Rehabilitation of Damaged Water Supply and Drainage Schemes of District Shaheed Benazirabad, Sindh



ENVIRONMENTAL AND SOCIAL SCREENING REPORT (ESSR)





Final Report September, 2023



SINDH FLOOD EMERGENCY REHABILITATION PROJECT (SFERP)

PLANNING & DEVELOPMENT DEPARTMENT (P&DD) COMPONENT

**GOVERNMENT OF SINDH** 



## ENVIRONMENTAL AND SOCIAL SCREENING REPORT (ESSR)

## Rehabilitation of Damaged Water Supply and Drainage Schemes of District Shaheed Benazirabad, Sindh

**Final Report** 

September, 2023



## SINDH FLOOD EMERGENCY REHABILITATION PROJECT (SFERP)

## PLANNING & DEVELOPMENT DEPARTMENT (P&DD) COMPONENT, GOVERNMENT OF SINDH

## DOCUMENT ISSUE AND REVISION RECORD

This document and its contents have been prepared and intended solely for the information and use of the Government of Sindh, Project Implementation Unit (PIU) concerning the **SINDH FLOOD EMERGENCY REHABILITATION PROJECT (SFERP)** 

#### **Document Information**

Project	Sindh Flood Emergency Rehabilitation Project (SFERP)
Proponent	Project Implementation Unit (PIU), Government of Sindh
Document Ref	SFERP – ESSR/WS&DS/2
Document Title	ENVIRONMENTAL & SOCIAL SCREENING REPORT (ESSR)
	for
	Rehabilitation of Damaged Water Supply and Drainage Schemes of

Rehabilitation of Damaged Water Supply and Drainage Schemes of District Shaheed Benazirabad, Sindh

#### **Revision History:**

Description	Issue	Revision	Date	Originated	Reviewed	Approved
ESSR for Rehabilitation of Damage Water Supply	01	01	25-09-2023	PIU	14-11-2023	-
and Drainage Schemes of District Shaheed Benazirabad	01	02	21-11-2023	PIU		-

**Note:** The template of ESSR & E&S Checklist for one District i.e., Larkana is approved by the World Bank. As per the directions of WB on dated 12<sup>th</sup> April, 2023, the document is reviewed by the E&S team of PIU and submitted to WB team for record and post review purpose.

## **Table of Contents**

1	SFERP PROJECT DESCRIPTION	1
1.1	Sub-Project Description	1
1.2	Sub-Projects Information	12
1.2.1	Brief introduction to the sub-project, its geographical location, components, and benefits	
1.2.2	Details about existing conditions of the area/facility and proposed scope of rehabilitation works	12
1.2.3	Socio-Economic Condition of the Sub-Project Area	14
1.2.4	Explain, whether this is purely rehabilitation of existing facilities or will involve any new works.	14
1.2.5	Are consultations with stakeholders conducted?	14
1.2.6	Will this sub-project involve any ancillary impact/ activity away from the work site?	15
1.2.7	Timeframe for starting and completion of sub-project	15
1.2.8	Drainage and Water Supply Schemes Design and Demand details	15
1.2.9	Scenario if there are any alternative designs options of sub-project	19
2	ENVIRONMENTAL AND SOCIAL SCREENING TOOLS	20
2.1	Environmental and Social Management Screening	20
3	STAKEHOLDER CONSULTATION	33
3.1		
	Community Concerns	
3.2	Institutional Consultation	
4	ENVIRONMENTAL AND SOCIAL MANAGEMENT & MONITORING F 39	PLAN
5	PICTORIAL PROFILE OF PROJECT SITES	48
5.1	Awami Colony Drainage Scheme Including Storm Water, Taluka Nawabshah	48
5.2	Drainage Scheme Bandhi Town Scheme Madina Colony Zone A, Taluka Daur	
5.3	Improvement & Extension of Urban Water Supply Scheme, Taluka Daur	
5.4	Drainage Scheme Raza Abad Disposal Zone D, Taluka Daur District Shaheed Benaziral	
5.5	Sahafi Colony Drainage Scheme (Taluka Nawab Shah) Distt Shaheed Benazirabad	
5.6	Water Supply Scheme Rehmanabad Bandhi Town Taluka Daur District Shaheed Benazi 49	
6	ENVIRONMENTAL AND SOCIAL IMPLEMENTATION BUDGET	50
7	OPERATION AND MAINTENANCE (O&M)	53
7.1	Key aspects of O&M for WSS and Drainage systems:	53
7.1.1	Operation:	
7.1.2	Maintenance	
7.1.3	Emergency Response	54
7.1.4	Water Conservation	
7.1.5		
7.1.6	Data Management Documentation and Handover	54
7.1.6 7.1.7	Data Management	54 54
	Data Management Documentation and Handover	54 54 54
7.1.7	Data Management Documentation and Handover Facilities Management	54 54 54 55

7.1.11	Safety and Compliance	55
7.1.12	Energy Efficiency and Sustainability	
7.1.13	Asset Management	55
7.1.14	Stakeholder Communication	55
7.1.15	Continuous Improvement	55
7.1.16	Cleaning and maintenance of solar system	56
7.1.17	Regular maintenance and monitoring of Hypo-chlorinator	56
7.1.18	PHED Responsibility	57
7.2	Key benefits of effective O&M of WSS and Drainage Systems	57

## List of Tables

Table 1: Population Size and Wastewater Generation of District Shaheed Benazirabad Draina           Schemes	0
Table 2: Population Size and Water Supply Demand of District Shaheed Benazirabad Water         Supply Schemes	
Table 3: Environmental and Social Screening Checklist	20
Table 4: List of Stakeholders Consulted for Water Supply and Drainage Schemes of Shaheed         Benazirabad	
Table 5: Summary of Concerns Raised by Institutional Stakeholders	37
Table 6: Environmental and Social Management and Monitoring Plan (ESMMP)	39
Table 7: Environmental Compliance Cost	51

## List of Figures

Figure 1: Study Area Map of District Shaheed Benazirabad Water Supply and Drainage Schemes	
Figure 2: Stakeholders Consultation	
Figure 3: Institutional Consultation	

## List of Annexures

Annexure 1: Environmental & Social Screening Checklist of All Schemes of District Shaheed Benazirabad	59
Annexure 2: Design Drawings of Water Supply Schemes & Drainage	141
Annexure 3: Attendence Sheets During Consultation	166

## **1 PROJECT BACKGROUND**

The Federal Government of Pakistan requested the global community and development partners for assistance to respond to the flood disaster following the Flood 2022 emergency. Subsequently, the World Bank (WB) task team visited the province and had a series of meetings with the provincial Govt. During the discussions held with the WB Mission, a two-pronged strategy was agreed i.e.

- Restoration/Rehabilitation of Rural (Farm to Market) Roads in affected districts, talukas and UCs.
- Restoration of water supply, drainage and sanitation schemes in affected districts, Talukas and Union Councils.
- Provision of immediate financial assistance, cash for work is proposed to rehabilitate small community structures like rural roads, watersheds, watercourse (s) to carry irrigation water to Farm(s), Rehabilitation of village streets and restoration of village sanitation work including removal of stagnant water in villages. The exact number to be arrived at after assessment.
- Expansion of the Emergency Rescue Service (Sindh Emergency Rescue Services-1122) to 13 districts i.e., Jamshoro, Dadu, Sajawal, Badin, Qambar Shehdadkot, Shikarpur, Jacobabad, Thatta, Ghotki, Naushehro Feroz/Matiari, Umerkot, Sanghar and Shikarpur. Establishment of Satellite Rescue Station at Motorway and National Highways (N-5 & N-55) The Provincial Government has already launched Sindh Emergency Rescue 1122 in Six Districts HQs Karachi, Hyderabad, Mirpurkhas, Shaheed Benazirabad, Sukkur, and Larkana.

### **1.1 Project Components**

The proposed Sindh Flood Emergency Rehabilitation Project – SFERP falls into four main components.

- Component--1 Infrastructure Rehabilitation:
- Component--2 Livelihoods Restoration
- Component--3 Institutional Strengthening for Resilience and Technical Assistance
- Component--4 Project Management and Operational Cost

#### 1.2 The Proposed Sub-Project

The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected water supply and drainage schemes to improve health & hygiene of local communities by providing safe drinking water with uninterrupted supply. The location map of subproject is given in **Figure 1** and the details of the subproject sites are given below;

#### **1.3 Sub-Project Description**

In District Shaheed Benazirabad (previously known as Nawabshah), there are a total of 06 schemes, comprising 04 drainage schemes (23 Zones) and 02 water supply schemes (04 zones).

ProjectThe sub-component "rehabilitation of water supply and drainage schemes" willdescriptionrehabilitate the selected and prioritized water supply infrastructure that has been<br/>destroyed or damaged by the floods. The primary objective of this project is to evaluate<br/>the condition of water supply and drainage schemes, which includes assessing filtration<br/>techniques, piping, water quality, efficiency and adequacy of equipment, population

coverage, and technology employed. This assessment will encompass a comprehensive study of network elements such as pumps, tanks, pipe materials, as well as parameters like diameters, flow rates, and the overall functionality of water supply and drainage systems constructed.

The subproject schemes are located in Shaheed Benazirabad District of Sindh, Pakistan. The main aim of the said project is to rehabilitate existing sources of water supply and drainage facilities for the flood effected people in District Shaheed Benazirabad.

**Environmental** The subproject land is owned by the Government. The proposed activities are the and Social rehabilitation and restoration of damage water supply schemes and drainage facilities. Settings These schemes are the properties of the Government body. There are no major environmental and social impacts of the project activities to the vicinity of the subproject areas. There are no water bodies within the sub-project sites. The subproject rehabilitation activities will not affect any flora, fauna and natural habitat of the area. There are few trees in the vicinity of the proposed subproject areas which will not be disturbed during the rehabilitation works. The environmental and social impacts will be kept at minimum by ensuring the mitigation measures and continuous monitoring. All measures will be planned, organized and implemented which are vital for health and safety of the workers. Instrumental Environmental Testing will be conducted on key parameters like air quality, water quality and noise level determination. Local flora is important to provide shelters for the birds, offer fruits and/or timber/fire wood, protect soil erosion and overall keep the environment very friendly to human living. As such cutting/chopping of flora will not be anticipated. Plantation has been proposed after the completion of the proposed subproject to enhance the aesthetic beauty of the project vicinity. No sub-projects related socioeconomic issues have been recorded during the baseline surveys of the sub-projects. Community and project beneficiaries are very much enthusiastic about the early rehabilitation and completion of the subprojects. Settlements, including built-up areas such as homes, shops, mosques, graveyards, healthcare facilities and schools are located around sub-project schemes. Community is settled in villages which are actual project beneficiaries. No natural water spring is found in the proposed sub-project area. The site wise detailed of environmental and social setting of the proposed area are presented in the section 1.1.2.

Project Activities/ Scope of Work	Proposed Rehabilitation of Damaged Infrastructures of Water Supply Schemes (WSS)		
	- Rehabilitation of Tube wells		
	- Rehabilitation of Pumping Machinery i.e., Submersible Pumps, Centrifugal		
	Pumps,		
	- Rehabilitation of Solar System		
	- Rehabilitation of Storage Tanks		
	- Rehabilitation of Low Surface Reservoirs (LSRs)		
	- Rehabilitation of Distribution Network i.e., Pipe network		
	- Rehabilitation of Pumping Stations/Buildings		
	- Rehabilitation and improvement of Electric and mechanical works transmission		

provision and installation of disinfection system i.e., hypo-chlorinator equipment

#### **Rehabilitation of Damaged Infrastructures of Drainage Schemes**

- Rehabilitation of Street drains
- Rehabilitation of Pumping Machinery i.e., sludge Pumps, Motors
- Installation of Solar System for alternative power supply
- Rehabilitation of Screening Chambers
- Rehabilitation of Collecting Tanks
- Rehabilitation of Drainage Pumping Station Building
- Rehabilitation and enhancement of existing Electric system with automation Work
- Rehabilitation of Rising Main network to dispose of the drainage

Proposed Date of The Rehabilitation of water supplies and drainage activities will be started in October,Commencement 2023 after completion of pre-requisite requirements.of Work:

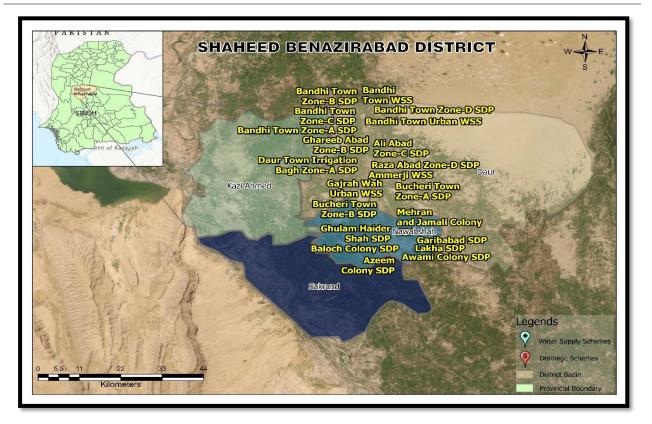


Figure 1: Study Area Map of District Shaheed Benazirabad Water Supply and Drainage Schemes

#### **1.4** Scheme Wise E&S Setting:

No.	Schemes	Coordinates (Meters)	Site Description
Α	Drainage Schemes Nawabshah City		

No.	Schemes	Coordinates (Meters)	Site Description
1	Main Disposal works Jamshed Colony	E = 442304.44 N = 2902364.98	The proposed site is located in District Shaheed Benazirabad, it can be easily accessible by Indus Highway N5 on the right side via N305 (Sakrand- Benazirabad Highway) or Saeedabad road, when moving towards Nawabshah. The number of household and population is 968 & 6,775 respectively. The area is surrounded by the human settlement with commercial activities. There are some educational and health facility i.e., Govt. Municipal Higher Secondary school and Deaf Reach school at a distance of 900 m on the direction of southwest and Mustafa Eye Hospital at a distance of 752 m on west.
2	Sahafi Disposal Works	E = 440488 N = 2903766	The proposed Scheme is located in District Benazirabad, it can be easily accessible by Indus Highway N5 on the right side via N305 (Sakrand- Benazirabad Highway) or Saeedabad road, when moving towards Nawabshah. The number of household 4085 and population is 28600 respectively. The area is surrounded by the human settlement with some commercial activities. There are some educational Institutes, place of worship i.e., Government primary school at a distance of 333 meters, Jama masjid taha bilal at a distance of 153 meters.
3	Ghulam Rasool Shah Colony Disposal Works	E = 440555 N = 2902223	The proposed Scheme is located in District Benazirabad, it can be easily accessible by Indus Highway N5 on the right side via N305 (Sakrand- Benazirabad Highway) or Saeedabad road, when moving towards Nawabshah. The number of household 1250 and population is 8750 respectively. The area is surrounded by the human settlement with some commercial activities. There are some educational Institutes place of worship, and health facility i.e., Government naya madarsa high school at a distance of 205.53 meters, Indus hospital at a distance of 369.53 meters, Noor Mustafa Masjid Madina at a distance of 371.50 meters.
4	Taj & Azam Colonies Disposal Works	E = 440269 N = 2905156	The proposed Scheme is located in District Benazirabad, it can be easily accessible by Indus Highway N5 on the right side via N305 (Sakrand- Benazirabad Highway) or Saeedabad road, when moving towards Nawabshah. The number of

No.	Schemes	Coordinates (Meters)	Site Description
			households 3462 and the population is 24240 respectively. The area is surrounded by human settlements with some commercial activities. There are some educational Institutes place of worship, i.e., TCF school nawabshah at distance of 950.44 meters, Allah wali Masjid at a distance of 655.93 meters
5	Gharibabad Disposal works	E = 440889 N = 2902348	The proposed Scheme is located in District Benazirabad, it can be easily accessible by Indus Highway N5 on the right side via N305 (Sakrand- Benazirabad Highway) or Saeedabad road, when moving towards Nawabshah. The number of household 1250 and population is 8750 respectively. The area is surrounded by the human settlement with some commercial activities. There are some educational Institutes place of worship, and health facility i.e., Government naya madarsa high school at a distance of 284.03 meters, Indus hospital at a distance of 381.96 meters, Jama Masjid Madina at a distance of 586.54 meters.
б	Railway Station Colony	E = 441205 N = 2902979	The proposed Scheme is located in District Benazirabad it can be easily accessible by Indus Highway N5 on the right side via N305 (Sakrand- Benazirabad Highway) or Saeedabad road, when moving towards Nawabshah. The number of household 1128 and population is 7900 respectively. The area is surrounded by the human settlement with some commercial activities. There is some place of worship, and health facility i.e., Jama masjid baghdadi at a distance of 492.19 meters, Mustafa free eye hospital at a distance of 707.13 meters.
7	Mehran & Jamali Colony	E = 439519 N = 2902851	The proposed scheme is positioned within the boundaries of the Benazirabad District., it can be easily accessible by Indus Highway N5 on the right side via N305 (Sakrand-Benazirabad Highway) or Saeedabad road, when moving towards Nawabshah. The number of household 2018 and population is 14128 respectively. The area is surrounded by the human settlement with some commercial activities. There are some educational and place of worship i.e., Paramedical Institute at a distance of 394.25 meters People University of Medical and Health (PUMHSW)

No.	Schemes	Coordinates (Meters)	Site Description
			at a distance of 947.93 meters, Gulshan Public School at a distance of 178.35, Makki Masjid at a distance of 517.14 meters.
8	Sanghar Road, UC-9	E = 442922.19 N = 2903683.82	The proposed Scheme is located in District Benazirabad, it can be easily accessible by Indus Highway N5 on the right side via N305 (Sakrand- Benazirabad Highway) or Saeedabad road, when moving towards Nawabshah. The number of households 717 and the population is 5019 respectively. The area is surrounded by human settlements with some commercial activities. There are some educational Institutes place of worship, i.e., Govt. Aisha girl's degree school at distance of 79.96, Masjid faiz e islam at a distance of 384.23 meters.
9	Balooch Colony	E = 441487 N = 2903958	The proposed Scheme is located in District Benazirabad, it can be easily accessible by Indus Highway N5 on the right side via N305 (Sakrand- Benazirabad Highway) or Saeedabad road, when moving towards Nawabshah. The number of households 984 and the population is 6888 respectively. The area is surrounded by human settlements with some commercial activities. There are some educational Institutes place of worship, i.e., The United Islamic school at distance of 160.54, 256.78 meters, Ismail Masjid at a distance of 307.77 meters.
10	Lakha Disposal Works	E = 440212 N = 2901674	The proposed Scheme is located in District Benazirabad, it can be easily accessible by Indus Highway N5 on the right side via N305 (Sakrand- Benazirabad Highway) or Saeedabad road, when moving towards Nawabshah. The number of households 4440 and the population is 31,080 respectively. The area is surrounded by human settlements with some commercial activities. There are some educational Institutes and healthcare facility, i.e., Govt. Girls Primary School at distance of 182 meters on west and Government Boys Primary School Faiz Muhammad Bhangwar 252 m away on eastward, Qureshi Welfare Center at a distance of 542 meters on northeast.

No.	Schemes	Coordinates (Meters)	Site Description
11	Ghulam Haider Shah	E = 439716 N = 2904285	The suggested scheme is positioned within the geographical area of the Benazirabad District, it can be easily accessible by Indus Highway N5 on the right side via Nawabshah Bypass or Qazi Ahmed-N Shah road, when moving towards Nawabshah. The number of households 5048 and the population is 35336 respectively. The area is surrounded by human settlements with some commercial, agricultural and recreational activities. There are some educational and healthcare Institutes, and parks i.e., Govt. boys' primary school at distance of 313.39, Bakhtawar park at a distance of 256.78 meters, Jamia Darul Uloom at a distance of 210.25 meters and Mother and Child Healthcare Hospital 634 m away on southwest.
12	Awami Colony	E = 438802 N = 2903110	The proposed Scheme is situated in District Benazirabad, it can be easily accessible by Indus Highway N5 on the right side via N305 (Sakrand- Benazirabad Highway) and University road, when moving towards Nawabshah. The total number of households in the area is 5285, and the population is 37000. The locality is surrounded by residential settlements and has some commercial activities. Within the vicinity, there are educational institutions and places of worship. Notable landmarks include Quaid-e- Awam University of Engineering, Sciences & Technology (QUEST), located at a distance of 1625.53 meters, The Smart School, situated 534.20 meters away, and Molai Raza Imam Bargah, which is approximately 106.08 meters away.
13	Azeem Colony	E = 439208 N = 2902109	The suggested scheme is positioned within the geographical area of the Benazirabad District, it can be easily accessible by Indus Highway N5 on the right side via N305 (Sakrand-Benazirabad Highway), when moving towards Nawabshah city. The number of households 2477 and the population is 17344 respectively. The area is surrounded by human settlements with some commercial activities. There are some educational Institutes, place of worship, and health facility i.e., Faiz Montessori & Grammer School at distance of 251.75, Quaid E Awam University of Engineering, Sciences & Technology (QUEST) at a distance of 373.47 meters, Indus hospital at a distance

No.	Schemes	Coordinates (Meters)	Site Description						
			of 381.96 meters, Al-Muhaiman Hospital at 162 meters and Jama masjid madina at a distance of 586.54 meters.						
В	Drainage Schen	nes Daur Town							
14	Irrigation Bagh Disposal Works	E = 431900 N = 2926513	The proposed Scheme is located in District Benazirabad, it can be easily accessible by Indus Highway N5 on the right side via Daur-Qazi Ahmed Road and Mehran Highway while moving towards Daur Town. The number of household 1795 and population is 12565 respectively. The area is surrounded by the human settlement with some commercial activities. There are some educational institutes, park and place of worship i.e., Ever shine public high school at a distance of 744.85 meters, Jama masjid baghdadi at a distance of 492.19, Asif bunghlor park at a distance of 716.25 meters.						
15	Gharibabad Disposal Works	E = 431966.07 N = 2927091.86	The proposed Scheme is located in District Benazirabad, it can be easily accessible by Indus Highway N5 on the right side via Daur-Qazi Ahmed Road and Mehran Highway while moving towards Daur Town. The number of household 825 and population is 5779 respectively. The area is surrounded by the human settlement with some commercial activities. There are some educational institutes, i.e., Model School daur at a distance of 484 meters and Sultania Children Academy which is 473 m away.						
16	Ali Abad Disposal Works	E = 432166 N = 2926299	The proposed Scheme is located in District Benazirabad it can be easily accessible by Indus Highway N5 on the right side via Daur-Qazi Ahmed Road and Mehran Highway while moving towards Daur Town. The number of household 1311 and population is 9182 respectively. The area is surrounded by the human settlement with some commercial activities. There are some educational and Healthcare institutes, i.e., TES public higher secondary school at a distance of 423.56 meters, Govt. Boys College 306 m away and Taluka Hospital at a distance of 598 m.						
17	Raza Abad Disposal Works	E = 432610 N = 2922674	The proposed Scheme is located in District Benazirabad, it can be easily accessible by Indus Highway N5 on the right side via Mehran Highway while moving towards Daur Town. The number of						

No.	Schemes	Coordinates (Meters)	Site Description				
			household 436 and population is 3,050 respectively. The area is surrounded by urban settlements and agricultural fields.				
С	Drainage	Schemes Bucheri	Town				
18	Bucheri Town Zone-A	E = 436475 N = 2914296	The proposed Scheme is located in District Benazirabad it can be easily accessible by Indus Highway N5 on the right side via Mehran Highway and buchhery road while moving towards Bucheri Town. The number of household 454 and population is 3178 respectively. Area is surrounded by some agricultural fields, urban settlements, educational institutes, and health facilities, i.e., Govt. higher secondary school at a distance of 473.80 meters. Basic health unit bucheri at a distance of 398.21 meters.				
19	19 Bucheri Town Zone-B N = 2915326		The proposed Scheme is located in District Benazirabad it can be easily accessible by Indus Highway N5 on the right side via Mehran Highway and buchhery road while moving towards Bucheri Town. The number of household 454 and population is 3178 respectively. Area is surrounded by some agricultural fields, urban settlements, and educational institutes i.e., New Skilful English Medium School Bucheri at a distance of 329 meters.				
D	Drainage Schen	nes Bandhi Town					
20	Madina Colony Zone-A E = 430152 N = 2940380		The proposed Scheme is located in Distric Benazirabad it can be easily accessible by Indu Highway N5 on the right side via Bandhi-Moro roa and Mehran Highway while moving towards Bandh Town. The number of household 659 and population i 4,611 respectively. The area is surrounded by th human settlement with some agricultural an commercial activities. There is no social of environmental sensitive receptor in the immediat vicinity except Imam Bargah Ali Raza approximatel 264 meters away, Chandia Medical Centre 600 meter away and Govt. School Bandhi 903 meters away.				

No.	Schemes	Coordinates (Meters)	Site Description
21	Zone-B Bandhi	E = 430330 N = 2941650	The proposed Scheme is located in District Benazirabad it can be easily accessible by Indus Highway N5 on the right side via Bandhi-Moro road and Mehran Highway while moving towards Bandhi Town. The number of household 429 and population is 3,000 respectively. The area is surrounded by the human settlement with agricultural activities. There is no social or environmental sensitive receptor in the immediate vicinity except Masjid Umar Farooq approximately 219 meters away, Daata Medical Centre 474 meters away and Govt. School Bandhi 440 meters away.
22	Zone-C Disposal Bndhi Town	E = 431579 N = 2941866	The proposed Scheme is located in District Benazirabad it can be easily accessible by Indus Highway N5 on the right side via Mehran Highway and Bandhi-Moro road further connected with Haji Abdul Rahman Dahri road while moving towards Bandhi Town. The number of household 426 and population is 2,981 respectively. The area is surrounded by agricultural fields. There is no social or environmental sensitive receptor in the immediate vicinity.
23	Zone D- Near Jamali Colony	E = 430915 N = 2940742	The proposed Scheme is located in District Benazirabad it can be easily accessible by Indus Highway N5 on the right side via Bandhi-Moro road and Mehran Highway while moving towards Bandhi Town. The number of household 696 and population is 4,872 respectively. The area is surrounded by the human settlement and commercial activities activities. Chandia Medical Centre is at a distance of 735 meters, Daata Medical Centre 773 meters away and Govt. School Bandhi is 626 meters away.
E	Water Supply S	chemes Daur Tow	n
24	Ammerji Water supply Scheme	E = 430083 N = 2926614	The proposed Scheme is located in District Benazirabad, it can be easily accessible by Indus Highway N5 on the right side via Daur- Qazi Ahmed road, Daur-Daulatpur road and Mehran Highway while moving towards Daur Town. The number of household 1778 and population is 12,443 respectively. The area is surrounded by the human settlement with some commercial and agricultural activities. There are some

No.	Schemes	Coordinates (Meters)	Site Description				
			educational institutes, and graveyard i.e., GPS Noor Ahmed Jalbani school and Ideal School Daur Hari at a distance of 716 and 923 meters respectively, whereas Garho Peer graveyard at a distance of 805 meters.				
25	Gajrah Wah water supply scheme	E = 435211 N = 2925095	The proposed Scheme is located in District Benazirabad, it can be easily accessible by Indus Highway N5 on the right side via Daur- Moro road, Canal road and Mehran Highway while moving towards Daur Town. The number of household 286 and population is 2,000 respectively. The area is agricultural fields, commercial activities and human settlements. The nearby educational institute is Govt. Boys Primary School Deh 94 Nusrat which is 907 meters away, except that no social sensitive receptor is situated nearby. A canal is flowing adjacent to sub- project site approximately 40-60 meters away.				
F	Water Supply Sc	hemes Bandhi Tov	wn				
26	Sada Wah Water Supply Scheme	E = 429372 N = 2942373	The proposed Scheme is located in District Benazirabad, it can be easily accessible by Indus Highway N5 on the right side via via Bandhi-Moro road and Mehran Highway while moving towards Bandhi Town. The number of household 627 and population is 4,389 respectively. The area is surrounded by agricultural fields with some commercial activities and nearby human settlement. The nearest settlement is Bandhi Town. A canal "Aamir Jee Branch" is flowing adjacent to sub-project site approximately 103 meters away from sub-project site.				
27	Rehman abad Water Works N = 2941738		site. The proposed Scheme is located in District Benazirabad, it can be easily accessible by Indus Highway N5 on the right side via via Bandhi-Moro road and Mehran Highway while moving towards Bandhi Town. The number of household 593 and population is 4,152 respectively. The area is surrounded by human settlement with some commercial activities nearby. There are some educational and healthcare facilities available in the area like Daata Medical Centre is present at a distance				

No.	Schemes	Coordinates (Meters)	Site Description
			of 670 meters and Govt. school Bandhi is 507 meters away from sub-project location.

## **1.5 Sub-Projects Information**

#### **1.5.1** Brief introduction to the sub-project, its geographical location, components, and benefits.

The subproject sites are situated in District Shaheed Benazirabad, Sindh, within the Government territory, specifically under the jurisdiction of the Public Health Engineering Department (PHED). The district has four Talukas; Nawabshah Taluka, Sakrand Taluka, Daulatpur Taluka, and Daur Taluka. The aim is to rehabilitate and restore the water supply and drainage systems that were damaged or destroyed by the floods in 2022. These efforts will prioritize the selected water supply infrastructure, ensuring its recovery. Currently, the community in District Shaheed Benazirabad has been suffering from a lack of safe drinking water and living in unhygienic conditions due to inadequate collection and treatment of storm water, which has led to the complete destruction of the drainage system.

The proposed subproject intends to address these issues by rehabilitating the water supply and drainage schemes to a resilient level. This will guarantee a continuous provision of safe drinking water to the community, while also ensuring the proper collection, treatment, and disposal of storm water in an environmentally friendly manner. The primary source of drinking water in the district is underground and surface water both. The water is extracted from underground or nearby canals using pumps and stored in Low Surface Reservoirs (LSRs) before being distributed to the community. The drinking and wastewater will undergo analysis in a recommended laboratory, and precautionary measures will be taken based on the results. surface water in the form of canals are available in some areas/schemes covered by the subproject. Overall, the proposed project aims to create a healthier environment in the area and uplift the socioeconomic conditions of the residents by providing them with safe water and employment opportunities for the locals.

# **1.5.2** Details about existing conditions of the area/facility and proposed scope of rehabilitation works.

The water supply and drainage schemes were not up to mark as almost all structures have been damaged by flood, 2022. The tube wells, pumping stations, distribution network and LSRs have been badly affected. As a result of which, the people of District Shaheed Benazirabad are facing scarcity of safe drinking water. Comprehensive surveys have been conducted by the expert to monitor the sites and assessed the damages and restoration of infrastructures. Rehabilitation of damaged infrastructure will provide the capacity and efficiency for uninterrupted safe drinking water supply to the community.

Currently, community of District Shaheed Benazirabad is living in unhygienic condition as drainage system has been broken-down and blocked in flood, 2022. The sewage disposal ponds (SDPs) including pumping stations and drainage network have also been affected. The damages have been assessed through proper survey and rehabilitation work is being made part of Sub-projects PC-1 of District.

The flood damaged the Water Supply and Drainage Schemes which affected the community. The community has been deprived by drinking water facility. Due to broken lines and blockages in the drainage lines wastewater stagnate in the area after rain causes disturbance to the residents. The stagnant

water provides breeding grounds to mosquitoes and flies which serve as vector of many diseases in the area. At some places, water supply lines are passing beside the storm water drains which also affect the quality of drinking water. Due to unavailability or insufficient supply of water, community have to fetch water from far flung areas and from pumping stations which creates social stress. Security and privacy of the local people has been disturbed as well. There is a need to rehabilitate the existing damaged water supply and drainage schemes in order to resolve the socioeconomic issues of the sub project area. The sub-project areas are located in different areas of District Shaheed Benazirabad, the schemes and systems are operated under the Government territory. The activity involves in the subproject is restoration and rehabilitation of damaged Water Supply and Drainage Schemes of District Shaheed Benazirabad.

#### i. Flora of Sub-Project Area

The most common trees found survey are babul (*Acacia nilotica*), kandi or jand/khejri (*Prosopis spicigera*), eucalyptus or sufaida (Eucalyptus camaldulensis), bahan or poplar (*Populus euphratica*) and 2 species of tamarisk i.e., lai or French tamarisk (*Tamarisk gallica*), and jhao or salt cedar (*Tamarisk dioica*) and Conocarpus.



Main crops of the district that have been observed during survey and verified during consultations are rice, sugarcane, jowar, cotton, bajra, maize, sesanum, wheat, barley, gram, rapeseed & mustard, guar seed, linseed, sun flower, soya bean, moong beans, and masoor. In addition, a large number of medicinal plants/herbs and fodder grow in the district<sup>1</sup>.

#### ii. Fauna of the Sub-Project Area

<sup>&</sup>lt;sup>1</sup> https://pakistanalmanac.com/sindh-shaheed-benazirabad/#1633497127938-b1d45416-be12

The animal species has been disturbed due to increase in population of the subproject areas except domestic animals no other specie has been found during surveys.

Common birds found include Eurasian collared dove, grey shrike, green bee-eater, jungle babbler, purple sunbird, parakeet, red collared purple dove, black and grey partridges.

#### 1.5.3 Socio-Economic Condition of the Sub-Project Area

The total population of the district Shaheed Benazirabad is 1,613,506 persons with 46% literacy rate<sup>2</sup>. Majority of the population of the district is Muslim. The culture life of the Muslims is greatly influenced by the Islamic way of life. After Muslims, Hindus also hold great confidence in Thakurs and Brahmans. The Brahmans usually perform spiritual rituals of Hindus on special occasions as observed during sites visits. The languages mostly spoken in District are Sindhi, Brohi, Balochi, Siraiki and Urdu. However, Urdu is understood amongst all the population of district. The economy of Shaheed Benazirabad is mainly based on Agriculture, Livestock Breeding, Fishing & Hunting (62.5%), Construction (15.3%) and Community, Social & Personal Services (20.5%). Major industries in the district Shaheed Benazirabad are Cotton Ginning Factories, Sugar Mills, Flour Mills, Rice Mills and Fiber Plant.

# **1.5.4** Explain, whether this is purely rehabilitation of existing facilities or will involve any new works

The subproject involves rehabilitation of damaged Drainage and Water Supply Schemes of the existing utilities which are being operated by the PHED. No new work is involved under sub-project scope.

#### 1.5.5 Are consultations with stakeholders conducted?

The social and environmental specialist of construction supervisory consultation-CSC held series of consultation meetings with the local community and relevant stakeholders, residents of the sub-project areas in August, 2023. The field team visited the nearby communities briefed salient features of the subprojects to get the views of the communities who could be affected and beneficiaries. Social Sensitive Receptors like religious structures (mosques, shrines and graveyards), basic/rural health units (BHU/RHU), hospitals, schools, cultural and archeological etc. were observed during the survey and consultation in the sub-project areas. The indirect impacts on the receptors have been evaluated at 200 meters' buffer zone of the proposed sub-project sites. Most of the social receptors are located in an urban settlement and far away from proposed sub-project sites hence would not be affected by project activities. The community was very blissful by the rehabilitation work carried out by the involvement of the Govt. of Sindh. They appreciated for taking up the initiative of rehabilitation and restoration of damaged water supply and drainage schemes. The team assured that all the concerns raised by them would be addressed. Mitigation measures will be proposed to minimize the impacts during rehabilitation activities. According to the community, the rehabilitation works would provide them safe and sufficient drinking water and ensure safe disposal of wastewater. The detailed concerns of community are described in the section 3 of this ESSR.

The damaged utilities are owned by the PHED of District Shaheed Benazirabad. Consultation with Line Department have also been completed. The subprojects were installed in Government owned land and no additional land will be acquired for rehabilitating the sub-projects.

<sup>&</sup>lt;sup>2</sup> https://www.pbs.gov.pk/census-2017-district-wise/results/103

#### 1.5.6 Will this sub-project involve any ancillary impact/ activity away from the work site?

There is no secondary impact in the sub-project areas. All the impacts are minor, temporary and site specific during the rehabilitation/restoration phase. The project falls under the category C which creates minor or low environmental impacts limited to rehabilitation/restoration phase.

#### 1.5.7 Timeframe for starting and completion of sub-project

The subproject will be started in October, 2023 and will be completed in April, 2025.

#### **1.5.8** Drainage and Water Supply Schemes Design and Demand details

The main rehabilitation or restoration components of water supply and drainage schemes are water tanks, drains, existing reservoirs, pump house, staff quarters, water filtration tanks and boundary walls. The capacities of these structure have been designed with respect to population sizes of proposed subproject areas. The drawings and typical cross sections of components are provided in **Annexure-2**. However, the current and future wastewater generation capacities and water supply demand are given in table-1 and **Table-2**.

Description	Total Population	Per Capita Sanitation Generation	Sanitation Generation	Total Population	Per Capita Sanitation Generation	Sanitation Generation	Total Population	Per Capita Sanitation Generation	Sanitation Generation	
		2023		2025 (F	irst Operatior	nal Year)	2050 (Last Operational Year)			
	Person	GPCD	GPD	Person	GPCD	GPD	Person	GPCD	GPD	
Improvement & Extension of	Disposal Pum	ping Stations	I/C Pipe Line	& Provision	of Rain Water	Disposal at D	rainage Schei	mes Nawabsha	ah City	
Main Disposal works Jamshed Colony	6775	8.8	59620.0	7014.2	8.8	61725.0	10822.8	8.8	95240.4	
Sahafi Disposal Works	28600	8.8	251680.0	29609.8	8.8	260565.9	45687.3	8.8	402048.1	
Ghulam Rasool shah Colony Disposal Works	9096	8.8	80044.8	9417.1	8.8	82870.9	14530.5	8.8	127868.2	
Taj & Azam Colonies Disposal Works	24240	8.8	213312.0	25095.8	8.8	220843.2	38722.4	8.8	340756.8	
Gharibabad Disposal works	8750	8.8	77000.0	9058.9	8.8	79718.6	13977.8	8.8	123004.2	
Railway Station	7900	8.8	69520.0	8178.9	8.8	71974.5	12619.9	8.8	111055.2	
Mehran & Jamali Colonies Disposal Works	14128	8.8	124326.4	14626.8	8.8	128715.9	22568.9	8.8	198606.1	
Sanghar Road Disposal Works	5019	8.8	44167.2	5196.2	8.8	45726.6	8017.6	8.8	70555.2	
Baloch Colony Disposal Works	6888	8.8	60614.4	7131.2	8.8	62754.5	11003.3	8.8	96828.9	
Lakha Disposal Works	31080	8.8	273504.0	32177.3	8.8	283160.4	49649.0	8.8	436911.0	
Ghulam Hyder Shah Colony	35336	8.8	310956.8	36583.6	8.8	321935.5	56447.8	8.8	496740.2	

#### Table 1: Population Size and Wastewater Generation of District Shaheed Benazirabad Drainage Schemes

Description	Total Population	Per Capita Sanitation Generation	Sanitation Generation	Total Population	Per Capita Sanitation Generation	Sanitation Generation	Total Population	Per Capita Sanitation Generation	Sanitation Generation
_		2023		2025 (F	irst Operation	nal Year)	2050 (L	ast Operation	al Year)
	Person	GPCD	GPD	Person	GPCD	GPD	Person	GPCD	GPD
Awami Colony	37000	8.8	325600.0	38306.3	8.8	337095.7	59105.9	8.8	520132.1
Azeem Colony Disposal Works	17344	8.8	152627.2	17956.4	8.8	158015.9	27706.3	8.8	243815.4
	]	Improvement of	& Extension o	f Drainage So	chemes Daur 7	Fown			
Irrigation Bagh Disposal Works	12565	8.8	110572.0	13008.6	8.8	114475.9	20072.1	8.8	176634.1
Gharibabad Disposal Works	5779	8.8	50855.2	5983.0	8.8	52650.7	9231.7	8.8	81239.0
Ali Abad Disposal Works	9182	8.8	80801.6	9506.2	8.8	83654.4	14667.9	8.8	129077.1
Raza Abad Disposal Works	1350	8.8	11880.0	1397.7	8.8	12299.4	2156.6	8.8	18977.8
	Ir	nprovement &	Extension of	Drainage Sch	emes Bucheri	Town			
Bucheri Town Zone-A	3178	8.8	27966.4	3290.2	8.8	28953.8	5076.7	8.8	44675.1
Bucheri Town Zone-B	3788	8.8	33334.4	3921.7	8.8	34511.3	6051.2	8.8	53250.3
	Im	provement &	Extension of I	Drainage Sche	emes at Bandh	ni Town			
Madina Colony Zone-A	4611	8.8	40576.8	4773.8	8.8	42009.4	7365.9	8.8	64819.7
Zone-B Bandhi	3000	8.8	26400.0	3105.9	8.8	27332.1	4792.4	8.8	42172.9
Zone-C Disposal Bndhi Town	2981	8.8	26232.8	3086.2	8.8	27159.0	4762.0	8.8	41905.8
Zone D- Near Jamali Colony	4872	8.8	42873.6	5044.0	8.8	44387.3	7782.8	8.8	68488.7

#### Table 2: Population Size and Water Supply Demand of District Shaheed Benazirabad Water Supply Schemes

Improve	ement & Exte	nsion for Wat	er Supply & I	Drainage Sche	mes at Various T	'aluka's of Distr	rict Shaheed Be	nazirabad	
Description	Total Population	Per Capita Water Demand	Water Supply Demand	Supply Population Water		Water Supply Demand	Total Population	Per Capita Water Demand	Water Supply Demand
		2023		2025 (	First Operationa	l Year)	2050 (L	ast Operation	al Year)
	Person	UK GPCD	GPD	Person	UK GPCD	GPD	Person	UK GPCD	GPD
		Improv	ement & Exte	ension of Wate	r Supply Scheme	es Daur Town			
Ammerji Water	12443	11.0	136873.0	12882.3	11.0	141705.5	19877.2	11.0	218648.8
Gajrah Wah	2000	11.0	22000.0	2070.6	11.0	22776.7	3194.9	11.0	35144.1
		Improve	ment & Exter	nsion of Water	<b>Supply Schemes</b>	Bandhi Town			
Sada Wah	4389	11.0	48279.0	4544.0	11.0	49983.6	7011.2	11.0	77123.6
Remanabad Water Works	4152	11.0	45672.0	4298.6	11.0	47284.5	6632.6	11.0	72959.1

#### 1.5.9 Scenario if there are any alternative designs options of sub-project

Here are some alternative approaches considered earlier for water supply and drainage systems but not opted for because the scope of proposed project which is to rehabilitate the existing water supply and drainage network infrastructure. On the other hand, these options require high maintenance, less cost effective and not feasible in the current scenario.

**Rainwater Harvesting**: Implementing rainwater harvesting techniques can help collect and store rainwater for later use. This alternative reduces the reliance on underground sources and provides a sustainable water supply.

**Grey water Recycling:** Instead of disposing of grey water from sinks, showers, and washing machines, it can be treated and reused for non-potable purposes such as toilet flushing or irrigation. This approach reduces the strain on freshwater resources and promotes water conservation.

**Decentralized Water Treatment Systems:** Instead of relying on a centralized water treatment plant, decentralized systems can be established at the community level. These systems utilize small-scale treatment methods such as filtration, disinfection, and purification to provide safe drinking water to local residents.

**Sustainable Drainage Systems (SDS):** SDS employ environmentally friendly techniques to manage storm water runoff. This includes features like permeable pavements, green roofs, and rain gardens that help absorb and filter rainwater, reducing the burden on drainage systems and preventing flooding.

**Water Efficiency Measures:** Promoting water-efficient practices and technologies, such as low-flow fixtures, dual-flush toilets, and water-efficient appliances, can significantly reduce water consumption in households, industries, and public facilities.

**Desalination:** In areas where freshwater resources are scarce, desalination plants can be utilized to convert brackish into potable water. Although this option requires substantial investment and energy, it provides an alternative water source for regions facing severe water shortages.

**Water Reuse and Reclamation**: Implementing advanced water treatment processes can enable the reuse of treated wastewater for various non-potable applications, such as irrigation, industrial processes, and groundwater replenishment. This approach reduces the demand for freshwater resources.

Aquifer Recharge: Managed aquifer recharge involves intentionally infiltrating excess surface water into underground aquifers, replenishing depleted groundwater resources. This technique helps to stabilize water levels and improve the sustainability of water supply systems.

**Community-Based Water Systems**: Engaging local communities in the planning, implementation, and maintenance of water supply and drainage systems can foster a sense of ownership and ensure sustainability. This approach empowers communities to take responsibility for their water resources.

Integrated Water Management: Adopting a holistic approach that considers the entire water cycle, including water supply, wastewater treatment, storm-water management, and water conservation, can lead to more efficient and sustainable water management practices.

It's important to assess the specific conditions, needs, and feasibility of each alternative before implementing them in a particular project or region.

## 2 ENVIRONMENTAL AND SOCIAL SCREENING TOOLS

#### 2.1 Environmental and Social Management Screening

Project Area         Shaheed Benazirabad District of Sindh, Pakistan								
Project Title         Sindh Flood Emergency Rehabilitation Program (SFERP), Pⅅ Component, Sindh								
Sub-project Title	Rehabilitation of Damaged Water Supply and Drainage Schemes							

#### **Table 3: Environmental and Social Screening Checklist**

				I	mpact	t Severi	ty	
S.	Screening Questions	Yes	No	Ranking			I	<b>Remarks/Mitigation Measures</b>
No				NR	1	2	3	

#### A. Project Siting

1.	Adjacent to or within any environmentally sensitive areas like Archeological/Cultural heritage site, Protected Forests, Wetlands, Wildlife Sanctuaries, Game Reserves etc.?		$\checkmark$	$\checkmark$		No environmental sensitive or cultural heritage site is in the vicinity of these project areas.
2.	Adjacent to or within any Buffer zone of protected area			$\checkmark$		No buffer zone viz. a sanctuary, forest, national park in its immediate surroundings. A few wild vegetation and trees were found at outside of the proposed boundaries which will not be disturbed during the project activities.
3.	Are there any potential pollution sources in water supply network?	$\checkmark$				Yes, there are few potential pollution sources in the water supply network due to no maintenance and flood affects like damages to the existing infrastructure as the structures are old and material of existing structure

S.	Screening Questions	Yes	No	]	-	t Severi nking	ty	Remarks/Mitigation Measures
No				NR	1	2	3	
								could not stand with flood. The construction work will solely focus on rehabilitation and improvement of the existing system.
4.	Are there any potential sources that can damage drainage network? Or Is it affected by flood?	V						Natural disasters like flood and intensification in the urban population are the main factors for the destruction of existing drainage network. The scope of the proposed schemes is to rehabilitate the existing drainage network to resist with floods and cater the demands properly.
5.	Is there a possibility that the project will adversely affect the local landscape?		V					Local landscape will not be affected by the subproject activities because it doesn't involve establishing of new infrastructure.
6.	Is the project site or discharge area located in protected areas designated by the country's laws or international treaties and conventions?		√					The project sites or discharge areas are not located in protected areas designated by the country's laws or any international treaties and conventions.

#### **B.** Potential Impacts at Construction Phase

7.	Will construction camp site cause land clearing and tree be cutting?	$\checkmark$			No construction camp will be constructed; existing built-in structures will be utilized as camp site. Also, it will not cause any land clearing and tree cutting activity as the subproject activities will involve upgrading existing structures.
8.	Will construction works create any disturbance/ hindrance/obstruction for public movement/access?	V			No such issue of mobility/accessibility issues will be caused during the sub-project development. Few vehicles on specific timings will be used during construction work which will not increase traffic on road. Mitigation Measures:

S.	Screening Questions	Yes	No	]	Impact Severity Ranking			Remarks/Mitigation Measures
No				NR	1	2	3	Ŭ
9.	Is there any sensitive receptor (school, mosque, health unit, community very close to the scheme) that will be impacted due to construction activities?	$\checkmark$						<ul> <li>Reduce traffic speeds on all unpaved surfaces to 15 km/ hour or less.</li> <li>Contractor will strictly implement speed limits and defensive driving policies.</li> <li>Traffic control will be maintained work sites.</li> <li>Contractor machinery and equipment will not hamper the traffic at main road and sites.</li> <li>Necessary training, information will be provided to the workers regarding traffic rules.</li> <li>Some social sensitive receptors might be affected indirectly due to dust, noise or construction vehicles movements but suggested mitigations will reduce it effects.</li> <li>Mitigation Measures:</li> <li>GRM must be communicated to the internal staff and the general public. Community grievances will be recorded and responded to on an urgent basis.</li> <li>Provision of proper safety and diversion signage, particularly at socially sensitive receptors areas;</li> <li>Ensure the placement of a proper sign board that the site is restricted from the entry of irrelevant people particularly children;</li> <li>Timely public notification on planned construction works should be communicated to the communities;</li> <li>Setting up speed limits in close consultation with the traffic police with luminescence sign boards.</li> </ul>

S.	Screening Questions	Yes	No	]	_	t Severi nking	ty	Remarks/Mitigation Measures
No		105		NR	1	2	3	
10.	Will construction activities require tree cutting?							No such activity will be done and if needed then for every tree that needs to be cut down, five saplings of approved tree species will be planted, emphasizing reforestation and the replenishment of tree cover.
11.	Will construction activities result in damaging existing local roads, bridges or other infrastructure?		$\checkmark$					The Sub-project activities do not involve damage to any nearby and existing road, bridge and any other infrastructure. The rehabilitation activities are limited to the demarcated boundary of existing facilities of WS & DS.
12.	Will construction activities generate noise?	V						Yes, noise will be generated from various sources such as plumbing, drilling, generators, rehabilitation activities and vehicular movement that will be limited to the proposed boundary of the sub-project and nearby community will not be affected.
								Mitigation Measures:
								• The contractors would ensure keeping noise levels from construction vehicles and machinery to be within safe limits.
								• Construction activities will not be allowed at nighttime.
								• Noisy machines and vehicles will not be allowed to be used at the sub project sites (noise level will not be more than 85 dBA at 7.5 m distance), properly tuned machinery and vehicles will be allowed only.
								• Workers will use noise protection equipment when working in a noisy area.
								• Notifying and coordinating with locals adjacent to project area prior to construction to inform them of the possibility of temporary

S.	Screening Questions	Yes	No	]	-	t Severi nking	ty	Remarks/Mitigation Measures
No			110	NR	1	2	3	
								noise disruption, and how to report noise complaints in accordance with the proposed GRM.
								The contractor will adhere to the requirements of the mitigation plan contained in the contract documents with true spirit and regular monitored as per SEQs.
13.	Will construction activities generate dust?	$\checkmark$						There will be construction vehicles and machines which may generate dust emissions. The machinery used in rehabilitation work will be tractors and trolleys for fetching material.
								Mitigation Measures:
								• Regular water sprinkling will be the responsibility of the contractor at the dust generation points during construction activities. Water will also be sprinkled at vehicular and machinery movement routes and sensitive receptor's location to avoid dust spreading to the nearby community.
								• Necessary PPE i.e., face mask will be provided to workers.
								• Contractor will ensure that dust emissions due to vehicular traffic are minimized by reducing the speed.
								• Well maintained and tuned vehicles will be used for the transportation and disposal of material.
14.	Will construction activities cause air pollution due to stack emissions from generators, construction machines and vehicles?		V					The activities include rehabilitation of damaged water and drainage schemes in which air pollution at minor extent during the rehabilitation work will be caused. Mitigation Measures:

S.	Screening Questions	Yes	No		-	t Severi nking	ty	Remarks/Mitigation Measures
No	Screening Questions	105	110	NR	1	2	3	Kemai K5/1911ugation 1916asures
								• The emissions from generators, (if used) and vehicular/machinery movement at the site can affect the ambient air quality at sub project sites. It will be the responsibility of the contractor to use well maintained generators and vehicles/machines to keep ambient air quality within the desired level. The contractor will be obliged to provide fitness certificate/maintenance records of the generators, vehicles and machines before deploying them at the construction sites.
15.	Will construction activities cause soil pollution?		V					During construction work, various mitigation measures can be employed to address soil pollution.
								Mitigation Measures:
								• Implementing barriers and containment systems to prevent the spread of pollutants from construction sites to surrounding soil.
								• Ensuring proper disposal of construction waste, including hazardous materials, to prevent soil contamination. This involves following appropriate waste management procedures and regulations.
								• Implementing spill prevention measures and having protocols in place to quickly respond to any accidental spills of chemicals or pollutants that could contaminate the soil.
								• Contaminated soil management: If contaminated soil is encountered during construction, proper management procedures would be followed, including containment, removal, and disposal in accordance with local regulations.

S.				]	-	t Severi nking	ty	
No	Screening Questions	Yes	No	NR	1	2	3	Remarks/Mitigation Measures
16.	Will construction activities generate construction debris?	√						<ul> <li>Regular monitoring: Conducting regular soil quality monitoring throughout the construction process to detect any signs of pollution and take corrective actions promptly.</li> <li>Providing training to construction personnel regarding the importance of soil protection and pollution prevention measures to ensure their active participation in maintaining a pollution-free construction site. By implementing these mitigation measures, construction activities can minimize soil pollution and contribute to environmental sustainability.</li> <li>Yes, as the sub-project will involve civil works for the development of Water Supply and Drainage Schemes, which may generate a very small</li> </ul>
								quantity of construction debris. Mitigation Measures:
								<ul> <li>The debris (rejected material) and WS&amp;DS broken materials produced during construction would be disposed-off in Government approved/allocated disposal sites by engaging third party which is certified from SEPA. Leftover material would not be dumped into storm water drains or watercourses, because such practices can clog these man-made and natural drainage systems and cause many other problems for the residents/Local Commuters.</li> </ul>
17.	Will construction activities generate hazardous solid waste?							No hazardous waste will be generated during construction phase of the project.

S.	Screening Questions	Yes	No	]	-	t Severi nking	ty	Remarks/Mitigation Measures
No	Screening Questions	105	140	NR	1	2	3	Kemarks/witigation wicasures
18.	Will construction take place near to water bodies? Or cause contamination of the surface water resources		$\checkmark$					Yes, there are a few water supply schemes that are near to surface water bodies like canals. The potential impacts of water pollution during the construction can be minimized, helping to protect water resources and aquatic ecosystems in the surrounding area.
								Mitigation Measures:
								• Contractor must provide the following facilities at each campsite: Latrines; lined washing areas; septic tanks, and soaking pits for toilet waste.
								• Soak pits will be built in absorbent soil and located 250 m away from a surface water source or groundwater well.
								• Diesel, oil, and lubricants should be properly stored following petroleum regulations. This will be the responsibility of the contractor.
								• Avoid stockpiling of earth fill especially during the monsoon season unless covered by tarpaulins or plastic sheets;
								• Conduct surface water quality inspection according to the Environmental and Social Management and Monitoring Plan while adhering to SEQS 2016 and WHO standards.
19.	Will construction activities take place near wastewater/ storm water drains and how quality of wastewater will be ensured?	V						Yes, the sub-projects are rehabilitation of water supply and drainage schemes but it will upgrade or restore the existing structures. Wastewater quality analysis will be performed complaint to SEQS 2016 so that contamination or exceedances could be monitored.
20.	Will construction activities result in damaging or relocating the utilities at site like electricity, gas,		$\checkmark$					Neither relocation nor destruction of utilities will be involved in the construction scope. However, the sub-project scope is already restoration

S.	Screening Questions	Yes	No		Impact Severi Ranking		ty	Remarks/Mitigation Measures
No				NR	1	2	3	
	telecommunication etc.?							and rehabilitation of WS&DS of the proposed subproject area.
21.	Will construction activities involve excavation?	V						The excavation will be done for the foundation works of pump house, disposal stations/drainage works, boundary walls, collecting tanks and screening chambers.
								Mitigation Measures:
								• The excavation will be done carefully to avoid the damages.
								• Excavation area will be barricaded.
								• Contractor will use safety signs to warn and aware the local people during construction activities.
								• Contractor will be ensured availability of adequate Personal Protective Equipment (PPE) at the sub-project sites.
								• Risk assessment will be carried out by contractor before initiation of excavation work.
								• The contractor will ensure that all workers on site will be properly trained and certified to handle an excavation machine.
22.	Will construction involve heavy machinery?		V					No, despite few machines like excavators will be used for the civil works on need basis; however, the contractor will ensure safety precautions during construction phase of the sub-projects.
23.	Will construction activities/machines be the safety hazards for the workers or any anticipated OHS impacts?	V						Yes, Occupational Health & Safety issues are anticipated from the proposed rehabilitation work and mitigation measures have been proposed below. Risk can occur from machinery usage, vehicles, and civil work activities.

S.	Screening Questions	Yes	No	]	-	t Severi nking	ty	Remarks/Mitigation Measures
No				NR	1	2	3	
								General occupational hazards that may be encountered (e.g., moving machinery and motorized equipment, working at heights, repetitive motions, falling of objects, injuries etc.
								Mitigation Measures:
								• Ensure and strictly implement the SOPs regarding communicable diseases including daily body temperature check, PPEs, emergency response, and drills.
								• Unauthorized personnel will not be allowed to enter project site without permission and safety permits.
								• Assess the hazards associated with the required works and prepare and follow the safety procedures required for the specific works such as electrical works and works at height.
								• Provision of first aid facilities for workers at site for meeting the emergency needs of workers, and providing basic medical training to specified work staff and basic medical service and supplies to workers.
								• Observe and maintain standards of Health and Safety towards all employees in line with WB EHS Guidelines along with Sindh Occupational Health and Safety Law.
								• Contractor will install safety signs and markings to demarcate the construction zone.
								• Contractor will ensure provision of controlled access points for the prevention of an unauthorized access to the site.

S.	Screening Questions	Yes	No	Impact Severity Ranking			ty	Remarks/Mitigation Measures
No			110	NR	1	2	3	
								• The Contractor will maintain a record of the persons who enter or exit from the sub-project site.

#### C. Potential Social Impacts During Design and Construction

24.	Will involuntary resettlement cause by project implementation? If involuntary resettlement is caused, are efforts made to minimize the impacts caused by the resettlement?		√			There will be no involuntary resettlement because sub-project sites are located in Government own land.
25.	Will there a possibility that the project adversely affects the living conditions of inhabitants?		V			The proposed subproject will positively impact inhabitants and improve their social wellbeing. There is no possibility that the project will adversely affect the living conditions of inhabitants.
26.	Will the construction cause any labor issues such as labor living and working conditions?	V				Labor condition or rights related issues will be complied such as working hours, leaves, benefits, wages, and other related facilities like provision of foods, clean water, transportation etc. However, no labor camps are anticipated as it involves small scale activities which doesn't involve any living conditions.
						Mitigation Measures:
						• The Workers' Grievance Redress Mechanism (GRM) will be developed and communicated among workers to lodge complains.
						• Workers should be provided with clean drinking water for free.
27.	Will construction activities cause		√			No such impacts are anticipated, though following will be applicable to

S.				]	-	t Severi nking	ty	
No	Screening Questions	Yes	No	NR	1	2	3	Remarks/Mitigation Measures
	community Health and Safety issues? Or any other such impacts.							<ul> <li>the project activities.</li> <li>Mitigation Measures:</li> <li>GRM must be communicated to the general public.</li> <li>Close consultation with local communities to identify optimal solutions where needed. Community grievances will be recorded and responded to on an urgent basis.</li> <li>Contractor shall give preference to local community members in subproject areas, to the extent feasible, with respect to the employment of unskilled labor.</li> <li>No Hazardous and non-hazardous waste will be dumped outside any community.</li> <li>There should be sufficient signage to warn of dangers and hazards on a construction or worksite. Signs should be clear and accompanied by ropes, cones, and other equipment to cordon off dangerous areas.</li> <li>Conduct worksite inspections daily to identify any potential dangers or hazards. Dangers and hazards should be cordoned off immediately.</li> </ul>
28.	Have contents of the project and the potential impacts been adequately explained to the Local stakeholders based on appropriate procedures, including information disclosure?	V						Local Stakeholders have been consulted and their comments mentioned in stakeholders' consultation have been noted which will be addressed with true spirit during construction phase.

S.	Samaning Omotions	Vag	No	J	-	t Severi nking	ty	Demonto Mitication Macauna	
No	Screening Questions	Yes	INO	NR	1	2 3		Remarks/Mitigation Measures	
29.	Will the construction activities cause the socio- cultural issues or conflicts among workers and communities?	V						<ul> <li>Contractor should take proper measures and raise awareness among the communities and workers to address and resolve issues relating to harassment, intimidation (particularly those related to issues of labor influx), and exploitation, especially against women.</li> <li>Measures to prevent Gender based violence (GBV), Sexua Exploitation and Abuse (SEA) and Sexual Harassment (SH) the Contractor must include relevant clauses in the workers' code of conduct.</li> <li>Workers should not be allowed to crowd in the residential communitie nearby the site.</li> </ul>	
30.	Are appropriate measures taken to ensure that security guards involved in the project not to violate safety of other individuals involved, or local residents?	V						Yes, as the security guards will be deployed at subproject sites and they are not allowed to move outside or provide entrance to anybody without permission of the site engineer.	
	NR: Not Relevant <ol> <li>No or Minor Impact</li> <li>Moderate, Short Term, Reversible Impact</li> <li>Severe, Long Term, Irreversible Impact</li> </ol>								
	Category					А		ВС	
	Environmental Management Required	1				N/A		N/A $$	
	Type of Environmental Management Tool to be Used					Social and Environmental Screening Checklist			

# **3** STAKEHOLDER CONSULTATION

Stakeholder consultation during a construction project is crucial for ensuring transparency, addressing concerns, and promoting collaborative decision-making.

# Table 4: List of Stakeholders Consulted for Water Supply and Drainage Schemes of Shaheed Benazirabad

2. 3.	Main Disposal works Jamshed Colony Sahafi Disposal Works Ghulam Rasool shah Colony Disposal	Jamshed Colony Sahafi Colony	1/8/2023
3.	Ghulam Rasool shah Colony Disposal	Sahafi Colony	4 10 10 0 0 0 0
	• •		1/8/2023
	Works	Ghulam Rasool shah Colony	1/8/2023
4.	Taj & Azam Colonies Disposal Works	Taj Colony	1/8/2023
5.	Gharibabad Disposal works	Gharibabad	1/8/2023
6.	Railway Station Colony	Station Road	4/8/2023
7.	Mehran & Jamali Colony	Jamali Colony	4/8/2023
8.	Sanghar Road, UC-9	Millat Town	3/8/2023
9.	Baloch Colony	Baloch Colony	4/8/2023
10.	Lakha Disposal Works	Shabbir Khan Bangwar	2/8/2023
11.	Ghulam Haider Shah	Mehreen Garden	2/8/2023
12.	Awami Colony	Awami Colony 1 Pathan Colony	2/8/2023
13.	Azeem Colony	University Town	2/8/2023
14.	Irrigation Bagh Disposal Works	Model Colony	3/8/2023
15.	Gharibabad Disposal Works	Garibabad	3/8/2023
16.	Ali Abad Disposal Works	Ali Abad	7/8/2023
17.	Raza Abad Disposal Works	Raza Abad	7/8/2023
18.	Bucheri Town Zone-A	Bucheri town	5/8/2023
19.	Bucheri Town Zone-B	Bucheri town	5/8/2023
20.	Madina Colony Zone-A	Goth Feri Khan Jamali	5/8/2023
21.	Zone-B Bandhi	New Town	8/8/2023
22.	Zone-C Disposal Bndhi Town	Bandhi Town	8/8/2023
23.	Zone D- Near Jamali Colony	Jamali Colony	8/8/2023
24.	Ammerji Water supply Scheme	Usman Colony	8/8/2023
25.	Gajrah Wah water supply scheme	Deh 94 Nasrat Village Bawa	9/8/2023
26.	Sada Wah Water Supply Scheme	Goth Shah Wali	9/8/2023
27.	Rehman abad Water Works	Rahman abad	9/8/2023

# 3.1 Community Concerns

Comments /Observations	Action /Response
Discussion regarding the importance and usefulness of rehabilitation of water supplies and drainage schemes was held.	The participants were briefed that the proposed Water Supply & Drainage Schemes will provide safe drinking water and updated drainage system which will uplift the socio-economic condition of the areas.
Community members showed concerns about the overall impact of the water supply and drainage schemes on public health and sanitation.	Community was explained the positive health outcomes associated with improved access to clean water, proper sanitation facilities, and effective drainage systems. Any specific health concerns raised by the community and outline measures taken to ensure public safety will be addressed properly.
Community members were asked about the problems and issues they had faced after flood or during monsoon season.	They informed the team that there is serious load shedding issue in the area which is a major cause of destruction of current water supply and drainage system. Pumps and rising mains issues must be resolved as well as cleaning of drains must be done on usual basis. Solar panels are installed but most of them are out of order due to lack of maintenance issue.
Stakeholders/ Local Community members asked about the operations of Water Supply & Drainage Schemes.	The team responded that safe drinking water will be provided to the community without any interruption and storm water will be disposed of in safe manners.
Local Community inquired about the project execution and its completion.	The technical team replied that the project will be commenced in October, 2023 and will be completed in April, 2025. The rehabilitation work will be limited to the existing facilities of the proposed project area and it will be completed in 18 months.
The community urged to provide of semi-skilled and unskilled jobs for local labor.	Unskilled jobs will be given to local's people where possible.
In the sub-project area, women fetch water from a distance of 2-4 km. After completing their morning chores, some of them also bring their livestock to the watercourses for drinking. Some community	It was explained that local labor will be hired to execute the project and all employees will be trained to take care of local norms/culture and privacy of people.
members showed their reservation that privacy of the local communities might not be compromised.	No interaction of labor with women and children would be happened.

Community members showed reservation about	Community was apprised about that PHED is			
the long-term maintenance and sustainability of	overseeing the project, the Department will			
the water supply and drainage schemes.	ensure operation and maintenance plans, and any			
	measures taken to ensure the infrastructure's			
	long-term viability. All the Schemes under			
	rehabilitation have operational staff hired by the			
	GoS.			
Community also raised concerns about the	Community was assured that these disruptions			

construction activities associated with water will be minimized to the extent possible, provide supply and drainage schemes can cause disruptions to daily life, including noise, dust, traffic congestion, and temporary service interruptions.

Community had reservations about the proper maintenance of rehabilitated system and no availability of resources.

Community requested to conduct a comprehensive needs assessment to understand the water supply and drainage network gaps and challenges faced by the community.

utilization. Community was intimated that the proposed subproject is going to be implemented after the detailed need assessment and damages caused by

a clear timeline of the construction activities, and

communicate any alternative arrangements made

Community was informed that after rehabilitation

works the system will be handed over to PHED

who do proper maintenance and resource

to mitigate inconveniences.



flood.

Village Shahmeer Khan Bangwar, Taluka Nawabshah

**Taluka Bucheri Town** 





Goth Fehri Khan Jamali, Taluka Bandhi

Sada Wah Water Supply Scheme, Taluka Bandhi



Village New Town, Taluka Daur



Ghulam Rasool shah Colony Disposal Works, Taluka Nawabshah



Nawabshah main disposal drainage scheme, Ditrict Nawabshah



Raza Abad Disposal Works, Taluka Daur

#### Figure 2: Stakeholders Consultation

#### **3.2** Institutional Consultation

The Environment and Social team conducted consultations with concerned Government Department in August, 2023. The team briefed the officers of Government Departments regarding the salient features of the proposed sub-projects. It was informed that the "Detailed Design of the Project, under PIU-SFERP-P&DD being implemented and funded by the World Bank. They were informed that the project intends to rehabilitate the damaged Water Supply and Drainage Schemes destroyed in flood 2022. The primary goal of the project is to meet the present and future requirements regarding provision of safe drinking water and drainage system. It was also briefed that the project will bring positive impacts on the lives of the local population.

According to the officials, the rehabilitation/restoration of the proposed Schemes will be beneficial for the residents of the project regions. The officials expressed their support for the planned project during the meeting and assured their full cooperation as a Line Department.

Sr. No	Department
1.	XEN PHED Department
2.	Deputy Director SEPA
3.	Representative of Municipal Administrator

Comments/Observations	Actions/ Responses
The majority of the stakeholders showed positive attitudes toward the rehabilitation of water supply and drainage schemes.	In general, the participants were in favor of the project and agreed that it is greatly needed because Water Supply and Drainage Schemes have been dilapidated in devastated floods 2022.
Detailed discussions were held regarding the environmental and social issues of the area due to proposed rehabilitation activity.	The project will not cast adverse impact on population, flora and fauna of the area. The project lies in Govt. owned land and no major social and environmental issues are anticipated during construction phase of the project. However, mitigation measures will be proposed to combat environmental degradation.
The stakeholders suggested that the establishment of the proposed project would uplift the socio-economic condition of the community in the project areas.	The team acknowledged and responded that the proposed Water Supply and Drainage Schemes will be beneficial for community residing in the area. The living standard of the community would be elevated after rehabilitation of the schemes.
The stakeholders suggested that care must be given to protect fauna and flora during the construction phase.	The plantation would be undertaken with the preference of local species; no exotic species will be promoted. No cutting of trees will be involved during the execution of the project activities. Plantation activity will be done around the boundary wall to enhance aesthetic beauty of the project area. It will be monitored to cut minimum number of trees. At few sites, trees will be cut or

#### Table 5: Summary of Concerns Raised by Institutional Stakeholders

Actions/ Responses		
chopped and 1:10 trees will be planted in compensation and the Line Department would be responsible for caring the newly planted trees after construction phase.		
Social and environmental teams briefed about the mitigation measures will be adopted to control dust, noise, health, and safety issues. Excess material will be removed and flattened. There are no issues regarding land acquisition, the land is vacant and owned by the Government. If the issues occur, then these matters will be dealt with Revenue Department.		

The stakeholders suggested to engage local people during project activities and considering the women privacy that not be affected. The teams responded that locals will be considered during construction activities while during operation priority will be given to the locals if not available then will be sourced from other regions. There are no settlements near the proposed projects, therefore, conflicts with the community and women are not expected. It was assured that norms, ethics and traditions of community will not be disturbed.



**Figure 3: Institutional Consultation** 

# 4 ENVIRONMENTAL AND SOCIAL MANAGEMENT & MONITORING PLAN

The purpose of the ESMMP for the rehabilitation works is to ensure that all necessary identified measures should be adopted during construction and operation phase for all schemes to protect the environment and social situations and to comply with the country's environmental and social legislation and applicable World Bank standards. After the preparation of ESMF, PIU has outlined site-specific EMP for the Contractors and executing agency.

Sr. No.	Activity	Potential Impacts	Mitigation Measures	Monitoring & Reporting Frequency	Responsibility
1.	Land Use	Construction Phase - Civil Works	- The work will be carried out in the land of PHED which comprised of rehabilitation work only.	NA	None
		Operation Phase . None	<ul> <li>No need to clear land or cutting of trees is envisaged.</li> </ul>		
2.	Dust Emission	Movement of construction vehicles. <b>Operation Phase</b>	<ul> <li>Water will be sprinkled daily or when as required to avoid the dust emission near proposed project vicinity.</li> <li>For dust control, cordon off the construction area through dust control net.</li> </ul>	Daily during Construction Phase	<b>Construction phase</b> Contractor

#### Table 6: Environmental and Social Management and Monitoring Plan (ESMMP)

Sr. No.	Activity	<b>Potential Impacts</b>	Mitigation Measures	Monitoring & Reporting Frequency	Responsibility
3.	Noise Emission	Construction PhaseConstructionEquipment,Generator, Vehicle MovementOperation PhaseNoneImage: State St	- Proper design, maintenance an repair of construction machiner and equipment will be ensured.	•	<b>Construction phase</b> Contractor
4.	Water Management	Construction Phase Construction activities Water sprinkling for dust minimization Operation Phase Supply of water and maintaining its quality will be managed by the PHED	<ul> <li>Contractor will handle an manage waste generated from the construction activitie without contamination to natura environment/water bodies and it will reduce risk to general public who stay close to sites.</li> <li>Water contamination durin construction will be avoided through proper disinfection.</li> <li>Excess use of water will be avoided and monitored i routine basis.</li> <li>Water Tankers/water bowser and bore water will be propose for the utilization of wated during project activities.</li> <li>Clean and safe drinking wated</li> </ul>	<ul> <li>Water quality</li> <li>analysis at the</li> <li>beginning and end of</li> <li>construction phase</li> </ul>	Contractor Operational phase PHED

Sr. No.	Activity	Potential Impacts		Mitigation Measures	Monitoring & Reporting Frequency	Responsibility
				during working hours.		
5.	Ecological Impact	Construction Phase Construction activities Clearance of top Soil No habitat loss No tree cutting at site <b>Operation Phase</b> None	-	As the subproject develops, plantation is grown in and around the subproject vicinity as a CSR.	None	None
6.	Solid Waste Management	<b>Construction Phase</b> In construction phase, cement bags, woods remain, debris will be generated.	-	Waste reduction methodologies will be implemented. On spot segregation will be ensured.	Daily during Construction Phase	<b>Construction phase</b> Contractor
		<b>Operation Phase</b> Food Waste and Recyclables Material like; paper, plastic etc.	-	Covered bins shall be ensured. Separate Bins for recyclable material and other type of solid waste shall be ensured. Ensure the disposal of waste properly from the site on daily basis to avoid odor and maintained the site esthetics. Food waste will be disposed of		<b>Operational phase</b> PHED

Sr. No.	Activity	Potential Impacts	Mitigation Measures	Monitoring & Reporting Frequency	Responsibility
			<ul> <li>separately.</li> <li>Waste inventory of hazardous and non-hazardous waste generated will be prepared and periodically updated.</li> </ul>		
			- Scrap metal waste generated from designing and construction activities will be collected and stored separately in a waste yard and sold to local recyclers for reuse purposes.		
			- Solid waste generated during construction and operation activities will be segregated disposed of appropriately.		
			- Waste will be disposed of properly at designated disposal area.		
			- Food waste and recyclables viz. paper, plastic, glass etc. will be stored in designated waste bins /containers. The recyclables will be periodically sold to local recyclers while food waste will be disposed through proper waste handling mechanism.		

Sr. No.	Activity	Potential Impacts	Mitigation Measures		Monitoring & Reporting Frequency	Responsibility
			-	Separate bins with symbols shall be placed at construction area.		
			-	Secondary containment shall be ensured to avoid the leakages and seepages.		
			-	Waste disposal will not be allowed in agriculture lands.		
7.	Soil and Land Contamination	<b>Construction Phase</b> No any chemical or hazardous substance is used in the construction phase therefore there is no chance of soil or land contamination	-	Debris, Waste generated from construction material will be properly covered and stored and disposed-off periodically during the construction phase. No leftover construction waste will be left on the site. Maintenance	Weekly during Construction Phase	<b>Construction phase</b> Contractor
		<b>Operation Phase</b> None	of mach carried of to avoid a	of machinery will only be carried out at designated places to avoid any fuel spill if require. Reinstate and protect cleared		<b>Operational phase</b> PHED
			-	areas as soon as possible. Cover unused area of disturbed or exposed surfaces immediately with mulch/grass turnings/tree plantations.		
			-	Locate stockpiles away from drainage lines.		

Sr. No.	Activity	Potential Impacts	Mitigation Measures	Monitoring & Reporting Frequency	Responsibility
			- Remove debris from drainage paths and sediment control structures.		
			- Keep the final or finished surface of all the raised lands free from any kind of depression that causes water logging.		
			- Reinstate the natural landscape of the ancillary construction sites after completion of works.		
8.	Waste Water	Construction Phase	- Conduct daily inspections at the	- Visual inspection on	Construction phase
		Water used in the construction material during preparing bed	site to ensure removal of construction debris.	daily basis during Construction Phase	Contractor
	and lean activity, construction of pump house, septic tanks, LSRs and other works	- Store construction material containing fine particles in an enclosure so that sediment laden	- Wastewater quality analysis at the beginning and end of		
		<b>Operation Phase</b>	water does not drain into nearby water drains.	construction phase	
	Sanitary waste water from the office	- Sanitary waste will be drained to the drainage system properly.			

Sr. No.	Activity	Potential Impacts		Mitigation Measures	Monitoring & Reporting Frequency	Responsibility
9.	Safety Hazards	Construction Phase Project related vehicular traffic Driving Injuries related with civil works and electrical works Heat Waves	-	Ensure the World Bank EHS guideline will be followed. Personal Protective Equipment will be provided during construction to the workers. First Aid kits will be provided at	Daily during Construction and operation phase	<b>Construction phase</b> Contractor
		Cold Waves Communicable Diseases	-	sites. Strict code of conduct will be followed. Make safety precautions and display on the notice board of entry gate in both national and		<b>Operational phase</b> PHED
		<b>Operation Phase</b> Injuries during Operational phase	<ul><li>local language.</li><li>During heat wave, working hours will be revised to make sure that labor work force work only in early hours or late evening hours.</li><li>Monitoring weather forecasts for outdoor work to provide advance warning of extreme</li></ul>			
			-	<ul><li>weather and scheduling work accordingly.</li><li>Adjustment of work and rest periods according to</li></ul>		

Sr. No.	Activity	Potential Impacts	Mitigation Measures	Monitoring & Reporting Frequency	Responsibility
			temperature stress management procedures such as providing easy access to adequate hydration such as drinking water or electrolyte drinks depending on the temperature and workloads.		
			- Providing temporary shelters to protect against the elements during working activities or for use as rest areas.		
			- Implementation of health and hygiene practices to mitigate the communicable diseases.		
10.	Socio-Economic	Construction Phase	- Plan temporary traffic	<b>Construction Phase</b>	Construction phase
	Environment	Traffic and vehicle movement	arrangements during construction within the construction area. Review the	GRM for labor and community	Contractor
		Noise generated formplan periodically with respect tosubproject activitiessite conditions.			
			- Give special consideration to local traffic management.		
		Labor requirement form the nearby area	- Take adequate precautions to		<b>Operational phase</b>
		Occupational health & safety issue of working labor	prevent danger from electrical equipment (switches and		PHED

Sr. No.	Activity	Potential Impacts	Mitigation Measures	Monitoring & Reporting Frequency	Responsibility
		<b>Operation Phase</b> Employment opportunities Awareness to local people to emergency situation Gender Issues, Gender inclusion GBS and VAC related impacts	<ul> <li>wiring).</li> <li>Provide a readily available first aid unit including an adequate supply of sterilized dressing material and appliances.</li> <li>Community liaison will be maintained during the construction stage and GRM will be develop and ensure the accessibility to the local community and labor.</li> </ul>		

# **5 PICTORIAL PROFILE OF PROJECT SITES**

## 5.1 Awami Colony Drainage Scheme Including Storm Water, Taluka Nawabshah



5.2 Drainage Scheme Bandhi Town Scheme Madina Colony Zone A, Taluka Daur



5.3 Improvement & Extension of Urban Water Supply Scheme, Taluka Daur



## 5.4 Drainage Scheme Raza Abad Disposal Zone D, Taluka Daur District Shaheed Benazirabad



5.5 Sahafi Colony Drainage Scheme (Taluka Nawab Shah) Distt Shaheed Benazirabad



5.6 Water Supply Scheme Rehmanabad Bandhi Town Taluka Daur District Shaheed Benazirabad



# 6 ENVIRONMENTAL AND SOCIAL IMPLEMENTATION BUDGET

There are total 27 schemes in District Shaheed Benazirabad in which 23 are Drainage Schemes and 04 are water supply schemes. Environmental Quality Analysis for Air Quality Monitoring, Testing of Water Quality and Noise Level Determination will be conducted at each sub-project site, starting and at completion of the sub-projects. The detail of cost has been given in table below. It is worthy to mention here that sub-projects are in Government owned land and there will be no social issue during the rehabilitation work.

## Table 7: Environmental Compliance Cost

Item No.	Item	Rational	Frequency	Average Rate (Rs.)/unit*	Site-wise Quantity	No of units/sites	Total Quantity	Estimated Amount (Rs.)
A. Enviro	onmental Analysis at Start of	Civil Works						
1	Wastewater	1 Sample from Each Drainage Scheme	Once at the Start of Construction	17,000	1	23	23	391,000
2	Drinking Water	One Sample from each water supply scheme		15,000	1	4	4	60,000
3	Ambient Air	1 Sample from each subproject scheme		15,000	1	27	27	405,000
4	Ambient Noise	1 Sample from each subproject scheme		1,000	1	27	27	27,000
					1	S	ub Total - A	492,000
B. Enviro	onmental Analysis Cost at Co	mpletion Phase (18 months)						
1	Drinking Water	One from camp area at each water supply scheme site	Once at the End of Construction	15,000	1	4	4	60,000
2	Wastewater	1 Sample from Each Drainage Scheme		17,000	1	23	23	391,000
3	Generators/Stack Emission (If available)	One Sample from construction site		10,000	1	27	27	270,000
4	Ambient Air	One from the camp area		15,000	1	27	27	405,000
5	Ambient Noise	One from the camp area		1,000	1	27	27	27,000
6	Mobilization Charges	At each water supply and drainage scheme		10,000	1	27	27	270,000

						Sub Total - B	1,423,000
C. EHS	Management						
1	Personal Protective Equipment	Bi annual	6,000	1	27	27	162,000
2 Waste Disposal from Construction Sites							100,000
3	3Project dissemination materials such as banners, flayers, notice board etc.10000127					27	270,000
			•			Sub Total - C	532,000
D. EHS	Administrative Cost						
1	Training/Capacity Building (Environment, Social, Gender, & OHS)	50 persons	20,000	1	27	27	540,000
2	Social Expert (for social compliance & GRM implementation) Salary		120,000	18	1	18	2,160,000
3	GRM running & General Community support needs (if any)					Lump sum	500,000
4	Environmental & OHS Officer Salaries (120 thousand for	each person)	120,000	18	1	18	2,160,000
				1	1	Sub Total - D	5,360,000
					TOTAL	OF (A TO D)	7,807,000

\* Schemes wise testing will be performed at start of civil works

# 7 OPERATION AND MAINTENANCE (O&M)

Operation and maintenance (O&M) of Water Supply (WS) and Drainage Systems is a critical task that ensures the continued provision of safe and reliable water and drainage services to communities. O&M activities can be divided into two main categories: preventive maintenance and corrective maintenance.

Preventive maintenance is carried out on a regular basis to prevent problems from occurring. This includes activities such as cleaning and inspecting pipes, valves, and other equipment; lubricating the moving machines etc. Corrective maintenance is carried out to address problems that have already occurred. This includes activities such as repairing broken pipes, replacing damaged equipment, and clearing blockages in drainage systems. In addition, the PHED should also ensure timely procurement of disinfectant chemicals for disinfection of the water and keep a sufficient stock of such chemicals so that there is no interruption in making the water safe for human consumption.

O&M of WS and Drainage Systems is a complex and challenging task. It requires a skilled workforce, a well-maintained inventory of spare parts, and a comprehensive set of procedures and documentation. However, the benefits of effective O&M are significant. By preventing problems from occurring and addressing problems quickly, O&M can help to ensure the continued provision of safe and reliable water services to communities. After completion of rehabilitation work, the project will be handed over to the PHED who will operate and maintain the project. PHED department has technical staff for operation and maintenance of proposed rehabilitation schemes. Moreover, GoS yearly allocates substantial budget for operation and maintenance of these schemes. After rehabilitation these schemes will be operationalized under PHED through its O&M section which is adequately staffed with required skills and expertise. Training of these staff would be required to operate new machinery installed during rehabilitation.

# 7.1 Key aspects of O&M for WSS and Drainage systems:

#### 7.1.1 Operation:

- i. Regular monitoring of water sources, such as reservoirs, wells, or treatment plants, to ensure a consistent water supply.
- ii. Operation of pumps, valves, and control systems to regulate the flow of water through the distribution network.
- iii. Monitoring and maintaining water pressure levels within acceptable limits.
- iv. Disinfecting the water all the times prior to supplying to the consumers.
- v. Managing water quality, including regular testing and treatment to ensure compliance with health and safety standards.
- vi. Coordinating with the local community and consumers to address their water supply needs and concerns.

#### 7.1.2 Maintenance

- i. Routine inspection of pipelines, valves, and fittings to identify and repair leaks, cracks, or any other damages.
- ii. Clearing blockages in pipelines, channels, and drains to maintain an unobstructed flow of water.

- iii. Cleaning and desilting of reservoirs, tanks, and drainage channels to prevent sedimentation and maintain capacity. After every cleanup operation, the tanks, reservoirs and / or pipelines must be disinfected prior to putting them back to use.
- iv. Repair and maintenance of water treatment plants, pumping stations, and other infrastructure components.
- v. Regular calibration and maintenance of measuring instruments and control systems.
- vi. Periodic maintenance of equipment such as pumps, motors, and generators.

#### 7.1.3 Emergency Response

- i. Developing contingency plans and emergency response protocols to address unexpected events such as equipment failures, natural disasters, or water contamination incidents.
- ii. Establishing a communication system to notify the public and relevant authorities in case of emergencies.
- iii. Rapid response and repair of damages during emergencies to restore the system's functionality as quickly as possible.

#### 7.1.4 Water Conservation

- i. Implementing water conservation measures, such as promoting public awareness campaigns, encouraging responsible water usage, and identifying and repairing water wastage points.
- ii. Monitoring and managing water losses and leakages in the distribution network.
- iii. Regular assessment and optimization of the system to reduce energy consumption and improve overall efficiency.

#### 7.1.5 Data Management

- i. Maintaining comprehensive records of system performance, maintenance activities, and water quality data.
- ii. Utilizing data analysis and predictive modeling to optimize the operation and maintenance activities.
- iii. Incorporating modern technologies, such as remote sensing, real-time monitoring systems, and data analytics, to improve decision-making and efficiency.

#### 7.1.6 Documentation and Handover

- i. Compile project documentation (operation and maintenance manuals, as-built drawings, warranties).
- ii. Hand over documentation to the PHED for future reference.

#### 7.1.7 Facilities Management

- i. Establish a comprehensive facilities management plan.
- ii. Outline responsibilities, protocols, and schedules for maintenance, inspections, repairs, and upgrades.

#### 7.1.8 Staffing and Training

- i. Increase adequate staffing.
- ii. Provide necessary training for personnel deputed for O&M.
- iii. Increase maintenance technicians, engineers, custodial staff, security personnel, and administrative support.

#### 7.1.9 Preventive Maintenance

- i. Implement a preventive maintenance program.
- ii. Conduct regular inspections, cleaning, lubrication, adjustments, and equipment testing.

#### 7.1.10 Repairs and Corrective Maintenance

- i. Respond promptly to issues and conduct repairs.
- ii. Establish an inventory of spare parts.
- iii. Maintain relationships with reliable contractors or suppliers.

#### 7.1.11 Safety and Compliance

- i. Enforce safety protocols.
- ii. Conduct regular inspections and provide safety training.
- iii. Ensure compliance with relevant codes and regulations.

#### 7.1.12 Energy Efficiency and Sustainability

- i. Promote energy efficiency and sustainable practices.
- ii. Implement energy management systems.
- iii. Optimize equipment performance.
- iv. Utilize renewable energy sources and green building practices.

#### 7.1.13 Asset Management

- i. Track and monitor equipment and systems.
- ii. Maintain an asset inventory.
- iii. Conduct periodic assessments and plan for replacements or upgrades.

#### 7.1.14 Stakeholder Communication

- i. Establish clear communication channels.
- ii. Receive and address maintenance requests.
- iii. Maintain effective communication with stakeholders.

#### 7.1.15 Continuous Improvement

- i. Regularly evaluate and seek feedback.
- ii. Analyze maintenance records.

- iii. Conduct user surveys.
- iv. Involve the maintenance team in identifying areas for improvement.

#### 7.1.16 Cleaning and maintenance of solar system

- i. Regularly clean solar panels to remove dust, debris, and dirt.
- ii. Inspect for any damage or wear and tear on the panels.
- iii. Check the wiring and connections for any loose or damaged parts.
- iv. Monitor the performance of the solar system to ensure it is generating the expected amount of energy.
- v. Conduct preventive maintenance such as tightening bolts and screws, and replacing faulty components.
- vi. Schedule professional inspections and maintenance by qualified solar technicians.
- vii. Keep records of cleaning and maintenance activities for future reference.
- viii. Follow manufacturer's guidelines and recommendations for cleaning and maintenance.
- ix. Consider scheduling cleaning during periods of low sunlight or in cooler temperatures for safety reasons.
- x. Ensure the safety of personnel when performing maintenance tasks on the solar system.

#### 7.1.17 Regular maintenance and monitoring of Hypo-chlorinator

- i. Routine inspections: Conduct regular inspections of the hypo-chlorinator system to identify any visible signs of damage, leaks, or malfunctions. Inspect all components, including injection systems, pipes, valves, and storage tanks.
- ii. Calibration of equipment: Calibrate the hypo-chlorinator equipment periodically to ensure accurate dosing or injection of chlorine. Follow the manufacturer's guidelines for calibration procedures and frequency.
- iii. Replacement of parts: Replace worn-out or damaged parts of the hypo-chlorinator system as needed. This may include valves, seals, gaskets, tubing, or other components. Use genuine manufacturer-approved parts for replacements.
- iv. Monitoring chlorine levels: Regularly monitor chlorine levels in the water supply to ensure that the desired disinfection levels are being maintained. This can be done through manual sampling and testing or by using automated monitoring systems. Adjust the hypo-chlorinator settings if necessary to achieve the desired chlorine concentration.
- v. System optimization: Continuously assess the performance of the hypo-chlorinator system and optimize its operation for efficiency and effectiveness. This may involve adjusting dosing rates, ensuring proper mixing of chlorine, optimizing contact time, and considering factors such as water temperature and flow rate.
- vi. Documentation: Maintain detailed records of maintenance activities, inspections, calibrations, and chlorine monitoring results. This documentation serves as a reference for future maintenance, helps track system performance, and aids in regulatory compliance.

vii. Training and awareness: Regularly train and update the personnel responsible for operating and maintaining the hypo-chlorinator system. Ensure they are aware of proper maintenance procedures, safety protocols, emergency response measures, and any updates or changes in regulations.

#### 7.1.18 PHED Responsibility

- i. PHED solely responsible for operation and maintenance.
- ii. Customize O&M plans for long-term success.

Overall, O&M of WSS and Drainage System requires a combination of technical expertise, regular monitoring, preventive maintenance, and prompt response to ensure the uninterrupted supply of clean water and effective wastewater management. The Public Health Engineering Division (PHED) would typically be responsible for the operation and maintenance of public infrastructure projects related to Water Supply and Drainage System. They would be the primary entity overseeing the operation and maintenance activities to ensure the functionality and sustainability of the constructed assets. By considering these aspects and implementing effective O&M practices, the project can function optimally and provide long-term benefits to its users and stakeholders.

# 7.2 Key benefits of effective O&M of WSS and Drainage Systems

- i. **Improved water quality:** O&M activities can help to prevent the contamination of water supplies, which can lead to waterborne diseases.
- ii. **Increased water availability**: O&M activities can help to reduce leakages and improve the efficiency of water distribution systems, which can lead to increased water availability for communities.
- iii. **Reduced flooding:** O&M activities can help to prevent flooding by clearing blockages in drainage systems and improving the capacity of storm water management systems.
- iv. **Improved public health:** O&M activities can help to prevent the spread of waterborne diseases by improving the quality of water supplies and reducing the risk of flooding.
- v. **Increased property values:** Communities with well-maintained WSS and drainage systems typically have higher property values.

The cost of O&M can be significant, but the benefits far outweigh the costs. By investing in effective O&M, communities can ensure the continued provision of safe and reliable water services to their residents.

# **ANNEXURE 1:**

**Environmental & Social Screening Checklist of All Schemes of District Shaheed Benazirabad** 

Annexure 2: Environmental & Social Screening Checklist of All Schemes of District Shaheed
Benazirabad

SINDH FLOOD EMERGENCY REHABILITATION SUBPROJECT (SFERP) ENVIRONMENTAL & SOCIAL SCREENING CHECKLIST OF SUB-SUBPROJECT					
Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes					
Sector:	Public Health Engineering Department (PHED)				
Subproject Location:	Shaheed Benazirabad, Sindh				
Schemes Location:	Main Disposal works Jamshed Colony	Coordinates:			
	(Nawabshah City)	E=442304.44m N= 2902364.98m			
Date:	1/8/2023				

Screening Question	Yes	No	Remarks
PHYSICAL E	NVIR	ONME	NT
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		~	The site is devoid of vegetation. No such activity will take place that causes this risk.
Will the proposed subproject activities pose a risk of <b>contaminating drinking water sources</b> due to construction activities?	✓		The risk of contaminating drinking water sources would be short-term only during the construction phase of rehabilitation works of existing system and its associated facilities.
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	✓		Yes, flood and improper maintenance are the potential sources of destruction of drainage network
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		~	Water from tankers and bowsers will be utilized during construction.
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	✓		Negligible impacts will be posed only during the construction phase that will be mitigated.
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	✓		Negligible impacts will be posed only during the construction phase that will be mitigated.
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		~	No, proper implementation of mitigations and maintenance of equipment, and machinery will be done to keep levels within limits.
Will the proposed subproject activities lead to increased <b>soil erosion?</b>		√	Rehabilitation works do not involve any activity that will increase soil erosion

Screening Question	Yes	No	Remarks
Will the proposed subproject interventions result in	✓		Less quantity of debris and construction
the generation of hazardous and/or non-hazardous			waste will be generated which will be
waste?			handed over to the waste contractor for
			safe disposal.
Will the proposed subproject interventions result in		✓	Workers from nearby localities will be
potentially increased health risks for subproject			commuted daily for a specific duration
workers and communities (e.g., communicable			so it would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		✓	The Subproject area does not come
implemented in an area with high natural hazard			under the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)		<u>.</u>	
ECOLOGICAL	ENVI	RONM	ENT
Will the proposed subproject interventions potentially		✓	No, as it will be limited to the specified
cause any adverse impacts on habitats, ecosystems,			areas of urban settlements.
and/or ecosystem services?			
Will any rehabilitation work be located in areas that		✓	Rehabilitation work does not include the
would promote the <b>conversion of natural habitats</b> ?			conversion of natural habitat as it will
			only upgrade the existing damaged
			utilities.
Will any proposed subproject interventions be located		✓	No, there are no protected areas situated
on or near sensitive environmental areas, including			in nearby surroundings.
national parks and protected areas?			
Are the proposed subproject interventions activities		✓	Fauna of urban nature is found around
likely to pose risks to any endangered species?			subproject area that comes under the
			least concern status of the IUCN Red
			List.
SOCIAL EN	VIRO		
Will the proposed subproject activities involve land		~	Subproject land is owned by GoS.
acquisition?			
Are there any forced labor or child labor risks		✓	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to
involved in implementing this proposed subproject			hire only those people who have valid
intervention?			CNIC or are at least 18 years old.
Is <b>labor influx</b> ( <b>outside labor force</b> ) expected during		✓	No, locals of the area would be given
the construction of the proposed subproject?			preference for skilled and non-skilled
Will loop labor he used for the proposed subgratient	<u> </u>		jobs.
Will <b>local labor</b> be used for the proposed subproject construction activities?	·		Yes, locals of the area will be given preference first.
		√	Rehabilitation works will be done for
Will there be any <b>temporary or permanent</b> <b>displacement</b> as a result of the proposed subproject		•	existing utilities that exist in a
construction or operation activities?			demarcated area.
	✓		Minor impacts only during construction.
Are there expected to be any <b>traffic-related issues</b> as a result of the proposed subproject intervention	Ţ		winter impacts only during construction.
activities, particularly during the construction phase?			
activities, particularly during the construction phase?	L	<u>.</u>	<u>i</u>

Screening Question	Yes	No	Remarks
Are the proposed subproject activities likely to have		✓	No such category is present in the
impacts on important religious/cultural heritage			subproject area.
sites?			
Have there been any past security-related issues at		$\checkmark$	No, as the rehabilitation work involves
the proposed subproject sites?			the upgradation or restoration of existing
			facilities or in a close periphery.
Has stakeholder engagement taken place in the		$\checkmark$	No, the subproject area is situated in an
proposed subproject areas?			urban settlement and on government-
			owned land.
Were vulnerable groups involved in stakeholder	✓		Community requested to conduct a
consultations? (e.g., women, minorities,			comprehensive needs assessment to
economically disadvantaged individuals, etc.)			understand the water supply demands
			and challenges in the area.

1/8/2023

Date:

# SINDH FLOOD EMERGENCY REHABILITATION SUBPROJECT (SFERP) ENVIRONMENTAL & SOCIAL SCREENING CHECKLIST OF SUB-SUBPROJECT Name of<br/>Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes Sector: Public Health Engineering Department (PHED) Subproject<br/>Location: Shaheed Benazirabad, Sindh Schemes Location: Sahafi Disposal Works (Nawabshah City) Coordinates:<br/>E = 440488m N = 2903766m

Screening Question	Yes	No	Remarks
PHYSICAL E	NVIRC	ONMEN	Т
Will the proposed subproject activities pose the risk		✓	No such activity will take place that
of clearance of vegetation that may result in an			causes the disposal of suspended solids
increase in the level of suspended solids washing into nearby water bodies?			in nearby water bodies
Will the proposed subproject activities pose a risk of		✓	The risk of contaminating drinking
contaminating drinking water sources due to			water sources would be short-term as
construction activities?			the primary objective of water supply
			and drainage scheme rehabilitation
			work is to rehabilitate the existing
Is there any notantial pollution gauges in water		√	system and its associated facilities.
Is there any potential <b>pollution source</b> in water		v	No, as such no pollution sources have been identified but due to flood
supply network?			existing infrastructure has been
			affected causes pollution in drinking
			water supply.
Is there any potential source that can <b>damage</b>	√		Yes, flood and improper maintenance
drainage network? Or Is it affected by flood?			are the potential sources of destruction
			of drainage network
Will the proposed subproject interventions deplete		✓	Water from tankers and bowsers will
groundwater because of the water used during			be utilized during construction.
rehabilitation activities?			
Will the proposed subproject interventions result in an	✓		Minor impacts only during
increase in <b>ambient air pollution</b> , including chemical			construction
and particulate matter due to the construction and			
operation of related machinery?		ļ	
Will the proposed subproject interventions result in an	✓		Minor impacts only during
increase in <b>ambient noise levels</b> and vibrations due to			construction
the operation of construction machinery/vehicles?			
Will these ambient noise levels be beyond the		✓	No, proper implementation of
specifications in the SEQS?			mitigations and maintenance of

Screening Question	Yes	No	Remarks
			equipment, and machinery will be done
			to keep levels within limits.
Will the proposed subproject activities lead to		✓	Rehabilitation works do not involve
increased soil erosion?			any activity that will increase soil
			erosion
Will the proposed subproject interventions result in			Less quantity of debris and
the generation of <b>hazardous and/or non-hazardous</b>			construction waste will be generated
waste?			which will be handed over to the waste
waste:			contractor.
Will the proposed subproject interventions result in		√	Workers from nearby localities will be
potentially increased health risks for <b>subproject</b>		•	commuted daily for a specific duration
			so it would not increase health risks.
workers and communities (e.g., communicable			so it would not increase nearth fisks.
diseases)?		√	The Submeinet area data act
Are the proposed subproject interventions being		v	The Subproject area does not come
implemented in an area with <b>high natural hazard</b>			under the category of high hazard risk.
<b>risk</b> ? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICAL	ENVI		
Will the proposed subproject interventions potentially		✓	No, as it will be limited to the specified
cause any adverse impacts on habitats, ecosystems,			areas of urban settlements.
and/or ecosystem services?			
Will any rehabilitation work be located in areas that		~	Rehabilitation work does not include
would promote the <b>conversion of natural habitats</b> ?			the conversion of natural habitat as it
			will only upgrade the existing damaged
			utilities.
Will any proposed subproject interventions be located		✓	No
on or near sensitive environmental areas, including			
national parks and protected areas?			
Are the proposed subproject interventions activities		✓	Fauna of urban nature is found around
likely to pose risks to any endangered species?			subproject area that comes under the
			least concern status of the IUCN Red
			List.
SOCIAL EN	VIRON	IMENT	
Will the proposed subproject activities involve land		√	Subproject land is owned by GoS.
acquisition?			
Are there any forced labor or child labor risks		√	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to
involved in implementing this proposed subproject			hire only those people who have valid
intervention?			CNIC or are at least 18 years old.
Is labor influx (outside labor force) expected during		✓	No, locals of the area would be given
the construction of the proposed subproject?			preference for skilled and non-skilled
			jobs.
Will <b>local labor</b> be used for the proposed subproject	√		Yes, locals of the area will be given
construction activities?			preference first.
	L	. <u>.</u>	: reference mot.

Screening Question	Yes	No	Remarks
Will there be any <b>temporary or permanent</b> <b>displacement</b> as a result of the proposed subproject construction or operation activities?		<b>~</b>	Rehabilitation works will be done for existing utilities which exist in a demarcated area.
Are there expected to be any <b>traffic-related issues</b> as a result of the proposed subproject intervention activities, particularly during the construction phase?	✓		Minor impacts only during construction.
Are the proposed subproject activities likely to have impacts on important religious/cultural heritage sites?		~	No, as the rehabilitation work involves the upgradation or restoration of existing facilities.
Have there been any past <b>security-related issues</b> at the proposed subproject sites?		~	No, the subproject area is situated in an urban settlement and on government- owned land.
Has <b>stakeholder engagement</b> taken place in the proposed subproject areas?	•		The community asked about the operations and how they will be benefited by the subproject.
Were <b>vulnerable groups</b> involved in stakeholder consultations? (e.g., women, minorities, economically disadvantaged individuals, etc.)	~		Yes, women of the subproject area were taken onboard also.

SINDH FLOOD EMERGENCY REHABILITATION SUBPROJECT (SFERP) ENVIRONMENTAL & SOCIAL SCREENING CHECKLIST OF SUB-SUBPROJECT			
Name of Subproject:	Rehabilitation of Damaged Water Supply & Drainage Schemes		
Sector:	Public Health Engineering Department (PHED)		
Subproject Location:	Shaheed Benazirabad, Sindh		
Schemes Location:	Ghulam Rasool shah Colony Disposal	Coordinates:	
	Works (Nawabshah City)	E = 440555m N = 2902223m	
Date:	1/8/2023		

Screening Question	Yes	No	Remarks	
PHYSICAL F	PHYSICAL ENVIRONMENT			
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		<b>√</b>	No such activity will take place that causes the disposal of suspended solids in nearby water bodies.	
Will the proposed subproject activities pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		<ul> <li>Image: A start of the start of</li></ul>	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.	
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.	
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	✓		Yes, flood and improper maintenance are the potential sources of destruction of drainage network	
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		~	Water from tankers and bowsers will be utilized during construction.	
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	~		Negligible impacts will be posed only during the construction phase that will be mitigated.	
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	✓		Negligible impacts will be posed only during the construction phase that will be mitigated.	
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		<b>√</b>	No, proper implementation of mitigations and maintenance of	

Screening Question	Yes	No	Remarks
			equipment, and machinery will be done
			to keep levels within limits.
Will the proposed subproject activities lead to		✓	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion
Will the proposed subproject interventions result in	√		Less quantity of debris and construction
the generation of hazardous and/or non-			waste will be generated which will be
hazardous waste?			handed over to the waste contractor for
			safe disposal.
Will the proposed subproject interventions result in		✓	Workers from nearby localities will be
potentially increased health risks for subproject			commuted daily for a specific duration
workers and communities (e.g., communicable			so it would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		✓	The Subproject area does not come under
implemented in an area with high natural hazard			the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICAI	ENV	IRONN	<b>IENT</b>
Will the proposed subproject interventions		<ul><li>✓</li></ul>	No, as it will be limited to the specified
potentially cause any adverse impacts on habitats,			areas of urban settlements.
ecosystems, and/or ecosystem services?			
Will any rehabilitation work be located in areas that		✓	Rehabilitation work does not include the
would promote the <b>conversion of natural habitats</b> ?			conversion of natural habitat as it will
			only upgrade the existing damaged
			utilities.
Will any proposed subproject interventions be		$\checkmark$	No, there are no protected areas situated
located on or near sensitive environmental areas,			in nearby surroundings.
including national parks and protected areas?			
Are the proposed subproject interventions activities		$\checkmark$	Fauna of urban nature is found around
likely to pose risks to any endangered species?			subproject area that comes under the
			least concern status of the IUCN Red
			List.
SOCIAL EN	VIR	ONMEN	NT
Will the proposed subproject activities involve land		$\checkmark$	Subproject land is owned by GoS.
acquisition?			
Are there any forced labor or child labor risks		✓	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to
involved in implementing this proposed subproject			hire only those people who have valid
intervention?			CNIC or are at least 18 years old.
Is labor influx (outside labor force) expected		✓	No, locals of the area would be given
during the construction of the proposed subproject?			preference for skilled and non-skilled
			jobs.
Will local labor be used for the proposed subproject	✓		Yes, locals of the area will be given
construction activities?			preference first.
Will there be any temporary or permanent		✓	Rehabilitation works will be done for
displacement as a result of the proposed subproject			existing utilities that exist in a
construction or operation activities?			demarcated area.

Screening Question	Yes	No	Remarks
Are there expected to be any traffic-related issues	✓		Minor impacts only during construction.
as a result of the proposed subproject intervention			
activities, particularly during the construction			
phase?			
Are the proposed subproject activities likely to have		$\checkmark$	No, as the rehabilitation work involves
impacts on important religious/cultural heritage			the upgradation or restoration of existing
sites?			facilities.
Have there been any past security-related issues at		$\checkmark$	No, the subproject area is situated in an
the proposed subproject sites?			urban settlement and on government-
			owned land.
Has stakeholder engagement taken place in the	✓		Will community Health and Safety be
proposed subproject areas?			impacted due to construction?
Were vulnerable groups involved in stakeholder	✓		Yes, females were happy that sufficient
consultations? (e.g., women, minorities,			supply of water will be available to the
economically disadvantaged individuals, etc.)			subproject area.

	LOOD EMERGENCY REHABILITATIC ENTAL & SOCIAL SCREENING CHEC	
Name of Subproject:	Rehabilitation of Damaged Water Supply	& Drainage Schemes
Sector:	Public Health Engineering Department (PHED)	
Subproject Location:	Shaheed Benazirabad, Sindh	
Schemes Location:	Taj & Azam Colonies Disposal Works	Coordinates:
		E = 440269m N = 2905156m
Date:	1/8/2023	

Screening Question	Yes	No	Remarks		
PHYSICAL ENVIRONMENT					
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		~	No such activity will take place that causes the disposal of suspended solids in nearby water bodies		
Will the proposed subproject interventions pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		~	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.		
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		<b>√</b>	Water from tankers and bowsers will be utilized during construction.		
Is there any potential <b>pollution source</b> in water supply network?		✓	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.		
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	✓		Yes, flood and improper maintenance are the potential sources of destruction of drainage network		
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	~		Minor impacts only during construction		
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery /vehicles?	✓		Minor impacts only during construction		
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		✓	No, proper implementation of mitigations and maintenance of equipment, and		

Screening Question	Yes	No	Remarks
			machinery will be done to keep levels
			within limits.
Will the proposed subproject activities lead to		√	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion
Will the proposed subproject interventions result in		✓	Less quantity of debris and construction
the generation of hazardous and/or non-			waste will be generated which will be
hazardous waste?			handed over to the waste contractor.
Will the proposed subproject interventions result in		✓	Workers from nearby localities will be
potentially increased health risks for <b>subproject</b>			commuted daily for a specific duration so
workers and communities (e.g., communicable			it would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		✓	The Subproject area does not come under
implemented in an area with high natural hazard			the category of high hazard risk.
<b>risk</b> ? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICAL	ENVI	RONN	/IENT
Will the proposed subproject interventions		<b>√</b>	No, as it will be limited to the specified
potentially cause any adverse impacts on <b>habitats</b> ,			areas of urban settlements.
ecosystems, and/or ecosystem services?			areas of aroun settements.
Will any rehabilitation work be located in areas that		✓	Rehabilitation work does not include the
would promote the <b>conversion of natural habitats</b> ?		•	conversion of natural habitat as it will only
would promote the conversion of natural naturals.			upgrade the existing damaged utilities.
Will any proposed subproject interventions be		✓	No, there are no protected areas situated in
located <b>on or near sensitive environmental areas</b> ,		v	nearby surroundings.
including national parks and protected areas?			hearby surroundings.
Are the proposed subproject interventions activities		<u> </u>	Fauna of urban nature is found around
likely to pose risks to any <b>endangered species</b> ?		v	subproject area that comes under the least
inkery to pose fisks to any enuangered species:			concern status of the IUCN Red List.
SOCIAL EN			
*****		NIVIEI	
Will the proposed subproject activities involve <b>land</b> acquisition?		v	Subproject land is owned by GoS.
Are there any <b>forced labor or child labor</b> risks		✓	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to hire
involved in implementing this proposed subproject			only those people who have valid CNIC or
intervention?			are at least 18 years old.
Is labor influx (outside labor force) expected		✓	No, locals of the area would be given
during the construction of the proposed subproject?			preference for skilled and non-skilled jobs.
•	$\checkmark$		Yes, locals of the area will be given
Will <b>local labor</b> be used for the proposed subproject	✓		Yes, locals of the area will be given preference first.
Will <b>local labor</b> be used for the proposed subproject construction activities?	✓	√	preference first.
Will local labor be used for the proposed subproject construction activities?Will there be any temporary or permanent	✓ 	✓	preference first. Rehabilitation works will be done for
Will local labor be used for the proposed subproject construction activities?Will there be any temporary or permanent displacement as a result of the proposed subproject	<ul> <li>✓</li> </ul>	✓	preference first. Rehabilitation works will be done for existing utilities which exist in a
Will local labor be used for the proposed subproject construction activities?Will there be any temporary or permanent displacement as a result of the proposed subproject construction or operation activities?		<b>~</b>	preference first. Rehabilitation works will be done for existing utilities which exist in a demarcated area.
Will local labor be used for the proposed subproject construction activities?Will there be any temporary or permanent displacement as a result of the proposed subproject construction or operation activities?Are there expected to be any traffic-related issues	<ul> <li>✓</li> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	preference first. Rehabilitation works will be done for existing utilities which exist in a
Will local labor be used for the proposed subproject construction activities?Will there be any temporary or permanent displacement as a result of the proposed subproject construction or operation activities?		<b>√</b>	preference first. Rehabilitation works will be done for existing utilities which exist in a demarcated area.

Screening Question	Yes	No	Remarks
Are the proposed subproject activities likely to have		✓	No, as the rehabilitation work involves the
impacts on important religious/cultural heritage			upgradation or restoration of existing
sites?			facilities.
Have there been any past security-related issues at		✓	No, the subproject area is situated in an
the proposed subproject sites?			urban settlement and on government-
			owned land.
Has stakeholder engagement taken place in the	✓		Community requested to conduct a
proposed subproject areas?			comprehensive needs assessment for the
			supply of drinking water as the population
			has increased but water supply and
			drainage networks are not available.
Were vulnerable groups involved in stakeholder	√		Yes, women of the subproject area were
consultations? (e.g., women, minorities,			taken onboard also.
economically disadvantaged individuals, etc.)			

	LOOD EMERGENCY REHABILITATIO ENTAL & SOCIAL SCREENING CHECK	
Name of Subproject:	Rehabilitation of Damaged Water Supply	& Drainage Schemes
Sector:	Public Health Engineering Department (PHED)	
Subproject Location:	Shaheed Benazirabad, Sindh	
Schemes Location:	Gharibabad Disposal works (Nawabshah	Coordinates:
	City)	E = 440889m N = 2902348m
Date:	1/8/2023	

Screening Question	Yes	No	Remarks	
PHYSICAL ENVIRONMENT				
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		~	No such activity will take place that causes the disposal of suspended solids in nearby water bodies.	
Will the proposed subproject activities pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		~	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.	
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.	
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	~		Yes, flood and improper maintenance are the potential sources of destruction of drainage network	
Will the proposed subproject interventions <b>deplete groundwater</b> because of the water used during rehabilitation activities?		V	Water from tankers and bowsers will be utilized during construction.	
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	V		Negligible impacts will be posed only during the construction phase that will be mitigated.	
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	✓		Negligible impacts will be posed only during the construction phase that will be mitigated.	
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		<b>~</b>	No, proper implementation of mitigations and maintenance of equipment, and	

Screening Question	Yes	No	Remarks
			machinery will be done to keep levels
			within limits.
Will the proposed subproject activities lead to		✓	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion
Will the proposed subproject interventions	✓		Less quantity of debris and construction
result in the generation of hazardous and/or			waste will be generated which will be
non-hazardous waste?			handed over to the waste contractor for safe
			disposal.
Will the proposed subproject interventions	1	✓	Workers from nearby localities will be
result in potentially increased health risks for			commuted daily for a specific duration so it
subproject workers and communities (e.g.,			would not increase health risks.
communicable diseases)?			
Are the proposed subproject interventions	•	$\checkmark$	The Subproject area does not come under
being implemented in an area with high			the category of high hazard risk.
natural hazard risk? (e.g., floods,			
earthquakes, droughts, etc.)			
ECOLOG	ICAL E	ENVIRO	NMENT
Will the proposed subproject interventions	<u> </u>	✓	No, as it will be limited to the specified
potentially cause any adverse impacts on			areas of urban settlements.
habitats, ecosystems, and/or ecosystem			
services?			
Will any rehabilitation work be located in areas		$\checkmark$	Rehabilitation work does not include the
that would promote the <b>conversion of natural</b>			conversion of natural habitat as it will only
habitats?			upgrade the existing damaged utilities.
Will any proposed subproject interventions be		✓	No, there are no protected areas situated in
located on or near sensitive environmental			nearby surroundings.
areas, including national parks and protected			
areas?			
Are the proposed subproject interventions		✓	Fauna of urban nature is found around
activities likely to pose risks to any			subproject area that comes under the least
endangered species?			concern status of the IUCN Red List.
	L ENV	IRONM	ENT
Will the proposed subproject activities involve	<b>.</b>	✓	Subproject land is owned by GoS.
land acquisition?			
Are there any <b>forced labor or child labor</b> risks	•	✓	There would not be any forced or child labor
associated with contractors or other third			risk as the contractor is bound to hire only
parties involved in implementing this proposed			those people who have valid CNIC or are at
subproject intervention?			least 18 years old.
Is labor influx (outside labor force) expected	•	✓	No, locals of the area would be given
during the construction of the proposed			preference for skilled and non-skilled jobs.
Fight			
subproject?			
	✓		Yes, locals of the area will be given

Screening Question	Yes	No	Remarks
Will there be any <b>temporary or permanent</b> <b>displacement</b> as a result of the proposed subproject construction or operation activities?		V	Rehabilitation works will be done for existing utilities that exist in a demarcated area.
Are there expected to be any <b>traffic-related</b> <b>issues</b> as a result of the proposed subproject intervention activities, particularly during the construction phase?	✓		Minor impacts only during construction.
Are the proposed subproject activities likely to have <b>impacts on important religious/cultural heritage sites</b> ?		✓	No, as the rehabilitation work involves the upgradation or restoration of existing facilities.
Have there been any past <b>security-related</b> <b>issues</b> at the proposed subproject sites?		✓	No, the subproject area is situated in an urban settlement and on government-owned land.
Has <b>stakeholder engagement</b> taken place in the proposed subproject areas?	✓		Community members asked about the operations of the drainage Scheme and the benefits from it.
Were <b>vulnerable groups</b> involved in stakeholder consultations? (e.g., women, minorities, economically disadvantaged individuals, etc.)	~		Yes, there is no attention to the literacy rate and education system of children.

	OOD EMERGENCY REHABILITATIO NTAL & SOCIAL SCREENING CHECH	· · · · ·	
Name of Subproject:	Rehabilitation of Damaged Water Supply	y & Drainage Schemes	
Sector:	Public Health Engineering Department (PHED)		
Subproject Location:	Shaheed Benazirabad, Sindh		
Schemes Location:	Railway Station Colony (Nawabshah	Coordinates:	
	City)	E = 441205m N = 2902979m	
Date:	4/8/2023		

Screening Question	Yes	No	Remarks	
PHYSICAL ENVIRONMENT				
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		✓	No such activity will take place that causes this risk.	
Will the proposed subproject activities pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		~	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.	
Is there any potential <b>pollution source</b> in water supply network?		•	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.	
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	✓		Yes, flood and improper maintenance are the potential sources of destruction of drainage network	
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		~	Water from tankers and bowsers will be utilized during construction.	
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	✓		Negligible impacts will be posed only during the construction phase that will be mitigated.	
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	✓		Negligible impacts will be posed only during the construction phase that will be mitigated.	
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		<b>√</b>	No, proper implementation of mitigations and maintenance of equipment, and	

Screening Question	Yes	No	Remarks
			machinery will be done to keep levels
			within limits.
Will the proposed subproject activities lead to		✓	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion.
Will the proposed subproject interventions result	✓		Less quantity of debris and construction
in the generation of hazardous and/or non-			waste will be generated which will be
hazardous waste?			handed over to the waste contractor for
			safe disposal.
Will the proposed subproject interventions result		✓	Workers from nearby localities will be
in potentially increased health risks for <b>subproject</b>			commuted daily for a specific duration so
workers and communities (e.g., communicable			it would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		<ul> <li>✓</li> </ul>	The Subproject area does not come under
implemented in an area with high natural hazard			the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICA	AL ENV	VIRON	MENT
Will the proposed subproject interventions		<ul><li>✓</li></ul>	No, as it will be limited to the specified
potentially cause any adverse impacts on habitats,			areas of urban settlements.
ecosystems, and/or ecosystem services?			
Will any rehabilitation work be located in areas		<ul><li>✓</li></ul>	Rehabilitation work does not include the
that would promote the conversion of natural			conversion of natural habitat as it will only
habitats?			upgrade the existing damaged utilities.
Will any proposed subproject interventions be		<ul><li>✓</li></ul>	No, there are no protected areas situated in
located on or near sensitive environmental			nearby surroundings.
areas, including national parks and protected			
areas?			
Are the proposed subproject interventions		✓	Fauna of urban nature is found around
activities likely to pose risks to any endangered			subproject area that comes under the least
species?			concern status of the IUCN Red List.
SOCIAL	ENVIR	ONME	NT
Will the proposed subproject activities involve		✓	Subproject land is owned by GoS.
land acquisition?			
Are there any forced labor or child labor risks		√	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to hire
involved in implementing this proposed subproject			only those people who have valid CNIC or
intervention?			are at least 18 years old.
Is labor influx (outside labor force) expected		✓	No, locals of the area would be given
during the construction of the proposed			preference for skilled and non-skilled jobs.
subproject?		ļ	
Will local labor be used for the proposed	√		Yes, locals of the area will be given
subproject construction activities?			preference first.
Will there be any temporary or permanent		✓	Rehabilitation works will be done for
displacement as a result of the proposed			existing utilities that exist in a demarcated
subproject construction or operation activities?			area.

Screening Question	Yes	No	Remarks
Are there expected to be any <b>traffic-related issues</b> as a result of the proposed subproject intervention activities, particularly during the construction phase?	~		Minor impacts only during construction.
Are the proposed subproject activities likely to have <b>impacts on important religious/cultural heritage sites</b> ?		~	No, as the rehabilitation work involves the upgradation or restoration of existing facilities or in a close periphery.
Have there been any past <b>security-related issues</b> at the proposed subproject sites?		<b>~</b>	No, the subproject area is situated in an urban settlement and on government- owned land.
Has <b>stakeholder engagement</b> taken place in the proposed subproject areas?	~		Community requested to resolve the specific health and hygiene challenges in the community due to stagnant water.
Were <b>vulnerable groups</b> involved in stakeholder consultations? (e.g., women, minorities, economically disadvantaged individuals, etc.)	~		Yes, some female members shared hygiene and health issues due to the unavailability of a drainage network especially during monsoon and after it.

	LOOD EMERGENCY REHABILITATIC ENTAL & SOCIAL SCREENING CHEC		
Name of Subproject:	Rehabilitation of Damaged Water Supply	& Drainage Schemes	
Sector:	Public Health Engineering Department (PHED)		
Subproject Location:	Shaheed Benazirabad, Sindh		
Schemes Location:	Mehran & Jamali Colony (Nawabshah	Coordinates:	
	City)	E = 439519m N = 2902851m	
Date:	4/8/2023		

Screening Question	Yes	No	Remarks
PHYSICAL	ENVIF	RONM	ENT
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		✓	No such activity will take place that causes the disposal of suspended solids in nearby water bodies
Will the proposed subproject interventions pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		~	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	✓		Yes, flood and improper maintenance are the potential sources of destruction of drainage network
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		✓	Water from tankers and bowsers will be utilized during construction.
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	~		negligible impacts only during construction
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	✓		Negligible impacts only during construction
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		~	No, proper implementation of mitigations and maintenance of equipment, and

Screening Question	Yes	No	Remarks
			machinery will be done to keep levels
			within limits.
Will the proposed subproject activities lead to		✓	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion
Will the proposed subproject interventions result in	✓		Less quantity of debris and construction
the generation of hazardous and/or non-			waste will be generated which will be
hazardous waste?			handed over to the waste contractor.
Will the proposed subproject interventions result in		$\checkmark$	Workers from nearby localities will be
potentially increased health risks for subproject			commuted daily for a specific duration so it
workers and communities (e.g., communicable			would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		✓	The Subproject area does not come under
implemented in an area with high natural hazard			the category of high hazard risk.
<b>risk</b> ? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICA	L ENV	IRON	MENT
Will the proposed subproject interventions		$\checkmark$	No, as it will be limited to the specified
potentially cause any adverse impacts on habitats,			areas of urban settlements.
ecosystems, and/or ecosystem services?			
Will any rehabilitation work be located in areas that		$\checkmark$	Rehabilitation work does not include the
would promote the <b>conversion of natural habitats</b> ?			conversion of natural habitat as it will only
			upgrade the existing damaged utilities.
Will any proposed subproject interventions be		✓	No, there are no protected areas situated in
located on or near sensitive environmental areas,			nearby surroundings.
including national parks and protected areas?			
Are the proposed subproject interventions activities		✓	Fauna of urban nature is found around
likely to pose risks to any endangered species?			subproject area that comes under the least
			concern status of the IUCN Red List.
SOCIAL E	NVIR	ONME	NT
Will the proposed subproject activities involve land		✓	Subproject land is owned by GoS.
acquisition?			
Are there any forced labor or child labor risks		✓	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to hire
involved in implementing this proposed subproject			only those people who have valid CNIC or
intervention?			are at least 18 years old.
Is labor influx (outside labor force) expected		✓	No, locals of the area would be given
during the construction of the proposed subproject?			preference for skilled and non-skilled jobs.
Will <b>local labor</b> be used for the proposed subproject	✓		Yes, locals of the area will be given
construction activities?			preference first.
Will there be any temporary or permanent		✓	Rehabilitation works will be done for
displacement as a result of the proposed subproject			existing utilities which exist in a
construction or operation activities?			demarcated area.
Are there expected to be any <b>traffic-related issues</b>	✓		Minor impacts only during construction.
as a result of the proposed subproject intervention			
activities, particularly during the construction			
phase?			

Screening Question	Yes	No	Remarks
Are the proposed subproject activities likely to have		✓	No, as the rehabilitation work involves the
impacts on important religious/cultural heritage			upgradation or restoration of existing
sites?			facilities.
Have there been any past security-related issues at		✓	No, the subproject area is situated in an
the proposed subproject sites?			urban settlement and on government-
			owned land.
Has stakeholder engagement taken place in the	√		The community pointed out that drainage
proposed subproject areas?			networks are not available and if available
			are in bad condition or blocked.
Were vulnerable groups involved in stakeholder	√		Yes, women of the subproject area were
consultations? (e.g., women, minorities,			taken onboard also. Mostly concerns were
economically disadvantaged individuals, etc.)			related to damaged or unavailable drainage
			lines.

# SINDH FLOOD EMERGENCY REHABILITATION SUBPROJECT (SFERP) ENVIRONMENTAL & SOCIAL SCREENING CHECKLIST OF SUB-SUBPROJECT Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Subproject:					
Sector:	Public Health Engineering Department (PHED)				
Subproject	Shahaad Danazirahad Sindh				
Location:	Shaheed Benazirabad, Sindh				
Schemes Location:	Sanghar Road, UC-9 (Nawabshah City)	Coordinates:			
		E=442922.19m N= 2903683.82m			
Date:	3/8/2023				

Screening Question	Yes	No	Remarks
PHYSICAL	ENVI	RONM	ENT
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		~	No such activity will take place that causes the disposal of suspended solids in nearby water bodies
Will the proposed subproject interventions pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		Ý	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	✓		Yes, flood and improper maintenance are the potential sources of destruction of drainage network
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		•	Water from tankers and bowsers will be utilized during construction.
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	✓		negligible impacts only during construction
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	~		Negligible impacts only during construction
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		~	No, proper implementation of mitigations and maintenance of equipment, and

Screening Question	Yes	No	Remarks
			machinery will be done to keep levels
			within limits.
Will the proposed subproject activities lead to		✓	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion
Will the proposed subproject interventions result in	✓		Less quantity of debris and construction
the generation of hazardous and/or non-			waste will be generated which will be
hazardous waste?			handed over to the waste contractor.
Will the proposed subproject interventions result in		✓	Workers from nearby localities will be
potentially increased health risks for subproject			commuted daily for a specific duration so
workers and communities (e.g., communicable			it would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		✓	The Subproject area does not come under
implemented in an area with high natural hazard			the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICA	L ENV	IRON	MENT
Will the proposed subproject interventions		<ul><li>✓</li></ul>	No, as it will be limited to the specified
potentially cause any adverse impacts on habitats,			areas of urban settlements.
ecosystems, and/or ecosystem services?			
Will any rehabilitation work be located in areas that		✓	Rehabilitation work does not include the
would promote the <b>conversion of natural habitats</b> ?			conversion of natural habitat as it will only
			upgrade the existing damaged utilities.
Will any proposed subproject interventions be		✓	No, there are no protected areas situated in
located on or near sensitive environmental areas,			nearby surroundings.
including national parks and protected areas?			
Are the proposed subproject interventions activities		✓	Fauna of urban nature is found around
likely to pose risks to any endangered species?			subproject area that comes under the least
			concern status of the IUCN Red List.
SOCIAL E	NVIR	ONME	NT
Will the proposed subproject activities involve land		<ul><li>✓</li></ul>	Subproject land is owned by GoS.
acquisition?			
Are there any forced labor or child labor risks		✓	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to hire
involved in implementing this proposed subproject			only those people who have valid CNIC or
intervention?			are at least 18 years old.
Is labor influx (outside labor force) expected		<ul><li>✓</li></ul>	No, locals of the area would be given
during the construction of the proposed subproject?			preference for skilled and non-skilled jobs.
Will <b>local labor</b> be used for the proposed subproject	✓		Yes, locals of the area will be given
construction activities?			preference first.
Will there be any temporary or permanent		√	Rehabilitation works will be done for
displacement as a result of the proposed subproject			existing utilities which exist in a
construction or operation activities?			demarcated area.
Are there expected to be any traffic-related issues	✓		Minor impacts only during construction.
as a result of the proposed subproject intervention			
activities, particularly during the construction			
phase?			

Screening Question	Yes	No	Remarks
Are the proposed subproject activities likely to have		$\checkmark$	No, as the rehabilitation work involves the
impacts on important religious/cultural heritage			upgradation or restoration of existing
sites?			facilities.
Have there been any past security-related issues at		✓	No, the subproject area is situated in an
the proposed subproject sites?			urban settlement and on government-
			owned land.
Has stakeholder engagement taken place in the	✓		The community pointed out that drainage
proposed subproject areas?			networks are not available and if available
			are in bad condition or blocked.
Were vulnerable groups involved in stakeholder	✓	[	Yes, women of the subproject area were
consultations? (e.g., women, minorities,			taken onboard also.
economically disadvantaged individuals, etc.)			

Name of	Rehabilitation of Damaged Water Supply & Drainage Schemes		
Subproject:			
Sector:	Public Health Engineering Department	(PHED)	
Subproject	Shaheed Benazirabad, Sindh		
Location:			
Schemes Location:	Balooch Colony (Nawabshah City)	Coordinates:	
		E = 441487m N = 2903958m	
Date:	4/8/2023		

Screening Question	Yes	No	Remarks			
PHYSICAL ENVIRONMENT						
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		~	No such activity will take place that causes the disposal of suspended solids in nearby water bodies			
Will the proposed subproject interventions pose a risk of <b>contaminating drinking water</b> <b>sources</b> due to construction activities?		✓	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.			
Is there any potential <b>pollution source</b> in water supply network?		<ul> <li>✓</li> </ul>	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.			
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	✓		Yes, flood and improper maintenance are the potential sources of destruction of drainage network			
Will the proposed subproject interventions <b>deplete groundwater</b> because of the water used during rehabilitation activities?		V	Water from tankers and bowsers will be utilized during construction.			
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	~		negligible impacts only during construction			
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	~		Negligible impacts only during construction			
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		~	No, proper implementation of mitigations and maintenance of equipment, and machinery will be done to keep levels within limits.			

Screening Question	Yes	No	Remarks
Will the proposed subproject activities lead to		✓	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion
Will the proposed subproject interventions	✓		Less quantity of debris and construction waste
result in the generation of hazardous and/or			will be generated which will be handed over to
non-hazardous waste?			the waste contractor.
Will the proposed subproject interventions		✓	Workers from nearby localities will be
result in potentially increased health risks for			commuted daily for a specific duration so it
subproject workers and communities (e.g.,			would not increase health risks.
communicable diseases)?	•		-
Are the proposed subproject interventions		✓	The Subproject area does not come under the
being implemented in an area with high			category of high hazard risk.
<b>natural hazard risk</b> ? (e.g., floods,			
earthquakes, droughts, etc.)			
	ICAL I	ENVIR	CONMENT
Will the proposed subproject interventions		<b>√</b>	No, as it will be limited to the specified areas of
potentially cause any adverse impacts on			urban settlements.
habitats, ecosystems, and/or ecosystem			
services?			
Will any rehabilitation work be located in areas		✓	Rehabilitation work does not include the
that would promote the <b>conversion of natural</b>			conversion of natural habitat as it will only
habitats?	ļ	ļ	upgrade the existing damaged utilities.
Will any proposed subproject interventions be		~	No, there are no protected areas situated in
located on or near sensitive environmental			nearby surroundings.
areas, including national parks and protected			
areas?	•••••	ļ,	
Are the proposed subproject interventions		✓	Fauna of urban nature is found around
activities likely to pose risks to any			subproject area that comes under the least
endangered species?			concern status of the IUCN Red List.
	L ENV	·····	******
Will the proposed subproject activities involve		~	Subproject land is owned by GoS.
land acquisition?		ļ,	
Are there any <b>forced labor or child labor</b> risks		✓	There would not be any forced or child labor
associated with contractors or other third			risk as the contractor is bound to hire only those
parties involved in implementing this proposed			people who have valid CNIC or are at least 18
subproject intervention?			years old.
Is <b>labor influx</b> ( <b>outside labor force</b> ) expected		~	No, locals of the area would be given
during the construction of the proposed			preference for skilled and non-skilled jobs.
subproject?			
Will <b>local labor</b> be used for the proposed	v		Yes, locals of the area will be given preference
subproject construction activities?			first.
Will there be any <b>temporary or permanent</b>		✓	Rehabilitation works will be done for existing
<b>displacement</b> as a result of the proposed			utilities which exist in a demarcated area.
subproject construction or operation activities?	./		Minon imposto order dering occurrenting
Are there expected to be any <b>traffic-related</b>	✓		Minor impacts only during construction.
issues as a result of the proposed subproject	<u>.</u>	<u>.</u>	<u>i</u>

Screening Question	Yes	No	Remarks
intervention activities, particularly during the construction phase?			
Are the proposed subproject activities likely to have <b>impacts on important religious/cultural heritage sites</b> ?		V	No, as the rehabilitation work involves the upgradation or restoration of existing facilities.
Have there been any past <b>security-related</b> <b>issues</b> at the proposed subproject sites?		✓	No, the subproject area is situated in an urban settlement and on government-owned land.
Has <b>stakeholder engagement</b> taken place in the proposed subproject areas?	✓		The community pointed out that drainage networks are not available and if available are in bad condition or blocked.
Were <b>vulnerable groups</b> involved in stakeholder consultations? (e.g., women, minorities, economically disadvantaged individuals, etc.)	✓		Yes, women shared that stagnant water or wastewater causes skin irritations and other diseases.

Name of	Rehabilitation of Damaged Water Supply & Drainage Schemes				
Subproject:					
Sector:	Public Health Engineering Department (PHED)				
Subproject	Shaheed Benazirabad, Sindh				
Location:					
Schemes Location:	Lakha Disposal Works (Nawbshah City)	Coordinates:			
		E = 440212m N = 2901674m			
Date:	2/8/2023				

Screening Question	Yes	No	Remarks		
PHYSICAL ENVIRONMENT					
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		<b>~</b>	No such activity will take place that causes this risk.		
Will the proposed subproject activities pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		✓	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.		
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.		
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	✓		Yes, flood and improper maintenance are the potential sources of destruction of drainage network		
Will the proposed subproject interventions <b>deplete groundwater</b> because of the water used during rehabilitation activities?		~	Water from tankers and bowsers will be utilized during construction.		
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	~		Negligible impacts will be posed only during the construction phase that will be mitigated.		
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	✓		Negligible impacts will be posed only during the construction phase that will be mitigated.		
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		✓	No, proper implementation of mitigations and maintenance of equipment, and		

Screening Question	Yes	No	Remarks
			machinery will be done to keep levels
			within limits.
Will the proposed subproject activities lead to		✓	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion.
Will the proposed subproject interventions	✓		Less quantity of debris and construction
result in the generation of hazardous and/or			waste will be generated which will be
non-hazardous waste?			handed over to the waste contractor for
			safe disposal.
Will the proposed subproject interventions		$\checkmark$	Workers from nearby localities will be
result in potentially increased health risks for			commuted daily for a specific duration so
subproject workers and communities (e.g.,			it would not increase health risks.
communicable diseases)?			
Are the proposed subproject interventions		✓	The Subproject area does not come under
being implemented in an area with high			the category of high hazard risk.
natural hazard risk? (e.g., floods,			
earthquakes, droughts, etc.)			
ECOLOGIO	CAL EN	VIRO	NMENT
Will the proposed subproject interventions		✓	No, as it will be limited to the specified
potentially cause any adverse impacts on			areas of urban settlements.
habitats, ecosystems, and/or ecosystem			
services?			
Will any rehabilitation work be located in areas		✓	Rehabilitation work does not include the
that would promote the conversion of natural			conversion of natural habitat as it will only
habitats?			upgrade the existing damaged utilities.
Will any proposed subproject interventions be		$\checkmark$	No, there are no protected areas situated in
located on or near sensitive environmental			nearby surroundings.
areas, including national parks and protected			
areas?			
Are the proposed subproject interventions		$\checkmark$	Fauna of urban nature is found around
activities likely to pose risks to any			subproject area that comes under the least
endangered species?			concern status of the IUCN Red List.
SOCIAI	L ENVI	RONM	ENT
Will the proposed subproject activities involve		<ul><li>✓</li></ul>	Subproject land is owned by GoS.
land acquisition?			
Are there any forced labor or child labor risks		✓	There would not be any forced or child
associated with contractors or other third			labor risk as the contractor is bound to hire
parties involved in implementing this proposed			only those people who have valid CNIC or
subproject intervention?			are at least 18 years old.
Is labor influx (outside labor force) expected		✓	No, locals of the area would be given
during the construction of the proposed			preference for skilled and non-skilled jobs.
subproject?			
Will local labor be used for the proposed	√		Yes, locals of the area will be given
subproject construction activities?			preference first.

Screening Question	Yes	No	Remarks
Will there be any temporary or permanent		✓	Rehabilitation works will be done for
displacement as a result of the proposed			existing utilities that exist in a demarcated
subproject construction or operation activities?			area.
Are there expected to be any traffic-related	$\checkmark$		Minor impacts only during construction.
issues as a result of the proposed subproject			Proper mitigations must be implemented
intervention activities, particularly during the			so that social receptors would not get
construction phase?			disturbed.
Are the proposed subproject activities likely to		✓	No, as the rehabilitation work involves the
have impacts on important religious/cultural			upgradation or restoration of existing
heritage sites?			facilities or in a close periphery.
Have there been any past security-related		$\checkmark$	No, the subproject area is situated in an
issues at the proposed subproject sites?			urban settlement and on government-
			owned land.
Has stakeholder engagement taken place in	$\checkmark$		Community requested to provide water
the proposed subproject areas?			supply lines and drainage network where
			it is not available.
Were vulnerable groups involved in	$\checkmark$		Yes, some female members shared
stakeholder consultations? (e.g., women,			hygiene and health issues due to the
minorities, economically disadvantaged			unavailability of a drainage network
individuals, etc.)			especially during monsoon and after it.

Name of Subproject:	Rehabilitation of Damaged Water Supply & Drainage Schemes						
Sector:	Public Health Engineering Department (PHED)						
Subproject	Chebood Deperimented Cindh						
Location:	Shaheeu Benazirabau, Shiun	Shaheed Benazirabad, Sindh					
Schemes Location:	Ghulam Haider Shah (nawabshah City)	Coordinates:					
		E = 439716m N = 2904285m					
Date:	2/8/2023						

Screening Question	Yes	No	Remarks
PHYSICAL	ENVI	RONM	ENT
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		~	No such activity will take place that causes the disposal of suspended solids in nearby water bodies
Will the proposed subproject activities pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		V	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	✓		Yes, flood and improper maintenance are the potential sources of destruction of drainage network
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		✓	Water from tankers and bowsers will be utilized during construction.
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	~		Negligible impacts will be posed only during the construction phase that will be mitigated.
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/ vehicles?	~		Negligible impacts will be posed only during the the construction phase that will be mitigated.
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		~	No, proper implementation of mitigations and maintenance of equipment, and

Screening Question	Yes	No	Remarks
			machinery will be done to keep levels
			within limits.
Will the proposed subproject activities lead to		✓	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion
Will the proposed subproject interventions result in	✓		Less quantity of debris and construction
the generation of hazardous and/or non-			waste will be generated which will be
hazardous waste?			handed over to the waste contractor.
Will the proposed subproject interventions result in		✓	Workers from nearby localities will be
potentially increased health risks for subproject			commuted daily for a specific duration so
workers and communities (e.g., communicable			it would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		✓	The Subproject area does not come under
implemented in an area with high natural hazard			the category of high hazard risk.
<b>risk</b> ? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICA	L ENV	IRONI	MENT
Will the proposed subproject interventions	Ī	✓	No, as it will be limited to the specified
potentially cause any adverse impacts on habitats,			areas of urban settlements.
ecosystems, and/or ecosystem services?			
Will any rehabilitation work be located in areas that		✓	Rehabilitation work does not include the
would promote the <b>conversion of natural habitats</b> ?			conversion of natural habitat as it will only
1			upgrade the existing damaged utilities.
Will any proposed subproject interventions be		✓	No, there are no protected areas situated in
located on or near sensitive environmental areas,			nearby surroundings.
including national parks and protected areas?			
Are the proposed subproject interventions activities		✓	Fauna of urban nature is found around
likely to pose risks to any <b>endangered species</b> ?			subproject area that comes under the least
			concern status of the IUCN Red List.
SOCIAL E	: NVIR	: ONME	<u>.</u>
Will the proposed subproject activities involve land	Ī	 ✓	Subproject land is owned by GoS.
acquisition?			
Are there any forced labor or child labor risks		✓	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to hire
involved in implementing this proposed subproject			only those people who have valid CNIC or
intervention?			are at least 18 years old.
Is labor influx (outside labor force) expected		✓	No, locals of the area would be given
during the construction of the proposed subproject?			preference for skilled and non-skilled jobs.
Will <b>local labor</b> be used for the proposed subproject	✓		Yes, locals of the area will be given
construction activities?			preference first.
Will there be any <b>temporary or permanent</b>		√	Rehabilitation works will be done for
<b>displacement</b> as a result of the proposed subproject			existing utilities which exist in a
construction or operation activities?			demarcated area.
Are there expected to be any <b>traffic-related issues</b>	✓		Minor impacts only during construction.
as a result of the proposed subproject intervention			and any during construction.
activities, particularly during the construction			
phase?			
	<b>i</b>	<b>i</b>	<u>.</u>

Screening Question	Yes	No	Remarks
Are the proposed subproject activities likely to have		$\checkmark$	No, as the rehabilitation work involves the
impacts on important religious/cultural heritage			upgradation or restoration of existing
sites?			facilities.
Have there been any past security-related issues at		✓	No, the subproject area is situated in an
the proposed subproject sites?			urban settlement and on government-
			owned land.
Has stakeholder engagement taken place in the	✓		Community members expressed concern
proposed subproject areas?			about the overall impact of the water
			supply and drainage system on public
			health and sanitation.
Were vulnerable groups involved in stakeholder	✓		Yes, their main concern was how they will
consultations? (e.g., women, minorities,			be benefited by the schemes.
economically disadvantaged individuals, etc.)			

Name of	Rehabilitation of Damaged Water Supply & Drainage Schemes					
Subproject:						
Sector:	Public Health Engineering Department	Public Health Engineering Department (PHED)				
Subproject	Shahaad Banazirahad Sindh	Chahaad Danaaimhad. Cindh				
Location:	Shaheed Behazhabad, Shidh	Shaheed Benazirabad, Sindh				
Schemes Location:	Awami Colony (Nawabshah City)	Coordinates:				
		E = 438802m N = 2903110m				
Date:	2/8/2023					

Screening Question	Yes	No	Remarks
PHYSICAL	ENVI	RONM	ENT
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		~	No such activity will take place that causes this risk.
Will the proposed subproject activities pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		~	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.
Is there any potential source that can damage drainage network? Or Is it affected by flood?	✓		Yes, flood and improper maintenance are the potential sources of destruction of drainage network
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		✓	Water from tankers and bowsers will be utilized during construction.
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	~	•	Negligible impacts will be posed only during the construction phase that will be mitigated.
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/ vehicles?	✓		Negligible impacts will be posed only during the construction phase that will be mitigated.
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?	•	<b>√</b>	No, proper implementation of mitigations and maintenance of equipment, and

Screening Question	Yes	No	Remarks
			machinery will be done to keep levels
			within limits.
Will the proposed subproject activities lead to		✓	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion.
Will the proposed subproject interventions result in	✓		Less quantity of debris and construction
the generation of hazardous and/or non-			waste will be generated which will be
hazardous waste?			handed over to the waste contractor for
			safe disposal.
Will the proposed subproject interventions result in		✓	Workers from nearby localities will be
potentially increased health risks for subproject			commuted daily for a specific duration so
workers and communities (e.g., communicable			it would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		✓	The Subproject area does not come under
implemented in an area with high natural hazard			the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICA	L ENV	/IRON	MENT
Will the proposed subproject interventions		✓	No, as it will be limited to the specified
potentially cause any adverse impacts on habitats,			areas of urban settlements.
ecosystems, and/or ecosystem services?			
Will any rehabilitation work be located in areas that		√	Rehabilitation work does not include the
would promote the <b>conversion of natural habitats</b> ?			conversion of natural habitat as it will only
			upgrade the existing damaged utilities.
Will any proposed subproject interventions be		✓	No, there are no protected areas situated in
located on or near sensitive environmental areas,			nearby surroundings
including national parks and protected areas?			
Are the proposed subproject interventions activities		✓	Fauna of urban nature is found around
likely to pose risks to any endangered species?			subproject area that comes under the least
			concern status of the IUCN Red List.
SOCIAL E	NVIR	ONME	NT
Will the proposed subproject activities involve land		√	Subproject land is owned by GoS.
acquisition?			
Are there any forced labor or child labor risks		√	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to hire
involved in implementing this proposed subproject			only those people who have valid CNIC or
intervention?			are at least 18 years old.
Is labor influx (outside labor force) expected		√	No, locals of the area would be given
during the construction of the proposed subproject?			preference for skilled and non-skilled jobs.
Will local labor be used for the proposed subproject	✓		Yes, locals of the area will be given
construction activities?			preference first.
Will there be any temporary or permanent		√	Rehabilitation works will be done for
displacement as a result of the proposed subproject			existing utilities that exist in a demarcated
construction or operation activities?			area.
Are there expected to be any traffic-related issues	√		Minor impacts only during construction.
as a result of the proposed subproject intervention			Proper mitigations must be implemented

Screening Question	Yes	No	Remarks
activities, particularly during the construction phase?			so that social receptors would not get disturbed.
Are the proposed subproject activities likely to have <b>impacts on important religious/cultural heritage sites</b> ?		~	No, as the rehabilitation work involves the upgradation or restoration of existing facilities in a close periphery.
Have there been any past <b>security-related issues</b> at the proposed subproject sites?		✓	No, the subproject area is situated in an urban settlement and on government- owned land.
Has <b>stakeholder engagement</b> taken place in the proposed subproject areas?	~		The community also raised concerns about the construction activities associated with water supply and drainage schemes can cause disruptions to daily life, including noise, dust, traffic congestion, and temporary service interruptions.
Were <b>vulnerable groups</b> involved in stakeholder consultations? (e.g., women, minorities, economically disadvantaged individuals, etc.)	~		Yes. They were concerned about health and hygiene issues due to unavailability or improper supply of water as well as stagnant wastewater.

Name of Subproject:	Rehabilitation of Damaged Water Supply & Drainage Schemes			
Sector:	Public Health Engineering Department	(PHED)		
Subproject				
Location:	Shaheed Benazirabad, Sindh			
Schemes Location:	Azoom Colony (Newsheheh City)	Coordinates:		
	Azeem Colony (Nawabshah City)	E = 439208m N = 2902109m		
Date:	2/8/2023			

Screening Question	Yes	No	Remarks
PHYSICA	L ENV	IRONM	IENT
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		<b>√</b>	No such activity will take place that causes this risk.
Will the proposed subproject activities pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		<ul> <li>Image: A start of the start of</li></ul>	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	~		Yes, flood and improper maintenance are the potential sources of destruction of drainage network
Will the proposed subproject interventions <b>deplete groundwater</b> because of the water used during rehabilitation activities?		~	Water from tankers and bowsers will be utilized during construction.
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?			Negligible impacts will be posed only during the construction phase that will be mitigated.
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	~		Negligible impacts will be posed only during the construction phase that will be mitigated.
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		<b>√</b>	No, proper implementation of mitigations and maintenance of equipment, and

Screening Question	Yes	No	Remarks
		1	machinery will be done to keep levels
			within limits.
Will the proposed subproject activities lead to		<ul><li>✓</li></ul>	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion.
Will the proposed subproject interventions result	✓	1	Less quantity of debris and construction
in the generation of hazardous and/or non-			waste will be generated which will be
hazardous waste?			handed over to the waste contractor for
			safe disposal.
Will the proposed subproject interventions result		<ul><li>✓</li></ul>	Workers from nearby localities will be
in potentially increased health risks for			commuted daily for a specific duration so
subproject workers and communities (e.g.,			it would not increase health risks.
communicable diseases)?			
Are the proposed subproject interventions being		✓	The Subproject area does not come under
implemented in an area with high natural			the category of high hazard risk.
hazard risk? (e.g., floods, earthquakes,			
droughts, etc.)			
ECOLOGIC	AL EN	VIRON	MENT
Will the proposed subproject interventions		✓	No, as it will be limited to the specified
potentially cause any adverse impacts on			areas of urban settlements.
habitats, ecosystems, and/or ecosystem			
services?			
Will any rehabilitation work be located in areas		✓	Rehabilitation work does not include the
that would promote the conversion of natural			conversion of natural habitat as it will
habitats?			only upgrade the existing damaged
			utilities.
Will any proposed subproject interventions be		✓	No, there are no protected areas situated
located on or near sensitive environmental			in nearby surroundings.
areas, including national parks and protected			
areas?			
Are the proposed subproject interventions		✓	Fauna of urban nature is found around
activities likely to pose risks to any endangered			subproject area that comes under the least
species?			concern status of the IUCN Red List.
SOCIAL	ENVIF	RONME	NT
Will the proposed subproject activities involve		√	Subproject land is owned by GoS.
land acquisition?			
Are there any forced labor or child labor risks		<ul><li>✓</li></ul>	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to hire
involved in implementing this proposed			only those people who have valid CNIC or
subproject intervention?			are at least 18 years old.
Is labor influx (outside labor force) expected		✓	No, locals of the area would be given
during the construction of the proposed			preference for skilled and non-skilled
subproject?			jobs.
Will local labor be used for the proposed	✓		Yes, locals of the area will be given
subproject construction activities?			preference first.

Screening Question	Yes	No	Remarks
Will there be any <b>temporary or permanent</b> <b>displacement</b> as a result of the proposed subproject construction or operation activities?		•	Rehabilitation works will be done for existing utilities that exist in a demarcated area.
Are there expected to be any <b>traffic-related</b> <b>issues</b> as a result of the proposed subproject intervention activities, particularly during the construction phase?	~		Minor impacts only during construction. Proper mitigations must be implemented so that social receptors would not get disturbed.
Are the proposed subproject activities likely to have <b>impacts on important religious/cultural</b> <b>heritage sites</b> ?		√ -∕	No, as the rehabilitation work involves the upgradation or restoration of existing facilities in a close periphery.
Have there been any past <b>security-related issues</b> at the proposed subproject sites?		v	No, the subproject area is situated in an urban settlement and on government- owned land.
Has <b>stakeholder engagement</b> taken place in the proposed subproject areas?	~		The community was happy as the associated subproject works will improve access to clean water, proper sanitation facilities, and effective drainage systems in the area.
Were <b>vulnerable groups</b> involved in stakeholder consultations? (e.g., women, minorities, economically disadvantaged individuals, etc.)	~		Yes. They were concerned about health and hygiene issues due to unavailability or improper supply of water.

	LOOD EMERGENCY REHABILITATIC ENTAL & SOCIAL SCREENING CHEC		
Name of Subproject:	Rehabilitation of Damaged Water Supply	& Drainage Schemes	
Sector:	Public Health Engineering Department (PHED)		
Subproject Location:	Shaheed Benazirabad, Sindh		
Schemes Location:	Irrigation Bagh Disposal Works (Daur	Coordinates:	
	Town)	E = 431900m N = 2926513m	
Date:	3/8/2023		

Screening Question	Yes	No	Remarks		
PHYSICAL ENVIRONMENT					
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		~	No such activity will take place that causes this risk.		
Will the proposed subproject activities pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		~	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.		
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.		
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	✓		Yes, flood and improper maintenance are the potential sources of destruction of drainage network		
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		V	Water from tankers and bowsers will be utilized during construction.		
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	~		Negligible impacts will be posed only during the construction phase that will be mitigated.		
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	~		Negligible impacts will be posed only during the construction phase that will be mitigated.		
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		<b>√</b>	No, proper implementation of mitigations and maintenance of equipment, and		

Screening Question	Yes	No	Remarks
			machinery will be done to keep levels
			within limits.
Will the proposed subproject activities lead to	<b>.</b>	√	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion.
Will the proposed subproject interventions result in	✓		Less quantity of debris and construction
the generation of hazardous and/or non-			waste will be generated which will be
hazardous waste?			handed over to the waste contractor for safe
			disposal.
Will the proposed subproject interventions result in		✓	Workers from nearby localities will be
potentially increased health risks for subproject			commuted daily for a specific duration so it
workers and communities (e.g., communicable			would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		√	The Subproject area does not come under
implemented in an area with high natural hazard			the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICA	L ENV	/IRON	IMENT
Will the proposed subproject interventions		√	No, as it will be limited to the specified
potentially cause any adverse impacts on habitats,			areas of urban settlements.
ecosystems, and/or ecosystem services?			
Will any rehabilitation work be located in areas that		✓	Rehabilitation work does not include the
would promote the <b>conversion of natural habitats</b> ?			conversion of natural habitat as it will only
			upgrade the existing damaged utilities.
Will any proposed subproject interventions be		√	No, there are no protected areas situated in
located on or near sensitive environmental areas,			nearby surroundings.
including national parks and protected areas?			
Are the proposed subproject interventions activities		√	Fauna of urban nature is found around
likely to pose risks to any endangered species?			subproject area that comes under the least
	<u> </u>		concern status of the IUCN Red List.
SOCIAL E	NVIR	ONM	ENT
Will the proposed subproject activities involve land		✓	Subproject land is owned by GoS.
acquisition?			
Are there any forced labor or child labor risks		✓	There would not be any forced or child labor
associated with contractors or other third parties			risk as the contractor is bound to hire only
involved in implementing this proposed subproject			those people who have valid CNIC or are at
intervention?			least 18 years old.
Is labor influx (outside labor force) expected		✓	No, locals of the area would be given
during the construction of the proposed subproject?			preference for skilled and non-skilled jobs.
Will <b>local labor</b> be used for the proposed subproject	✓		Yes, locals of the area will be given
construction activities?			preference first.
Will there be any temporary or permanent		✓	Rehabilitation works will be done for
displacement as a result of the proposed subproject			existing utilities that exist in a demarcated
construction or operation activities?			area.
Are there expected to be any traffic-related issues	✓		Minor impacts only during construction.
as a result of the proposed subproject intervention			Proper mitigations must be implemented so

Screening Question	Yes	No	Remarks
activities, particularly during the construction			that social receptors would not get
phase?			disturbed.
Are the proposed subproject activities likely to have		✓	No, as the rehabilitation work involves the
impacts on important religious/cultural heritage			upgradation or restoration of existing
sites?			facilities or in a close periphery.
Have there been any past security-related issues at		$\checkmark$	No, the subproject area is situated in an
the proposed subproject sites?			urban settlement and on government-owned
			land.
Has stakeholder engagement taken place in the	✓		Community requested to conduct a
proposed subproject areas?			comprehensive needs assessment to
			understand the specific education gaps and
			challenges in the community.
Were vulnerable groups involved in stakeholder	✓		Yes. Females were concerned about their
consultations? (e.g., women, minorities,			mobility for daily purposes during
economically disadvantaged individuals, etc.)			construction.

Name of Subproject:	Rehabilitation of Damaged Water Supply & Drainage Schemes		
Sector:	Public Health Engineering Departme	ent (PHED)	
Subproject			
Location:	Shaheed Benazirabad, Sindh		
Schemes Location:	Gharibabad Disposal Works	Coordinates:	
		E=431966.0 m N=2927091.9 m	
Date:	3/8/2023		

Screening Question	Yes	No	Remarks		
PHYSICAL ENVIRONMENT					
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		~	No such activity will take place that causes the disposal of suspended solids in nearby water bodies		
Will the proposed subproject interventions pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		•	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.		
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.		
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	~		Yes, flood and improper maintenance are the potential sources of destruction of drainage network		
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		~	Water from tankers and bowsers will be utilized during construction.		
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	✓		negligible impacts only during construction		
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/ vehicles?	✓		Negligible impacts only during construction		
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		<b>√</b>	No, proper implementation of mitigations and maintenance of equipment, and		

Screening Question	Yes	No	Remarks
			machinery will be done to keep levels
			within limits.
Will the proposed subproject activities lead to		√	Rehabilitation works do not involve any
increased <b>soil erosion</b> ?			activity that will increase soil erosion
Will the proposed subproject interventions result in	$\checkmark$		Less quantity of debris and construction
the generation of <b>hazardous and/or non-</b>			waste will be generated which will be
hazardous waste?			handed over to the waste contractor.
Will the proposed subproject interventions result in	<u>.</u>	√	Workers from nearby localities will be
potentially increased health risks for subproject			commuted daily for a specific duration so
workers and communities (e.g., communicable			it would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		√	The Subproject area does not come under
implemented in an area with high natural hazard			the category of high hazard risk.
<b>risk</b> ? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICA	L ENV	IRON	MENT
Will the proposed subproject interventions	[	√	No, as it will be limited to the specified
potentially cause any adverse impacts on <b>habitats</b> ,			areas of urban settlements.
ecosystems, and/or ecosystem services?			
Will any rehabilitation work be located in areas that		√	Rehabilitation work does not include the
would promote the <b>conversion of natural habitats</b> ?			conversion of natural habitat as it will only
			upgrade the existing damaged utilities.
Will any proposed subproject interventions be		√	No, there are no protected areas situated in
located on or near sensitive environmental areas,			nearby surroundings.
including national parks and protected areas?			nearby surroundings.
Are the proposed subproject interventions activities		√	Fauna of urban nature is found around
likely to pose risks to any <b>endangered species</b> ?			subproject area that comes under the least
interf to pose fishes to any encanger ou species.			concern status of the IUCN Red List.
SOCIAL E	<u>.</u> NVIR(	) NME	NT
Will the proposed subproject activities involve <b>land</b>		<ul> <li>✓</li> </ul>	Subproject land is owned by GoS.
acquisition?			Subproject faile is owned by Gos.
Are there any forced labor or child labor risks		√	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to hire
involved in implementing this proposed subproject			only those people who have valid CNIC or
intervention?			are at least 18 years old.
Is labor influx (outside labor force) expected		√	No, locals of the area would be given
during the construction of the proposed subproject?			preference for skilled and non-skilled jobs.
Will <b>local labor</b> be used for the proposed subproject	✓		Yes, locals of the area will be given
construction activities?			preference first.
Will there be any <b>temporary or permanent</b>		√	Rehabilitation works will be done for
<b>displacement</b> as a result of the proposed subproject			existing utilities which exist in a
construction or operation activities?			demarcated area.
Are there expected to be any <b>traffic-related issues</b>	$\checkmark$		Minor impacts only during construction.
as a result of the proposed subproject intervention			
activities, particularly during the construction			
phase?			
L Lunce.	<u>.</u>		<u>.</u>

Screening Question	Yes	No	Remarks
Are the proposed subproject activities likely to have		✓	No, as the rehabilitation work involves the
impacts on important religious/cultural heritage			upgradation or restoration of existing
sites?			facilities.
Have there been any past security-related issues at		✓	No, the subproject area is situated in an
the proposed subproject sites?			urban settlement and on government-
			owned land.
Has stakeholder engagement taken place in the	✓		Community members showed concerns
proposed subproject areas?			about the overall impact of the water
			supply and drainage schemes on public
			health and sanitation.
Were vulnerable groups involved in stakeholder	√		Yes, women shared that stagnant water or
consultations? (e.g., women, minorities,			wastewater causes skin irritations and
economically disadvantaged individuals, etc.)		<u>.</u>	other diseases.

Name of	Rehabilitation of Damaged Water Supply & Drainage Schemes					
Subproject:						
Sector:	Public Health Engineering Department (P	Public Health Engineering Department (PHED)				
Subproject	Shahaad Banazirahad Sindh					
Location:	Shaheeu Dehazhabau, Shidh	Shaheed Benazirabad, Sindh				
Schemes Location:	Ali Abad Disposal Works (Daur Town)	Coordinates:				
		E = 432166m N = 2926299m				
Date:	7/8/2023					

Screening Question	Yes	No	Remarks		
PHYSICAL ENVIRONMENT					
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		~	No such activity will take place that causes the disposal of suspended solids in nearby water bodies		
Will the proposed subproject interventions pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		<ul> <li>Image: A start of the start of</li></ul>	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.		
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.		
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	•		Yes, flood and improper maintenance are the potential sources of destruction of drainage network		
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		✓	Water from tankers and bowsers will be utilized during construction.		
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	✓		negligible impacts only during construction		
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	~		Negligible impacts only during construction		
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		<b>√</b>	No, proper implementation of mitigations and maintenance of equipment, and		

Screening Question	Yes	No	Remarks
			machinery will be done to keep levels
			within limits.
Will the proposed subproject activities lead to		√	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion
Will the proposed subproject interventions result in	√		Less quantity of debris and construction
the generation of <b>hazardous and/or non-</b>			waste will be generated which will be
hazardous waste?			handed over to the waste contractor.
Will the proposed subproject interventions result in		√	Workers from nearby localities will be
potentially increased health risks for subproject			commuted daily for a specific duration so
workers and communities (e.g., communicable			it would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		√	The Subproject area does not come under
implemented in an area with high natural hazard			the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICAI	L ENV	IRON	MENT
Will the proposed subproject interventions		✓	No, as it will be limited to the specified
potentially cause any adverse impacts on habitats,			areas of urban settlements.
ecosystems, and/or ecosystem services?			
Will any rehabilitation work be located in areas that		√	Rehabilitation work does not include the
would promote the <b>conversion of natural habitats</b> ?			conversion of natural habitat as it will only
			upgrade the existing damaged utilities.
Will any proposed subproject interventions be		√	No, there are no protected areas situated in
located on or near sensitive environmental areas,			nearby surroundings.
including national parks and protected areas?			
Are the proposed subproject interventions activities		√	Fauna of urban nature is found around
likely to pose risks to any endangered species?			subproject area that comes under the least
			concern status of the IUCN Red List.
SOCIAL E	NVIRC	)NME	NT
Will the proposed subproject activities involve land		√	Subproject land is owned by GoS.
acquisition?			
Are there any forced labor or child labor risks		√	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to hire
involved in implementing this proposed subproject			only those people who have valid CNIC or
intervention?			are at least 18 years old.
Is labor influx (outside labor force) expected		✓	No, locals of the area would be given
during the construction of the proposed subproject?			preference for skilled and non-skilled jobs.
Will <b>local labor</b> be used for the proposed subproject	√		Yes, locals of the area will be given
construction activities?			preference first.
Will there be any temporary or permanent		✓	Rehabilitation works will be done for
<b>displacement</b> as a result of the proposed subproject			existing utilities which exist in a
construction or operation activities?			demarcated area.
Are there expected to be any <b>traffic-related issues</b>	√		Minor impacts only during construction.
as a result of the proposed subproject intervention			
	:	:	:
activities, particularly during the construction			

Screening Question	Yes	No	Remarks
Are the proposed subproject activities likely to have		✓	No, as the rehabilitation work involves the
impacts on important religious/cultural heritage			upgradation or restoration of existing
sites?			facilities.
Have there been any past security-related issues at		✓	No, the subproject area is situated in an
the proposed subproject sites?			urban settlement and on government-
			owned land.
Has stakeholder engagement taken place in the	✓		The community pointed out that drainage
proposed subproject areas?			networks are not available and if available
			are in bad condition or blocked.
Were vulnerable groups involved in stakeholder	✓		Yes, women shared that stagnant water or
consultations? (e.g., women, minorities,			wastewater causes skin irritations and
economically disadvantaged individuals, etc.)			other diseases. There is also unavailability
			of educational facilities like higher school
			and colleges for girls.

Name of Subproject:	Rehabilitation of Damaged Water Supply & Drainage Schemes			
Sector:	Public Health Engineering Department (PH	Public Health Engineering Department (PHED)		
Subproject	Shahaad Danazirahad Sindh			
Location:	Shaheed Benazirabad, Sindh			
Schemes Location:	Raza Abad Disposal Works (Daur Town)	Coordinates:		
		E = 432610m N = 2922674m		
Date:	7/8/2023			

Screening Question	Yes	No	Remarks		
PHYSICAL ENVIRONMENT					
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		~	No such activity will take place that causes the disposal of suspended solids in nearby water bodies.		
Will the proposed subproject activities pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		<ul> <li>✓</li> </ul>	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.		
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.		
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	✓		Yes, flood and improper maintenance are the potential sources of destruction of drainage network		
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		~	Water from tankers and bowsers will be utilized during construction.		
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	~		Negligible impacts will be posed only during the construction phase that will be mitigated.		
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	✓		Negligible impacts will be posed only during the construction phase that will be mitigated.		
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		✓	No, proper implementation of mitigations and maintenance of equipment, and		

Screening Question	Yes	No	Remarks
		1	machinery will be done to keep levels
			within limits.
Will the proposed subproject activities lead to		<ul><li>✓</li></ul>	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion
Will the proposed subproject interventions result in	√		Less quantity of debris and construction
the generation of hazardous and/or non-			waste will be generated which will be
hazardous waste?			handed over to the waste contractor for
			safe disposal.
Will the proposed subproject interventions result in		✓	Workers from nearby localities will be
potentially increased health risks for subproject			commuted daily for a specific duration so
workers and communities (e.g., communicable			it would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		✓	The Subproject area does not come under
implemented in an area with high natural hazard			the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICA	L ENV	IRON	MENT
Will the proposed subproject interventions		✓	No, as it will be limited to the specified
potentially cause any adverse impacts on habitats,			areas of urban settlements.
ecosystems, and/or ecosystem services?			
Will any rehabilitation work be located in areas that		✓	Rehabilitation work does not include the
would promote the <b>conversion of natural habitats</b> ?			conversion of natural habitat as it will only
			upgrade the existing damaged utilities.
Will any proposed subproject interventions be		✓	No, there are no protected areas situated in
located on or near sensitive environmental areas,			nearby surroundings.
including national parks and protected areas?			
Are the proposed subproject interventions activities		✓	Fauna of urban nature is found around
likely to pose risks to any endangered species?			subproject area that comes under the least
			concern status of the IUCN Red List.
SOCIAL E	NVIRO	NME	NT
Will the proposed subproject activities involve land		<ul><li>✓</li></ul>	Subproject land is owned by GoS.
acquisition?			
Are there any forced labor or child labor risks		✓	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to hire
involved in implementing this proposed subproject			only those people who have valid CNIC or
intervention?			are at least 18 years old.
Is labor influx (outside labor force) expected		✓	No, locals of the area would be given
during the construction of the proposed subproject?			preference for skilled and non-skilled jobs.
Will local labor be used for the proposed subproject	√		Yes, locals of the area will be given
construction activities?			preference first.
Will there be any temporary or permanent		✓	Rehabilitation works will be done for
displacement as a result of the proposed subproject			existing utilities that exist in a demarcated
construction or operation activities?			area.
Are there expected to be any traffic-related issues	✓		Minor impacts only during construction.
as a result of the proposed subproject intervention			

Screening Question	Yes	No	Remarks
activities, particularly during the construction phase?			
Are the proposed subproject activities likely to have <b>impacts on important religious/cultural heritage sites</b> ?		~	No, as the rehabilitation work involves the upgradation or restoration of existing facilities.
Have there been any past <b>security-related issues</b> at the proposed subproject sites?		~	No, the subproject area is situated in an urban settlement and on government- owned land.
Has <b>stakeholder engagement</b> taken place in the proposed subproject areas?	✓		The community urged to provide semi- skilled and unskilled jobs for local labor first.
Were <b>vulnerable groups</b> involved in stakeholder consultations? (e.g., women, minorities, economically disadvantaged individuals, etc.)	✓		Yes, some female members showed their reservations about their privacy during construction.

Name of Subproject:	Rehabilitation of Damaged Water Supply & Drainage Schemes			
Sector:	Public Health Engineering Department (P	Public Health Engineering Department (PHED)		
Subproject	Shehood Popozirohod Sindh			
Location:	Shaheed Benazirabad, Sindh			
Schemes Location:	Bucheri Town Zone-A (Bucheri Town)	Coordinates:		
		E=410043 m, N=3034502 m		
Date:	5/8/2023			

Screening Question	Yes	No	Remarks		
PHYSICAL ENVIRONMENT					
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		<ul> <li>Image: A start of the start of</li></ul>	No such activity will take place that causes this risk.		
Will the proposed subproject activities pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		•	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.		
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.		
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	✓		Yes, flood and improper maintenance are the potential sources of destruction of drainage network		
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		<b>~</b>	Water from tankers and bowsers will be utilized during construction.		
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	~	•	Negligible impacts will be posed only during the construction phase that will be mitigated.		
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	~		Negligible impacts will be posed only during the construction phase that will be mitigated.		
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		✓	No, proper implementation of mitigations and maintenance of equipment, and		

Screening Question	Yes	No	Remarks
			machinery will be done to keep levels
			within limits.
Will the proposed subproject activities lead to		$\checkmark$	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion
Will the proposed subproject interventions result in	✓		Less quantity of debris and construction
the generation of hazardous and/or non-			waste will be generated which will be
hazardous waste?			handed over to the waste contractor for
			safe disposal.
Will the proposed subproject interventions result in		$\checkmark$	Workers from nearby localities will be
potentially increased health risks for subproject			commuted daily for a specific duration so
workers and communities (e.g., communicable			it would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		$\checkmark$	The Subproject area does not come under
implemented in an area with high natural hazard			the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICA	L ENV	VIRON	MENT
Will the proposed subproject interventions		✓	No, as it will be limited to the specified
potentially cause any adverse impacts on habitats,			areas of urban settlements.
ecosystems, and/or ecosystem services?			
Will any rehabilitation work be located in areas that		✓	Rehabilitation work does not include the
would promote the <b>conversion of natural habitats</b> ?			conversion of natural habitat as it will only
			upgrade the existing damaged utilities.
Will any proposed subproject interventions be		✓	No, there are no protected areas situated in
located on or near sensitive environmental areas,			nearby surroundings.
including national parks and protected areas?			
Are the proposed subproject interventions activities		$\checkmark$	Fauna of urban nature is found around
likely to pose risks to any endangered species?			subproject area that comes under the least
			concern status of the IUCN Red List.
SOCIAL E	NVIR	ONME	NT
Will the proposed subproject activities involve land		✓	Subproject land is owned by GoS.
acquisition?			
Are there any forced labor or child labor risks		$\checkmark$	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to hire
involved in implementing this proposed subproject			only those people who have valid CNIC or
intervention?			are at least 18 years old.
Is labor influx (outside labor force) expected		✓	No, locals of the area would be given
during the construction of the proposed subproject?			preference for skilled and non-skilled jobs.
Will <b>local labor</b> be used for the proposed subproject	✓		Yes, locals of the area will be given
construction activities?			preference first.
Will there be any temporary or permanent		✓	Rehabilitation works will be done for
displacement as a result of the proposed subproject			existing utilities that exist in a demarcated
construction or operation activities?			area.
Are there expected to be any <b>traffic-related issues</b>	✓		Minor impacts only during construction.
as a result of the proposed subproject intervention		<u> </u>	<u> </u>

Screening Question	Yes	No	Remarks
activities, particularly during the construction phase?			
Are the proposed subproject activities likely to have <b>impacts on important religious/cultural heritage sites</b> ?		~	No, as the rehabilitation work involves the upgradation or restoration of existing facilities.
Have there been any past <b>security-related issues</b> at the proposed subproject sites?		<b>~</b>	No, the subproject area is situated in an urban settlement and on government- owned land.
Has <b>stakeholder engagement</b> taken place in the proposed subproject areas?	~		Yes, residents investigated how disruptions to daily life, including noise, dust, traffic congestion, and temporary service interruptions will be mitigated.
Were <b>vulnerable groups</b> involved in stakeholder consultations? (e.g., women, minorities, economically disadvantaged individuals, etc.)	✓		Yes, engaging local people during project activities and considering the women's privacy not be affected.

Name of Subproject:	Rehabilitation of Damaged Water Supply & Drainage Schemes					
Sector:	Public Health Engineering Department (P	Public Health Engineering Department (PHED)				
Subproject	Shahaad Banazirahad Sindh					
Location:	Shaheed Behazhabad, Shidh	Shaheed Benazirabad, Sindh				
Schemes Location:	Bucheri Town Zone-B (Bucheri Town)	Coordinates:				
		E = 436439m N = 2915326m				
Date:	5/8/2023					

Screening Question	Yes	No	Remarks		
PHYSICAL ENVIRONMENT					
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing		✓	No such activity will take place that causes the disposal of suspended solids in nearby water bodies.		
into nearby water bodies?			water boules.		
Will the proposed subproject activities pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		~	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.		
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.		
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	✓		Yes, flood and improper maintenance are the potential sources of destruction of drainage network		
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		V	Water from tankers and bowsers will be utilized during construction.		
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	✓		Negligible impacts will be posed only during the construction phase that will be mitigated.		
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	✓		Negligible impacts will be posed only during the construction phase that will be mitigated.		
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		<b>√</b>	No, proper implementation of mitigations and maintenance of equipment, and		

Screening Question	Yes	No	Remarks
		1	machinery will be done to keep levels
			within limits.
Will the proposed subproject activities lead to		<ul><li>✓</li></ul>	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion
Will the proposed subproject interventions result in	√		Less quantity of debris and construction
the generation of hazardous and/or non-			waste will be generated which will be
hazardous waste?			handed over to the waste contractor for
			safe disposal.
Will the proposed subproject interventions result in		✓	Workers from nearby localities will be
potentially increased health risks for subproject			commuted daily for a specific duration so
workers and communities (e.g., communicable			it would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		✓	The Subproject area does not come under
implemented in an area with high natural hazard			the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICA	L ENV	IRON	MENT
Will the proposed subproject interventions		✓	No, as it will be limited to the specified
potentially cause any adverse impacts on habitats,			areas of urban settlements.
ecosystems, and/or ecosystem services?			
Will any rehabilitation work be located in areas that		✓	Rehabilitation work does not include the
would promote the <b>conversion of natural habitats</b> ?			conversion of natural habitat as it will only
			upgrade the existing damaged utilities.
Will any proposed subproject interventions be		✓	No, there are no protected areas situated in
located on or near sensitive environmental areas,			nearby surroundings
including national parks and protected areas?			
Are the proposed subproject interventions activities		✓	Fauna of urban nature is found around
likely to pose risks to any endangered species?			subproject area that comes under the least
			concern status of the IUCN Red List.
SOCIAL E	NVIRO	NME	NT
Will the proposed subproject activities involve land		✓	Subproject land is owned by GoS.
acquisition?			
Are there any forced labor or child labor risks		✓	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to hire
involved in implementing this proposed subproject			only those people who have valid CNIC or
intervention?			are at least 18 years old.
Is labor influx (outside labor force) expected		✓	No, locals of the area would be given
during the construction of the proposed subproject?			preference for skilled and non-skilled jobs.
Will <b>local labor</b> be used for the proposed subproject	✓		Yes, locals of the area will be given
construction activities?			preference first.
Will there be any temporary or permanent		✓	Rehabilitation works will be done for
displacement as a result of the proposed subproject			existing utilities that exist in a demarcated
construction or operation activities?		ļ	area.
Are there expected to be any <b>traffic-related issues</b>	✓		Minor impacts only during construction.
as a result of the proposed subproject intervention			

Screening Question	Yes	No	Remarks
activities, particularly during the construction phase?			
Are the proposed subproject activities likely to have impacts on important religious/cultural heritage sites?		✓	No, as the rehabilitation work involves the upgradation or restoration of existing facilities.
Have there been any past <b>security-related issues</b> at the proposed subproject sites?		✓	No, the subproject area is situated in an urban settlement and on government- owned land.
Has <b>stakeholder engagement</b> taken place in the proposed subproject areas?	~		The Stakeholder shows their concern regarding the impacts during the construction stage on waste management and land acquisition.
Were <b>vulnerable groups</b> involved in stakeholder consultations? (e.g., women, minorities, economically disadvantaged individuals, etc.)	✓		Yes, there is no attention to the literacy rate and education system of children.

Name of Subproject:	Rehabilitation of Damaged Water Supply & Drainage Schemes		
Sector:	Public Health Engineering Department (Pl	HED)	
Subproject			
Location:	Shaheed Benazirabad, Sindh		
Schemes Location:	Madina Colony Zone-A (Bandhi Town)	Coordinates:	
		E = 430152m N = 2940380m	
Date:	5/8/2023		

Screening Question	Yes	No	Remarks
PHYSICAL	ENVIR	ONME	NT
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		✓	No such activity will take place that causes the disposal of suspended solids in nearby water bodies
Will the proposed subproject interventions pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		V	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.
Is there any potential <b>pollution source</b> in water supply network?		V	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	~		Yes, flood and improper maintenance are the potential sources of destruction of drainage network
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		<b>√</b>	Water from tankers and bowsers will be utilized during construction.
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	✓		negligible impacts only during construction
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	✓		Negligible impacts only during construction
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		<b>~</b>	No, proper implementation of mitigations and maintenance of

Screening Question	Yes	No	Remarks
			equipment, and machinery will be done
			to keep levels within limits.
Will the proposed subproject activities lead to		$\checkmark$	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion
Will the proposed subproject interventions result in	✓		Less quantity of debris and construction
the generation of hazardous and/or non-			waste will be generated which will be
hazardous waste?			handed over to the waste contractor.
Will the proposed subproject interventions result in		✓	Workers from nearby localities will be
potentially increased health risks for subproject			commuted daily for a specific duration
workers and communities (e.g., communicable			so it would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		✓	The Subproject area does not come
implemented in an area with high natural hazard			under the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICA	L ENV	IRONM	IENT
Will the proposed subproject interventions	[	✓	No, as it will be limited to the specified
potentially cause any adverse impacts on habitats,			areas of urban settlements.
ecosystems, and/or ecosystem services?			
Will any rehabilitation work be located in areas that		$\checkmark$	Rehabilitation work does not include the
would promote the <b>conversion of natural habitats</b> ?			conversion of natural habitat as it will
			only upgrade the existing damaged
			utilities.
Will any proposed subproject interventions be		✓	No, there are no protected areas situated
located on or near sensitive environmental areas,			in nearby surroundings.
including national parks and protected areas?			
Are the proposed subproject interventions activities		$\checkmark$	Fauna of urban nature is found around
likely to pose risks to any endangered species?			subproject area that comes under the
			least concern status of the IUCN Red
			List.
SOCIAL E	NVIRO	NMEN	Т
Will the proposed subproject activities involve land		✓	Subproject land is owned by GoS.
acquisition?			
Are there any forced labor or child labor risks		✓	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to
involved in implementing this proposed subproject			hire only those people who have valid
intervention?			CNIC or are at least 18 years old.
Is labor influx (outside labor force) expected		✓	No, locals of the area would be given
during the construction of the proposed subproject?			preference for skilled and non-skilled
			jobs.
Will local labor be used for the proposed subproject	✓		Yes, locals of the area will be given
construction activities?			preference first.
Will there be any temporary or permanent		✓	Rehabilitation works will be done for
displacement as a result of the proposed subproject			existing utilities which exist in a
construction or operation activities?			demarcated area.

Screening Question	Yes	No	Remarks
Are the proposed subproject activities likely to have		✓	No, as the rehabilitation work involves
impacts on important religious/cultural heritage			the upgradation or restoration of existing
sites?			facilities.
Have there been any past security-related issues at		✓	No, the subproject area is situated in an
the proposed subproject sites?			urban settlement and on government-
			owned land.
Has stakeholder engagement taken place in the	✓		Community members showed concerns
proposed subproject areas?			about the overall impact of the water
			supply and drainage schemes on public
			health and sanitation.
Were vulnerable groups involved in stakeholder	√		Yes, women shared that stagnant water
consultations? (e.g., women, minorities,			or wastewater causes skin irritations and
economically disadvantaged individuals, etc.)			other diseases.

Name of Subproject:	Rehabilitation of Damaged Water Supply & Drainage Schemes				
Sector:	Public Health Engineering Department (PHED)				
Subproject	Shaheed Benazirabad, Sindh	Shahaad Danaaimhad, Sindh			
Location:	Shaheed Behazirabad, Shidh				
Schemes Location:	Zone-B Bandhi (bandhi Town)	Coordinates:			
		E = 430330m N = 2941650m			
Date:	8/8/2023				

Screening Question	Yes	No	Remarks
PHYSICAL	ENVIR	ONM	ENT
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		~	No such activity will take place that causes the disposal of suspended solids in nearby water bodies.
Will the proposed subproject activities pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		~	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	✓		Yes, flood and improper maintenance are the potential sources of destruction of drainage network
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		~	Water from tankers and bowsers will be utilized during construction.
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	~		Negligible impacts will be posed only during the construction phase that will be mitigated.
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	✓		Negligible impacts will be posed only during the construction phase that will be mitigated.
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		~	No, proper implementation of mitigations and maintenance of equipment, and

Screening Question	Yes	No	Remarks
		1	machinery will be done to keep levels
			within limits.
Will the proposed subproject activities lead to		<ul><li>✓</li></ul>	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion
Will the proposed subproject interventions result in	√		Less quantity of debris and construction
the generation of hazardous and/or non-			waste will be generated which will be
hazardous waste?			handed over to the waste contractor for
			safe disposal.
Will the proposed subproject interventions result in		✓	Workers from nearby localities will be
potentially increased health risks for subproject			commuted daily for a specific duration so
workers and communities (e.g., communicable			it would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		✓	The Subproject area does not come under
implemented in an area with high natural hazard			the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICA	L ENV	IRON	MENT
Will the proposed subproject interventions		✓	No, as it will be limited to the specified
potentially cause any adverse impacts on habitats,			areas of urban settlements.
ecosystems, and/or ecosystem services?			
Will any rehabilitation work be located in areas that		✓	Rehabilitation work does not include the
would promote the <b>conversion of natural habitats</b> ?			conversion of natural habitat as it will only
			upgrade the existing damaged utilities.
Will any proposed subproject interventions be		✓	No, there are no protected areas situated in
located on or near sensitive environmental areas,			nearby surroundings.
including national parks and protected areas?			
Are the proposed subproject interventions activities		✓	Fauna of urban nature is found around
likely to pose risks to any endangered species?			subproject area that comes under the least
			concern status of the IUCN Red List.
SOCIAL E	NVIRO	NME	NT
Will the proposed subproject activities involve land		<ul><li>✓</li></ul>	Subproject land is owned by GoS.
acquisition?			
Are there any forced labor or child labor risks		✓	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to hire
involved in implementing this proposed subproject			only those people who have valid CNIC or
intervention?			are at least 18 years old.
Is labor influx (outside labor force) expected		✓	No, locals of the area would be given
during the construction of the proposed subproject?			preference for skilled and non-skilled jobs.
Will local labor be used for the proposed subproject	√		Yes, locals of the area will be given
construction activities?			preference first.
Will there be any temporary or permanent		✓	Rehabilitation works will be done for
displacement as a result of the proposed subproject			existing utilities that exist in a demarcated
construction or operation activities?			area.
Are there expected to be any traffic-related issues	✓		Minor impacts only during construction.
as a result of the proposed subproject intervention			

Screening Question	Yes	No	Remarks
activities, particularly during the construction phase?			
Are the proposed subproject activities likely to have <b>impacts on important religious/cultural heritage sites</b> ?		~	No, as the rehabilitation work involves the upgradation or restoration of existing facilities.
Have there been any past <b>security-related issues</b> at the proposed subproject sites?		V	No, the subproject area is situated in an urban settlement and on government- owned land.
Has <b>stakeholder engagement</b> taken place in the proposed subproject areas?	~		Yes, community was concerned about how the maintenance and sustainability of drainage schemes will be ensured.
Were <b>vulnerable groups</b> involved in stakeholder consultations? (e.g., women, minorities, economically disadvantaged individuals, etc.)	~		Yes, some female members shared hygiene and health issues due to unavailability of drainage network.

SINDH FI	LOOD EMERGENCY REHABILITA	FION SUBPROJECT (SFERP)		
ENVIRONME	NTAL & SOCIAL SCREENING CH	ECKLIST OF SUB-SUBPROJECT		
Name of	Pahabilitation of Damagad Water Sun	nly & Drainaga Schamas		
Subproject:	Renabilitation of Damaged Water Sup	Rehabilitation of Damaged Water Supply & Drainage Schemes		
Sector:	Public Health Engineering Department (PHED)			
Subproject	Shaheed Benazirabad, Sindh			
Location:				
Schemes Location:	Zone-C Disposal (Bndhi Town)	Coordinates:		
		E=418802 m N=3028459 m		
Date:	8/8/2023			

Screening Question	Yes	No	Remarks
PHYSICAL E	NVIRC	NMEN	T
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		•	No such activity will take place that causes the disposal of suspended solids in nearby water bodies.
Will the proposed subproject activities pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		V	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.
Is there any potential source that can <b>damage drainage network</b> ? Or Is it <b>affected by flood</b> ?	~		Yes, flood and improper maintenance are the potential sources of destruction of drainage network
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		<b>~</b>	Water from tankers and bowsers will be utilized during construction.
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	~		Negligible impacts will be posed only during the construction phase that will be mitigated.
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	✓		Negligible impacts will be posed only during the construction phase that will be mitigated.
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		<b>~</b>	No, proper implementation of mitigations and maintenance of

Screening Question	Yes	No	Remarks
			equipment, and machinery will be done
			to keep levels within limits.
Will the proposed subproject activities lead to		✓	Rehabilitation works do not involve
increased soil erosion?			any activity that will increase soil
			erosion
Will the proposed subproject interventions result in		-	Less quantity of debris and
the generation of <b>hazardous and/or non-hazardous</b>			construction waste will be generated
waste?			which will be handed over to the waste
waste?			
			contractor for safe disposal.
Will the proposed subproject interventions result in		✓	Workers from nearby localities will be
potentially increased health risks for subproject			commuted daily for a specific duration
workers and communities (e.g., communicable			so it would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		✓	The Subproject area does not come
implemented in an area with high natural hazard			under the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICAL	ENVIE	RONME	ENT
Will the proposed subproject interventions potentially		✓	No, as it will be limited to the specified
cause any adverse impacts on habitats, ecosystems,			areas of urban settlements.
and/or ecosystem services?			
Will any rehabilitation work be located in areas that		✓	Rehabilitation work does not include
would promote the <b>conversion of natural habitats</b> ?			the conversion of natural habitat as it
•			will only upgrade the existing damaged
			utilities.
Will any proposed subproject interventions be located		✓	No, there are no protected areas
on or near sensitive environmental areas, including			situated in nearby surroundings.
national parks and protected areas?			
Are the proposed subproject interventions activities		✓	Fauna of urban nature is found around
likely to pose risks to any <b>endangered species</b> ?			subproject area that comes under the
incerv to pose fisks to any enuangered species.			least concern status of the IUCN Red
			List.
SOCIAL EN	V IKUľ		
Will the proposed subproject activities involve land		✓	Subproject land is owned by GoS.
acquisition?			
Are there any forced labor or child labor risks		~	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to
involved in implementing this proposed subproject			hire only those people who have valid
intervention?			CNIC or are at least 18 years old.
Is labor influx (outside labor force) expected during		✓	No, locals of the area would be given
the construction of the proposed subproject?			preference for skilled and non-skilled
			jobs.
Will local labor be used for the proposed subproject	✓		Yes, locals of the area will be given
construction activities?			preference first.
	<u>.</u>		· · · · · · · · · · · · · · · · · · ·

Screening Question	Yes	No	Remarks
Will there be any <b>temporary or permanent</b> <b>displacement</b> as a result of the proposed subproject construction or operation activities?		~	Rehabilitation works will be done for existing utilities that exist in a demarcated area.
Are there expected to be any <b>traffic-related issues</b> as a result of the proposed subproject intervention activities, particularly during the construction phase?	✓		Minor impacts only during construction.
Are the proposed subproject activities likely to have impacts on important religious/cultural heritage sites?		~	No, as the rehabilitation work involves the upgradation or restoration of existing facilities.
Have there been any past <b>security-related issues</b> at the proposed subproject sites?		~	No, the subproject area is situated in an urban settlement and on government- owned land.
Has <b>stakeholder engagement</b> taken place in the proposed subproject areas?	✓		Yes, Will the drainage scheme require long-term maintenance? How sustainability will be ensured?
Were <b>vulnerable groups</b> involved in stakeholder consultations? (e.g., women, minorities, economically disadvantaged individuals, etc.)	✓		Yes, some female members shared hygiene and health issues due to unavailability of drainage network.

	OD EMERGENCY REHABILITATION TAL & SOCIAL SCREENING CHECK		
Name of Subproject:	Rehabilitation of Damaged Water Supply	v & Drainage Schemes	
Sector:	Public Health Engineering Department (PHED)		
Subproject Location:	Shaheed Benazirabad, Sindh		
Schemes Location:	Zone D- Near Jamali Colony (Bandhi	Coordinates:	
	Town)	E = 430915m N = 2940742m	
Date:	8/8/2023		

Screening Question	Yes	No	Remarks		
PHYSICAL ENVIRONMENT					
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids		<b>√</b>	No such activity will take place that causes the disposal of suspended solids in nearby water bodies		
washing into nearby water bodies? Will the proposed subproject interventions pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		~	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.		
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.		
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	~		Yes, flood and improper maintenance are the potential sources of destruction of drainage network		
Will the proposed subproject interventions <b>deplete groundwater</b> because of the water used during rehabilitation activities?		✓	Water from tankers and bowsers will be utilized during construction.		
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	~		negligible impacts only during construction		
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	✓		Negligible impacts only during construction		

Screening Question	Yes	No	Remarks
Will these ambient noise levels be beyond the		<ul><li>✓</li></ul>	No, proper implementation of mitigations and
specifications in the <b>SEQS</b> ?			maintenance of equipment, and machinery
			will be done to keep levels within limits.
Will the proposed subproject activities lead to		✓	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion
Will the proposed subproject interventions result	✓	1	Less quantity of debris and construction
in the generation of hazardous and/or non-			waste will be generated which will be handed
hazardous waste?			over to the waste contractor.
Will the proposed subproject interventions result		√	Workers from nearby localities will be
in potentially increased health risks for			commuted daily for a specific duration so it
subproject workers and communities (e.g.,			would not increase health risks.
communicable diseases)?			
Are the proposed subproject interventions being		<ul><li>✓</li></ul>	The Subproject area does not come under the
implemented in an area with high natural			category of high hazard risk.
hazard risk? (e.g., floods, earthquakes,			
droughts, etc.)			
ECOLOGI	CAL EN	VIRC	
Will the proposed subproject interventions		<ul><li>✓</li></ul>	No, as it will be limited to the specified areas
potentially cause any adverse impacts on			of urban settlements.
habitats, ecosystems, and/or ecosystem			
services?			
Will any rehabilitation work be located in areas		<ul><li>✓</li></ul>	Rehabilitation work does not include the
that would promote the conversion of natural			conversion of natural habitat as it will only
habitats?			upgrade the existing damaged utilities.
Will any proposed subproject interventions be		<ul><li>✓</li></ul>	No, there are no protected areas situated in
located on or near sensitive environmental			nearby surroundings.
areas, including national parks and protected			
areas?			
Are the proposed subproject interventions		✓	Fauna of urban nature is found around
activities likely to pose risks to any endangered			subproject area that comes under the least
species?			concern status of the IUCN Red List.
SOCIAI	L ENVI	RONM	1ENT
Will the proposed subproject activities involve		<ul><li>✓</li></ul>	Subproject land is owned by GoS.
land acquisition?			
Are there any forced labor or child labor risks		<ul><li>✓</li></ul>	There would not be any forced or child labor
associated with contractors or other third parties			risk as the contractor is bound to hire only
involved in implementing this proposed			those people who have valid CNIC or are at
subproject intervention?			least 18 years old.
Is labor influx (outside labor force) expected		<ul><li>✓</li></ul>	No, locals of the area would be given
during the construction of the proposed			preference for skilled and non-skilled jobs.
subproject?			
Will local labor be used for the proposed	√		Yes, locals of the area will be given
subproject construction activities?			preference first.

Screening Question	Yes	No	Remarks
Will there be any <b>temporary or permanent</b> <b>displacement</b> as a result of the proposed subproject construction or operation activities?		V	Rehabilitation works will be done for existing utilities which exist in a demarcated area.
Are there expected to be any <b>traffic-related</b> <b>issues</b> as a result of the proposed subproject intervention activities, particularly during the construction phase?	✓		Minor impacts only during construction.
Are the proposed subproject activities likely to have <b>impacts on important religious/cultural heritage sites</b> ?		V	No, as the rehabilitation work involves the upgradation or restoration of existing facilities.
Have there been any past <b>security-related issues</b> at the proposed subproject sites?		~	No, the subproject area is situated in an urban settlement and on government-owned land.
Has <b>stakeholder engagement</b> taken place in the proposed subproject areas?	✓		Community members showed concerns about the overall impact of the water supply and drainage schemes on public health and sanitation.
Were <b>vulnerable groups</b> involved in stakeholder consultations? (e.g., women, minorities, economically disadvantaged individuals, etc.)	~		Yes, women shared that stagnant water or wastewater causes skin irritations and other diseases.

Name of	Rehabilitation of Damaged Water Supply & Drainage Schemes		
Subproject:			
Sector:	Public Health Engineering Department (PHED)		
Subproject	Shaheed Benazirabad, Sindh		
Location:			
Schemes Location:	Ammerji Water supply Scheme (Daur	Coordinates:	
	Town)	E = 430083m N = 2926614m	
Date:	9/8/2023		

Screening Question	Yes	No	Remarks
PHYSICAL E	NVIRC	<b>NME</b>	NT
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		~	The site is devoid of vegetation. No such activity will take place that causes this risk.
Will the proposed subproject activities pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		~	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.
Is there any potential source that can <b>damage</b> <b>drainage network</b> ? Or Is it <b>affected by flood</b> ?	✓		Yes, flood and improper maintenance are the potential sources of destruction of drainage network
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		✓	Water from tankers and bowsers will be utilized during construction.
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	~		Negligible impacts will be posed only during the construction phase that will be mitigated.
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	✓		Negligible impacts will be posed only during the construction phase that will be mitigated.
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		<ul> <li>Image: A start of the start of</li></ul>	No, proper implementation of mitigations and maintenance of equipment, and machinery will be done to keep levels within limits.

Screening Question	Yes	No	Remarks
Will the proposed subproject activities lead to		✓	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion
Will the proposed subproject interventions result in	√		Less quantity of debris and construction
the generation of hazardous and/or non-hazardous			waste will be generated which will be
waste?			handed over to the waste contractor for
			safe disposal.
Will the proposed subproject interventions result in		✓	Workers from nearby localities will be
potentially increased health risks for subproject			commuted daily for a specific duration
workers and communities (e.g., communicable			so it would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		✓	The Subproject area does not come
implemented in an area with high natural hazard			under the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICAL	ENVIE	ONM	ENT
Will the proposed subproject interventions potentially		<ul><li>✓</li></ul>	No, as it will be limited to the specified
cause any adverse impacts on habitats, ecosystems,			areas of urban settlements.
and/or ecosystem services?			
Will any rehabilitation work be located in areas that		✓	Rehabilitation work does not include the
would promote the <b>conversion of natural habitats</b> ?			conversion of natural habitat as it will
•			only upgrade the existing damaged
			utilities.
Will any proposed subproject interventions be located		✓	No, there are no protected areas situated
on or near sensitive environmental areas, including			in nearby surroundings.
national parks and protected areas?			
Are the proposed subproject interventions activities		√	Fauna of urban nature is found around
likely to pose risks to any endangered species?			subproject area that comes under the
			least concern status of the IUCN Red
			List.
SOCIAL EN	VIRON	MEN'	Γ
Will the proposed subproject activities involve land		<ul><li>✓</li></ul>	Subproject land is owned by GoS.
acquisition?			
Are there any forced labor or child labor risks		√	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to
involved in implementing this proposed subproject			hire only those people who have valid
intervention?			CNIC or are at least 18 years old.
Is labor influx (outside labor force) expected during		✓	No, locals of the area would be given
the construction of the proposed subproject?			preference for skilled and non-skilled
			jobs.
Will local labor be used for the proposed subproject	√		Yes, locals of the area will be given
construction activities?			preference first.
Will there be any temporary or permanent		✓	Rehabilitation works will be done for
displacement as a result of the proposed subproject			existing utilities that exist in a
construction or operation activities?			demarcated area.

Screening Question	Yes	No	Remarks
Are there expected to be any <b>traffic-related issues</b> as a result of the proposed subproject intervention activities, particularly during the construction phase?	✓		Minor impacts only during construction.
Are the proposed subproject activities likely to have <b>impacts on important religious/cultural heritage</b> sites?		V	No, as the rehabilitation work involves the upgradation or restoration of existing facilities.
Have there been any past <b>security-related issues</b> at the proposed subproject sites?		V	No, the subproject area is situated in an urban settlement and on government- owned land.
Has <b>stakeholder engagement</b> taken place in the proposed subproject areas?	✓		Will the drainage scheme require long- term maintenance? How sustainability will be ensured?
Were <b>vulnerable groups</b> involved in stakeholder consultations? (e.g., women, minorities, economically disadvantaged individuals, etc.)	~		Yes, some female members shared hygiene and health issues due to unavailability of drainage network.

	OOD EMERGENCY REHABILITATION NTAL & SOCIAL SCREENING CHECK		
Name of Subproject:	Rehabilitation of Damaged Water Supply	& Drainage Schemes	
Sector:	Public Health Engineering Department (PHED)		
Subproject Location:	Shaheed Benazirabad, Sindh		
Schemes Location:	Gajrah Wah water supply scheme (Daur	Coordinates:	
	Town)	E = 435211m N = 2925095m	
Date:	9/8/2023		

Screening Question	Yes	No	Remarks			
PHYSICAL ENVIRONMENT						
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		~	No such activity will take place that causes this risk.			
Will the proposed subproject activities pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		~	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.			
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.			
Is there any potential source that can <b>damage drainage network</b> ? Or Is it <b>affected by flood</b> ?	✓		Yes, flood and improper maintenance are the potential sources of destruction of drainage network			
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		✓	Water from tankers and bowsers will be utilized during construction.			
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	✓	•	Negligible impacts will be posed only during the construction phase that will be mitigated.			
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	✓		Negligible impacts will be posed only during the construction phase that will be mitigated.			
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		~	No, proper implementation of mitigations and maintenance of equipment, and machinery will be done to keep levels within limits.			

Screening Question	Yes	No	Remarks
Will the proposed subproject activities lead to		✓	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion.
Will the proposed subproject interventions result in	✓		Less quantity of debris and construction
the generation of hazardous and/or non-hazardous			waste will be generated which will be
waste?			handed over to the waste contractor for
			safe disposal.
Will the proposed subproject interventions result in		✓	Workers from nearby localities will be
potentially increased health risks for subproject			commuted daily for a specific duration so
workers and communities (e.g., communicable			it would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		✓	The Subproject area does not come under
implemented in an area with high natural hazard			the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICAL	ENVI	RON	MENT
Will the proposed subproject interventions potentially		✓	No, as it will be limited to the specified
cause any adverse impacts on habitats, ecosystems,			areas of urban settlements.
and/or ecosystem services?			
Will any rehabilitation work be located in areas that		✓	Rehabilitation work does not include the
would promote the <b>conversion of natural habitats</b> ?			conversion of natural habitat as it will only
			upgrade the existing damaged utilities.
Will any proposed subproject interventions be located	✓		Yes, a canal is flowing at a distance of 40-
on or near sensitive environmental areas, including			60 meters away from proposed water
national parks and protected areas?			supply scheme.
Are the proposed subproject interventions activities		√	Fauna of urban nature is found around
likely to pose risks to any endangered species?			subproject area that comes under the least
			concern status of the IUCN Red List.
SOCIAL EN	VIRO	NME	NT
Will the proposed subproject activities involve land		✓	Subproject land is owned by GoS.
acquisition?			
Are there any forced labor or child labor risks		√	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to hire
involved in implementing this proposed subproject			only those people who have valid CNIC or
intervention?			are at least 18 years old.
Is labor influx (outside labor force) expected during		✓	No, locals of the area would be given
the construction of the proposed subproject?			preference for skilled and non-skilled jobs.
Will local labor be used for the proposed subproject	√		Yes, locals of the area will be given
construction activities?			preference first.
Will there be any temporary or permanent		✓	Rehabilitation works will be done for
displacement as a result of the proposed subproject			existing utilities that exist in a demarcated
construction or operation activities?			area.
Are there expected to be any traffic-related issues as	✓		Minor impacts only during construction.
a result of the proposed subproject intervention			Proper mitigations must be implemented
activities, particularly during the construction phase?			so that social receptors would not get
· · ·			disturbed.

Screening Question	Yes	No	Remarks
Are the proposed subproject activities likely to have		✓	No, as the rehabilitation work involves the
impacts on important religious/cultural heritage			upgradation or restoration of existing
sites?			facilities or in a close periphery.
Have there been any past security-related issues at		✓	No, the subproject area is situated in an
the proposed subproject sites?			urban settlement and on government-
			owned land.
Has stakeholder engagement taken place in the	✓		Community requested to resolve issues
proposed subproject areas?			related to water supply lines and stagnant
			wastewater after rains
Were vulnerable groups involved in stakeholder	✓		Yes. Females were concerned about their
consultations? (e.g., women, minorities,			mobility for daily purposes during
economically disadvantaged individuals, etc.)			construction.

	OOD EMERGENCY REHABILITATION NTAL & SOCIAL SCREENING CHECK		
Name of Subproject:	Rehabilitation of Damaged Water Supply &	& Drainage Schemes	
Sector:	Public Health Engineering Department (PHED)		
Subproject Location:	Shaheed Benazirabad, Sindh		
Schemes Location:	Sada Wah Water Supply Scheme (Bandhi	Coordinates:	
	Town)	E = 429372m N = 2942373m	
Date:	9/8/2023		

Screening Question	Yes	No	Remarks		
PHYSICAL ENVIRONMENT					
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		~	The site is devoid of vegetation. No such activity will take place that causes this risk.		
Will the proposed subproject activities pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		~	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.		
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.		
Is there any potential source that can <b>damage drainage</b> <b>network</b> ? Or Is it <b>affected by flood</b> ?	✓		Yes, flood and improper maintenance are the potential sources of destruction of drainage network		
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		✓	Water from tankers and bowsers will be utilized during construction.		
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	✓	•	Negligible impacts will be posed only during the construction phase that will be mitigated.		
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	•	•	Negligible impacts will be posed only during the construction phase that will be mitigated.		
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		~	No, proper implementation of mitigations and maintenance of equipment, and machinery will be done to keep levels within limits.		

Screening Question	Yes	No	Remarks
Will the proposed subproject activities lead to increased		$\checkmark$	Rehabilitation works do not involve any
soil erosion?			activity that will increase soil erosion
Will the proposed subproject interventions result in the	✓		Less quantity of debris and construction
generation of hazardous and/or non-hazardous			waste will be generated which will be
waste?			handed over to the waste contractor for
			safe disposal.
Will the proposed subproject interventions result in		✓	Workers from nearby localities will be
potentially increased health risks for subproject			commuted daily for a specific duration
workers and communities (e.g., communicable			so it would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		✓	The Subproject area does not come
implemented in an area with high natural hazard			under the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICAL E	NVIR	ONM	ENT
Will the proposed subproject interventions potentially		✓	No, as it will be limited to the specified
cause any adverse impacts on habitats, ecosystems,			areas of urban settlements.
and/or ecosystem services?			
Will any rehabilitation work be located in areas that		✓	Rehabilitation work does not include the
would promote the conversion of natural habitats?			conversion of natural habitat as it will
			only upgrade the existing damaged
			utilities.
Will any proposed subproject interventions be located	✓		Yes, a canal "Aamir Jee Branch" is
on or near sensitive environmental areas, including			flowing adjacent to sub-project site
national parks and protected areas?			approximately 103 meters away from
			sub-project site.
Are the proposed subproject interventions activities		✓	Fauna of urban nature is found around
likely to pose risks to any endangered species?			subproject area that comes under the
			least concern status of the IUCN Red
			List.
SOCIAL ENV	IRON	MEN'	Τ
Will the proposed subproject activities involve land		✓	Subproject land is owned by GoS.
acquisition?			
Are there any forced labor or child labor risks		✓	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to
involved in implementing this proposed subproject			hire only those people who have valid
intervention?			CNIC or are at least 18 years old.
Is labor influx (outside labor force) expected during		✓	No, locals of the area would be given
the construction of the proposed subproject?			preference for skilled and non-skilled
			jobs.
Will local labor be used for the proposed subproject	✓		Yes, locals of the area will be given
construction activities?			preference first.
Will there be any temporary or permanent		✓	Rehabilitation works will be done for
displacement as a result of the proposed subproject			existing utilities that exist in a
construction or operation activities?	L	<u>.</u>	demarcated area.

Screening Question	Yes	No	Remarks
Are there expected to be any traffic-related issues as a	✓		Minor impacts only during construction.
result of the proposed subproject intervention activities,			
particularly during the construction phase?			
Are the proposed subproject activities likely to have		√	No, as the rehabilitation work involves
impacts on important religious/cultural heritage			the upgradation or restoration of existing
sites?			facilities.
Have there been any past security-related issues at the		$\checkmark$	No, the subproject area is situated in an
proposed subproject sites?			urban settlement and on government-
			owned land.
Has stakeholder engagement taken place in the	✓		Will the drainage scheme require long-
proposed subproject areas?			term maintenance?
Were vulnerable groups involved in stakeholder	✓		Yes, some female members shared
consultations? (e.g., women, minorities, economically			hygiene and health issues due to
disadvantaged individuals, etc.)			damaged drainage network.

	LOOD EMERGENCY REHABILITATI ENTAL & SOCIAL SCREENING CHE(		
Name of Subproject:	Rehabilitation of Damaged Water Suppl	y & Drainage Schemes	
Sector:	Public Health Engineering Department (PHED)		
Subproject Location:	Shaheed Benazirabad, Sindh		
Schemes Location:	Rehman abad Water Works (bandhi	Coordinates:	
	Town)	E = 430594m N = 2941738m	
Date:	9/8/2023		

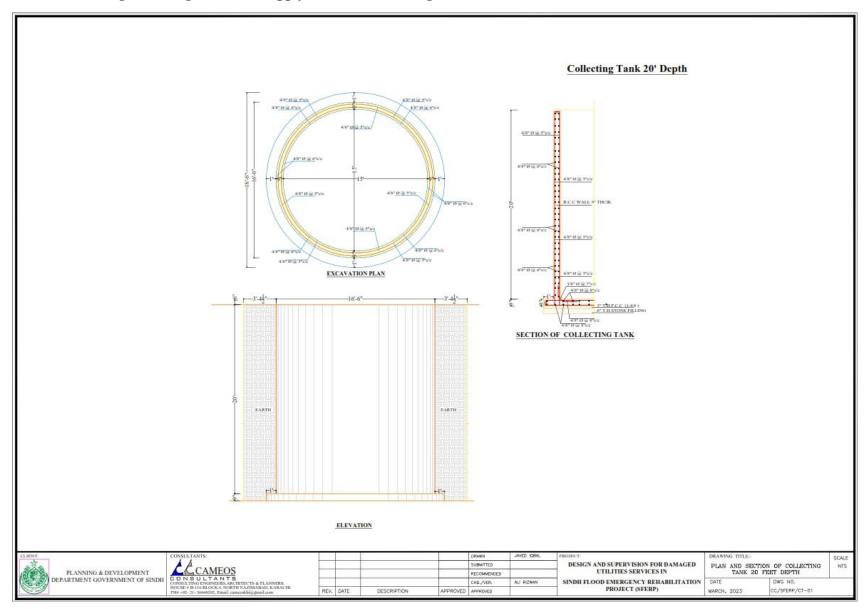
Screening Question	Yes	No	Remarks		
PHYSICAL ENVIRONMENT					
Will the proposed subproject activities pose the risk of <b>clearance of vegetation</b> that may result in an increase in the level of suspended solids washing into nearby water bodies?		~	No such activity will take place that causes this risk.		
Will the proposed subproject activities pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		~	The risk of contaminating drinking water sources would be short-term as the primary objective of water supply and drainage scheme rehabilitation work is to rehabilitate the existing system and its associated facilities.		
Is there any potential <b>pollution source</b> in water supply network?		~	No, as such no pollution sources have been identified but due to flood existing infrastructure has been affected causes pollution in drinking water supply.		
Is there any potential source that can <b>damage drainage network</b> ? Or Is it <b>affected by flood</b> ?	~		Yes, flood and improper maintenance are the potential sources of destruction of drainage network		
Will the proposed subproject interventions <b>deplete</b> <b>groundwater</b> because of the water used during rehabilitation activities?		V	Water from tankers and bowsers will be utilized during construction.		
Will the proposed subproject interventions result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	✓		Negligible impacts will be posed only during the construction phase that will be mitigated.		
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and vibrations due to the operation of construction machinery/vehicles?	✓		Negligible impacts will be posed only during the construction phase that will be mitigated.		
Will these ambient noise levels be beyond the specifications in the <b>SEQS</b> ?		~	No, proper implementation of mitigations and maintenance of equipment, and machinery will be done to keep levels within limits.		

Screening Question	Yes	No	Remarks
Will the proposed subproject activities lead to		✓	Rehabilitation works do not involve any
increased soil erosion?			activity that will increase soil erosion
Will the proposed subproject interventions result in	√		Less quantity of debris and construction
the generation of <b>hazardous and/or non-hazardous</b>			waste will be generated which will be
waste?			handed over to the waste contractor for
			safe disposal.
Will the proposed subproject interventions result in		√	Workers from nearby localities will be
potentially increased health risks for <b>subproject</b>			commuted daily for a specific duration
workers and communities (e.g., communicable			so it would not increase health risks.
diseases)?			
Are the proposed subproject interventions being		√	The Subproject area does not come
implemented in an area with high natural hazard			under the category of high hazard risk.
<b>risk</b> ? (e.g., floods, earthquakes, droughts, etc.)			
ECOLOGICAL	ENVIE	RONM	i ENT
Will the proposed subproject interventions potentially		√	No, as it will be limited to the specified
cause any adverse impacts on <b>habitats</b> , ecosystems,			areas of urban settlements.
and/or ecosystem services?			
Will any rehabilitation work be located in areas that		✓	Rehabilitation work does not include the
would promote the <b>conversion of natural habitats</b> ?			conversion of natural habitat as it will
1			only upgrade the existing damaged
			utilities.
Will any proposed subproject interventions be located		✓	No, there are no protected areas situated
on or near sensitive environmental areas, including			in nearby surroundings.
national parks and protected areas?			
Are the proposed subproject interventions activities		<ul><li>✓</li></ul>	Fauna of urban nature is found around
likely to pose risks to any endangered species?			subproject area that comes under the
			least concern status of the IUCN Red
			List.
SOCIAL EN	VIRON	MEN'	Γ
Will the proposed subproject activities involve land		<ul><li>✓</li></ul>	Subproject land is owned by GoS.
acquisition?			
Are there any forced labor or child labor risks		<ul><li>✓</li></ul>	There would not be any forced or child
associated with contractors or other third parties			labor risk as the contractor is bound to
involved in implementing this proposed subproject			hire only those people who have valid
intervention?			CNIC or are at least 18 years old.
Is labor influx (outside labor force) expected during		<ul><li>✓</li></ul>	No, locals of the area would be given
the construction of the proposed subproject?			preference for skilled and non-skilled
			jobs.
Will local labor be used for the proposed subproject	✓		Yes, locals of the area will be given
construction activities?			preference first.
Will there be any temporary or permanent		✓	Rehabilitation works will be done for
displacement as a result of the proposed subproject			existing utilities that exist in a
construction or operation activities?			demarcated area.

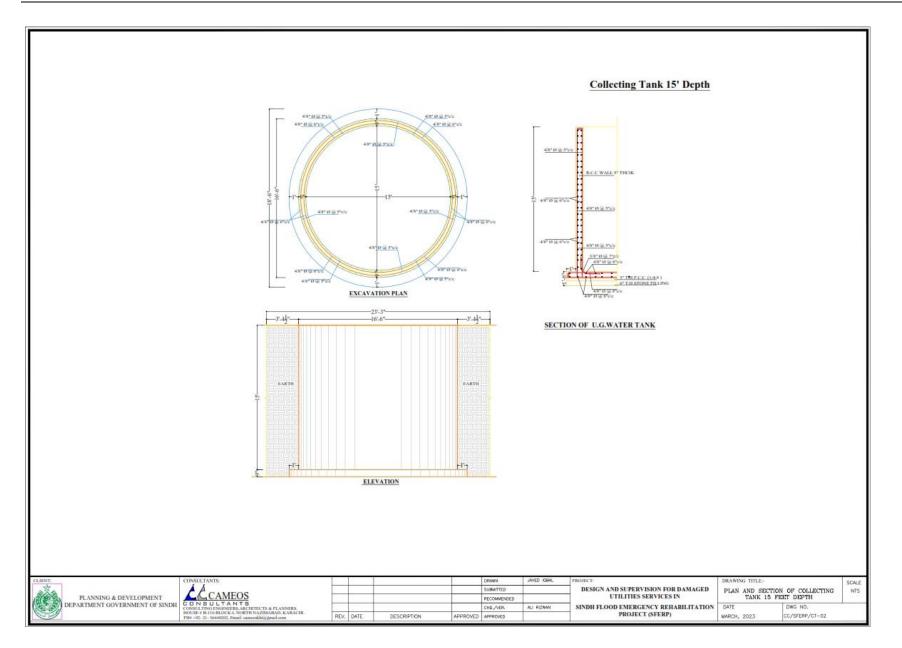
Screening Question	Yes	No	Remarks
Are there expected to be any <b>traffic-related issues</b> as a result of the proposed subproject intervention activities, particularly during the construction phase?	✓		Minor impacts only during construction.
Are the proposed subproject activities likely to have impacts on important religious/cultural heritage sites?		V	No, as the rehabilitation work involves the upgradation or restoration of existing facilities.
Have there been any past <b>security-related issues</b> at the proposed subproject sites?		V	No, the subproject area is situated in an urban settlement and on government- owned land.
Has <b>stakeholder engagement</b> taken place in the proposed subproject areas?	~		Stakeholders showed a positive attitude and said that it would uplift the socio- economic condition of the community as the drainage system was very old and ineffective.
Were <b>vulnerable groups</b> involved in stakeholder consultations? (e.g., women, minorities, economically disadvantaged individuals, etc.)	✓		Yes, some female members shared hygiene and health issues due to damaged drainage networks especially during and after monsoon season.

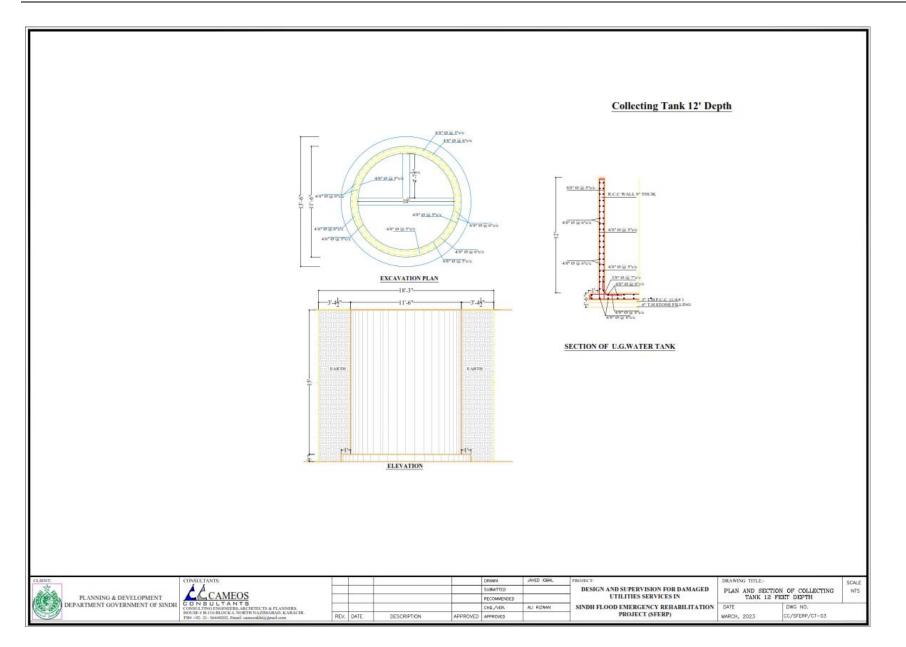
## ANNEXURE 2:

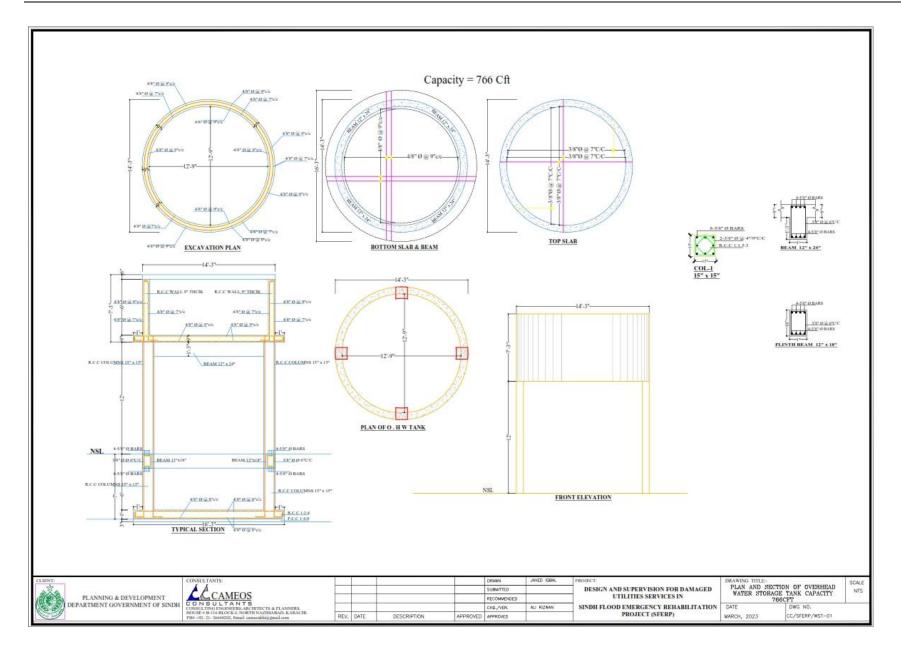
Design Drawings of Water Supply Schemes & Drainage

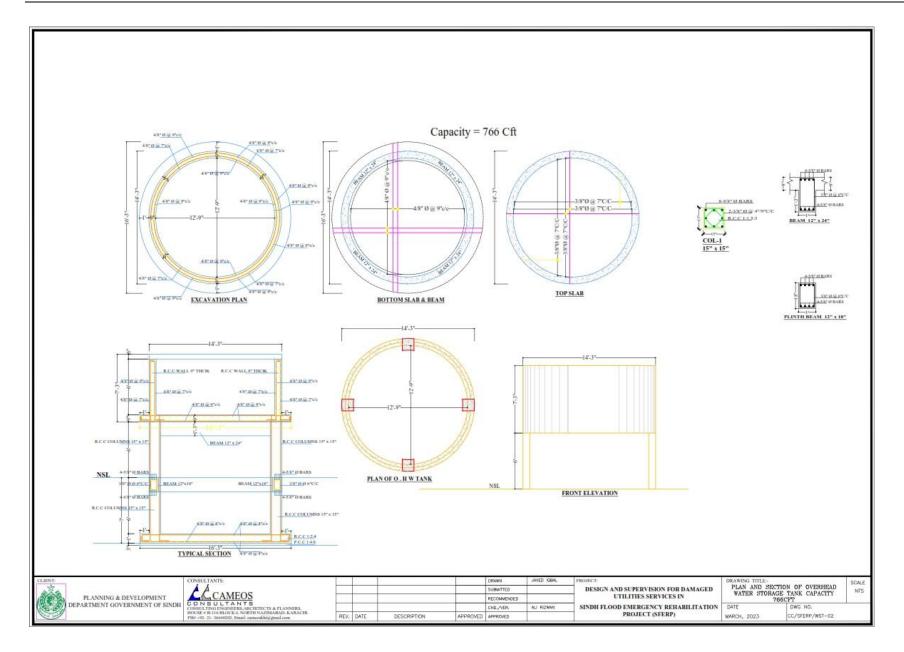


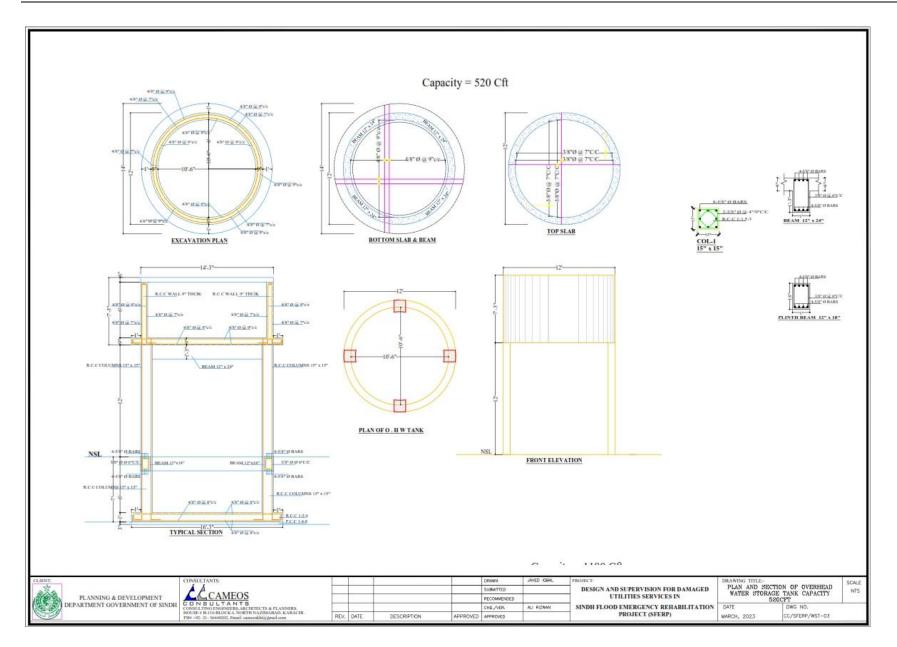


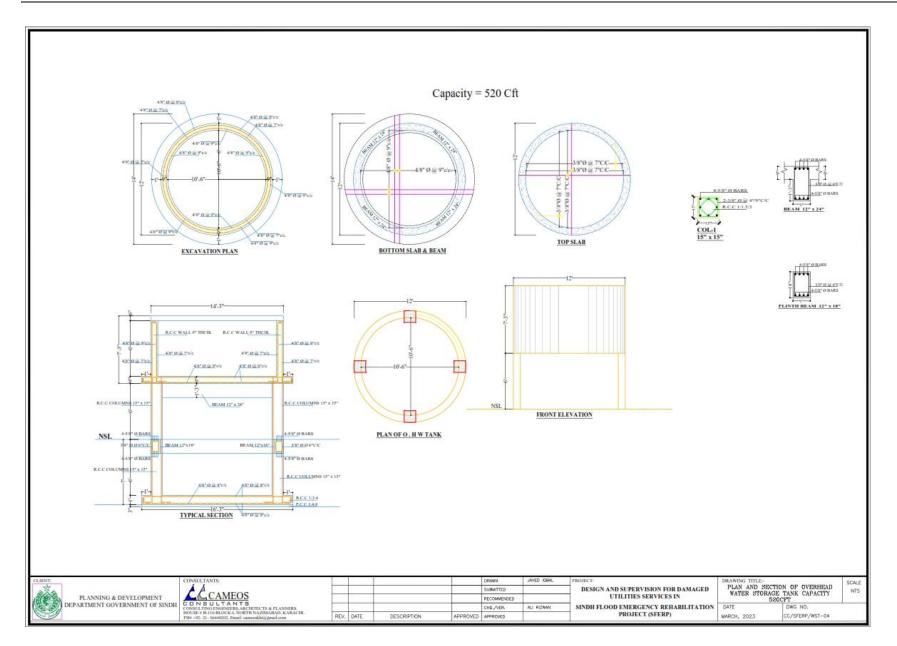


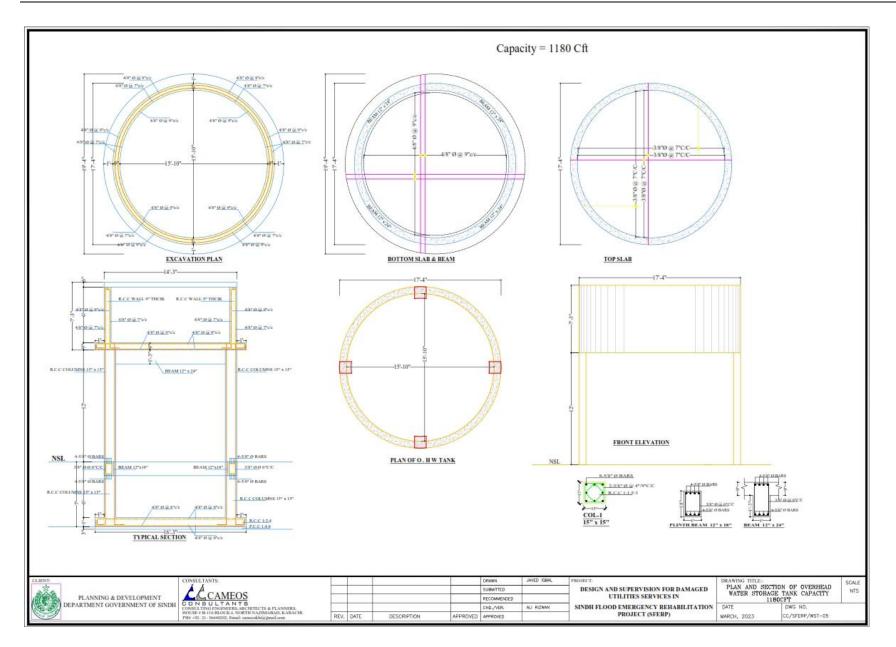


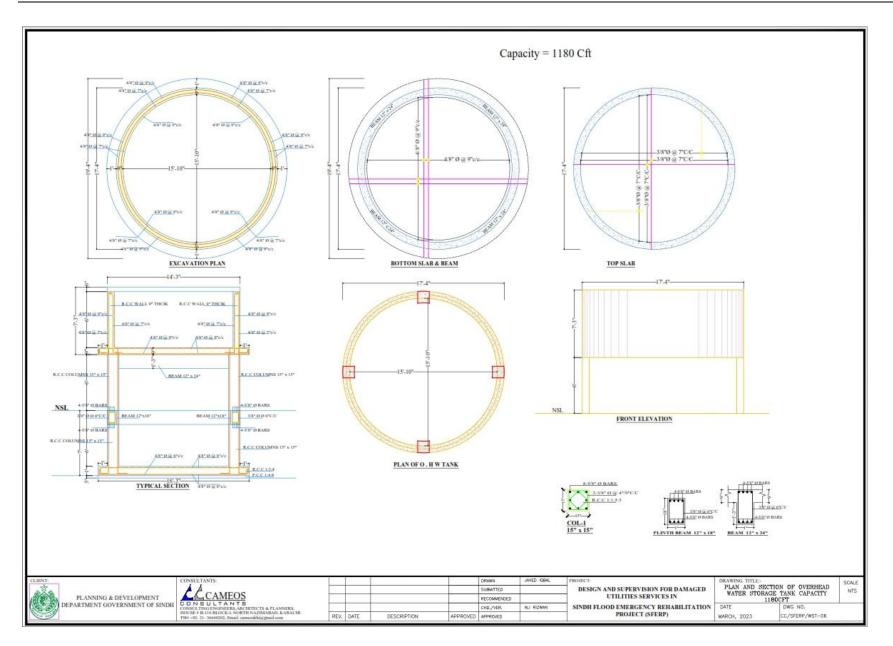


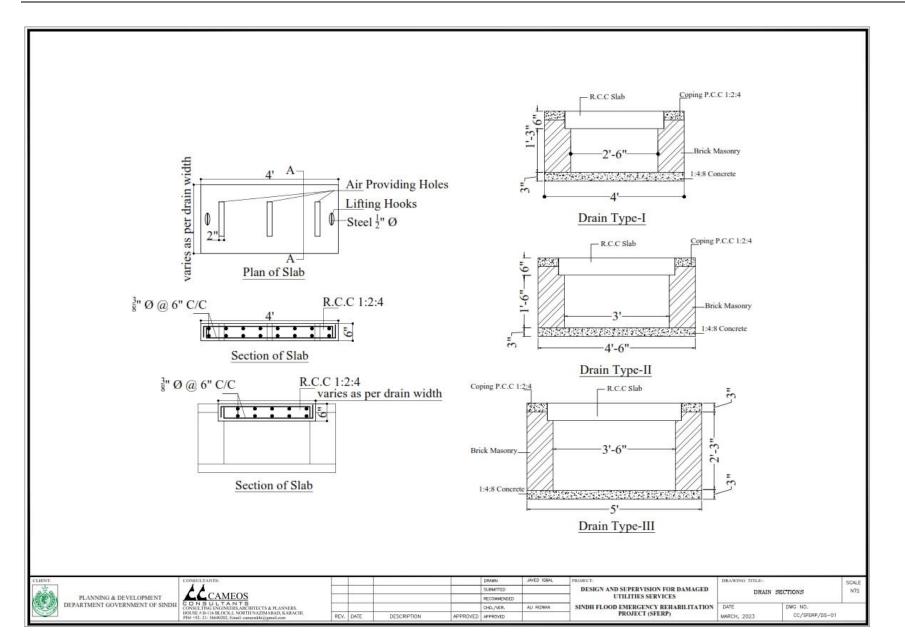


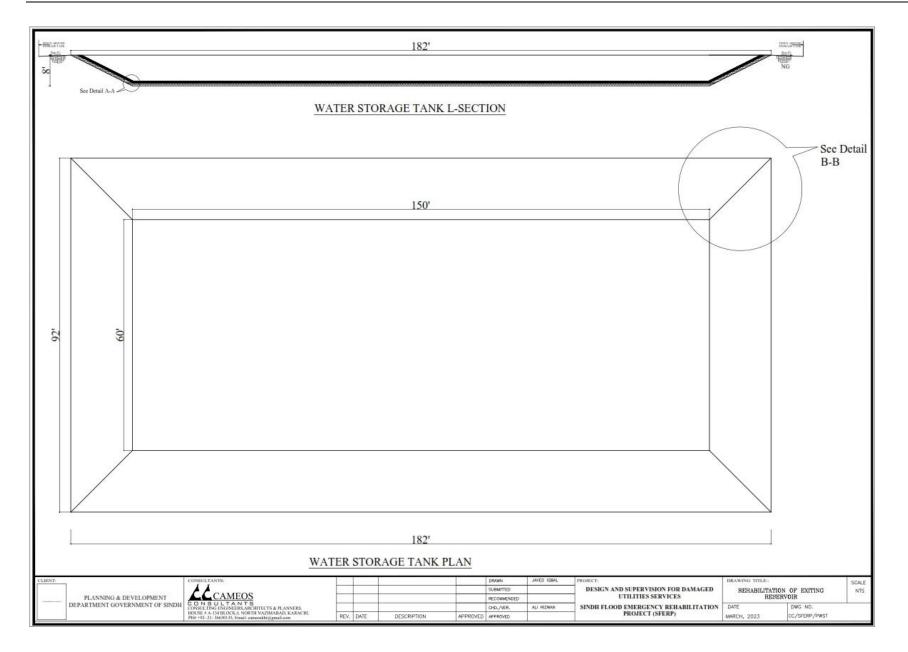


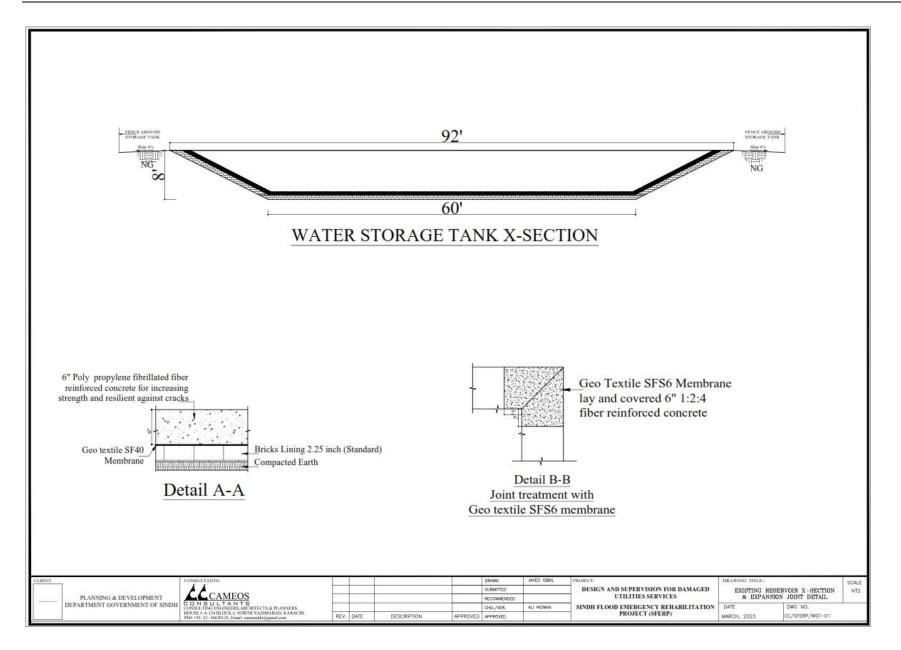


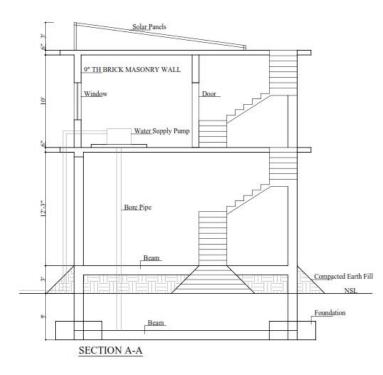


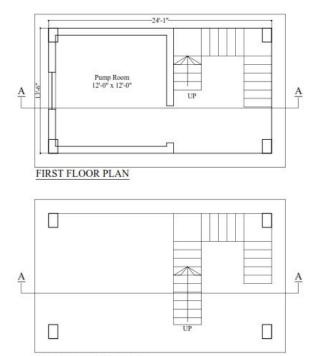






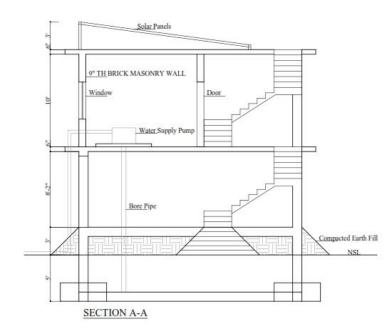


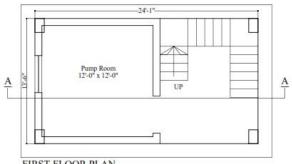




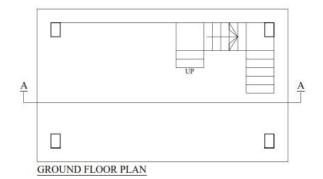
GROUNI	D FLOO	R PLAN

CLIPNT:	CONSULTANTS:					DRAWN	JAVED IQBAL	PROJECT:	DRAWING TITLE>		SCAL
ARE A	A A					SUBMITTED		DESIGN AND SUPERVISION FOR DAMAGED	PLAN AND SI	ECTION OF PUMP	N
PLANNING & DEVELOPMENT	CAMEOS					RECOMMENDED		UTILITIES SERVICES	Н	IOUSE	
DEPARTMENT GOVERNMENT OF SINDH	CONSULTING ENGINEERS, ARCHITECTS & PLANNERS:					CHD./MDR.	ALI RIZWAN	SINDH FLOOD EMERGENCY REHABILITATION	DATE	DWG NO.	
	HOUSE # B-116 BLOCK-L NORTH NAZIMABAD, KARACHI, PH# +92- 21- 36640202, Email: carecoskhild graail.com	REV.	DATE	DESCRIPTION	APPROVED	APPROVED		PROJECT (SFERP)	MARCH, 2023	CC/SFERP/PH-01	

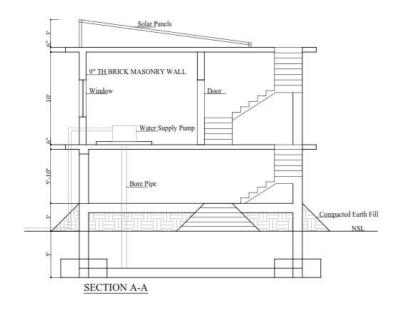


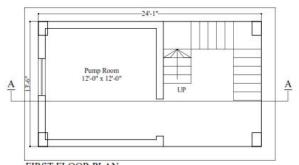


FIRST FLOOR PLAN

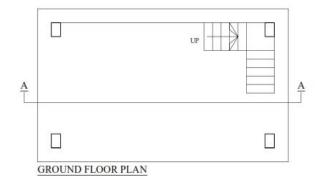


DRAWN MAWING TITLE-JAVED 10BA SCALE NTS CONSULTANTS: CONSULTANTS: CONSULTANTS CONSULTANTS CONSULTANTS ROUSE 45-100 BLOCK-L NORTH NAZIMANAD, KAUACHI IN 492-13-846002, Tania Comowhigi gana Con SUBMITTED DESIGN AND SUPERVISION FOR DAMAGED UTILITIES SERVICES PLAN AND SECTION OF PUMP HOUSE PLANNING & DEVELOPMENT DEPARTMENT GOVERNMENT OF SINDH RECOMMENDED SINDH FLOOD EMERGENCY REHABILITATION DATE PROJECT (SFERP) OHD./MDR. ALI RIZWAN DWG NO. REV. DATE DESCRIPTION APPROVED APPROVED MARCH, 2023 CC/SFERP/PH-02

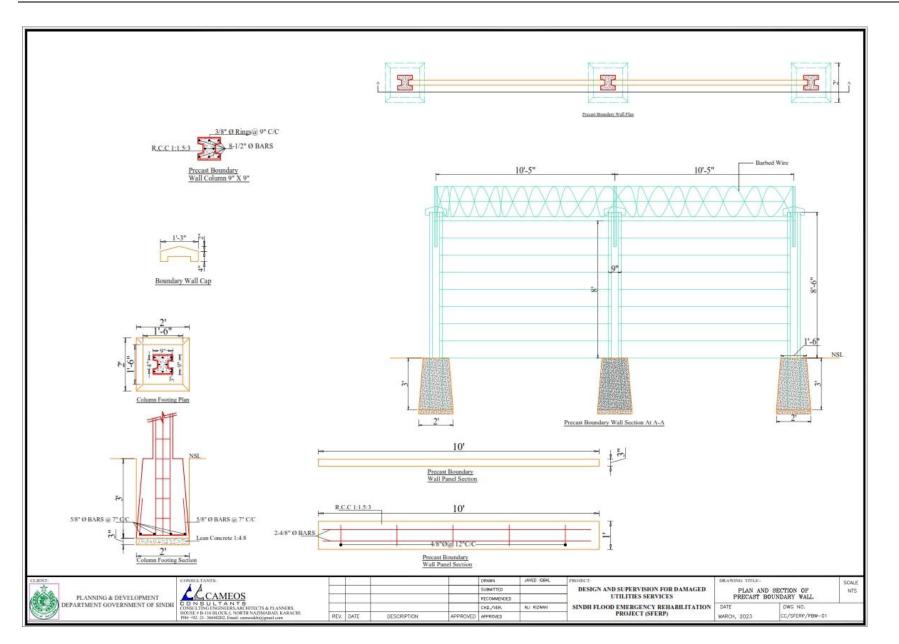


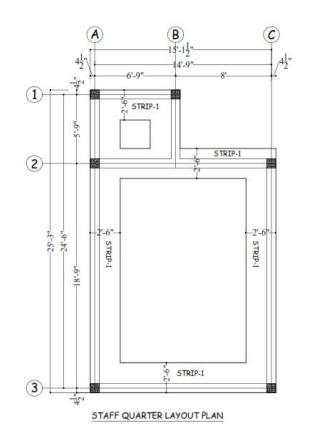


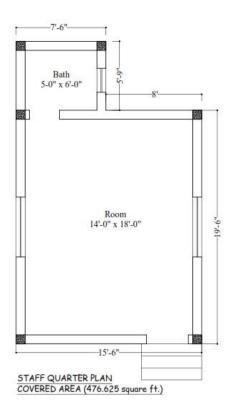
FIRST FLOOR PLAN



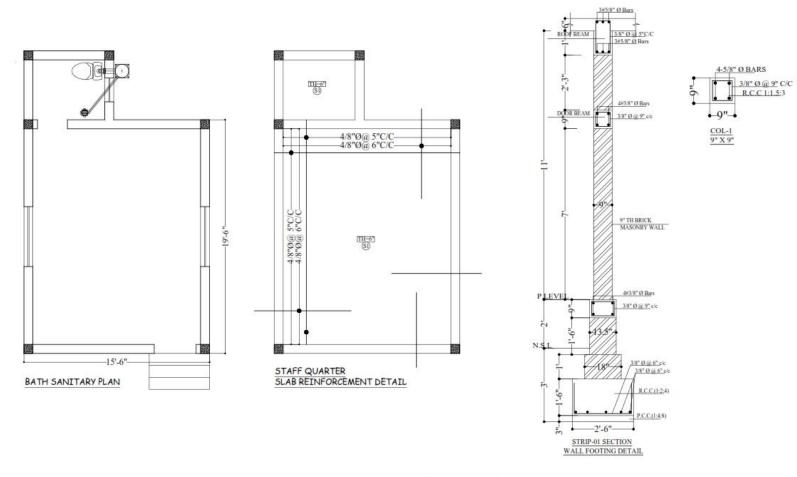
CLIENT:	CONSULTANTS:					DRAWN	JAVED IQBAL	PROJECT:	DRAWING TITLE>		SCA
aza	A CHANNER		1			SUBMITTED		DESIGN AND SUPERVISION FOR DAMAGED		CTION OF PUMP	N
PLANNING & DEVELOPMENT	CAMEOS					RECOMMENDED		UTILITIES SERVICES	Н	OUSE	
DEPARTMENT GOVERNMENT OF SINDH	CONSULTING ENGINEERS, ARCHITECTS & PLANNERS:					CHD./MDR.	ALI RIZWAN	SINDH FLOOD EMERGENCY REHABILITATION	DATE	DWG NO.	
	HOUSE # B-116 BLOCK-L NORTH NAZIMABAD, KARACHI. PH# +92- 21- 36640202, Email: carecoskhiggmail.com	REV.	DATE	DESCRIPTION	APPROVED	APPROVED		PROJECT (SFERP)	MARCH, 2023	CC/SFERP/PH-03	



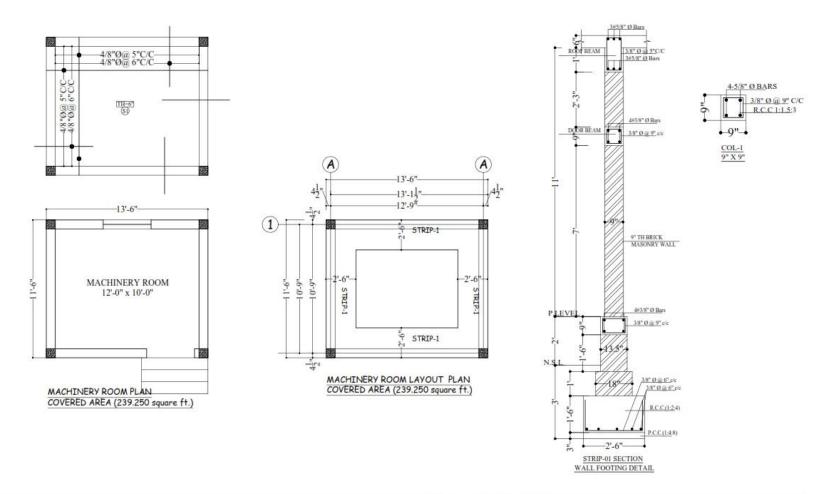




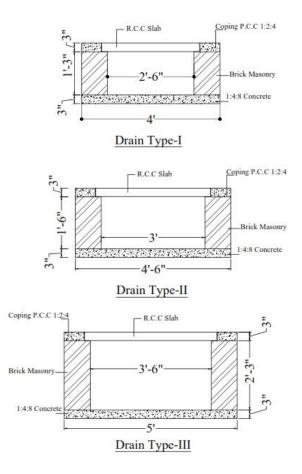
CLIENT:	CONSULTANTS:					DRAWN	JAVED IQBAL	PROJECT:	DRAWING TITLE>		SCAL
AZA	A A automation					SUBMITTED		DESIGN AND SUPERVISION FOR DAMAGED		LAN OF STAFF	NT
PLANNING & DEVELOPMENT	CAMEOS					RECOMMENDED		UTILITIES SERVICES	QU	ARTER	
DEPARTMENT GOVERNMENT OF SINDH	CONSULTING ENGINEERS, ARCHITECTS & PLANNERS.					CHD./MDR.	ALI RIZWAN	SINDH FLOOD EMERGENCY REHABILITATION	DATE	DWG NO.	
	HOUSE # B-116 BLOCK-L NOETH NAZIMABAD, KARACHI. PH9 +92- 21- 36640202, Email: cancoskhig gnail.com	REV.	DATE	DESCRIPTION	APPROVED	APPROVED		PROJECT (SFERP)	MARCH, 2023	CC/SFERP/SQ-01	



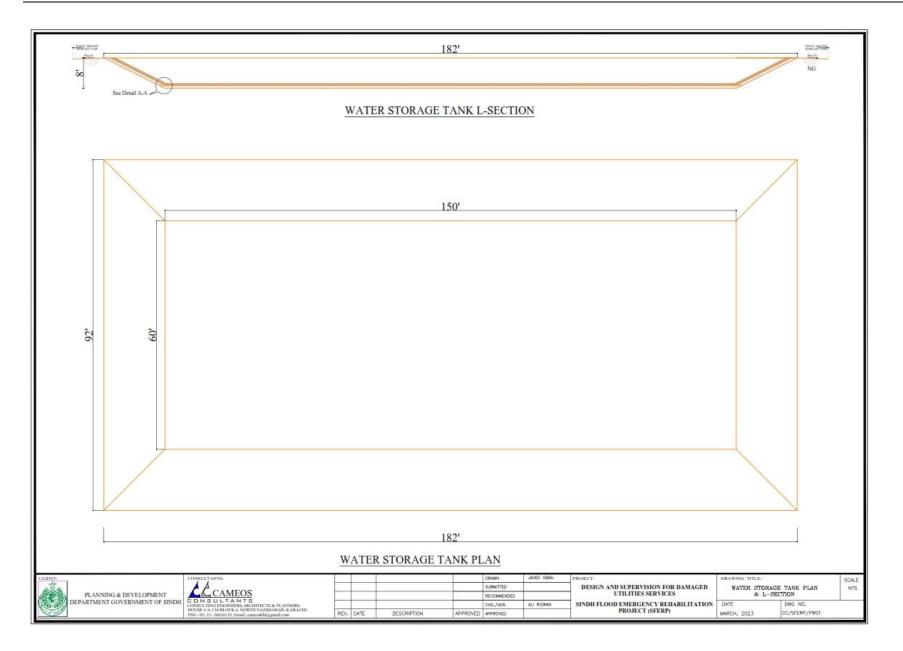
CLIENT:		CONSULTANTS:					DRAWN	JAVED IQBAL	PROJECT:	DRAWING TITLE>		SCAL
424		A A an annual					SUBMITTED				AND REINFORCEMENT	N
12230	PLANNING & DEVELOPMENT	CAMEOS					RECOMMENDED		UTILITIES SERVICES	DETAIL OF S	STAFF QUARTER	
30	DEPARTMENT GOVERNMENT OF SINDH	CONSULTING ENGINEERS ARCHITECTS & PLANNERS.					CHD./MDR.	ALI RIZWAN	SINDH FLOOD EMERGENCY REHABILITATION	DATE	DWG NO.	
	20-	HOUSE # B-116 BLOCK-L NORTH NAZIMABAD, KARACHI. PH#+92-21-36640202, Email: carecoshing granil.com	REV.	DATE	DESCRIPTION	APPROVED	APPROVED		PROJECT (SFERP)	MARCH, 2023	CC/SFERP/SQ-02	

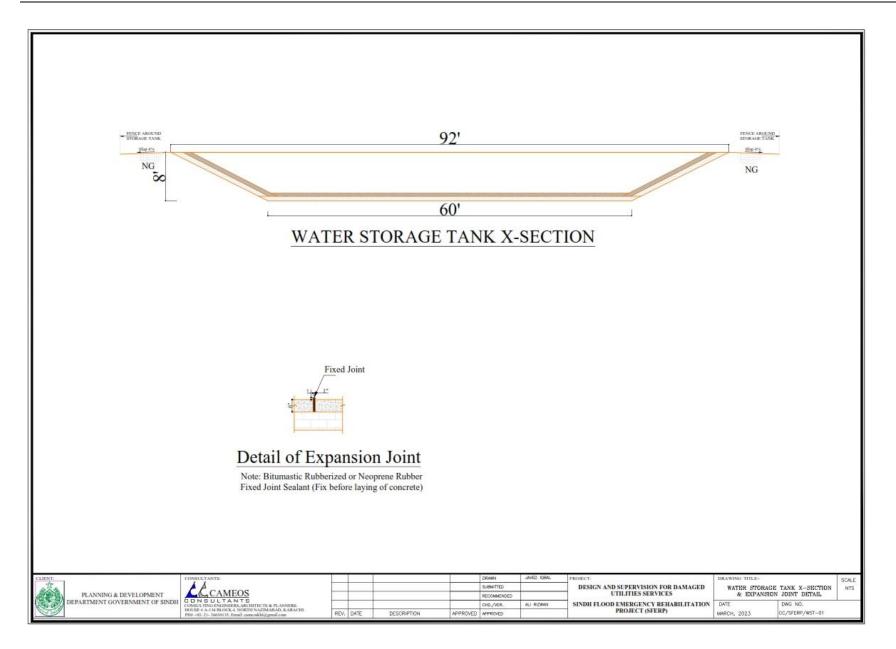


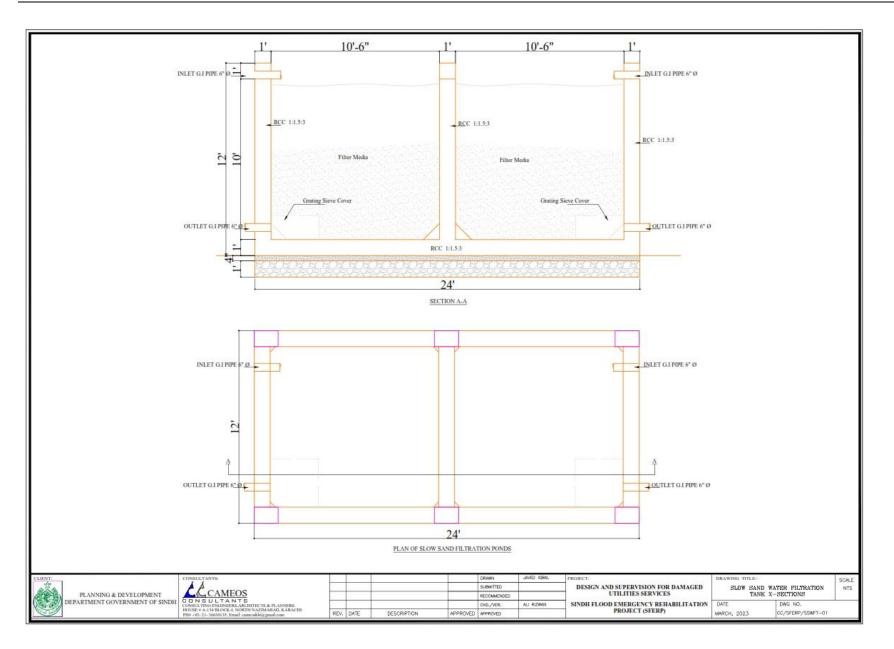
CLIENT:	CONSULTANTS:					DRAWN	JAVED IQBAL	PROJECT:	DRAWING TITLE>		SC
AZA.	A A ALLERA					SUBMITTED		DESIGN AND SUPERVISION FOR DAMAGED		FORCEMENT DETAIL	N
PLANNING & DEVELOPMENT	CAMEOS					RECOMMENDED		UTILITIES SERVICES	OF MACH	IINERY ROOM	
DEPARTMENT GOVERNMENT OF SINDH	CONSULTING ENGINEERS ARCHITECTS & PLANNERS.					CHD./MDR.	ALI RIZWAN	SINDH FLOOD EMERGENCY REHABILITATION	DATE	DWG NO.	
	HOUSE # B-116 BLOCK-L NORTH NAZIMABAD, KARACHI, PHN -92- 21- 36640202, Email: cancoshing gnail.com	REV.	DATE	DESCRIPTION	APPROVED	APPROVED		PROJECT (SFERP)	MARCH, 2023	CC/SFERP/MR-01	

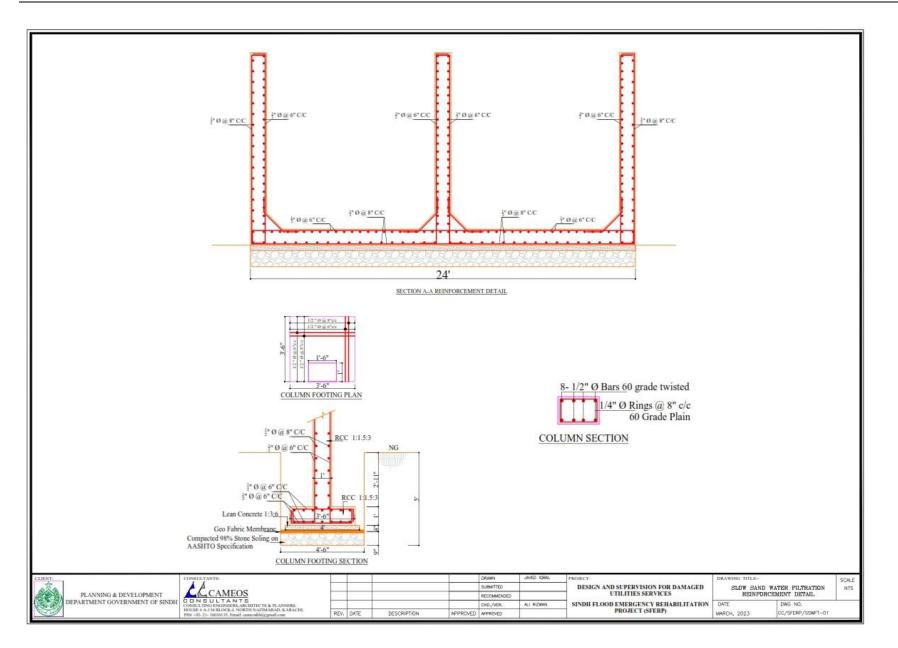


CLIENT.		CONSULTANTS:					DRAWN	JAVED IQBAL	PROJECT:	DRAWING TITLE>		SCALE
424		A A ALLERA					SUBMITTED		DESIGN AND SUPERVISION FOR DAMAGED	DRAIN 3	SECTIONS	NTS
18 2 30	PLANNING & DEVELOPMENT	CAMEOS					RECOMMENDED		UTILITIES SERVICES			
30	DEPARTMENT GOVERNMENT OF SINDH	CONSULTING ENGINEERS, ARCHITECTS & PLANNERS					CHD./MDR.	ALI RIZWAN	SINDH FLOOD EMERGENCY REHABILITATION	DATE	DWG NO.	
100		HOUSE # B-116 BLOCK-L NORTH NAZIMABAD, KARACHI. PHv +92- 21- 36640202, Email: carecosking grant.com	REV.	DATE	DESCRIPTION	APPROVED	APPROVED		PROJECT (SFERP)	MARCH, 2023	CC/SFERP/DS-01	





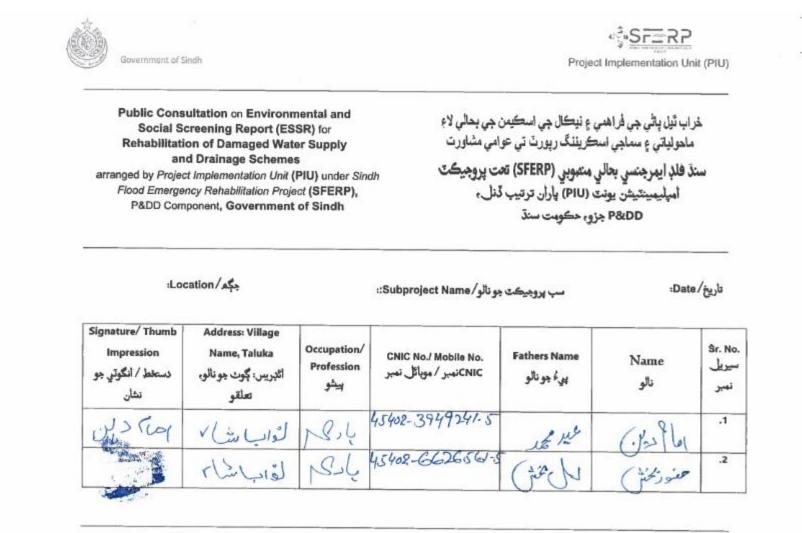




## ANNEXURE 3:

## **Attendence Sheets During Consultation**

## **Annexure 4: Attendence Sheets During Consultation**



Page 1 of 6

.

٠.

.

Sr. No. سیریل نمبر	ect Implementation Unit Name نالو	Fathers Name پر مُجو نالو	CNIC No./ Mobile No. CNICنمبر / موبائل نمبر	/Occupation Profession پيشو	Address: Village Name, Taluka اگڈرییں: گوٹ جو نالو، تعلقو	Signature/ Thumb Impression دستخط / انگوٽي جو نشان
.3	لەل مېنې	لأرجى	45402-0149853-5	Jest	لذب مشاء	لعليطنس
4	(Jul)	it us	45402-5252244.5	<i>مز</i> يور	لقدم شام	crof
.5	delet	- (~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	45402-5954568-7		ling 27	Auf
.6	CIL ST	اللهدية	45402-9457461-5	000	لأنب بذام	monena.
.7	الطاف عي	مان الم	45404-0354842-5		لفد مناك	الطاف
.8	(Jones Pille	Case 5	45402-0833066-2	مزيور	Fen cil	Gulan
.9 -	بجيب المرجن ينآه	العدالعيفي فألهار	45402-3562627-5	ليسان	المغبر فك وتشجعهم	Rehin
.10	فبدر لغني	(set	45402-3151511-1		لفاب کے	ACami
.11	مفردل عسر.)	(June 21/2	45404-6413668-5	منربعر	Min Ciel	Jun

. .

.

Signature/ Thumb	Address: Village			Proje	ect Implementation Unit	(PIU)
Impression دستخط / انگوٽي جو نشان	Address: Village Name, Taluka اگڈریس: ڳوٺ جو نالو، تعلقو	/Occupation Profession ایطو	CNIC No./ Mobile No. CNICنمیر / موبائل نمبر	Fathers Name پيءُ جو نالو	Name نالو	Sr. No میریل نمبر
L St	والجوناد	(test)	45402-2704633.5	Ci u t	ملتر اب على	.12
GALI	بنو ثاون دول		45404-0438167-3	Fre	Note life	.13
Ladig Here	نيو. Jol 200	مزدوب	45407-0582140-1	بقاغان)	Fer For File	.14
,t.S.	و نيو تاون دور	1. 4640.50	45402-4201794-)	SPEcos	JE Je	.15
شاديم			49402-0669038=6	JE SA	م. سادی	.16
Marrider	->		45402-1185738-8	31212	Fin	.17
Guin		FIS	45402-40147490-1	mumilez khon	غام الشير	.18
Main	C	ליביות	45401-4325407-9	ايرفيا ذ	منرحين	.19
al Amin	110	انصياد	45402-3742688-7	- P.T	( jul jus	.20

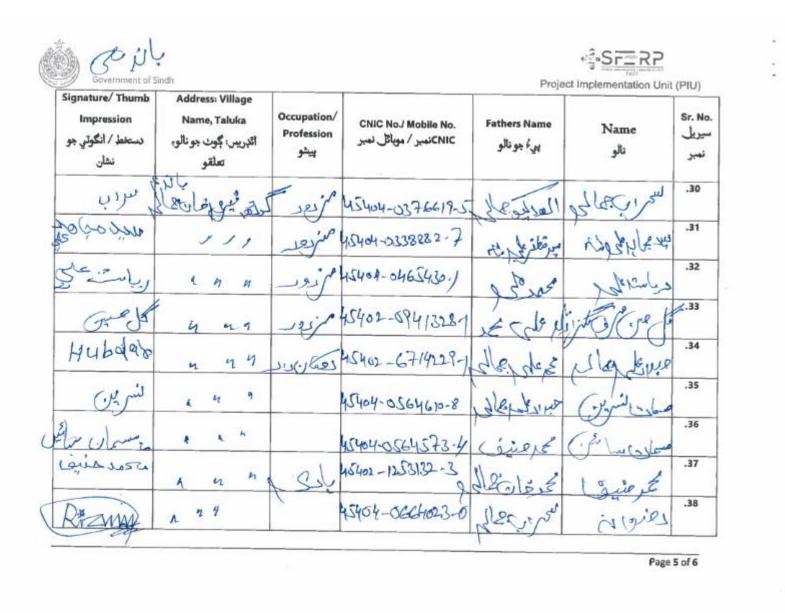
Page 3 of 6

4

.

Signature/ Thumb Impression دستغط / انگوٽي جو نشان	Address: Village Name, Taluka اگڊريس: ڳوٺ جو نالو، تعلقو	/Occupation Profession پيشو	CNIC No./ Mobile No. نمبر / موبائل نمبر	Fathers Name پہر <sup>ک</sup> ونالو	ct Implementation Unit Name نالو	sr. No سیریل نمبر
Salarly Nuiz	ي بيونادن دور	ابر بينويده و	45404-0368237-5	(. r	E Pela	.21
الأر هبري	1100	بهن يطوين جا	45404-0404198-3	(. malite	Criet 151	.22
عرقالی علی	A 4 7	المردوس	45404-0465441-1	2 de 15	Michine	.23
موہرار	4 n 9	المرزوب	45402-0785668-	5 esteres	صويرارعلى جحال	.24
Amore tot	h n 4		15404-0606013-4	Je 15m	فرجسا	.25
ماكد اسماق	1 2 1	Sul	45402-6069588=	محرصتيف ف	(Jens	.26
Plila.	h n 4		45404-0786782-2	Girle	e an 1	.27
J gaz Pares	red - w wh	السان	45404-045068-7	Not all	الله عيد	.28
				1		.29

Page 4 of 6



1.1.1.1

Signature/ Thumb	Address: Village	1	T	Fille	ct Implementation Unit	(PIU)
Impression ڊستغط / انگوٽي جو نشان	Name, Tałuka اگډريس: ڳوٺ يو نالو، تعلقو	/Occupation Profession پیشو	CNIC No./ Mobile No. CNICنمبر / موباقل نمبر	Fathers Name ٻيءُ جو نالو	Name نالو	Sr. No. سیریل نمبر
Miles al	لدري فيرى إدارة	Erocol	45404-0717271-4	2 20000	to	.39
Aduit	*** * 1	, teil	45402-7354114-3	الحرقان	3 also	.40
jub 1 sic	nn n	مزدور	45402-7141957-9	12 Colores	Jlge site 1946	.41
5. Embro	h n 4		45404-0564642-6	rou de ités	inder les	.42
Mussing	u n n		45464-056464/-2	July 2	مسر لام) سوت عو	.43
slaw	20 3 4		45464-0451165-5	- 12 11	م لع اج	.44

Page 6 of 6