

# Environmental Monitoring Report

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# 2 Semestral Report  
April 2022

## 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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July-December 2021

Pakistan: Balochistan Water Resources Development Sector  
Project  
(Financed by the ADB)

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

For the Period July-December 2021

Pakistan: Balochistan Water Resources Development Sector  
Project  
(Financed by the ADB)

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## Abbreviations

ACD	Agriculture and Cooperatives Department
ADB	Asian Development Bank
BWRDSP	Balochistan Water Resources Development Sector Project
BID	Balochistan Irrigation Department
COVID-19	Coronavirus Disease 2019
CSC	Construction Supervision Consultants
EMP	Environmental Management Plan
ES	Environment Specialist
GoBP	Government of Balochistan Province
GRC's	Grievance Redressal Committee's
GRM	Grievance Redressal Mechanism
ha	Hectre
H&S	Health and safety
HSE	Health Safety and Environment
GoB	Government of Balochistan
GRM	Grievance Redressal Mechanism
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
SFA	Social Framework Agreement
SOPs	Standard Operating Procedures
SSEMP	Site Specific 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. Sites visited in September 2021 and December 2021, Karakh Valley Development Sub-Project on Mula River NCB 01, NCB 05 Water Resources Building and NCB 08 Ahmadzai Perennial and Flood Irrigation Sub-Project sites. This report is the 2<sup>nd</sup> EMR for the project consisting of the following sub-projects:

#### **Ahmad Zai Perennial and Flood Irrigation Sub-Project**

- Weir
- Flood Protection Channel
- Perennial Channel

#### **Water Resources Building, Quetta**

- Multi-storey Building

#### **Karakh Valley Development Sub-Project on Mula River Basin**

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

### **1.2 Headline Information**

1. The Project has on the board two Contractors under the “Contract No. NCB-05 Water Resources Building Quetta and NCB-08, Ahmedzai Subproject”. The Contractor Environmental Engineer and Consultant Environmental Specialist visited both the sites to check Environmental Compliance. HSE Officers on NCB 05 and 08 were available on the site and presence was ensured during site visit.
2. 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.
3. During this period EMP implementation costs were updated.
4. 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. July to December 2021.

5. The Environment teams of BWRDSP consultants at site continued to perform strict monitoring of the EMP and Health & Safety (HS) Plan implementation by the Contractor.
6. 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 during working hours.
7. 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.
8. 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.
9. 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 (Zhub)	Sufyan Durrani	Zhub	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 Mastoi	Quetta	0333-3122310	pio.bwrdsp@gmail.com
<b>ADB</b>	Environment Specialist	Syed Asim Ali Sabzwari	Islamabad	(+632) 632-6757	asabzwari@adb.org
	Environment Specialist (Consultant)	Shazia Shahid	Islamabad	0346-0281336	sshahid.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>	Project Manager	Asmatullah Jatoi	Kharzan-Hitachi(Khuzdar)	0315-5860175	agha_construction_com@hotmail.com
	Environment Specialist	Faheem Akbar	Quetta	0300-3678816	faheemakber39@gmail.com
<b>Contractor (Ahmedzai )</b>	HSE Supervisor	Abdullah Khan	Ahmedzai Zhub	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	Fida Hussain	Karakh (Khuzdar)	0344-3445695	
<b>Contractor (Kharzan-Hatachi)</b>					

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 had already submitted SSEMP which is already approved.
12. The NCB-01 Contractor shared its first draft of SSEMP in October 2021 to BWRDSP consultants. The consultants commented for corrections and assisted contractor for resubmission, which is still pending. This is noncompliance case, the PMO and BWRDSP Consultants will make sure for other contractors on time submission and approval of SSEMPs to avoid the same type non-compliance. However, it should be noted that it took a several months period for the Contractor to understand, prepare and submit SSEMP.
13. Brief description of works performed by the Contractors during the reporting period is provided is provided in Table 2, 3 and 4 below.

**Table 2: NCB-O8 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.	Chutta	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  
(July - December 2021)**

<b>Environmental Safeguard Activities</b>
<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>

**- Projects manpower, equipment's, materials:**

15. Ahmedzai Subproject manpower is 100-120 persons, WRB Quetta is 15 technical and 20-25 skilled/unskilled labours 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 5

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

<b>Name of Machine</b>	<b>No of Working Machines</b>
<b>Ahmedzai subproject NCB 08</b>	
Excavator	2
Roller	1
Grader	1
Loader	1
Transit Mixer	1
Dumper	1
Tractor 240	1
Tractor 385	1

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Tractor	5
Pickup	2
Generator	2
<b>Water Resources Building, Quetta NCB 05</b>	
Excavator	1
Roller	1
Grader	1
Tractor with Trolley	2
Water Bowser	1
<b>Karakh Valley sub-project NCB 01</b>	
Batching Plant	1
Heavy Generator	1
Transit Mixer	2
Mechanical Hand Mixture Machine	1
Loader	2
Excavator Tyre	3
Jack Hammer	1
Grader	3
Dumpers	10
Roller Plain	6
Diesel Tank	1
Tractor with Blade	1
Tractor Trolley	9
Water Tank	5
Water Pump for dewatering	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><u>Estimated Amount used</u></b>	<b>Source of Material</b>
1	Cement	64000 bags	Fauji Cement Ltd, Maple Leaf
2	Steel	461 Tons	Agha Steel Pvt Ltd Karachi

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3	Earth work	122580 cubic meter	Borrow Material from site
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- **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. Main camp of Ahmedzai sub-project consist of following facilities: For solid waste dust bins are placed at different locations and the collected wastes are dumped at designated area away from camp site and residential areas. There is no proper Septic Tank facility present for waste water collection. Open drains can be seen in the camp site. The Contractor ensured consultant team that these open drains will be properly covered and septic tanks will be provided for waste water. Oil and liquid type materials are stored in separate room. First aid facility is present on site with a male medical health trained technician. Fire extinguishers are not present within the camp site. For construction activities main source of water is river water, different parameters tests of drinking water which were conducted by consultant's PM are shared below for reference.

18. Camp includes 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.

19. The construction camp has following facilities for labourer working hands:

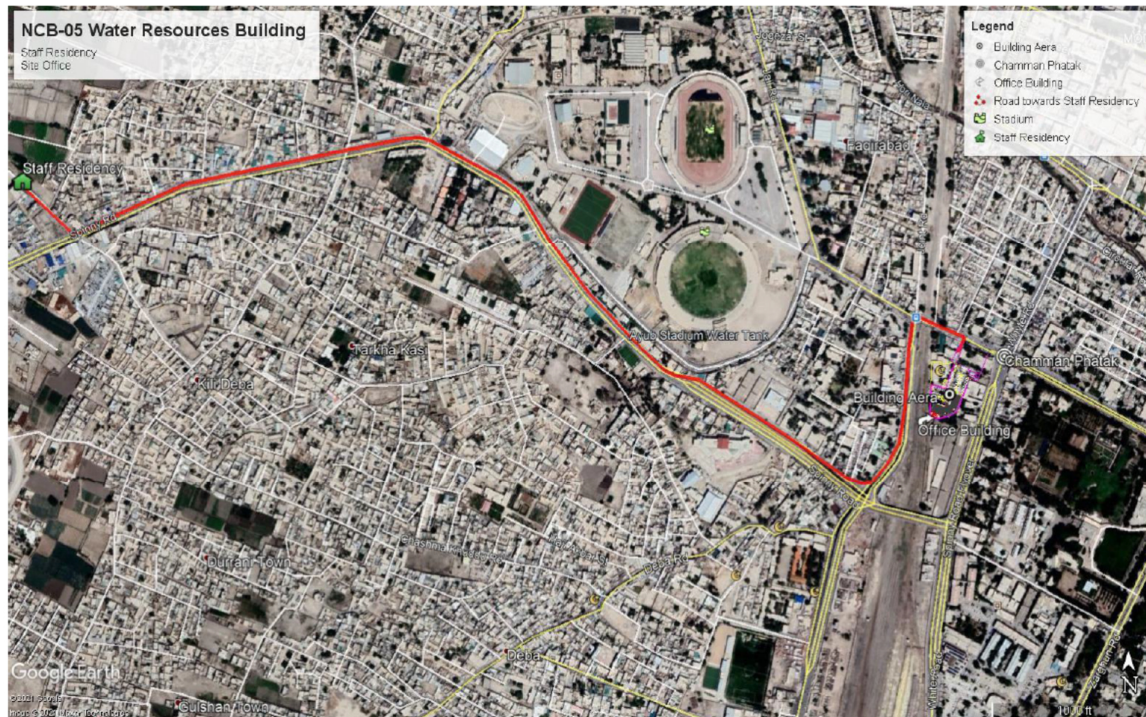
- Constant supply and accessibility of safe drinking water.
- Living Accommodations/Shelter.
- Sanitary and toilet facilities.
- Washing facilities.
- Kitchen/mess
- Laboratory for material testing



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

20. 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.
21. 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)**



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**

S. No.	Name of Material	Estimated amount used	Source of Material
1	Cement	8150 bags	Fauji Cement Ltd, Mapple Leaf
2	Steel	249 Tons	Agha Steel Pvt Ltd Karachi
3	Earth work	63431 cft	Borrow Material from site

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 3: Camp Location of Karakh Subproject**

**Table: 9- Detail of material and sources of Karakh Valley Development subproject NCB 01 are as under**

<b>Sr. No.</b>	<b>Name of Material</b>	<b>Source of Material</b>
1	Cement	Power D.G Lucky
2	Steel	Faizan Amberley
3	Earth work	Borrow Material from site
4	Crush	Karkh
5	Sand	Wadh
6	Aggregate	Karkh River

**- *Emergency Response Arrangements:***

23. Emergency response plan has been drafted (as described below) but have to be implemented on site in true spirit yet.

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. For NCB05 and NCB08, Emergency Response Plan (ERP) has been implemented with continuous monitoring of Consultant's Environmental Specialist, no any emergency has been occurred, and contact numbers of contractor's key personnel, nearby hospital and fire brigade are visible at site to be contacted, if any emergency occurs

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

The alignment of Karakh Valley Development sub-projects Sanjori and Bund 1 was slightly changed to avoid cutting of trees present along its boundaries. More than 200 mature trees were saved by slightly changing alignment of Bund No. 1 and about 100 trees were saved on sub-project Sanjori on Karakh Development sub-project NCB 01.

#### **2.5 Description of Any Changes to Agreed Construction methods**

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**

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. The monitoring was carried out by Environmental Specialist in presence of contractor Environmental Engineer through site inspections. The NCB-08 Contractor had one Environmental Engineer (Faheem Akbar) and the second Environmental, Health, Safety Supervisor (Abdullah Khan) is the NCB-05 and HSE supervisor NCB 01 Fida Hussain is the Contractor's environment team. The Contractor's environmental team performed the day-to-day monitoring of the construction sites and started to implement measures per EMP. NCB 01 contractor team is assisted by the consultant team to re-submit SSEMP for approval.

#### **3.2 Site Audits**

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)**

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.

Consultants noted some non-conformances under Sub-Project NCB-01. Considering the contractors lack of experience in environmental management, the BWRDSP Consultants did not issue Non-Conformance Notices during the reporting period, while working daily and weekly with the Contractor to enhance its skills and knowledge's to perform the Environmental Management Plan and SSEMP.

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 informed the Contractor that the Non-Conformance Notices will be issued, if the Contractor will not follow the BWRDSP Consultants recommendations, EMP, and SSEMP.

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.

There are no opened issues as of end of reporting period under Sub-Projects NCB-05 and NCB-08.

### **3.4 Trends**

No trends in environmental issues under subprojects were identified as it is Second Semi-Annual EMR.

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

During the reporting period, COVID-19 is viewed as an unanticipated impact and risk to the community and workers. Contractor's personnel wear mask, gloves, helmets and working wear, but not all the time. BWRDSP Consultant advised the Contractor to monitor its workers on wearing the full set of PPE's.

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

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**

Overview of environmental monitoring conducted during July-December 2021 is as under and picture is attached as **Annexures**.

#### **4.1.1 Air Quality**

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.

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 ensured that the dust should be reduced to maximum possible level so that it may not affect the workers and the surrounding environment including the native people.

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

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.

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.

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**

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**

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. The reasons for not conducting the instrumental monitoring were due to COVID-19 restrictions on interprovincial movement, EPA approved laboratories from Lahore and Karachi were restricted to travel and construction works were not started on sites.

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

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**

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

The waste produced at the sites under Sub-Project NC8-05 and NCB-08 are mainly household and construction waste and is being managed as follows

### 4.5.1 Current Period

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

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.

#### **Ahmedzai Subproject**

For proper general waste management, project area has a temporarily designated waste area where waste is dumped. Moreover, garbage cans 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.

All the waste from waste collection drums is 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. **Organic wastes** such as Meal pieces, food wastes are taken by local community, living nearby site for their domestic uses, usually used for feeding their animals. **Inorganic wastes** such as solid waste, paper, plastic and other waste are dumped at an area which is away from all sort of livings, no houses, no human and other creations are there (no sensitive receptors), contractor is dumping waste in a pit, as there is no any solid waste collection company in such remote area. Written agreement of this pit is not available with the contractor. According to the contractor the selected pit area belong to Balochistan Government.

#### **Water Resources Building**

The solid waste produced at site is being collected into waste bins and transported to nearby Municipal collection point. Construction is at minor scale and there is no workshop area, steel yard, washing yard, workshop area and batching plant area 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.

#### **4.5.2 Cumulative Waste Generation**

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.

### **4.6 Health and Safety**

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

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

NCB 01 contractor has recently involved HSE supervisor named Fida Hussain. He is assisted by consultant team to re-submit SSEMP as soon as possible. Moreover, no incidents related to the community health and safety has been occurred or reported yet.

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

During reporting period, 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:

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**

During reporting period, 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 Development Sub-project NCB 01**

NCB 01 contractor has recently involved HSE supervisor named Fida Hussain. Who is assisted by consultant team to re-submit SSEMP as soon as possible. Moreover, No incidents related to the workers' health and safety has been occurred or reported yet.

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

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.

Details for NCB-08 are provided in following table.

No. of Minor Injuries	No. of Major Injuries	Workers treated through first aid	No. of workers taken to hospital	No of COVID-19 positive cases
32	0	32	0	0

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

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.

Details for NCB-05 are provided in following table.

No. of Minor Injuries	No. of Major Injuries	Workers treated through first aid	No. of workers taken to hospital	No of COVID-19 positive cases
18	0	18	0	0

### **4.7 Training**

PMO and PIO arranged a one-day training session on EMP guidelines and requirements for the project management and implementation team on 30th June 2021. Further no any training was conducted from July to December.

### **HSE Training by Contractor**

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):** 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 (construction of Water Resources Building, Ahmed Zai and Karakh sub project). The details are provided in tables below.

**Table 10- Karakh Valley Development Subproject Corrective Action Plan for January-June, 2022**

Sr. No.	Description of Non Compliance	Timeline	Responsibility
1.	SSEMP should be submitted on priority basis	31 January 2022	Res: Contractor Follow up: Consultant
2.	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.	10 February, 2022	Res: Contractor Follow up: Consultant
3.	Fire Safety Equipment especially Fire Extinguishers should be available in Contractor camp and construction site.	28 February, 2022	Res: Contractor Follow up: Consultant
4.	First Aid kits should be available on sites and emergency first aid trainings should be conducted	10 March, 2022	Res: Contractor Follow up: Consultant
5.	Washrooms should be with sufficient facilities and hygienic condition	31 March, 2022	Res: Contractor Follow up: Consultant
6.	Proper safety signs should be installed by the Contractor	15 March, 2022	Res: Contractor Follow up: Consultant
7.	Sites should be barricaded especially at borrow areas and areas where construction activities are being carried on	15 February, 2022	Res: Contractor Follow up: Consultant
8.	Monthly HSE reports should be submitted on regular basis	1 March, 2022	Res: Contractor Follow up: Consultant
9.	Daily/weekly Checklists Environmental should be filled on regular basis	1 February, 2022	Res: Contractor Follow up: Consultant
10.	Contract clause regarding health safety and environment issues should be strictly followed.	10 February, 2022	Res: Contractor Follow up: Consultant
11.	Strict compliance of EMP at project site.	31 January, 2022	Res: Contractor Follow up: Consultant
12.	Use of PPEs during masonry work and working at height be enforced strictly.	1 March, 2022	Res: Contractor Follow up: Consultant
13.	Presence of trained medical person should be ensuring during working hours.	10 February, 2022	Res: Contractor Follow up: Consultant

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Sr. No.	Description of Non Compliance	Timeline	Responsibility
14.	Stacking of construction materials at site should be according to EMP.	28 February, 2022	Res: Contractor Follow up: Consultant
15.	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.	31 March, 2022	Res: Contractor Follow up: Consultant

**Table 12- Ahmedzai Irrigation Subproject Corrective Action Plan for January- June, 2022**

Sr. No.	Description of Non Compliance	Timeline	Responsibility
1.	OHS performance levels including use of PPEs, implementation of working hours etc should be improved	28 February, 2022	Res: Contractor Follow up: Consultant
2.	Training sessions must be conducted more frequently	15 March, 2022	Res: Contractor Follow up: Consultant
3.	The trucks carrying construction material should be covered with trauplin sheet to avoid dust pollution.	28 February, 2022	Res: Contractor Follow up: Consultant
4.	Awareness training of workers to control the spread of COVID-19 epidemic and safety on construction site.	10 March, 2022	Res: Contractor Follow up: Consultant
5.	Visitors / meetings in closed room should not be allowed or cancelled and safety signs regarding Covid-19 be displayed.	30 March, 2022	Res: Contractor Follow up: Consultant
6.	Safety signboards, safety cones, fluorescent tape, speed limit boards etc. at Junction point of village and camp site road should be used.	15 March, 2022	Res: Contractor Follow up: Consultant
7.	Washrooms should be with sufficient facilities and hygienic conditions	15 March, 2022	Res: Contractor Follow up: Consultant
8.	Generator should be placed away from fuel pump and rest rooms of workers and staff. accordingly	28 February, 2022	Res: Contractor Follow up: Consultant
9.	Construction sites should be appropriately barricaded.	15 March, 2022	Res: Contractor Follow up: Consultant

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Sr. No.	Description of Non Compliance	Timeline	Responsibility
10.	Avoid contamination of Camp soil by oil leakage from machinery.	20 March, 2022	Res: Contractor Follow up: Consultant
11.	HSE Officer should be present at site throughout construction period	1 January 2022	Res: Contractor Follow up: Consultant
12.	Contract clause regarding health safety and environment issues should be strictly followed.	31 January 2022	Res: Contractor Follow up: Consultant
13.	Strict compliance of EMP at project site.	1 January 2022	Res: Contractor Follow up: Consultant
14.	Stacking of construction materials at site should be according to EMP.	15 February 2022	Res: Contractor Follow up: Consultant
15.	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.	20 February, 2022	Res: Contractor Follow up: Consultant

**Table 13- Water Resources Building sub project -Corrective Action Plan (CAP) for January- June, 2022**

Sr. No.	Description of Non Compliance	Timeline	Responsibility
1.	Material transportation should be in the night time to avoid traffic issues	20 January, 2022	Res: Contractor Follow up: Consultant
2.	Entrance of public within project vicinity must be prohibited and more vigilance needed	30 January, 2022	Res: Contractor Follow up: Consultant
3.	Contractor should provide 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.	15 February, 2022	Res: Contractor Follow up: Consultant
4.	Awareness training of workers to control the spread of COVID-19 epidemic and safety on construction site	20 February, 2022	Res: Contractor Follow up: Consultant

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5.	Stacking of construction materials at site should be according to EMP.	10 March, 2022	Res: Contractor Follow up: Consultant
6.	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.	15 March, 2022	Res: Contractor Follow up: Consultant

## **5 FUNCTIONING OF THE SSEMP**

### **5.1 SSEMP Review**

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.

SSEMP of Karakh Valley Development Subproject NCB 01 has not been submitted to the consultant after 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**

The good practices are mentioned as:

#### **Karakh Valley Development Subproject and Ahmedzai Subproject**

- Establishment of Contractor's camp is within the permissible standards and Parameters
- Flora and Fauna are not unnecessarily damaged
- Health Safety standards are in compliance,
- 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.
- Training to site workers was noticed several times.
- Workers frequently using Personnel Protective Equipment's.
- Complaint register present in site office.
- First Aid boxes available for quick response in case of any injury.

### **6.2 Opportunities for Improvement**

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**

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.

#### **Water Resources Building**

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**

The Health Safety & Environment (HSE) implementation is unsatisfactory because the Contractor is still unable to prepare SSEMP. The contractor's HSE supervisor is assisted by the consultant to resubmit SSEMP on priority basis and was pressed hard to follow the HSE guidelines in true letter and spirit.

### **7.2 Recommendations**

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 EMP at project site.
- Use of PPEs during masonry work and working at height be enforced strictly.
- Presence of trained medical person and contractor's environmental officer should be ensuring 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 Checklists



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



Project Name: Construction of Ahmedzai PFI

Package # NCB-08

Monitoring Location: Camp and Project Sites

Date: 07/08/2021

**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	

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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**



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: *Zheer*

PIC Environmentalist: *Jun*



**ANNEXURE II: Monthly Monitoring Check List Ahmedzai Irrigation Sub-Project (NCB 08)**



Annexure-II

Construction of Ahmedzai Perennial & Flood Irrigation Sub-project, Zhob River Basin.



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	Aug 2021
<b>Major Adverse Impacts (weightage 0-3)</b>						
1	Copy of the Site specific EMP is provided at the camp site/contractors office?	1	1	1	2	1.25
2	The EMP instructions are understood?	1	1	2	2	1.5
3	An individual is nominated for implementation of EMP?	1	1	2	3	1.75
4	Camp Management, Health & Hygiene/ Heating, Cooling, Lighting and Housekeeping	1	1	2	3	1.75
5	Assembly Point is demarcated, alarming system.	1	1	2	2	1.5
6	Workforce use PPE at site?	1	1	2	2	1.5
7	Contractor provided PPE to their workforce?	1	1	2	2	1.5
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	2	1.5
10	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	2	2	2	3	2.25
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?	2	2	3	3	2.5
13	Borrow area is leased and the landowner is compensated as per a lease agreement?	2	2	2	3	2.25
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)	1	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	Aug 2021
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	1	2	1.25
24	Contractors followed HSE plan and Emergency Response Procedures	1	1	2	2	1.5
25	Contractors properly disposes debris materials in approved barren land/ TMA facilities preferably recycling, reuse process?	1	1	1	2	1.25
26	Natural areas with high elevation are normally selected as borrow areas?	1	1	2	2	1.5
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?	0	0	1	1	0.5
29	Stockpiling of Material, Construction Material Management	1	1	1	2	1.25
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	1	1	0.5
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?	1	2	2	2	1.75
35	Tree cutting restricted to RoW and shoulder areas only?	1	1	2	2	1.5
36	No damage reported to public services like electric, water, gas, sewer or telephone lines?	1	1	2	1	1.25
37	Batching Plant Material is taken from existing approved plants?	2	2	2	2	2
38	Batching Plant properly managed, no complaints	2	2	2	2	2
39	Maintenance of Roads, Hospitals, Buildings, Sewage facilities, Electric and water supply system	1	1	1	1	1
40	Project activities are displayed at proper locations	0	0	1	1	0.5
<b>Minor Adverse Impacts &amp; Good Practice Measures (weightage 0-1)</b>						
41	No complaints were made due to noise and vibration?	0.5	0.5	0.5	0.5	0.5
42	Contractor conduct Information, Education and Communication (IEC) campaign	0	0	0	0	0
43	Labor Screening at the time of Induction	0	0.5	0.5	0.5	0.375





**Construction of Ahmedzai Perennial & Flood Irrigation  
Sub-project, Zhob River Basin.**



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



Name of the Project: Constuction of Ahmedzai Perennial & Flood Irrigation Subproject.						
Environmental Compliance Checklist:						
Sr. No	Description	Week				Monthly Avg
		1	2	3	4	Aug 2021
44	Fire Extinguisher are placed and checked properly	0	0	0	0.5	0.125
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	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	0.2	0.5	0.5	0.35
50	Spilled oil or fuel and used clean up material being disposed of properly	0.5	0.5	0.5	1	0.625
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	0.5	1	1	0.75
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.	0.2	0.2	0.5	0.5	0.35
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	0.5	1	1	1	0.875
59	Spills and leak thoroughly cleaned	0.5	0.5	0.5	0.5	0.25
60	Construction machinery parked at designated areas?	0.5	0.5	1	1	0.75
61	Traffic issues managed well, no complaints on record	1	1	1	1	1
62	Daily, Weekly & Monthly Checklists are filled 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>75.2</b>
<b>Monthly Percentage</b>						<b>64.82%</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



NCB-05 Water Resources Building at Quetta



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

Monitoring Location: Camp and Project Site Date: 13/11/2021

**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	

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NCB-05 Water Resources Building at Quetta



NCB-05 Water Resources Building at Quetta



5- Borrow Areas	
Is necessary approval for the borrow areas been obtained from the Engineer?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Is the top soil of the borrow pits removed and conserved for rehabilitation of borrow areas?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is the condition of approval for excavation of the borrow pits are being complied with?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Is the drainage profile of the area is maintained to avoid any impoundment of the agriculture runoff or storm water in the borrow areas?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6- Camp Site	
Are the generator in the construction camp properly maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Is the emergency response plan available in the camp	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Additional Comments (if any):

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Contractor Environmentalist: 

PIC Environmentalist: 



**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						
Environmental Compliance Checklist						
Sr. No	Description	Week				Monthly Avg Aug 2021
		1	2	3	4	
<b>Major Adverse Impacts (weightage 0-3)</b>						
1	Copy of the Site specific EMP is provided at the camp site/contractors office?	1	2	3	3	2.25
2	The EMP instructions are understood?	3	3	3	3	3
3	An individual is nominated for implementation of EMP?	1	2	3	3	2.25
4	Camp Management, Health & Hygiene/ Heating, Cooling, Lighting and Housekeeping	2	2	2	3	2.75
5	Assembly Point is demarcated, alarming system.	1	1	1	1	1
6	Workforce use PPE at site?	1	2	3	2	2
7	Contractor provided PPE to their workforce?	2	2	3	3	2.5
8	Potable water is available to labor?	3	3	3	3	3
9	Medical Facilities, First Aid Kit is provided at camp and individual nominated for addressing emergency?	0	1	1	2	1
10	Contractor maintained Environmental Monitoring Record and submits monthly monitoring reports?	0	1	2	3	1.5
11	Contractor maintained Grievances Log and registered the complaints from community?	1	2	2	2	1.75
12	Contractors prohibited child labor and forced labor?	2	2	3	3	2.5
13	Borrow area is leased and the landowner is compensated as per a lease agreement?	0	1	2	3	1.5
14	Septic Tank and Soak Pits are designed for treatment of effluents?	0	0	0	0	0
15	No complaint filed regarding transmission of communicable diseases	3	3	3	3	3
<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	2	2	1.5
18	Site selected for camp is 500 m from the human settlements and wildlife habitats?	2	2	2	2	2
19	No wood cutting for fuel?	2	2	2	2	2
20	LPG cylinders are provided for cooking or heating purposes?	1	2	2	2	1.75
21	Arrangement for proper storage and disposal for solid waste is planned?	1	1	2	2	1.5

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NCB-05 Water Resources Building at Quetta



NCB-05 Water Resources Building at Quetta



Name of the Project: Construction of Water Resources Building						
Environmental Compliance Checklist						
Sr. No	Description	Week				Monthly Avg
		1	2	3	4	Aug 2021
22	Safety signs are properly displayed?	2	2	2	2	2
23	Contractor provided training to workers to effectively implement project specific EMP?	2	2	2	2	2
24	Contractors followed HSE plan and Emergency Response Procedures	2	2	2	2	2
25	Contractors properly disposes debris materials in approved barren land/ TMA facilities preferably recycling, reuse process?	1	1	1	2	1.25
26	Natural areas with high elevation are normally selected as borrow areas?	1	1	1	1	1
27	Minimum damage to the agriculture land due to borrow pits on agriculture land?	1	1	2	2	1.5
28	Top 300 mm are stripped and stockpiled for redressing?	1	1	1	1	1
29	Stockpiling of Material, Construction Material Management	1	1	1	1	1
30	Waste being stored temporarily on camp & sites only within the designated area	1	1	2	2	1.5
31	Fuel/oil storage areas are away from watercourses?	2	1	2	2	1.75
32	Fuel/oil storage areas are paved & ventilated	1	1	2	2	1.5
33	Fire Extinguisher is placed near Fuel Storage area	0	0	1	1	0.5
34	No vegetation cover aside from that required as part of construction and inside the RoW removed?	2	2	2	2	2
35	Tree cutting restricted to RoW and shoulder areas only?	2	2	2	2	2
36	No damage reported to public services like electric, water, gas, sewer or telephone lines?	1	1	2	2	1.5
37	Batching Plant Material is taken from existing approved plants?	0	1	1	2	1
38	Batching Plant properly managed, no complaints	0	0	1	1	0.5
39	Maintenance of Roads, Hospitals, Buildings. Sewage facilities, Electric and water supply system	1	1	1	1	1
40	Project activities are displayed at proper locations	1	2	0	1	1
Minor Adverse Impacts & Good Practice (weightage 0-1)						
41	No complaints were made due to noise and vibration?	0.5	0.5	1	1	0.75
42	Contractor conduct Information, Education and Communication (IEC) campaign	0.1	0.1	0.1	0.1	0.1
43	Labor Screening at the time of Induction	0.3	0.3	0.5	0.5	0.4
44	Fire Extinguisher are placed and checked properly	0	0	0.2	0.5	0.17
45	Contractors hiring of local labor?	1	1	1	1	1
46	Project site is fenced to prevent trespassing?	1	1	1	1	1

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NCB-05 Water Resources Building at Quetta



NCB-05 Water Resources Building at Quetta



Name of the Project: Construction of Water Resources Building						
Environmental Compliance Checklist						
Sr. No	Description	Week				Monthly Avg
		1	2	3	4	Aug 2021
47	Generator in the construction camp properly maintained	0.5	0.5	0.5	0.5	0.5
48	Community consultation has been carried out for project activities/concerns?	0	0	0.5	0.5	0.25
49	Adequate barriers are provided around areas where hazards may exist	1	1	1	1	1
50	Spilled oil or fuel and used clean up material being disposed of properly	0.5	0.5	0.5	1	0.62
51	Waste segregation at source	0	0	0	1	0.25
52	Construction & Maintenance of Walkways	0	0	0.4	0.5	0.22
53	Dust Generation during construction well managed and record exists	0.5	0.5	0.5	0.5	0.5
54	Number of routes kept to a minimum	1	1	1	1	1
55	Water Sprinkling Record is available	0.2	0.2	0.4	0.5	0.32
56	Provided lighting is adequate (minimum of 100 lux) and that personnel are not working in a shadow.	0.5	0.5	1	1	0.75
57	Photographic Record of Roads and agricultural fields is being maintained.	0	0	0.5	0.5	0.25
58	Materials will be stacked or stored in a safe manner that prevents sliding, falling or collapse	1	1	1	1	1
59	Spills and leak thoroughly cleaned	0.5	0.5	0.5	1	0.62
60	Construction machinery parked at designated areas?	0.5	0.5	1	1	0.75
61	Traffic issues managed well, no complaints on record	1	1	1	1	1
62	Daily, Weekly & Monthly Checklists are filled regularly	1	1	1	1	1
63	Storage of Hazardous Material in designated areas. MSDS available	0.5	0.5	0.5	1	0.62
64	Social Framework Agreement is prepared and signed	0	0	0	0	0
65	Construction activities carried out in daylight to reduce the impact of noise	1	1	1	1	1
<b>Total Weightage (out of 116)</b>						<b>81.32</b>
<b>Monthly Percentage</b>						<b>70.10%</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 August 2021**



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>Importance and use of PPEs during working activities</u>		Date: <u>10-08-2021</u>	
S. No.	Name	Designation	Signature
01	Dilawar Khan	Supervisor	<i>[Signature]</i>
02	M. Usman	Site Incharge	<i>[Signature]</i>
03	Shayqat	Steel fixer	<i>[Signature]</i>
04	Mousa Khan	Steel Fixer	<i>[Signature]</i>
05	Sanaullah	Shuttering	<i>[Signature]</i>
06	Yaar Muhammed	Carpenter	<i>[Signature]</i>
07	Azmat, Jaan	Mason	<i>[Signature]</i>
08	Abdul Khalid	Mason	<i>[Signature]</i>
09	Imran Zai	Labor	<i>[Signature]</i>
10	Jallal-ud-din	Labor	<i>[Signature]</i>

Trainer Signature: *[Signature]*





Construction of Ahmedzai Perennial & Flood Irrigation  
Sub-project. Zhob River Basin.



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>Advancements Sessions on Pandemic COVID-19</u> <u>(SDPs - Social distancing)</u>		Date: <u>23-08-2021</u>	
S. No.	Name	Designation	Signature
01	M. Usman	Site Incharge	<i>[Signature]</i>
02	Dilawar Khan	Supervisor	<i>[Signature]</i>
03	M. Riaz	L.T	<i>[Signature]</i>
04	Owais Moiz	Surveyor	<i>[Signature]</i>
05	Javed Iqbal	Accountant	<i>[Signature]</i>
06	MOOSA KHAN	Steel Fixer	<i>[Signature]</i>
07	Shayqat	Steel Fixer	<i>[Signature]</i>
08	Waqar Arif	Shuttering	<i>[Signature]</i>
09	Huzain Khan	Shuttering	<i>[Signature]</i>
10	Yaar Muhammad	Carpenter	<i>[Signature]</i>
11	Irfanullah	Mason	<i>[Signature]</i>
12	Abdul Khalil	Mason	<i>[Signature]</i>
13	Hayatullah Khan	Labour	<i>[Signature]</i>

Trainer Signature: *[Signature]*





Annexure-IV

Construction of Ahmedzai Perennial & Flood Irrigation  
Sub-project. Zhob River Basin.



Photographic Record of Training





**Construction of Ahmedzai Perennial & Flood Irrigation  
Sub-project. Zhob River Basin.**



**Training Attendance and Photographs Ahmedzai Irrigation Sub-Project NCB 08  
September 2021**



Construction of Ahmedzai Perennial & Flood Irrigation  
Sub-project. Zhob River Basin.



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>Lifting &amp; Handling of material -</u>			Date: <u>25-09-2021</u>
S. No.	Name	Designation	Signature
01	Dilawar Khan	Supervisor	<i>[Signature]</i>
02	Ikram	Surveyor	<i>[Signature]</i>
03	M. Riaz	L-T	<i>[Signature]</i>
04	Shafiqat	Steel Fixer	<i>[Signature]</i>
05	Huzair	Carpenter	<i>[Signature]</i>
06	Waqas	Shuttering	<i>[Signature]</i>
07	Moosa Khan	Steel Fixer	<i>[Signature]</i>
08	Yar Mahammad	Carpenter	<i>[Signature]</i>
09	Irfanullah	Mason	<i>[Signature]</i>
10	Abdul Aziz	Helper	<i>[Signature]</i>
11	Abdul Khalil	Mason	<i>[Signature]</i>
12	Imran Zoi	Labor	<i>[Signature]</i>
13	Hidayatullah	Labor	<i>[Signature]</i>
14	Talibuddin	Labor	<i>[Signature]</i>

Trainer Signature: *[Signature]*





Construction of Ahmedzai Perennial & Flood Irrigation  
Sub-project. Zhob River Basin.



**Training Attendance and Photographs Ahmedzai Irrigation Sub-Project NCB 08  
October 2021**



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: <i>Safety Precautions during Cutting and Bending of Steel</i>			Date: <i>07-10-2021</i>
S. No.	Name	Designation	Signature
01	<i>Muhammad Usman</i>	<i>Site Incharge</i>	<i>Muhammad Usman</i>
02	<i>Dilawar Khan</i>	<i>Supervisor</i>	<i>Dilawar Khan</i>
03	<i>Ikram Ali</i>	<i>Surveyor</i>	<i>Ikram Ali</i>
04	<i>M. Riaz</i>	<i>L-T</i>	<i>M. Riaz</i>
05	<i>Shajjat</i>	<i>Steel Fixer</i>	<i>Shajjat</i>
06	<i>Mobin Khan</i>	<i>Steel Fixer</i>	<i>Mobin Khan</i>
07	<i>Huzain Khan</i>	<i>Shuttering</i>	<i>Huzain Khan</i>
08	<i>Wajid Anjum</i>	<i>Shuttering</i>	<i>Wajid Anjum</i>
09	<i>Yasir Muhammad</i>	<i>Carpenter</i>	<i>Yasir Muhammad</i>
10	<i>Abdul Aziz</i>	<i>Lab Helper</i>	<i>Abdul Aziz</i>
11	<i>Irfanullah</i>	<i>Mason</i>	<i>Irfanullah</i>
12	<i>Abdul Khalid</i>	<i>Mason</i>	<i>Abdul Khalid</i>
13	<i>Hafizullah Khan</i>	<i>Labrar</i>	<i>Hafizullah Khan</i>

Trainer Signature: *[Signature]*

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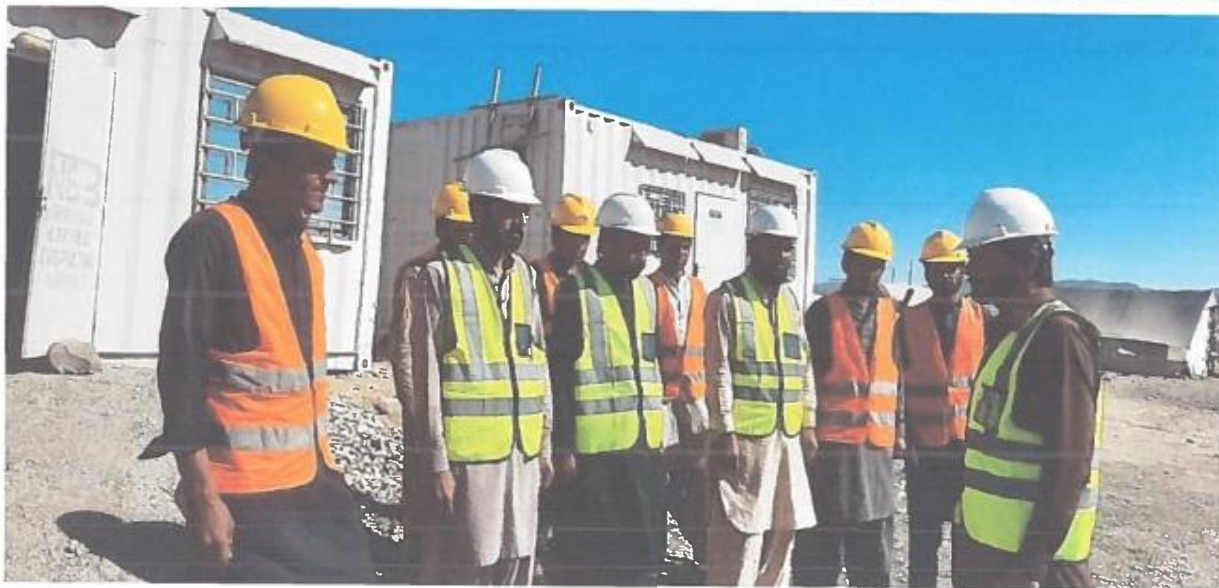


Construction of Ahmedzai Perennial & Flood Irrigation  
Sub Project Zhob River Basin



Annexure-IV

Photographic Record of Training



**Training Attendance and Photographs Ahmedzai Irrigation Sub-Project NCB 08  
November 2021**



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>House Keeping</u>		Date: <u>09-11-2021</u>	
S. No.	Name	Designation	Signature
01	Muhammad Asman	Site Incharge	
02	Dilawar Khan	Supervisor	
03	Ikraw	Surveyor	
04	M. Riaz	L.T	
05	Huzain	Comainter	
06	Shograt	Steel Fixer	
07	Mobsa Khan	Steel Fixer	
08	Waqas	Shuttering	
09	Yaar Muhammad	Carpenter	
10	Abdul Khalil	Mason	
11	Hidayatullah	Labour	
12	Jalaluddin	Labour	

Trainer Signature:



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



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



Annexure-IV

Photographic Record of Training



**ANNEXURE VI: Training Attendance and Photographs BWR Building Quetta Sub-Project NCB 05 August 2021**



NCB-05 Water Resources Building at Quetta



NCB-05 Construction Water Resources Building at Quetta



Training Attendance Sheet			
S. No.	Name	Designation	Signature
Topic: <u>Awareness Session regarding Pandemic COVID-19 SOP and Social Distancing -</u>		Date: <u>25-08-2021</u>	
01	Asmatullah	PM	Asmatullah
02	Shoaib Ali	Supervisor	Shoaib Ali
03	Sujayaw	M.E	Sujayaw
04	Alan Khan	Foreman	Alan Khan
05	Naqiu Jan	Assistant	Naqiu Jan
06	Abhayage	Surveyor	Abhayage
07	Shahzaib	Survey Helper	Shahzaib
08	Humairi Bux	Cook	Humairi Bux
09	Rafiqat	Cook Helper	Rafiqat
10	Azeem Shah	Driver	Azeem Shah
11	Saydan Ali	Labor	Saydan Ali
12	Shazim Khan	Labor	Shazim Khan
13	Mateen	Labor	Mateen

Trainer Signature: [Signature]





Annexure-IV

Photographic Record of Training







Annexure-IV

Photographic Record of Training





Annexure-V

Photographic Record of Site







**Annexure-IV**

**Photographic Record of Training**



**Photographs BWR Building Quetta Sub-Project NCB 05 November 2021**



**NCB-05 Water Resources Building at Quetta**



**Annexure-IV**

**Photographic Record of Training**





NCB-05 Water Resources Building at Quetta







Annexure-IV

Photographic Record of Training



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

**1. Ahmedzai PIS Subproject (September 2021 Visit)**

	
<p>No Barricading at construction site</p>	<p>Contractor team using PPE's during working hours</p>
	
<p>Dust pollution due to heavy trucks moment</p>	<p>Water sprinkling to reduce dust emission</p>
	
<p>Safety shoes not provided to site workers</p>	<p>Flagmen present on approach road where construction activity is in progress</p>



Improper wastewater disposal site near official residential rooms



Improper solid waste collection point



Workers washrooms in unhygienic condition



Contractor officials washrooms in hygienic condition



Worker working without using PPE's



Presence of First Aid Box ensured

**Ahmedzai Irrigation Sub-Project NCB 08 site visit December 2021**



Oil spillage noticed contaminating soil surface



Foul smell and a breeding source for mosquitoes observed from open drain



Leakage from generator



Water sprinkling greatly required in the vicinity of camp site



Workers using PPE's during construction activities



Steel should be covered with polythene sheet to avoid rusting



Warning tape or sign boards were not available



Material testing laboratory



First Aid Box with emergency medicines



Environmental Specialist observed that the Contractor team is avoiding using of face masks

## 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



Environmental Specialist discussing importance of SSEMP to Karakh Contractor team



Excavation/Earth work in progress on Acherwand Irrigation scheme



Sanjori Irrigation scheme alignment changed without disturbing Trees line



PPPE's not provided to workers on Sanjori IS



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



Workers working without proper PPE's



Stone Masonry work in progress Wandri left Irrigation Scheme



Stone Masonry work in progress Wandri Right Irrigation Scheme



Environmental Specialist checking environmental compliance during site visit in September 2021



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.



Construction of Chutta Left sump No.1



Construction of Chutta Main sump No.1



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



Chutta Left, Chutta Right and Chutta Main Sump No.1 distribution point

**ANNEXURE VIII: Ahmedzai Sub project NCB 08 Site Location Map**



**ANNEXURE IX: Site workers COVID 19 Vaccination cards**

MINISTRY OF NATIONAL HEALTH SERVICES REGULATIONS AND COORDINATION  
GOVERNMENT OF PAKISTAN

IMMUNIZATION CERTIFICATE FOR COVID-19

Name: \_\_\_\_\_ CNIC / Identity No: 15503-2104794-3

Date of Birth: 01-01-1979

Nationality: Pakistan

Passport No: \_\_\_\_\_

has been administered following COVID-19 vaccine:

Vaccine Name	Recommended Dosage	Dose	Date	Health Center	Manufacturer & Batch No
CoronaVax-Sinovac	3	1	30-07-2021	Civil Hospital	Sinovac, Lianchuan Co Ltd - Beijing, Kiating Zhongguo Biotechnology 202100006
CoronaVax-Sinovac	2	2	15-08-2021	Civil Hospital	Sinovac, Lianchuan Co Ltd - Beijing, Kiating Zhongguo Biotechnology 202100006

Issue Date: 17-09-2021  
Certificate No: CP095481234

MINISTRY OF NATIONAL HEALTH SERVICES REGULATIONS & COORDINATION  
Issuing Authority

MINISTRY OF NATIONAL HEALTH SERVICES REGULATIONS AND COORDINATION  
GOVERNMENT OF PAKISTAN

IMMUNIZATION CERTIFICATE FOR COVID-19

Name: Dawlat Khan

Date of Birth: 01-01-1979 CNIC No: 15503-2104805-9

Nationality: Pakistan Passport No: \_\_\_\_\_

has been administered COVID-19 vaccine:

Issue Date: 16-11-2021 Certificate No: IS3018793099

MINISTRY OF NATIONAL HEALTH SERVICES REGULATIONS & COORDINATION  
Issuing Authority

MINISTRY OF NATIONAL HEALTH SERVICES REGULATIONS AND COORDINATION  
GOVERNMENT OF PAKISTAN

IMMUNIZATION CERTIFICATE FOR COVID-19

Name: Subhanigul

Date of Birth: 01-01-1991 CNIC / Identity No: 15503-7550245-5

Nationality: Pakistan

Passport No: \_\_\_\_\_

has been administered following COVID-19 vaccine:

Vaccine Name	Recommended Dosage	Dose	Date	Health Center	Manufacturer & Batch No
CoronaVax-Sinovac	2	1	30-07-2021	Civil Hospital	Sinovac, Lianchuan Co Ltd - Beijing, Kiating Zhongguo Biotechnology 202100006
CoronaVax-Sinovac	2	2	17-09-2021	Civil Hospital	Sinovac, Lianchuan Co Ltd - Beijing, Kiating Zhongguo Biotechnology 202100006

Issue Date: 17-09-2021  
Certificate No: RBS122195509

MINISTRY OF NATIONAL HEALTH SERVICES REGULATIONS & COORDINATION  
Issuing Authority

MINISTRY OF NATIONAL HEALTH SERVICES REGULATIONS AND COORDINATION  
GOVERNMENT OF PAKISTAN

IMMUNIZATION CERTIFICATE FOR COVID-19

Name: Qimat Gul

Date of Birth: 01-01-1975 CNIC No: 15503-2104852-1

Nationality: Pakistan Passport No: \_\_\_\_\_

has been administered COVID-19 vaccine:

Issue Date: 17-12-2021 Certificate No: DR4743187191

MINISTRY OF NATIONAL HEALTH SERVICES REGULATIONS & COORDINATION  
Issuing Authority

MINISTRY OF NATIONAL HEALTH SERVICES REGULATIONS AND COORDINATION  
GOVERNMENT OF PAKISTAN

IMMUNIZATION CERTIFICATE FOR COVID-19

Name: Sher Zamen

Date of Birth: 01-01-1984 CNIC / Identity No: 15501-2268605-7

Nationality: Pakistan

Passport No: \_\_\_\_\_

has been administered following COVID-19 vaccine:

Vaccine Name	Recommended Dosage	Dose	Date	Health Center	Manufacturer & Batch No
CoronaVax-Sinovac	2	1	30-07-2021	Civil Hospital	Sinovac, Lianchuan Co Ltd - Beijing, Kiating Zhongguo Biotechnology 202100006
CoronaVax-Sinovac	2	2	17-09-2021	Civil Hospital	Sinovac, Lianchuan Co Ltd - Beijing, Kiating Zhongguo Biotechnology 202100006

Issue Date: 17-09-2021  
Certificate No: FT4966234853

MINISTRY OF NATIONAL HEALTH SERVICES REGULATIONS & COORDINATION  
Issuing Authority

MINISTRY OF NATIONAL HEALTH SERVICES REGULATIONS AND COORDINATION  
GOVERNMENT OF PAKISTAN

IMMUNIZATION CERTIFICATE FOR COVID-19

Name: Sani Gul

Date of Birth: 01-01-1996 CNIC No: 15503-5869011-5

Nationality: Pakistan Passport No: \_\_\_\_\_

has been administered COVID-19 vaccine:

Issue Date: 10-11-2021 Certificate No: VR4649553209

MINISTRY OF NATIONAL HEALTH SERVICES REGULATIONS & COORDINATION  
Issuing Authority

MINISTRY OF NATIONAL HEALTH SERVICES REGULATIONS AND COORDINATION  
GOVERNMENT OF PAKISTAN

IMMUNIZATION CERTIFICATE FOR COVID-19

Name: Noor Khani Gul

Date of Birth: 03-03-2001 CNIC / Identity No: 15503-2968425-3

Nationality: Pakistan

Passport No: \_\_\_\_\_

has been administered following COVID-19 vaccine:

Vaccine Name	Recommended Dosage	Dose	Date	Health Center	Manufacturer & Batch No
CoronaVax-Sinovac	2	1	01-08-2021	PHC Chahkar	Sinovac, Lianchuan Co Ltd - Beijing, Kiating Zhongguo Biotechnology 202100006
CoronaVax-Sinovac	2	2	17-09-2021	Civil Hospital	Sinovac, Lianchuan Co Ltd - Beijing, Kiating Zhongguo Biotechnology 202100006

Issue Date: 17-09-2021  
Certificate No: RI4452475473

MINISTRY OF NATIONAL HEALTH SERVICES REGULATIONS & COORDINATION  
Issuing Authority

MINISTRY OF NATIONAL HEALTH SERVICES REGULATIONS AND COORDINATION  
GOVERNMENT OF PAKISTAN

IMMUNIZATION CERTIFICATE FOR COVID-19

Name: Muhammad Nawaz

Date of Birth: 01-01-1985

Nationality: Pakistan

CNIC / Identity No: 53201-7039033-3

Passport No: \_\_\_\_\_

has been administered following COVID-19 vaccine:

Issue Date: 24-02-2022 Certificate No: SN5727442561

MINISTRY OF NATIONAL HEALTH SERVICES REGULATIONS & COORDINATION  
Issuing Authority