	کارگر	
⑫	Zareef Khan	SHAH-NOOR Shahn NOOR		
⑬	Shakeen Shah	Shahnnoor Shah		

SHinki  
GTHUNDI


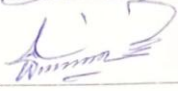
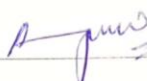




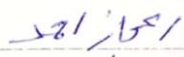
Annex : List of Consultation Participants of Killi \_\_\_\_\_ for Solar  
Powered Drip irrigation

Sr. No.	Name	Father's Name	Occupation	Sign/Thumb
①	ADAM-KHAN	Haji Abdullah	تیار	
②	Baz Gul.	MUSSA.	تیار	
③	Suleman Shah	Karim Shah		
④	Abdul HANAN	Khair-uddin		
⑤	Saba Khan	Johar Khan		صوبان
⑥	Fazal-dad	Kabeem Dad.		فکر داد
⑦	Muhammad-Khan	Jamal Khan		
⑧	Paind Khan	Gul Barram		
⑨	Ghulam-ullah (Abdullah.)	Jamal Khan		Ghulamullah Khan
⑩	Abdullah	Bashaq		
⑪	Naseeb Khan	Jumma Khan		
⑫	Razi Khan	Jumara Khan		
⑬	Najeem Khan	Sheer-Khan		
⑭	Bongul.	Baz-Gul	تیار	صوبان
⑮	AKHTAR Khan.	ABdullah.		صوبان

Annex : List of Consultation Participants of Killi Shamizi Ghundi for Solar Powered Drip irrigation

Sr. No.	Name	Father's Name	Occupation	Sign/Thumb
16	Ahmed-uddin	Dulal Khan		خير الدين
17	Sayyom Shah	Fazal Dad		قيوم شاه
18	Jumma Khan	Habib-ullah		
19	Kutab Khan	Jamal Khan		
20	Sharbat Khan	Abdullah		شربت خان
21	Muhammad Yousaf	Cul Barrom		محمد يوسف
22	Makam Shah	Narim Shah		



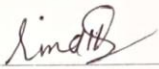
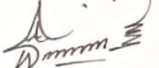
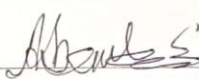
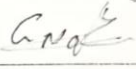

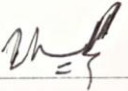

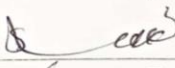
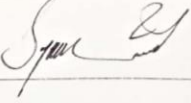
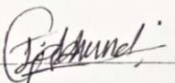
Annex : List of Consultation Participants of Killi Chulla for Solar Powered Drip irrigation

Sr. No.	Name	Father's Name	Occupation	Sign/Thumb
(1)	Abdul Sattar	Bashir Ahmed	Farmer	
(2)	Wazir Ahmed	Mola Bachhu	Former	
(3)	Abdul Ghaffar	Ellahi Bachhu	Former	
(4)	Sikander Khan	Mohammad Abrar	Former	
(5)	Abdul Sahkeer	Abdul Khilja	Former	
(6)	Qazi Hussim Ahmed	Razi Aser	Former	
(7)	Qazi Salman	Qazi Hussim Ahmed	Former	
(8)	Bajaz Ahmed	Mohmd Anwar	Former	

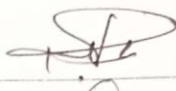
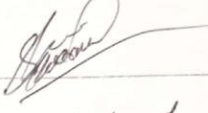
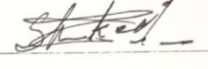


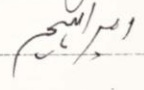
Annex : List of Consultation Participants of Killi Uchhandasi/Sarp for Solar Powered Drip irrigation

Sr. No.	Name	Father's Name	Occupation	Sign/Thumb
1	Abdul Khaliq	Haji Khan	Farmer	
2	Ghulam Rasool	Moh. Anwar	Farmer	
3	Saifullahi	Sar Mohammad	Farmer	
4	Hanif Ahmed	Hassan Moh.	Farmer	
6	Ahsan ul Haq	Abdul Haq	Farmer	
7	Raiz Ahmed	Abdul Karim	Farmer	
8	Abdul Khaliq	Ghulam Nabi	Farmer	
9	Imdad Hussain	Abdul Rahmana	Farmer	
10	Mohammad Parvez	Abdul Raheem	Farmer	

Annex : List of Consultation Participants of Killi Wahandri for Solar Powered Drip irrigation

Sr. No.	Name	Father's Name	Occupation	Sign/Thumb
1	David Ahmad	Baqar Ahmad	Farmer	
2	Samiullah	Kareemullah	Farmer	
3	Zahoor Karim	Abdul Karim	Farmer	
4	Wazeer Ahmed	Mola Bux	Farmer	
5	Abdul Gaffar	Amir Bux	Farmer	
6	Ghulam Nabi	Moh. Anwar	Farmer	
7	M. Asad	Yaqoob Ahmed	Farmer	
8	Ghulam Jaseen	Faiz Mohammad	Farmer	
9	Abdul Rasool	Imam Bux	Farmer	
10	Rahmatullah	Dur Mohammad	Farmer	
11	Shafiq Ahmed	Obaidullah	Farmer	
12	Taj Muhammad	khan Muham-	Farmer	

Annex : List of Consultation Participants of Killi Wahandari sarap for Solar Powered Drip irrigation

Sr. No.	Name	Father's Name	Occupation	Sign/Thumb
1	Rais Abdullah	Ahah Dina.	Farmer	
2	Sajjad Karim	Abdul Karim	Farmer	
3	Shakeel Ahmed	Ghas Bux	Farmer	
4	Shahid Ahmed	Muhammed	Farmer	شاهد احمد
5	Moh. Nawaz	Faiz Ahmed.	Farmer	
6	Faiz Muhammad	Kareemullah.	Farmer	Faiz Ullah.
7	Nazar Ahmed	Raza Maham.	Farmer	Nazar Ahmed
8	Waseemul-Haq	Abdul Haq.	Farmer	Waseem Ahmed
9	Hajeez Ahmed	Ghulam Rasool	Farmer	
10	Mohammed Jousif	Ibrahim	Farmer	
11	Samiullah	Abdulah.	Farmer	Samiullah
13	Rais Samad	Abdul Ghaffar.	Farmer	A-Samad

**ANNEXURE VIII: Compliance and NON-COMPLIANCE ON Construction SITES**

**1. Ahmedzai PIS Subproject (May 2022 Visit)**



Dust pollution due to heavy trucks moment



Water sprinkling to reduce dust emission



PPE's provided to site workers



Flagmen present on approach road where construction activity is in progress



Improper wastewater disposal site near official residential rooms



Improper solid waste collection point



Workers washrooms in unhygienic condition

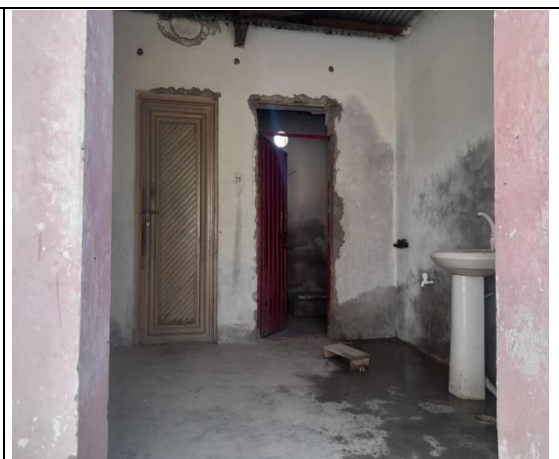


Presence of First Aid Box ensured

## 2. BWR Building Sub-project NCB 05



Logo for COVID-19 site rules



Proper hygienic washrooms are available for workers



First Aid Box is provided to workers on site



First Aid Box is in easy approach of site workers



All contractor staff and site workers were using PPE's and ensured following SOPs for COVID-19



Neat and clean mineral water is provided to workers



Warning tapes provided on site



Workers using complete set of PPE's



Ensuring presence of First Aid Box



Empty cement bags are not properly disposed off

### 3. Karakh Sub-project NCB 01



Discussion between Contractor Project Manager and Consultant Environment Specialist to submit SSEMP on first priority.



Excavation/Earth work in progress on Acherwand Irrigation scheme



Environmental Specialist addressing contractor to provide proper PPE's to site workers



Workers working without proper PPE's



Environment Specialist advised workers to use proper set of PPE's while working activities.



Stone Masonry work in progress on irrigation channel



Empty drums present within the vicinity of camp site, contractor team was advised to properly reuse these drums in any positive activity.



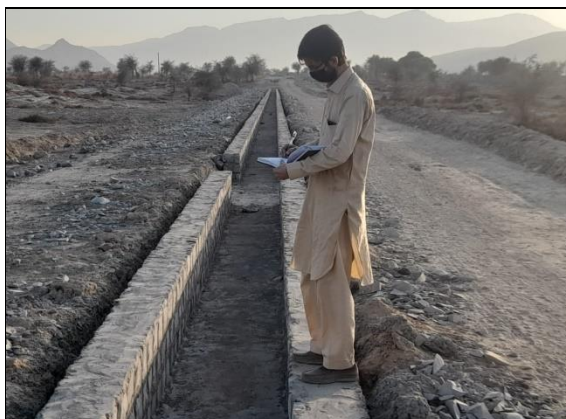
Movement of vehicles was noticed during site visit on Bund No.1. Water sprinkling is greatly required. Contractor team was advised to provide water tanker to reduce dust pollution.



Warning tapes/sign boards not provided near crush plant.



Construction of Chutta Main sump No.1



Construction of Chutta Right Sump No.1 in progress, water sprinkling greatly required



Workers not using proper PPE's.