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









Final Report October, 2023



SINDH FLOOD EMERGENCY REHABILITATION PROJECT (SFERP)

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



# ENVIRONMENTAL AND SOCIAL SCREENING REPORT (ESSR)

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# 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**

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# **Revision History:**

**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  $12^{th}$  April, 2023, the document is reviewed by the E&S team of PIU and submitted to WB team for record and post review purpose.

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# 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 Sanghar, there are a total of 34 schemes, comprising 06 drainage schemes and 28 water supply schemes.

### **Project description**

The sub-component "rehabilitation of water supply and drainage schemes" will rehabilitate the selected and prioritized water supply infrastructure that has been destroyed or damaged by the floods. The primary objective of this project is to evaluate the condition of water supply and drainage schemes, which includes assessing filtration 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 Sanghar 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 Sanghar.

# **Environmental and Social Settings**

The subproject land is owned by the Government. The proposed activities are the rehabilitation and restoration of damage water supply schemes and drainage facilities. 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 subprojects. Community and project beneficiaries are very much enthusiastic about the early rehabilitation and completion of the sub-projects. Settlements, including builtup 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 subproject 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 Commencement of Work: The Rehabilitation of water supplies and drainage activities will be started in November, 2023 after completion of pre-requisite requirements.

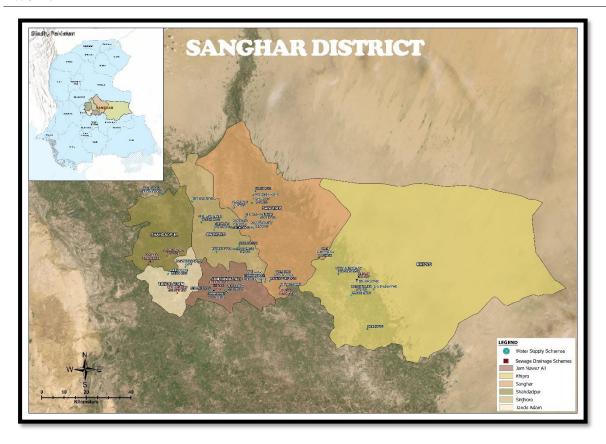


Figure 1: Study Area Map of District Sanghar Water Supply and Drainage Schemes

# 1.4 Scheme Wise E&S Setting:

No.	Schemes	Coordinates	Site Description
A	Taluka Sanghar Wa	ter Supply Schemes	
1	Wali Dino Chand Water Supply Scheme	24°38'09.2"N 69°02'28.0"E	The proposed Scheme is situated in District Sanghar, with convenient access via National Highway (N5) and further via Tando Adam-Mirpurkhas road on the right side. The total number of household and population is 229 and 1600 respectively. The locality is

No.	Schemes	Coordinates	Site Description
			surrounded by residential settlements and agricultural activities. Notable landmarks include BHU Bassi, located at a distance of 101 meters. A canal is flowing on eastern side at a distance of 1.9km away.
2	Padri Goth Water Supply Scheme	26° 4'7.35"N 68°59'27.39"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and further via Chotiari road on the right side while moving from Sanghar to Padri Goth. The household and population are 263 and 1840 respectively. The area is surrounded by the human settlement and agricultural fields. There is only one religious facility i.e., St. Isidore Church located at a distance of 204 m away from proposed subproject site.
3	Gujri Water Supply Scheme	26°11'7.69"N 68°58'12.67"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and further via Sanghar road on the right side while moving from Sanghar to Gujri Goth. The household and population are 1459 and 10210 respectively. The area is surrounded by the human settlement with some commercial activities and agricultural fields. There are some educational, healthcare and religious facilities around subproject site i.e., BHU Gujri located at a distance of 87 m away, Gujri School 412 m away and Jamia Masjid Gujri 451 m away from proposed subproject site.
4	Chak No-11 Water Supply Scheme	26° 4'50.92"N 68°55'54.54"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and further via Sanghar road on the right side while moving from Sanghar to Deh 11. The household and population are 623 and 4360 respectively. The area is surrounded by the human settlement with some commercial activities and agricultural fields. There are no social sensitive receptors except Alshahbaz Model High School at a distance of 747 m from proposed subproject site. A waterbody, Herri Distributary is flowing on eastern side at a distance of 623m.

No.	Schemes	Coordinates	Site Description
5	Chak No-2 Water Supply Scheme	26°10'5.99"N 68°57'50.10"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and further via Sanghar road on the right side while moving from Sanghar to Chak No. 2. The household and population are 571 and 4000 respectively. The area is surrounded by the agricultural fields and human settlements 470m away. There are no social sensitive receptors around proposed subproject site. A waterbody, Nara Canal is flowing on eastern side at a distance of 2.5 km and a wetland complex Chotiari Reserve is 3 km away.
6	Chak N- 3&4 Water Supply Scheme	26° 8'14.91"N 68°57'29.39"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and further via Sanghar road on the left side while moving from Sanghar to Chak No. 3 & 4. The household and population are 454 and 3180 respectively. The area is surrounded by the agricultural fields and human settlements. There are no social sensitive receptors around proposed subproject site, the nearest settlement is 130 m away from proposed subproject site. A canal is flowing on western side at a distance of 1.3 km whereas, Nara Canal and wetland complex Chotiari Reserve is 5.1 km away.
7	Chak No-5&8 Water Supply Scheme	26° 7'5.29"N 68°53'2.63"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and further via Sanghar road on the right side while moving from Sanghar to Chak No. 5 & 8. The household and population are 739 and 5170 respectively. The area is surrounded by the agricultural fields and human settlements with commercial activities. There are a few educational and religious facilities around proposed subproject site i.e., Govt. Girls High school and Govt. High School Chak No. 5 at a distance of 617 m and 900 m respectively whereas, Jamia Masjid Chak No. 5 is 561 m. A canal is flowing on southern side at a distance of 2.2 km.
8	Sanghar Urban Water Supply Scheme	26° 2'13.01"N 68°57'45.78"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Sanghar Bypass road further via Dalel Shar Road on the left side

No.	Schemes	Coordinates	Site Description
			while moving from Sanghar city to Khan Colony, Sanghar. The household and population are 5024 and 35170 respectively. The area is surrounded by human settlements with commercial activities and agricultural areas. There are a few educational and healthcare facilities around proposed subproject site i.e., SEF School PPRS-4559 Chandu Oad at a distance of 453 m and Radhe Sham Lab is 1.1 km.  The proposed scheme is situated in District
9	Sanghar city old scheme	26° 2'22.36"N 68°57'21.20"E	Sanghar, it can be easily accessible by National Highway (N5) and Chotairion road and further via Dalel Shar Road on the left side while moving from Sanghar city to Khan Colony, Sanghar. The household and population are 714 and 5000 respectively. The area is surrounded by human settlements with commercial activities. There are a few educational and healthcare facilities around proposed subproject site i.e., City Model School and Iqra Girls Primary School at a distance of 375 m and 461 m respectively. Whereas, Civil Hospital Sanghar is 1.23 km.
10	Kandairi Urban Water Supply Scheme	25°48'2.95"N 69° 4'17.95"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Sanghar-Mirpurkhas Road on the rught side while moving from Sanghar city to Kandiari City, Sanghar. The household and population are 2397 and 16780 respectively. The area is surrounded by human settlements with commercial activities and agricultural areas. There are a few educational and healthcare facilities around proposed subproject site i.e., Govt. Boys Higher Secondary School at a distance of 194 m and a Rural Health Center Kandiari at a distance of 295 m. A canal, Ban Waah is flowing on eastern side at a distance of 152 m.
В	Taluka Jam Nawaz	Ali Water Supply Sche	mes
11	Birani Urban Water Supply Scheme	25°47'2.91"N 68°47'22.05"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Tando Adam-Beerani Link Road on the right side while moving from Sanghar city to Kandiari City, Sanghar. The

	Schemes	Coordinates	Site Description
12	Jam Nawaz Ali Urban Water Supply Scheme -1	25°46'50.01"N 68°51'29.53"E	household and population are 1577 and 11040 respectively. The area is surrounded by agricultural fields and human settlements with commercial activities at some distance. There are a few educational and healthcare facilities around proposed subproject site i.e., GBHSS Berani and GBPS Urdu Berani at a distance of 1.5 Km and 1.6 km whereas, Mother and Child Health Care Hospital Berani is at a distance of 2.2 km.  The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Tando Adam-Mirpurkhas Link Road on the right side while moving from Tando adam city to Beerani City, Sanghar. The household and population are 717 and 5020 respectively. The area is surrounded by agricultural fields and human settlements with commercial activities. There are a few educational and healthcare facilities around proposed subproject site i.e., Govt Boys Primary (Sindhi Main) School and Govt Girls Primary School Jam Nawaz Ali at a distance of 99 m and 558 m whereas, Rural Health Center Jam Nawaz Ali is at a distance of 251m. A
13 C	Jam Nawaz Ali Urban Water Supply Scheme -2	25°46'58.98"N 68°50'55.01"E	canal is flowing on western side at a distance of 1.3km.  The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Tando Adam-Mirpurkhas Link Road on the right side while moving from Tando adam city to Beerani City, Sanghar. The household and population are 324 and 2266 respectively. The area is surrounded by agricultural fields and human settlements with commercial activities. There are a few educational and healthcare facilities around proposed subproject site i.e., GCT Hilal School Jam Nawaz Ali - 156 and Govt Girls Primary School Jam Nawaz Ali at a distance of 755 m and 796 m whereas, Rural Health Center Jam Nawaz Ali is at a distance of 896 m. A canal is flowing on western side at a distance of 430m.

No.	Schemes	Coordinates	Site Description
14	Daim Khan Dhamrah Water Supply Scheme	26°10'27.20"N 68°35'43.36"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Nawabshah-Sanghar Road on the right side while moving from Shahpur Chakar city to Gupchani City, Sanghar. The household and population are 171 and 1200 respectively. The area is surrounded by agricultural fields and human settlements with commercial activities. There are a few educational and healthcare facilities around proposed subproject site i.e., Govt Primary School at a distance of 699 m whereas, a hospital, Sana Madical Center is at a distance of 2.2 km. A canal is flowing on Southwestern side at a distance of 1.4km.
15	Amanullah Dahri Water Supply Scheme	25°51'6.72"N 68°37'14.24"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Shahdadpur-tandoadam Road on the left side while moving from Tando Adam to Shahdadpur. The household and population are 197 and 1380 respectively. The area is surrounded by agricultural fields and human settlements with commercial activities. There are no social sensitive receptors around proposed project area. A natural lake is flowing on eastern side at a distance of 729mwhereas, a canal is flowing on western side at a distance of 2.24 km.
D	Taluka Tando Adan	n Water Supply Schem	e
16	Bagowadadani Water Supply Scheme	25°52'49.29"N 68°41'23.12"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Shahdadpur-Berani Road and Tando Adam- Jhol Road on the right side while moving from Tando Adam to Shahdadpur. The household and population are 564 and 3950 respectively. The area is surrounded by agricultural fields and human settlements with commercial activities. There are no social sensitive receptors in the immediate surrounding of proposed project area. Two canals are flowing on southern side at a distance of 113 m and 567 m respectively.
E	Taluka Sinjhoro Water Supply Scheme		

No.	Schemes	Coordinates	Site Description
17	Sinjhoro City Urban Water Supply Scheme	26° 1'47.92"N 68°48'21.28"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Sinjhoro-Khadro Road on the left side while moving towards Sinjhoro City. The household and population are 2034 and 14240 respectively. The area is surrounded by agricultural fields and human settlements with commercial activities. There are a few educational and healthcare facilities around proposed subproject site i.e., Govt Girls high school Sinjhoro and Govt. Boys Higher Secondary School at a distance of 132 m and 150 m respectively. Whereas, Taluka Hospital Sinjhoro is at a distance of 1.1 km. A canal is flowing on northwestern side at a distance of 870 m.
18	Khadro Urban Water Supply Scheme	26° 8'39.77"N 68°43'2.29"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Nawabshah-Sanghar Road on the right side while moving towards Khadro City. The household and population are 1890 and 13230 respectively. The area is surrounded by agricultural fields and human settlements with commercial activities. There are a few educational and healthcare facilities around proposed subproject site i.e., SEF SCHOOL PPRS-803203 Ideal Public School and Govt. Boys High School Khadro at a distance of 79 m and 750 m respectively. Whereas, BHU khadro is at a distance of 941 m. A canal is flowing on western side at a distance of 850 m.
19	Gul Muhammad Thahim Water Supply Scheme	26° 3'36.73"N 68°45'16.44"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Khadro Road on the right side while moving from Sinjhoro City to Gul Muhammad Thahim Goth. The household and population are 403 and 2823 respectively. The area is surrounded by agricultural fields and human settlements with commercial activities. There are no social sensitive receptors around proposed project site except an educational facility i.e., Madarsa ali ulmortaza at a distance of 304 m.
20	Kurkuli Water Supply Scheme	25°56'32.25"N 68°48'53.01"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Sanghar-Shahdadpur Road

No.	Schemes	Coordinates	Site Description
			on the left side while moving from Shahdadpur towards Kurkali Village. The household and population are 571 and 4000 respectively. The area is surrounded by agricultural fields and human settlements with commercial activities. There are a few educational facilities around proposed subproject site i.e., Indus Educational Academy kurkali and Government girls Elementary School at a distance of 99 m and 381 m respectively.
21	Urban Water Supply Scheme Jhol-I	25°57'8.85"N 68°53'4.15"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Sanghar-Shahdadpur Road on the right side while moving from Shahdadpur towards Jhol city. The household and population are 1403 and 9820 respectively. The area is surrounded by agricultural fields and human settlements with commercial activities. There are a few educational and healthcare facilities around proposed subproject site i.e., Government boys' higher secondary school Jhole and SEF SCHOOL EX-254 Rabia Public School at a distance of 601 m and 732 m respectively. Whereas, RHC Jhol Hospital is at a distance of 281m.
22	Urban Water Supply Scheme Jhol-II	25°57'55.62"N 68°54'18.15"E	Sanghar, it can be easily accessible by National Highway (N5) and Sanghar-Shahdadpur Road on the right side while moving from Shahdadpur towards Jhol city. The household and population are 1,466 and 10265 respectively. The area is surrounded by agricultural fields and human settlements with commercial activities. There are no social sensitive receptors around proposed project site.
F	Taluka Khipro Wat	er Supply Schemes	
23	Urban Water Supply Scheme Khipro	25°49'26.19"N 69°22'47.11"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Sanghar and Mirpurkhas Road on the right side while moving towards Khipro city. The household and population are 3,694 and 25860 respectively. The area is surrounded by agricultural fields and human settlements with commercial activities. There

No.	Schemes	Coordinates	Site Description
24	Dost Muhammad Hingoro Water Supply Scheme	25°51'9.34"N 69°18'21.28"E	are a few educational and healthcare facilities around proposed subproject site i.e., Iqra Primary School for Boys and Government Boys High school Khipro at a distance of 438 m and 557 m respectively. Whereas, BHU Bhit bhaiti and Government Civil Hospital Taluka Khipro is at a distance of 322 m and 672 m respectively.  The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Sanghar Road on the left side while moving from Khipro city to Loon khan Village. The household and population are 489 and 3420 respectively. The area is surrounded by agricultural fields and human settlements with commercial activities. There are a few educational and healthcare facilities around proposed subproject site i.e., GBPS Loon Khan at a distance of 550 m. A canal is flowing on southwestern side at a distance of 1.3 km.
25	Haji Muhammad Laghari Water Supply Scheme	25°54'59.16"N 69°13'35.72"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Ghulam Haider Faqeer Road on the left side while moving from Loon khan Village to Haji Muhammad Laghari Goth. The household and population are 357 and 2500 respectively. The area is surrounded by agricultural fields and human settlements with commercial activities. There are a few educational facilities around proposed subproject site i.e., Government Middle School Haji Abdullah Khan Laghari and Govt Girls Primary School Haji Ismail Laghari at a distance of 44 m and 642m.
26	Hathungo Water Supply Scheme	25°47'26.11"N 69°26'52.58"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Hathonga Road on the left side while moving from Khipro City to Hatomga city. The household and population are 1529 and 10700 respectively. The area is surrounded by agricultural fields and human settlements with commercial activities. There are a few educational and healthcare facilities around proposed subproject site i.e., Mehfooz Children Academy and Government High

No.	Schemes	Coordinates	Site Description
			School at a distance of 697 m and 1.1 km. Whereas, Hithongo Govt. Hospital is at a distance of 1.4 km. Nara Canal is flowing at a distance of 282 m.
27	Khahi Water Supply Scheme	25°37'46.92"N 69°25'20.42"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Mirpurkhas Road on the left side while moving from Khipro City to Khahi Village. The household and population are 521 and 3650 respectively. The area is surrounded by agricultural fields and human settlements with commercial activities. There are a few educational and healthcare facilities around proposed subproject site i.e., Government higher secondary school khahi and Ideal Public School khahi at a distance of 167 m and 360 m respectively. Whereas, Ayan Zeb Panhwer Medical Store and clinic is at a distance of 554 m.
28	Haji Hussain Rajar/Khani Rajar Water Supply Scheme	25°45'54.82"N 69°21'28.14"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and link Road on the right side while moving from Khipro City to Hussain Rajar Village. The household and population are 443 and 3100 respectively. The area is surrounded by agricultural fields and human settlements. There is no social sensitive receptor around proposed subproject site.
G	Taluka Sanghar Dra	ninage Schemes	
29	Kandairi Urban Drainage Scheme	25°47'47.51"N 69° 4'2.54"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Sanghar-Mirpurkhas Road on the rught side while moving from Sanghar city to Kandiari City, Sanghar. The household and population are 201 and 1406 respectively. The area is surrounded by human settlements with commercial activities and agricultural areas. There are a few educational and healthcare facilities around proposed subproject site i.e., Government Boys Higher Secondary School Kandiari at a distance of 450 m and a Rural Health Center Kandiari District Sanghar at a distance of 377 m. A canal, Ban Waah is flowing on eastern side at a distance of 581 m.

No.	Schemes	Coordinates	Site Description
Н	Taluka Jam Nawaz	Ali Drainage Scheme	
30	Birani Urban Drainage Scheme	25°47'9.35"N 68°48'15.72"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Tando Adam-Beerani Link Road on the right side while moving from Sanghar city to Kandiari City, Sanghar. The household and population are 1577 and 11040 respectively. The area is surrounded by agricultural fields and human settlements with commercial activities. There are a few educational and healthcare facilities around proposed subproject site i.e., Govt Boys Primary and High School and GBPS Urdu Berani at a distance of 69 m and 196 m whereas, Mother and Child Health Care Hospital Berani is at a distance of 751 m.
I	Taluka Shahdad Pu	r Drainage Schemes	
31	Shahdad Pur Urban Drainage Scheme	25°55'28.88"N 68°36'55.75"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and hala-Shahdadpur Road and Maldasi Road on the right side while moving towards Shahdadpur City, Sanghar. The household and population are 7248 and 50738 respectively. The area is surrounded by human settlements with commercial activities. There are a few educational and healthcare facilities around proposed subproject site i.e., The City Grammar H/S School Shahdadpur and Government Boys High School Shahdadpur (Lal Bagh) at a distance of 29 m and 313 m whereas, Government Taluka Hospital Shahdadpur is at a distance of 317 m.
J	Taluka Tando Adan	n Drainage Scheme	-
32	Tando Adam Rasheed Colony UDS	25°46'30.41"N 68°39'27.49"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Tando Adam- N5 Road on the right side while moving towards Tando Adam City, Sanghar. The household and population are 1633 and 11430 respectively. The area is surrounded by human settlements with commercial activities and agricultural lands. There are a few educational and healthcare facilities around proposed subproject site i.e., Hadeeqat Ul Ilm Islamic

No.	Schemes	Coordinates	Site Description
			High School and Ghot ESO shajany School at a distance of 77 m and 254 m whereas, THQ Tandoadam is at a distance of 1.8 km.
33	Soomar Khash kheli Drainage Scheme	25°53'28.03"N 68°32'22.29"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Hala-Shahdadpur Road on the left side while moving towards Sahahdadpur, Sanghar. The household and population are 229 and 1605 respectively. The area is surrounded by human settlements and agricultural lands. There are no social sensitive receptors around proposed subproject site. Rohri Canal is flowing eastern side at a distance of 43 m.
K	Taluka Khipro Drai	nage Schemes	
34	Urban Drainage Scheme Khipro	25°49'48.89"N 69°22'48.35"E	The proposed scheme is situated in District Sanghar, it can be easily accessible by National Highway (N5) and Sanghar and Mirpurkhas Road on the right side while moving towards Khipro city. The household and population are 1339 and 9370 respectively. The area is surrounded by agricultural fields and human settlements with commercial activities. There are a few educational and healthcare facilities around proposed subproject site i.e., Government Boys High school Khipro at a distance of 278 m. Whereas, Government Civil Hospital Taluka Khipro is at a distance of 174 m.

# 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 Sanghar, Sindh, within the Government territory, specifically under the jurisdiction of the Public Health Engineering Department (PHED). The district has six Talukas; Jam Nawaz Ali Taluka, Khipro Taluka, Sanghar Taluka, Shahdadpur Taluka, Sinjhoro Taluka, and Tando Adam Taluka. The aim is to rehabilitate and restore the water supply and drainage systems that were damaged or destroyed during the floods in 2022. These efforts will prioritize the selected water supply infrastructure, ensuring its recovery. Currently, the community in District Sanghar 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, sanitation facilities 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 Sanghar 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 Sanghar 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 structures in order to resolve the socioeconomic issues of the sub project area. The sub-project areas are located in different areas of District Sanghar, 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 Sanghar.

### i. Flora of Sub-Project Area

Some of the common flora of the district observed during survey includes are babul or gum Arabic (*Acacia nilotica*), mulberry (*Morus alba*), neem (*Melia azadirech*), kono or Ethiopian teak (*Conocarpus lancifolius*), sufaida (*Eucalyptus camaldulensis*), jungle jalebee or monkey pod (Pithecolobium dulce), chimkani or amaltas (*Cassia fistula*), bulrush (*Typha latifolia*), and common reed (*Phragmites karka*).





Wheat, cotton, rice, sugarcane, rapeseed and mustard, jowar, bajra, maize, sesanum, arhar, sunflower, guar seed, maash, moong, soyabean, linseed, and sunflower are some of the crops of the district.

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

Some of the important mammals observed during survey were palm squirrels, mongoose, bats, and rats, except these only domesticated animals were noticed.

Avifauna of the proposed sub-project areas were egret, grey partridges, pigeon, dove, parakeet, kingfisher, bee-eater, herons.

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

The total population of the district Sanghar is 2,057,000 persons with 47% literacy rate<sup>1</sup>. Majority of the population of the district is Muslim (79.2%). 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 languages mostly spoken in District are Sindhi, Punjabi, and Urdu. Whereas, Pashto, Sraiki and Balochi are also less spoken languages. However, Urdu is understood amongst all the population of district. The economy of Sanghar is mainly based on Agriculture with its allied Livestock Breeding & Fishing (56.5%), Elementary Occupations (25.7%), Service Workers & Market/Shop Sales Workers (7.8%), Other (10%). There are 2 Industrial Estates in Sanghar district: one is at Tando Adam and the other is in Sanghar. Both of these houses a number of industries, most of which are agro-based and include: cattle and poultry feed, light engineering workshop, milk plant, oil expelling units, flour mills, rice husking, steel door and window manufacturing, food industry, and agricultural accessories. Major industries in the district Sanghar are Sugar Mills, Flour Mills, Cotton Factory, and Safety Matches<sup>2</sup>.

<sup>&</sup>lt;sup>1</sup> https://www.pbs.gov.pk/census-2017-district-wise/results/101

<sup>&</sup>lt;sup>2</sup> https://pakistanalmanac.com/sindh-sanghar/#1633497127938-b1d45416-be12

# 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 September, 2023. The field team visited the nearby communities briefed salient features of the sub-projects 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 Sanghar. 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.

#### 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 November, 2023 and will be completed in March, 2025.

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

The main rehabilitation or restoration components of water supply schemes are transmission main, low surface reservoir tanks (LSR), existing water storage reservoirs, pump house, staff quarters, water filtration tanks, alternate energy source i.e. (solar system) and compounds walls. The drainage schemes include the rehabilitation of collection drains, screening chambers, collecting tanks, pumping machinery, and drainage disposal pipes.

The capacities of these structures have been designed with respect to population sizes including future growth pattern and water demand & supply of proposed subproject areas. The drawings and typical cross sections of components are provided in **Annexure-2**. However, the current and future drainage generation capacities and water supply demand are given in **Table-2** and **Table-3**.

The tentative details of major equipment, machineries and manpower that will be utilized for upgrading existing structures during rehabilitation works are given below (**Table-1**) However, exact number and quantities will be finalized at the stage of engaging contractors for bids based on the volume of work.

Table 1: Details of Equipment/Machineries and Manpower for Rehabilitation Works

Equipment/Machineries	Quantity	Manpower
Small Concrete Mixers	02	Skilled:
Generators	01	Mason, Steel Fixer, Plumber, Electrician,
Dewatering Pumps	02	Carpenter, Machine Operators etc.
Excavators	01	Unskilled:
Dumpers	02	Labors, Security Guards etc.
Tractor Trolley	02	
Bowser	01	

**Table 2: Population Size and Wastewater Generation of District Sanghar 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 (Fin	rst Operation	al Year)	2050 (La	ast Operation	al Year)
	Person	GPCD	GPD	Person	GPCD	GPD	Person	GPCD	GPD
	Improvement	& Extension	for Drainage S	Schemes at Var	ious Taluka's	of District Sa	nghar		
		В	Taluka Sang	har Drainage S	chemes				
Kandairi Urban Drainage Scheme	14,603	8.8	128506.4	15,119	8.8	133043.5	23,328	8.8	205283.5
		D. Ta	aluka Jam Na	waz Ali Draina	ge Scheme				
Birani Urban Drainage Scheme	11,040	8.8	97152	11,430	8.8	100582.1	17,636	8.8	155196.2
		F. T	aluka Shahda	d Pur Drainag	e Schemes				
Shahdad Pur Urban Drainage Scheme	50,738	8.8	446494.4	52,529	8.8	462258.4	81,052	8.8	713255.8
		Н. 7	Taluka Tando	Adam Drainag	ge Scheme				
Tando Adam Rasheed Colony UDS	11,430	8.8	100584	11,834	8.8	104135.2	18,259	8.8	160678.7
Soomar Khashkheli Drainage Scheme	1,605	8.8	14124	1,662	8.8	14622.7	2,564	8.8	22562.5
		K	. Taluka Khij	oro Drainage S	chemes				
Urban Drainage Scheme Khipro	9,370	8.8	82456	9,701	8.8	85367	14,968	8.8	131720

**Table 3: Population Size and Water Supply Demand of District Sanghar Water Supply Schemes** 

Description	Total Per Capita Water Demand 2023 Person UK GPCD		Supply Population  Ber Supply Population  3 2025 (I		Per Capita Water Water Supply Demand Demand irst Operational Year) UK GPCD GPD		Total Population Population  2050 (Last Operational Person  UK GPCD		Water Supply Demand al Year) GPD		
Improvement & Extension for Water Supply Schemes at Various Taluka's of District Sanghar											
		<b>A.</b> T	aluka Sangha	r Water Suppl	ly Schemes						
Wali Dino Chand Water Supply Scheme	1,600	11	17600.0	1,656	11	18221.4	2,556	11	28115.3		
Padri Goth Water Supply Scheme	1,840	11	20240.0	1,905	11	20954.6	2,939	11	32332.5		
Gujri Water Supply Scheme	10,210	11	112310.0	10,570	11	116275.2	16,310	11	179410.4		
Chak No-11 Water Supply Scheme	4,360	11	47960.0	4,514	11	49653.3	6,965	11	76614.1		
Chak No-2 Water Supply Scheme	4,000	11	44000.0	4,141	11	45553.5	6,390	11	70288.1		
Chak N- 3&4 Water Supply Scheme	3,180	11	34980.0	3,292	11	36215.0	5,080	11	55879.1		
Chak No-5&8 Water Supply Scheme	5,170	11	56870.0	5,353	11	58877.9	8,259	11	90847.4		
Sanghar Urban Water Supply Scheme	35,170	11	386870.0	36,412	11	400528.9	56,183	11	618008.3		
Kandairi Urban Water Supply Scheme	16,780	11	184580.0	17,372	11	191096.8	26,805	11	294858.7		
Urban Water Supply Scheme Jhol-I	9,820	11	108020.0	10,167	11	111833.8	15,687	11	172557.3		

Description	Total Population	Per Capita Water Demand 2023	Water Supply Demand	Total Population 2025 (Fi	Per Capita Water Demand rst Operationa	Water Supply Demand I Year)	Supply Demand Population		Water Supply Demand al Year)
	Person	UK GPCD	GPD	Person	UK GPCD	GPD	Person	UK GPCD	GPD
In	nprovement &	Extension for	Water Suppl	y Schemes at V	Various Taluka	's of District	Sanghar		
Urban Water Supply Scheme Jhol- II	10,265	11	112915.0	10,627	11	116901.6	16,398	11	180376.9
		C. Talul	ka Jam Nawa	z Ali Water Su	pply Schemes				
Birani Urban Water Supply Scheme	11,040	11	121440.0	11,430	11	125727.6	17,636	11	193995.2
Jam Nawaz Ali Urban Water Supply Scheme -1	5,020	11	55220.0	5,197	11	57169.6	8,019	11	88211.6
Jam Nawaz Ali Urban Water Supply Scheme -2	2,266	11	24926.0	2,346	11	25806.0	3,620	11	39818.2
		E. Talı	uka Shahdad	Pur Water Su	pply Scheme				
Daim Khan Dhamrah Water Supply Scheme	960	11	10560.0	994	11	10932.8	1,534	11	16869.2
Amanullah Dahri Water Supply Scheme	1,380	11	15180.0	1,429	11	15715.9	2,204	11	24249.4
		G. Tal	uka Tando A	dam Water Su	pply Scheme				
Bagowadadani Water Supply Scheme	3,950	11	43450.0	4,089	11	44984.1	6,310	11	69409.5
		I. Ta	aluka Sinjhor	o Water Supp	ly Scheme				
Sinjhoro City Urban Water Supply Scheme	14,240	11	156640.0	14,743	11	162170.4	22,748	11	250225.7

Description	Total Population	Per Capita Water Demand 2023	Water Supply Demand	Total Population 2025 (Fi	Per Capita Water Demand rst Operationa	Water Supply Demand	Total Population 2050 (La	Per Capita Water Demand ast Operationa	Water Supply Demand
	Person	UK GPCD	GPD	Person	UK GPCD	GPD	Person	UK GPCD	GPD
In	provement &	Extension for	Water Suppl	y Schemes at V	Various Taluka	's of District	Sanghar		
Khadro Urban Water Supply Scheme	13,230	11	145530.0	13,697	11	150668.1	21,134	11	232478.0
Gul Muhammad Thahim Water Supply Scheme	2,823	11	31053.0	2,923	11	32149.4	4,510	11	49605.8
Kurkuli Water Supply Scheme	4,000	11	44000.0	4,141	11	45553.5	6,390	11	70288.1
		J. T	aluka Khipro	Water Supply	y Schemes				
Urban Water Supply Scheme Khipro	25,860	11	284460.0	26,773	11	294503.2	41,310	11	454412.7
Dost Muhammad Hingoro Water Supply Scheme	3,420	11	37620.0	3,541	11	38948.2	5,463	11	60096.3
Haji Muhammad Laghari Water Supply Scheme	2,500	11	27500.0	2,588	11	28470.9	3,994	11	43930.1
Hathungo Water Supply Scheme	10,700	11	117700.0	11,078	11	121855.5	17,093	11	188020.7
Khahi Water Supply Scheme	3,650	11	40150.0	3,779	11	41567.5	5,831	11	64137.9
Haji Hussain Rajar/Khani Rajar Water Supply Scheme	3,100	11	34100.0	3,209	11	35303.9	4,952	11	54473.3

#### 1.5.9 Would rehabilitation works done by considering the climate resilient factor?

The restoration and rehabilitation efforts prioritize climate resilience to enhance structural durability. To ensure this, civil works have been designed based on engineering design standards and ACI codes. The main goal of the subproject is to enhance resilience through a "build back better" approach. Key elements, like the pump house and compound walls, are designed with free board to withstand floods by raising them above flood levels. To address electricity shortages in remote Sindh areas, a resilient solar power system will be mounted on elevated structures to protect against flood damage. Additionally, the use of HDPE material for the rising main ensures long-term viability.

### 1.5.10 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 water 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	Sanghar 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 of District Sanghar

Table 4: Environmental and Social Screening Checklist

		Yes		Impact	Severit	y Ranl	king					
S. No	SCREENING QUESTIONS		No	NR	1	2	3	Remarks/Mitigation Measures				
	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.?		V	V				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			$\sqrt{}$				No buffer zone viz. a sanctuary, forest, national park, in its immediate surroundings. A few wild vegetation and trees were found in and outside of the proposed boundaries but will not be disturbed during the project activities.				
3	Are there any potential pollution sources in water supply network?	V						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 could not stand with flood. The construction work will solely focus on rehabilitation and improvement of the existing system.				

	SCREENING QUESTIONS	Yes		Impact	Severit	y Ran	king	Remarks/Mitigation Measures				
S. No			No	NR	1	2	3					
4	Are there any potential sources that can damage drainage network? Or Is it affected by flood?	$\sqrt{}$						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?		<b>√</b>					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?		<b>√</b>					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?		<b>V</b>					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?		<b>V</b>					No such issue of mobility/accessibility issues will be caused during the subproject development. Few vehicles on specific timings will be used during construction work which will not increase traffic on road.  Mitigation Measures:  Reduce traffic speeds on all unpaved surfaces to 15 km/ hour or less.  Contractor will strictly implement speed limits and defensive driving policies.  Traffic control will be maintained work sites.  Contractor machinery and equipment will not hamper the traffic at main road and sites.				

				Impact Severity Ranking				
S. No	SCREENING QUESTIONS		No	NR	1	2	3	Remarks/Mitigation Measures
								Necessary training, information will be provided to the workers regarding traffic rules.
	Is there any sensitive receptor (school, mosque, health unit, community very close to the scheme) that will be impacted due to construction activities?	<b>√</b> □			V			Some social sensitive receptors might be affected indirectly due to dust, noise or construction vehicles movements but suggested mitigations will reduce it effects.  Mitigation Measures:
9								<ul> <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> </ul>
								<ul> <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> </ul>
								• Setting up speed limits in close consultation with the traffic police with luminescence sign boards.
10	Will construction activities require tree cutting?		V					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?		√					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 movements that will be

				Impact	<b>Impact Severity Ranking</b>		king	
S. No	SCREENING QUESTIONS	Yes	No	NR	1	2	3	Remarks/Mitigation Measures
								<ul> <li>limited to the proposed boundary of the sub-project and nearby community will not be affected.</li> <li>Mitigation Measures:</li> <li>The contractors would ensure keeping noise levels from construction vehicles and machinery to be within safe limits.</li> <li>Construction activities will not be allowed at nighttime.</li> <li>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.</li> <li>Workers will use noise protection equipment when working in a noisy area.</li> <li>Notifying and coordinating with locals adjacent to project area prior to construction to inform them of the possibility of temporary noise disruption, and how to report noise complaints in accordance with the proposed GRM.</li> <li>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.</li> </ul>
13	Will construction activities generate dust?	٧			V			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.

	SCREENING QUESTIONS		No	Impact	Severit	y Ran	king	
S. No		Yes		NR	1	2	3	Remarks/Mitigation Measures
								<ul> <li>Contractor will ensure that dust emissions due to vehicular traffic are minimized by reducing the speed.</li> <li>Well maintained and tuned vehicles will be used for the transportation and disposal of material.</li> </ul>
14	Will construction activities cause air pollution due to stack emissions from generators, construction machines and vehicles?		~		√			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:  • 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.

	SCREENING QUESTIONS	Yes	No	Impact Severity Ranking				
S. No				NR	1	2	3	Remarks/Mitigation Measures
15	Will construction activities cause soil pollution?		V					<ul> <li>During construction work, various mitigation measures can be employed to address soil pollution.</li> <li>Mitigation Measures:</li> <li>Implementing barriers and containment systems to prevent the spread of pollutants from construction sites to surrounding soil.</li> <li>Ensuring proper disposal of construction waste, including hazardous materials, to prevent soil contamination. This involves following appropriate waste management procedures and regulations.</li> <li>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.</li> <li>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.</li> <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 activities can minimize soil pollution and contribute to environmental sustainability.</li> </ul>

				Impact	Severit	y Ran	king	
S. No	SCREENING QUESTIONS	Yes	No	NR	1	2	3	Remarks/Mitigation Measures
16	Will construction activities generate construction debris?	V			V			Yes, as the sub-project will involve civil works for the development of Water Supply and Drainage Schemes, which may generate a very small quantity of construction debris.  Mitigation Measures:  The debris (rejected material) and WS&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.
17	Will construction activities generate hazardous solid waste?		$\sqrt{}$					No hazardous waste will be generated during construction phase of the project.
18	Will construction take place near to water bodies? Or cause contamination of the surface water resources		V					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.

				Impact	Impact Severity Ranking		king		
S. No	SCREENING QUESTIONS	Yes	No	NR	1	2	3	Remarks/Mitigation Measures	
								<ul> <li>Avoid stockpiling of earth fill especially during the monsoon season unless covered by tarpaulins or plastic sheets;</li> <li>Conduct surface water quality inspection according to the Environmental and Social Management and Monitoring Plan while adhering to SEQS 2016 and WHO standards.</li> </ul>	
19	Will construction activities take place near wastewater/ storm water drains and how quality of wastewater will be ensured?	V		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, telecommunication etc.?		<b>√</b>	0				Neither relocation nor destruction of utilities will be involved in the construction scope. However, the sub-project scope is already restoration and rehabilitation of WS&DS of the proposed subproject area.	
21	Will construction activities involve excavation?	$\checkmark$			V			<ul> <li>The excavation will be done for the foundation works of pump house, disposal stations/drainage works, boundary walls, collecting tanks and screening chambers.</li> <li>Mitigation Measures:</li> <li>The excavation will be done carefully to avoid the damages.</li> <li>Excavation area will be barricaded.</li> <li>Contractor will use safety signs to warn and aware the local people during construction activities.</li> <li>Contractor will be ensured availability of adequate Personal Protective Equipment (PPE) at the sub-project sites.</li> <li>Risk assessment will be carried out by contractor before initiation of excavation work.</li> </ul>	

				Impact	Severit	y Ranl	king	
S. No	SCREENING QUESTIONS	Yes	No	NR	1	2	3	Remarks/Mitigation Measures
								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?		$\checkmark$					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.
								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.  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:
23	Will construction activities/machines be the safety hazards for the workers or any anticipated OHS impacts?	l .			√ ·			<ul> <li>Ensure and strictly implement the SOPs regarding communicable diseases including daily body temperature check, PPEs, emergency response, and drills.</li> <li>Unauthorized personnel will not be allowed to enter project site without permission and safety permits.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ul>

				Impact	<b>Impact Severity Ranking</b>		king	
S. No	SCREENING QUESTIONS	Yes	No	NR	1	2	3	Remarks/Mitigation Measures
								<ul> <li>Contractor will install safety signs and markings to demarcate the construction zone.</li> <li>Contractor will ensure provision of controlled access points for the prevention of an unauthorized access to the site.</li> <li>The Contractor will maintain a record of the persons who enter or exit from the sub-project site.</li> </ul>
	C. Potential Social Impacts During De	sign a	nd Coi	nstruction	l •			
24	Will involuntary resettlement cause by project implementation? If involuntary resettlement is caused, are efforts made to minimize the impacts caused by the resettlement?		$\sqrt{}$					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?		<b>√</b>					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			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.

				Impact	Severit	y Ran	king	
S. No	SCREENING QUESTIONS	Yes	No	NR	1	2	3	Remarks/Mitigation Measures
27	Will construction activities cause community Health and Safety issues? Or any other such impacts.		√					<ul> <li>No such impacts are anticipated, though following will be applicable to 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			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.

				Impact	Impact Severity Ran		king			
S. No	SCREENING QUESTIONS	Yes	No	NR	1	2	3	Remarks/Mitigation Measures		
29	Will the construction activities cause the socio- cultural issues or conflicts among workers and communities?	<b>V</b>			~			<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), Sexual 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 communities 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.		
31	NR: Not Relevant  1. No or Minor Impact  2. Moderate, Short Term, Reversib  3. Severe, Long Term, Irreversible	_								
	Category					A		В С		
	Environmental Management Required				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 5: List of Stakeholders Consulted for Water Supply and Drainage Schemes of Sanghar

No.	Schemes	Coordinates	Name of the Goth/Community	Date of Consultation
A	Taluka Sanghar Water Supply Sch	nemes		
1	Wali Dino Chand Water Supply Scheme	24°38'09.2"N 69°02'28.0"E	Basi Goth	2/9/2023
2	Padri Goth Water Supply Scheme	26° 4'7.35"N 68°59'27.39"E	Padri Goth	2/9/2023
3	Gujri Water Supply Scheme	26°11'7.69"N 68°58'12.67"E	Gujri Chak No. 1 Pathan	2/9/2023
4	Chak No-11 Water Supply Scheme	26° 4'50.92"N 68°55'54.54"E	Deh 11	2/9/2023
5	Chak No-2 Water Supply Scheme	26°10'5.99"N 68°57'50.10"E	Chak No. 2	2/9/2023
6	Chak N- 3&4 Water Supply Scheme	26° 8'14.91"N 68°57'29.39"E	Mangli Goth	4/9/2023
7	Chak No-5&8 Water Supply Scheme	26° 7'5.29"N 68°53'2.63"E	Chak No. 5	4/9/2023
8	Sanghar Urban Water Supply Scheme	26° 2'13.01"N 68°57'45.78"E	Khan Colony	4/9/2023
9	Sanghar city old scheme	26° 2'22.36"N 68°57'21.20"E	Shahmir Panhwer Colony	4/9/2023
10	Kandairi Urban Water Supply Scheme	25°48'2.95"N 69° 4'17.95"E	Main Bazar Kandiari	4/9/2023
В	Taluka Jam Nawaz Ali Water Sup	ply Schemes		
11	Birani Urban Water Supply Scheme	25°47'2.91"N 68°47'22.05"E	Beerani Goth	5/9/2023
12	Jam Nawaz Ali Urban Water Supply Scheme -1	25°46'50.01"N 68°51'29.53"E	Jam Nawaz Ali Goth	5/9/2023
13	Jam Nawaz Ali Urban Water Supply Scheme -2	25°46'58.98"N 68°50'55.01"E	Jam Nawaz Ali Goth	5/9/2023
C	Taluka Shahdad Pur Water Suppl	y Scheme		
14	Daim Khan Dhamrah Water Supply Scheme	26°10'27.20"N 68°35'43.36"E	Goth Jan Mohammad	6/9/2023
15	Amanullah Dahri Water Supply Scheme	25°51'6.72"N 68°37'14.24"E	Dahiri Goth	6/9/2023
D	Taluka Tando Adam Water Suppl	y Scheme		
16	Bagowadadani Water Supply Scheme	25°52'49.29"N 68°41'23.12"E	Goth Bago Wadadadani	7/9/2023

No.	Schemes	Coordinates	Name of the Goth/Community	Date of Consultation
E	Taluka Sinjhoro Water Supply Sch	neme		
17	Sinjhoro City Urban Water Supply Scheme	26° 1'47.92"N 68°48'21.28"E	Mohulla ward 4 Goth Rukan Burura	21/8/2023
18	Khadro Urban Water Supply Scheme	26° 8'39.77"N 68°43'2.29"E	Gulshah Mohulla	9/9/2023
19	Gul Muhammad Thahim Water Supply Scheme	26° 3'36.73"N 68°45'16.44"E	Gul Muhammad Thahim Goth	9/9/2023
20	Kurkuli Water Supply Scheme	25°56'32.25"N 68°48'53.01"E	Meenhal wassan, Goth Kurkali	10/9/2023
21	Urban Water Supply Scheme Jhol-I	25°57'8.85"N 68°53'4.15"E	Ansari Chowk, Jhol	10/9/2023
22	Urban Water Supply Scheme Jhol- II	25°57'55.62"N 68°54'18.15"E	Goth Muhammad Khan Marri	10/9/2023
F	Taluka Khipro Water Supply Sche			
23	Urban Water Supply Scheme Khipro	25°49'26.19"N 69°22'47.11"E	Uc Roonjho, Khipro	11/9/2023
24	Dost Muhammad Hingoro Water Supply Scheme	25°51'9.34"N 69°18'21.28"E	Goth Loon Khan	11/9/2023
25	Haji Muhammad Laghari Water Supply Scheme	25°54'59.16"N 69°13'35.72"E	Goth Haji Abdullah Khan Laghari	11/9/2023
26	Hathungo Water Supply Scheme	25°47'26.11"N 69°26'52.58"E	Village Ghazi Khan Rd Hathongo	12/9/2023
27	Khahi Water Supply Scheme	25°37'46.92"N 69°25'20.42"E	Khahi Goth	12/9/2023
28	Haji Hussain Rajar/Khani Rajar Water Supply Scheme	25°45'54.82"N 69°21'28.14"E	Rajar Goth	12/9/2023
G	Taluka Sanghar Drainage Schemes	3		
29	Kandairi Urban Drainage Scheme	25°47'47.51"N 69° 4'2.54"E	Main Bazar, Kandiari	21/8/2023
H	Taluka Jam Nawaz Ali Drainage S	cheme		
30	Birani Urban Drainage Scheme	25°47'9.35"N 68°48'15.72"E	Nabi Bux Khaskheli Muhalla	5/9/2023
I	Taluka Shahdad Pur Drainage Sch	emes		
31	Shahdad Pur Urban Drainage Scheme	25°55'28.88"N 68°36'55.75"E	Janipura Colony	6/9/2023
J	Taluka Tando Adam Drainage Sch	eme		
32	Tando Adam Rasheed Colony UDS	25°46'30.41"N 68°39'27.49"E	Rasheed Colony	7/9/2023
33	Soomar Khash kheli Drainage Scheme	25°53'28.03"N 68°32'22.29"E	Soomar Khaskheli Goth	7/9/2023
K	Taluka Khipro Drainage Schemes			
34	Urban Drainage Scheme Khipro	25°49'48.89"N 69°22'48.35"E	Gareebabad, Khipro	11/9/2023

# 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 members showed their reservation that privacy of the local communities might not be compromised.	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.  No interaction of labor with women and children would be happened.
Community members showed reservation about the long-term maintenance and sustainability of the water supply and drainage schemes.	Community was apprised about that PHED is overseeing the project, the Department will 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 construction activities associated with water supply and drainage schemes can cause disruptions to daily life, including noise, dust, traffic congestion, and temporary service interruptions.	Community was assured that these disruptions will be minimized to the extent possible, provide a clear timeline of the construction activities, and communicate any alternative arrangements made to mitigate inconveniences.

#### **Comments / Observations**

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.

#### Action /Response

Community was informed that after rehabilitation works the system will be handed over to PHED who do proper maintenance and resource utilization.

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



Goth alam Baloch, Taluka Tandoadam, District sanghar



Goth loon khan, Taluka Khipro, District Sanghar



Goth Muhammad Khan Mari, District Sanghar



Goth Rukan Burura, Taluka Sinjhoro, District Sanghar





Mangli Goth, Taluka Sanghar, District Sanghar

#### **Comments /Observations**

#### **Action / Response**

# Nabi Bux Khaskheli Muhalla, Taluka Jam Nawaz



Dahiri Goth, Taluka Shahdadpur, District Sanghar



Village Hathongo, Taluka Khipro, District Sanghar

Figure 2 Stakeholders Consultation

#### 3.2 Institutional Consultation

The Environment and Social team of consultant conducted consultations with concerned Government Department in September, 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

Sr. No	Department						
1.	XEN PHED Department						
2.	Deputy Director SEPA						
3.	3. Representative of Municipal Administrator						
meeting a	meeting and assured their full cooperation as a Line Department.						

Table 6: Summary of Concerns Raised By Institutional Stakeholders

Comments/Observations	Actions/ Responses
The majority of the stakeholders showed positive attitudes toward the rehabilitation of water supply	project and agreed that it is greatly needed because
and drainage schemes.	Water Supply and Drainage Schemes have been dilapidated in devastated floods 2022.

#### Comments/Observations Actions/ Responses The project will not cast adverse impact on Detailed discussions were held regarding the population, flora and fauna of the area. The project environmental and social issues of the area due to lies in Govt. owned land and no major social and proposed rehabilitation activity. 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 team acknowledged and responded that the the proposed project would uplift the socioproposed Water Supply and Drainage Schemes will economic condition of the community in the project be beneficial for community residing in the area. The living standard of the community would be elevated after rehabilitation of the schemes. The plantation would be undertaken with the The stakeholders suggested that care must be given to protect fauna and flora during the construction preference of local species; no exotic species will be phase. 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 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. The Stakeholder shows their concern regarding the Social and environmental teams briefed about the impacts during the construction stage on waste mitigation measures will be adopted to control dust, management and land acquisition 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 The teams responded that locals will be considered during project activities and considering the women construction activities while privacy that not be affected. 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.

# Comments/Observations

# Actions/ Responses









**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.

Table 7: Environmental and Social Management and Monitoring Plan (ESMMP)

Sr. No.	Activity	Potential Impacts	Mitigation Measures	Monitoring & Reporting Frequency	Responsibility
1.	Land Use	Construction Phase Civil Works  Operation Phase None	<ul> <li>The work will be carried out in land of PHED which comprise rehabilitation work only.</li> <li>No need to clear land or cutting trees is envisaged.</li> </ul>	ed of NA	None
2.	Dust Emission	Construction Phase  Movement of construction vehicles.  Operation Phase  None	<ul> <li>Water will be sprinkled daily or vas required to avoid the dust emission near proposed project vicinity.</li> <li>For dust control, cordon off construction area through control net.</li> </ul>	ssion Construction Phase	Construction phase Contractor
3.	Noise Emission	Construction Phase  Construction Equipment, Generator, Vehicle Movement  Operation Phase  None	- Proper design, maintenance repair of construction machinery equipment will be ensured.	and Twice a month during and Construction Phase	Construction phase Contractor

Sr. No.	Activity	Potential Impacts	Mitigation Measures	Monitoring & Reporting Frequency	Responsibility
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 and manage waste generated from the construction activities without contamination to natural environment/water bodies and it will reduce risk to general public who stay close to sites.</li> <li>Water contamination during construction will be avoided through proper disinfection.</li> <li>Excess use of water will be avoided and monitored in routine basis.</li> <li>Water Tankers/water bowsers and bore water will be proposed for the utilization of water during project activities.</li> <li>Clean and safe drinking water will be provided to the workers during working hours.</li> </ul>	<ul> <li>Daily during Construction Phase</li> <li>Water quality analysis at the beginning and end of construction phase</li> </ul>	Construction phase Contractor Operational phase PHED
5.	Ecological Impact	Construction Phase Construction activities Clearance of top Soil No habitat loss No tree cutting at site Operation Phase None	- As the subproject develops, plantation must be done in and around the subproject vicinity as a CSR.	None	None

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Sr. Activity No.	Potential Impacts	Mitigation Measures	Monitoring & Reporting Frequency	Responsibility
6. Solid Waste Management	Construction Phase  In construction phase, cement bags, woods remain, debris will be generated.	<ul> <li>Waste reduction methodologies will be implemented.</li> <li>On spot segregation will be ensured.</li> <li>Covered bins shall be ensured.</li> <li>Separate Bins for recyclable material and other type of solid waste shall be</li> </ul>	Daily during Construction Phase	Construction phase Contractor  Operational phase
	Operation Phase	ensured.		PHED
	Operation Phase  Food Waste and Recyclables Material like; paper, plastic etc.	<ul> <li>Ensure the disposal of waste properly from the site on daily basis to avoid odor and maintained the site esthetics.</li> <li>Food waste will be disposed of separately.</li> <li>Waste inventory of hazardous and non-hazardous waste generated will be prepared and periodically updated.</li> <li>Scrap metal waste generated from construction activities will be collected and stored separately in a waste yard and sold to local recyclers for reuse purposes.</li> <li>Solid waste generated during construction and operation activities will be segregated disposed of appropriately.</li> <li>Waste will be disposed of properly at designated disposal area.</li> <li>Food waste and recyclables viz. paper, plastic, glass etc. will be stored</li> </ul>		

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Sr. No.	Activity	Potential Impacts	Mitigation Measures	Monitoring & Reporting Frequency	Responsibility
			The recyclables will be periodically sold to local recyclers while food waste will be disposed through proper waste handling mechanism.  - 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.		
	Soil and Land Contamination	Construction Phase  No any chemical or hazardous substance is used in the construction phase therefore there is no chance of soil or land contamination	<ul> <li>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.</li> <li>Maintenance of machinery will only</li> </ul>	Weekly during Construction Phase	Construction phase Contractor
		Operation Phase None	<ul> <li>be carried out at designated places to avoid any fuel spill if require.</li> <li>Reinstate and protect cleared areas as soon as possible.</li> <li>Cover unused area of disturbed or exposed surfaces immediately with mulch/grass turnings/tree plantations.</li> <li>Locate stockpiles away from drainage lines.</li> <li>Remove debris from drainage paths and sediment control structures.</li> <li>Keep the final or finished surface of</li> </ul>		Operational phase PHED

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Sr. No.	Activity	Potential Impacts	Mitigation Measures	Monitoring & Reporting Frequency	Responsibility
			<ul> <li>all the raised lands free from any kind of depression that causes water logging.</li> <li>Reinstate the natural landscape of the ancillary construction sites after completion of works.</li> </ul>		
8.	Waste Water	Construction Phase	- Conduct daily inspections at the site	- Visual inspection on	<b>Construction phase</b>
		Water used in the construction material during preparing bed and lean activity, construction of pump house, septic tanks, LSRs and other works  Operation Phase  Sanitary waste water from the office	to ensure removal of construction debris.  - Store construction material containing fine particles in an enclosure so that sediment laden water does not drain into nearby water drains.  - Sanitary waste will be drained to the drainage system properly.	daily basis during Construction Phase  - Wastewater quality analysis at the beginning and end of construction phase	Contractor
9.	Safety Hazards	Construction Phase Project related vehicular traffic Driving Injuries related with civil works and electrical works	<ul> <li>Ensure the World Bank EHS guideline will be followed.</li> <li>Personal Protective Equipment will be provided during construction.</li> <li>First Aid kits will be provided at sites.</li> </ul>	Daily during Construction and operation phase	Construction phase Contractor
	Heat Waves Cold Waves Communicable Diseases  Operation Phase Injuries during Operational phase	<ul> <li>Strict code of conduct will be followed.</li> <li>Make safety precautions and display on the notice board of entry gate in both national and local language.</li> </ul>		Operational phase PHED	
		<u> </u>	<ul> <li>During heat wave, working hours will be revised to make sure that labor work force work only in early hours</li> </ul>		

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Sr. No.	Activity	Potential Impacts	Mitigation Measures	Monitoring & Reporting Frequency	Responsibility
			or late evening hours.  - Monitoring weather forecasts for outdoor work to provide advance warning of extreme weather and scheduling work accordingly.  - Adjustment of work and rest periods according to 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 Environment	Construction Phase Traffic and vehicle movement  Noise generated form subproject activities	<ul> <li>Plan temporary traffic arrangements during construction within the construction area. Review the plan periodically with respect to site conditions.</li> <li>Give special consideration to local</li> </ul>	Construction Phase GRM for labor and community	Construction phase Contractor
		Labor requirement form the nearby area Occupational health & safety issue of working labor	<ul> <li>traffic management.</li> <li>Take adequate precautions to prevent danger from electrical equipment (switches and wiring).</li> <li>Provide a readily available first aid</li> </ul>		<b>Operational phase</b> PHED

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Sr. No.	Activity	Potential Impacts	Mitigation Measures	Monitoring & Reporting Frequency	Responsibility
			unit including an adequate supply of		
			sterilized dressing material and		
		Operation Phase	appliances.		
		Employment opportunities -	Community liaison will be		
		Awareness to local people to	maintained during the construction		
		emergency situation	stage and GRM will be developed and		
		Gender Issues, Gender inclusion	ensure the accessibility to the local		
		GBS and VAC related impacts	community and labor.		

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# 5 PICTORIAL PROFILE OF PROJECT SITES

# 5.1 Ammanullah Dhari Rural Water Supply Scheme, Taluka Shahdadpur, District Sanghar





# 5.2 Berani Urban Water Supply Scheme, Taluka Jam Nawaz Ali, District Sanghar





# 5.3 Chak No. 5 & 8 Rural Water Supply Scheme, Taluka Sanghar, District Sanghar





# 5.4 Gujri Rural Water Supply Scheme, Taluka Sanghar, District Sanghar





## 5.5 Urban Drainage System, Taluka Khipro, District Sanghar





# 5.6 Shahdadpur Urban Drainage Scheme, Taluka Shahdadpur, District Sanghar





#### 6 ENVIRONMENTAL AND SOCIAL IMPLEMENTATION BUDGET

There are total 34 schemes in District Sanghar in which 06 are Drainage Schemes and 28 are water supply schemes. Environmental Quality Analysis for Air Quality Monitoring, Testing of Water and Wastewater Quality and Noise Level monitoring 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 8: Environmental Compliance Cost of District Sanghar** 

Item No.	Item	Rational	Frequency	Average Rate (Rs.)/unit*	Site-wise Quantity	No of units/sites	Total Quantity	Estimated Amount (Rs.)
A. Env	ironmental Analysis at Start	of Civil Works						
1	Wastewater	1 Sample from Each Drainage Scheme		17,000	1	6	6	102,000
2	Drinking Water	One Sample from each water supply scheme	Once at the Start	15,000	1	28	28	420,000
3	Ambient Air	1 Sample from each subproject scheme	of Construction	15,000	1	34	34	510,000
4	Ambient Noise	1 Sample from each subproject scheme		1,000	1	34	34	34,000
						Sul	o Total - A	1,066,000
B. Env	ironmental Analysis Cost at (	Completion Phase (18 months	s)					
1	Drinking Water	One from camp area at each water supply scheme site		15,000	1	28	28	420,000
	Wastewater	1 Sample from Each Drainage Scheme		17,000	1	6	6	102,000
2	Generators/Stack Emission (If available)	One Sample from construction site	Once at the End of Construction	10,000	1	34	34	340,000
3	Ambient Air	One from the camp area		15,000	1	34	34	510,000
4	Ambient Noise	One from the camp area		1,000	1	34	34	34,000
5	Mobilization Charges	At each water supply and drainage scheme		10,000	1	34	34	340,000
				•		Sul	b Total - B	1,746,000
C. EHS	C. EHS Management							
1	Personal Protective Equipmen	nt	Bi annual	6,000	1	43	43	258,000
2 Waste Disposal from Construction Sites						Lump sum	100,000	

3	Project dissemination materials such as banners, flayers, notice board etc.		10000	1	43	43	430,000	
					Sul	o Total - C	788,000	
D. EH	D. EHS Administrative Cost							
1	Training/Capacity Building (Environment, Social, Gender, & OHS)	50 persons	20,000	1	34	34	680,000	
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 ea	ch person)	120,000	18	1	18	2,160,000	
Sub Total - D							5,500,000	
					TOTAL OF	(A TO D)	9,100,000	

<sup>\*</sup> 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**

 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 Sanghar**

Annexure 1: Environmental & Social Screening Checklist of All Schemes of District Sanghar

# 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:	Sanghar, Sindh				
Schemes Location:	Wali Dino Chand Water Supply Scheme (Taluka	Coordinates:			
	Sanghar)	24°38'09.2"N 69°02'28.0"E			
Date	2/9/2023				

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?		<b>√</b>	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 contaminating drinking water sources due to construction activities?	<b>√</b>		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?		<b>√</b>	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 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?	<b>√</b>		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?	<b>√</b>		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 machinery will be done to keep levels within limits.
Will the proposed subproject activities lead to increased soil erosion?		✓	Rehabilitation works do not involve any activity that will increase soil erosion

Screening Question	Yes	No	Remarks
Will the proposed subproject interventions result in the generation of hazardous and/or non-hazardous waste?	<b>√</b>		Less quantity of debris and construction waste will be generated which will be handed over to the waste contractor for safe disposal.
Will the proposed subproject interventions result in potentially increased health risks for <b>subproject workers and communities</b> (e.g., communicable diseases)?		<b>√</b>	Workers from nearby localities will be commuted daily for a specific duration so it would not increase health risks.
Are the proposed subproject interventions being implemented in an area with <b>high natural hazard risk</b> ? (e.g., floods, earthquakes, droughts, etc.)		<b>√</b>	The Subproject area does not come under the category of high hazard risk.
ECOLOGICAL	ENVI	RONM	ENT
Will the proposed subproject interventions potentially cause any adverse impacts on <b>habitats</b> , <b>ecosystems</b> , and/or ecosystem services?		<b>√</b>	No, as it will be limited to the specified areas of urban settlements.
Will any rehabilitation work be located in areas that would promote the <b>conversion of natural habitats</b> ?		✓	Rehabilitation work does not include the conversion of natural habitat as it will only upgrade the existing damaged utilities.
Will any proposed subproject interventions be located on or near sensitive environmental areas, including national parks and protected areas?	<b>√</b>		Yes, a canal is flowing on eastern side at a distance of 1.9km away.
Are the proposed subproject interventions activities likely to pose risks to any <b>endangered species?</b>		<b>√</b>	Fauna of urban nature is found around subproject area that comes under the least concern status of the IUCN Red List.
SOCIAL EN	VIRO	NMEN	T
Will the proposed subproject activities involve land acquisition?		✓	Subproject land is owned by GoS.
Are there any <b>forced labor or child labor</b> risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?		<b>√</b>	There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.
Is <b>labor influx</b> ( <b>outside labor force</b> ) expected during the construction of the proposed subproject?		<b>√</b>	No, locals of the area would be given preference for skilled and non-skilled jobs.
Will <b>local labor</b> be used for the proposed subproject construction activities?	✓		Yes, locals of the area will be given preference first.
Will there be any <b>temporary or permanent displacement</b> as a result of the proposed subproject construction or operation activities?		<b>√</b>	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.

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		✓	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		✓	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.

# 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:** Sanghar, Sindh

Schemes Location: Padri Goth Water Supply Scheme Coordinates:

(Taluka Sanghar) 26° 4'7.35"N 68°59'27.39"E

**Date** 2/9/2023

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 the disposal of suspended solids in nearby water bodies	
Will the proposed subproject activities pose a risk of contaminating drinking water sources due to construction activities?		<b>√</b>	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?		<b>√</b>	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?	<b>√</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?		<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?	<b>√</b>		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 SEQS?		<b>√</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		<b>√</b>	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 hazardous and/or non-hazardous			construction waste will be generated		
waste?			which will be handed over to the waste		
			contractor.		
Will the proposed subproject interventions result in		<b>√</b>	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)?			so it would not increase nearth risks.		
		<b>√</b>	The Cubanciast area does not come		
Are the proposed subproject interventions being		Y	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>	<u> </u>			
ECOLOGICAL ENVIRONMENT					
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		<b>√</b>	No, there are no protected areas		
on or near sensitive environmental areas, including			situated in nearby surroundings.		
national parks and protected areas?			situated in noure, surroundings.		
Are the proposed subproject interventions activities		<b>√</b>	Fauna of urban nature is found around		
likely to pose risks to any <b>endangered species?</b>			subproject area that comes under the		
inkery to pose risks to any endangered species:			least concern status of the IUCN Red		
			<u> </u>		
COCIAL DA	VIDON		List.		
SOCIAL EN	VIKON	MENT			
Will the proposed subproject activities involve land acquisition?		<b>V</b>	Subproject land is owned by GoS.		
Are there any forced labor or child labor risks		<b>√</b>	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		<b>√</b>	No, locals of the area would be given		
the construction of the proposed subproject?			preference for skilled and non-skilled		
the construction of the proposed subproject:			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		<b>√</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.		
or operation activities.	<u> </u>	<u> </u>			

Are there expected to be any <b>traffic-related issues</b> as	✓		Minor impacts only during
a result of the proposed subproject intervention			construction.
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
sites?			existing 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 asked about the
proposed subproject areas?			operations and how they will be
			benefited by the subproject.
Were vulnerable groups involved in stakeholder	✓		Yes, women of the subproject area
consultations? (e.g., women, minorities, economically			were taken onboard also.
disadvantaged individuals, etc.)			

ENVIRONMENT	TAL & SOCIAL SCREENING CHEC	KLIST OF SUB-SUBPROJECT		
Name of Subproject:	Rehabilitation of Damaged Water Supply & Drainage Schemes			
Sector:	Public Health Engineering Department	nt (PHED)		
<b>Subproject Location:</b>	Sanghar, Sindh			
<b>Schemes Location:</b>	Gujri Water Supply Scheme (Taluka	Coordinates:		
	Sanghar)	26°11'7.69"N 68°58'12.67"E		
Date	2/9/2023			

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		✓	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 activities pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		<b>V</b>	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?		<b>√</b>	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 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?	<b>√</b>		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?	<b>√</b>		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	√	Rehabilitation works do not involve any
increased soil erosion?		activity that will increase soil erosion
Will the proposed subproject interventions result	<b>√</b>	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		commuted daily for a specific duration
subproject workers and communities (e.g.,		so 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 <b>high natural hazard</b>		the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)		
ECOLOGICAI	L ENVIRON	NMENT
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	✓	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
species?		least concern status of the IUCN Red
		List.
SOCIAL EN	NVIRONMI	ENT
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
involved in implementing this proposed		hire only those people who have valid
subproject 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		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.
Will there be any temporary or permanent	✓	Rehabilitation works will be done for
<b>displacement</b> as a result of the proposed		existing utilities that exist in a
subproject construction or operation activities?		demarcated area.
Are there expected to be any traffic-related	✓	Minor impacts only during construction.
issues as a result of the proposed subproject		

intervention 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?	✓		Will community Health and Safety be impacted due to construction?
Were <b>vulnerable groups</b> involved in stakeholder consultations? (e.g., women, minorities, economically disadvantaged individuals, etc.)	✓		Yes, females were happy that sufficient supply of water will be available to the subproject area.

Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

**Sector:** Public Health Engineering Department (PHED)

**Subproject Location:** Sanghar, Sindh

Schemes Location: Chak No-11 Water Supply Scheme Coordinates:

(Taluka Sanghar) 26° 4'50.92"N 68°55'54.54"E

**Date** 2/9/2023

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 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?		<b>√</b>	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 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?		<b>√</b>	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 result in an increase in <b>ambient air pollution</b> , including chemical and particulate matter due to the construction and operation of related machinery?	<b>√</b>		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> ?		<b>√</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	✓	Rehabilitation works do not involve any
increased soil erosion?		activity that will increase soil erosion
Will the proposed subproject interventions result in	✓	
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	<b>✓</b>	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.
risk? (e.g., floods, earthquakes, droughts, etc.)		
ECOLOGICA	L ENVIRO	DNMENT
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	✓	Yes, a waterbody, Herri Distributary is
located on or near sensitive environmental areas,		flowing on eastern side at a distance of
including national parks and protected areas?		623m
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	NVIRONN	MENT
Will the proposed subproject activities involve land	✓	Subproject land is owned by GoS.
acquisition?		
Are there any forced labor or child labor risks	✓	
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	✓	1(0, 100010 01 010 010 00 010 01
during the construction of the proposed subproject?		! 6 6 1 11 1 1 1 1 1 1 1
		preference for skilled and non-skilled jobs.
Will local labor be used for the proposed subproject	<b>√</b>	Yes, locals of the area will be given
Will <b>local labor</b> be used for the proposed subproject construction activities?		Yes, locals of the area will be given preference first.
Will <b>local labor</b> be used for the proposed subproject construction activities?  Will there be any <b>temporary or permanent</b>	V V	Yes, locals of the area will be given 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		Yes, locals of the area will be given 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?	~	Yes, locals of the area will be given 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	~	Yes, locals of the area will be given 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?  Are there expected to be any traffic-related issues as a result of the proposed subproject intervention	~	Yes, locals of the area will be given 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 as a result of the proposed subproject intervention activities, particularly during the construction	~	Yes, locals of the area will be given 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 as a result of the proposed subproject intervention activities, particularly during the construction phase?	· ·	Yes, locals of the area will be given preference first.  Rehabilitation works will be done for existing utilities which exist in a demarcated area.  Minor impacts only during construction.
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 as a result of the proposed subproject intervention activities, particularly during the construction phase?  Are the proposed subproject activities likely to have	~	Yes, locals of the area will be given preference first.  Rehabilitation works will be done for existing utilities which exist in a demarcated area.  Minor impacts only during construction.  No, as the rehabilitation work involves the
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 as a result of the proposed subproject intervention activities, particularly during the construction phase?	· ·	Yes, locals of the area will be given preference first.  Rehabilitation works will be done for existing utilities which exist in a demarcated area.  Minor impacts only during construction.

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.)			

Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Chak No-2 Water Supply Scheme Coordinates:
(Taluka Sanghar) 26°10'5.99"N 68°57'50.10"E

**Date** 2/9/2023

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 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?		<b>√</b>	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 deplete groundwater 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?	<b>√</b>		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?	<b>√</b>		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 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	<b>√</b>	<b></b>	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		✓	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)?		<u>.</u>	
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.)			
ECOLOG	ICAL F	ENVIRO	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 <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	✓		Yes, a waterbody, Nara Canal is flowing on
located on or near sensitive environmental			eastern side at a distance of 2.5 km and a
areas, including national parks and protected			wetland complex Chotiari Reserve is 3 km
areas?			away.
Are the proposed subproject interventions		<b>√</b>	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	i. TRONM	
Will the proposed subproject activities involve	 [	<b>√</b>	Subproject land is owned by GoS.
land acquisition?			Susproject land is a wheat by Gob.
Are there any <b>forced labor or child labor</b> risks		<b>√</b>	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		<b>√</b>	No, locals of the area would be given
during the construction of the proposed			preference for skilled and non-skilled jobs.
subproject?			presence for okined and non-skined jobs.
Will <b>local labor</b> be used for the proposed	<b>√</b>		Yes, locals of the area will be given
subproject construction activities?	,		preference first.
		<b>√</b>	Rehabilitation works will be done for
Will there be any temporary or permanent		*	i .
<b>displacement</b> as a result of the proposed subproject construction or operation activities?			existing utilities that exist in a demarcated
subproject construction or operation activities?	./		Minor imports only during construction
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>	

intervention activities, particularly during the construction phase?			
Are the proposed subproject activities likely to have <b>impacts on important religious/cultural heritage sites</b> ?		<b>√</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?	✓		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.)	<b>√</b>		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 (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Chak No- 3&4 Water Supply Scheme Coordinates: (Taluka Sanghar) 26° 8'14.91"N 68°57'29.39"E

Screening Question	Yes	No	Remarks		
PHYSICAL ENVIRONMENT					
Will the proposed subproject activities pose the		✓	No such activity will take place that causes		
risk of clearance of vegetation that may result in			this risk.		
an increase in the level of suspended solids					
washing into nearby water bodies?					
Will the proposed subproject activities pose a risk		✓	The risk of contaminating drinking water		
of contaminating drinking water sources due to			sources would be short-term as the		
construction activities?			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		✓	No, as such no pollution sources have		
supply network?			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	✓		Yes, flood and improper maintenance are		
drainage network? Or Is it affected by flood?			the potential sources of destruction of		
		ļ	drainage network		
Will the proposed subproject interventions <b>deplete</b>		✓	Water from tankers and bowsers will be		
groundwater because of the water used during			utilized during construction.		
rehabilitation activities?	/	ļ			
Will the proposed subproject interventions result	✓		Negligible impacts will be posed only		
in an increase in <b>ambient air pollution</b> , including			during the construction phase that will be		
chemical and particulate matter due to the			mitigated.		
construction and operation of related machinery?	·····	ļ	N. 1: 311 - 31 - 1		
Will the proposed subproject interventions result in an increase in <b>ambient noise levels</b> and	٧		Negligible impacts will be posed only		
vibrations due to the operation of construction			during the construction phase that will be mitigated.		
machinery/vehicles?			initigated.		
Will these ambient noise levels be beyond the		<b>√</b>	No, proper implementation of mitigations		
specifications in the <b>SEQS</b> ?			and maintenance of equipment, and		
specifications in the object.			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.		
L	<u> </u>	. <u>i.</u>			

Will the proposed subproject interventions result	<b>√</b>		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
THE LITTER OF THE SECTION OF THE SEC			safe disposal.
Will the proposed subproject interventions result		<b>√</b>	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)?			it would not increase neutri risks.
Are the proposed subproject interventions being		<b>√</b>	The Subproject area does not come under
implemented in an area with <b>high natural hazard</b>			the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)			the eategory of high hazard risk.
ECOLOGIC.	i AL EN	VIRON	MENT
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 settlements.
Will any rehabilitation work be located in areas		<b>√</b>	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	<b>√</b>		Yes, A canal is flowing on western side at
located on or near sensitive environmental	Ť		a distance of 1.3 km whereas, Nara Canal
areas, including national parks and protected			and wetland complex Chotiari Reserve is
areas?			5.1 km away.
Are the proposed subproject interventions		<b>√</b>	Fauna of urban nature is found around
activities likely to pose risks to any <b>endangered</b>			subproject area that comes under the least
species?			concern status of the IUCN Red List.
SOCIAL	ENVIR	ONME	
Will the proposed subproject activities involve			Subproject land is owned by GoS.
land acquisition?		ľ	Supproject 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			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.
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 <b>traffic-related issues</b>	✓		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		✓	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 issues		✓	No, the subproject area is situated in an
at the proposed subproject sites?			urban settlement and on government-
			owned land.
Has stakeholder engagement taken place in the	✓		Community requested to resolve the
proposed subproject areas?			specific health and hygiene challenges in
			the community due to stagnant water.
Were vulnerable groups involved in stakeholder	✓		Yes, some female members shared
consultations? (e.g., women, minorities,			hygiene and health issues due to the
economically disadvantaged individuals, etc.)			unavailability of a drainage network
			especially during monsoon and after it.

Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Chak No-5&8 Water Supply Scheme Coordinates:
(Taluka Sanghar) 26° 7'5.29"N 68°53'2.63"E

Screening Question	Yes	No	Remarks
PHYSICAL	ENVII	RONM	ENT
Will the proposed subproject activities pose the risk	[	✓	No such activity will take place that causes
of clearance of vegetation that may result in an			the disposal of suspended solids in nearby
increase in the level of suspended solids washing			water bodies
into nearby water bodies?			
Will the proposed subproject interventions pose a		✓	The risk of contaminating drinking water
risk of contaminating drinking water sources due			sources would be short-term as the primary
to construction activities?			objective of water supply and drainage
			scheme rehabilitation work is to
			rehabilitate the existing system and its
			associated facilities.
Is there any potential pollution source in water		✓	No, as such no pollution sources have been
supply network?			identified but due to flood existing
			infrastructure has been affected causes
			pollution in drinking water supply.
Is there any potential source that can damage	✓		Yes, flood and improper maintenance are
drainage network? Or Is it affected by flood?			the potential sources of destruction of
			drainage network
Will the proposed subproject interventions <b>deplete</b>		✓	Water from tankers and bowsers will be
groundwater because of the water used during			utilized during construction.
rehabilitation activities?	<u> </u>		
Will the proposed subproject interventions result in	✓		negligible impacts only during
an increase in ambient air pollution, including			construction
chemical and particulate matter due to the			
construction and operation of related machinery?			
Will the proposed subproject interventions result in	✓		Negligible impacts only during
an increase in <b>ambient noise levels</b> and vibrations			construction
due to the operation of construction			
machinery/vehicles?			
Will these ambient noise levels be beyond the		✓	No, proper implementation of mitigations
specifications in the <b>SEQS</b> ?			and maintenance of equipment, and
			machinery will be done to keep levels
	<u></u>		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	İ	✓	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	<u> </u>	✓	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 conversion of natural			conversion of natural habitat as it will only
habitats?			upgrade the existing damaged utilities.
Will any proposed subproject interventions be	✓		Yes, a canal is flowing on southern side at
located on or near sensitive environmental areas,			a distance of 2.2 km.
including national parks and protected areas?			
Are the proposed subproject interventions activities	<b> </b>	✓	Fauna of urban nature is found around
likely to pose risks to any <b>endangered species?</b>			subproject area that comes under the least
gg			concern status of the IUCN Red List.
SOCIAL E	NVIRO	NME	L
	[	<b>√</b>	Subproject land is owned by GoS.
Will the proposed subproject activities involve <b>land</b>	: :	-	
Will the proposed subproject activities involve land acquisition?		·	3
acquisition?		√	There would not be any forced or child
acquisition?  Are there any forced labor or child labor risks			There would not be any forced or child
acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties			There would not be any forced or child labor risk as the contractor is bound to hire
acquisition?  Are there any forced labor or child labor risks			There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or
acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?			There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.
acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?  Is labor influx (outside labor force) expected		·····	There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.  No, locals of the area would be given
acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?  Is labor influx (outside labor force) expected during the construction of the proposed subproject?	<b>√</b>	·····	There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.  No, locals of the area would be given preference for skilled and non-skilled jobs.
acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?  Is labor influx (outside labor force) expected	<b>√</b>	·····	There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.  No, locals of the area would be given preference for skilled and non-skilled jobs.  Yes, locals of the area will be given
acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?  Is labor influx (outside labor force) expected during the construction of the proposed subproject?  Will local labor be used for the proposed subproject construction activities?	<b>~</b>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.  No, locals of the area would be given preference for skilled and non-skilled jobs.  Yes, locals of the area will be given preference first.
acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?  Is labor influx (outside labor force) expected during the construction of the proposed subproject? Will local labor be used for the proposed subproject construction activities?  Will there be any temporary or permanent	<b>*</b>	<b>√</b>	There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.  No, locals of the area would be given preference for skilled and non-skilled jobs.  Yes, locals of the area will be given
acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?  Is labor influx (outside labor force) expected during the construction of the proposed subproject?  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	<b>√</b>	<b>√</b>	There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.  No, locals of the area would be given preference for skilled and non-skilled jobs.  Yes, locals of the area will be given preference first.  Rehabilitation works will be done for
acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?  Is labor influx (outside labor force) expected during the construction of the proposed subproject? 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>V</b>	<b>√</b>	There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.  No, locals of the area would be given preference for skilled and non-skilled jobs.  Yes, locals of the area will be given preference first.  Rehabilitation works will be done for existing utilities which exist in a demarcated area.
acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?  Is labor influx (outside labor force) expected during the construction of the proposed subproject?  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	<b>√</b>	<b>√</b>	There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.  No, locals of the area would be given preference for skilled and non-skilled jobs.  Yes, locals of the area will be given preference first.  Rehabilitation works will be done for existing utilities which exist in a
acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?  Is labor influx (outside labor force) expected during the construction of the proposed subproject?  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 as a result of the proposed subproject intervention	<b>*</b>	<b>√</b>	There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.  No, locals of the area would be given preference for skilled and non-skilled jobs.  Yes, locals of the area will be given preference first.  Rehabilitation works will be done for existing utilities which exist in a demarcated area.
acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?  Is labor influx (outside labor force) expected during the construction of the proposed subproject?  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	<b>*</b>	<b>√</b>	There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.  No, locals of the area would be given preference for skilled and non-skilled jobs.  Yes, locals of the area will be given preference first.  Rehabilitation works will be done for existing utilities which exist in a demarcated area.
acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?  Is labor influx (outside labor force) expected during the construction of the proposed subproject?  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 as a result of the proposed subproject intervention activities, particularly during the construction	<b>V</b>	<b>√</b>	There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.  No, locals of the area would be given preference for skilled and non-skilled jobs.  Yes, locals of the area will be given preference first.  Rehabilitation works will be done for existing utilities which exist in a demarcated area.
acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?  Is labor influx (outside labor force) expected during the construction of the proposed subproject?  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 as a result of the proposed subproject intervention activities, particularly during the construction phase?	<b>*</b>	✓	There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.  No, locals of the area would be given preference for skilled and non-skilled jobs.  Yes, locals of the area will be given preference first.  Rehabilitation works will be done for existing utilities which exist in a demarcated area.  Minor impacts only during construction.
acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?  Is labor influx (outside labor force) expected during the construction of the proposed subproject?  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 as a result of the proposed subproject intervention activities, particularly during the construction phase?  Are the proposed subproject activities likely to have	<b>√</b>	✓	There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.  No, locals of the area would be given preference for skilled and non-skilled jobs.  Yes, locals of the area will be given preference first.  Rehabilitation works will be done for existing utilities which exist in a demarcated area.  Minor impacts only during construction.

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.

Name of Sub project: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Sanghar Urban Water Supply Scheme Coordinates:

(Taluka Sanghar) 26° 2'13.01"N 68°57'45.78"E

Screening Question	Yes	No	Remarks
PHYSICAL	ENVI	RONMI	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?		<b>V</b>	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?		<b>√</b>	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 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 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	<b>√</b>	
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)?		10 11 0 01 0 11 0
Are the proposed subproject interventions being	<b>✓</b>	The Subproject area does not come under
implemented in an area with <b>high natural hazard</b>		the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)		the category of high hazard risk.
ECOLOGICAL		ONMENT
Will the proposed subproject interventions	✓	
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
Would promote the control of natural natural		upgrade the existing damaged utilities.
Will any proposed subproject interventions be	<b>✓</b>	· · · · · · · · · · · · · · · · · · ·
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
intery to pose risks to any changered species.		concern status of the IUCN Red List.
SOCIAL EN		
Will the proposed subproject activities involve land	· · · · · · · · · · · · · · · · · · ·	
acquisition?		Supproject fama 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	✓	
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	<b>√</b>	
<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		1
activities, particularly during the construction		
phase?		
Are the proposed subproject activities likely to have	✓	No, as the rehabilitation work involves the
impacts on important religious/cultural heritage		
impacts on important religious/cultural heritage sites?		upgradation or restoration of existing 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 Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Sanghar City Old Scheme (Taluka Coordinates: Sanghar)

Sanghar)

Sanghar City Old Scheme (Taluka Coordinates: Sanghar)

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?		<b>√</b>	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?		<b>√</b>	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?	<b>√</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?	<b>√</b>		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?	<b>√</b>		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 machinery will be done to keep levels within limits.		
Will the proposed subproject activities lead to increased soil erosion?		✓	Rehabilitation works do not involve any activity that will increase soil erosion		

	T	
Will the proposed subproject interventions	<b>V</b>	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.
natural hazard risk? (e.g., floods,		
earthquakes, droughts, etc.)		
• • • • • • • • • • • • • • • • • • • •	ICAL ENVI	RONMENT
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		urban settlements.
services?		
	<b> </b>	Dahahilitation mode does not be but d
Will any rehabilitation work be located in areas	✓	Rehabilitation work does not include the
that would promote the <b>conversion of natural</b> habitats?		conversion of natural habitat as it will only
	<b></b>	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
	<b>'</b>	· •
activities likely to pose risks to any	ľ	subproject area that comes under the least
	ľ	: I
activities likely to pose risks to any endangered species?	AL ENVIRO	subproject area that comes under the least concern status of the IUCN Red List.
activities likely to pose risks to any endangered species?		subproject area that comes under the least concern status of the IUCN Red List.
activities likely to pose risks to any endangered species?  SOCIA	AL ENVIRO	subproject area that comes under the least concern status of the IUCN Red List.  NMENT
activities likely to pose risks to any endangered species?  SOCIA  Will the proposed subproject activities involve	AL ENVIRO	subproject area that comes under the least concern status of the IUCN Red List.  NMENT
activities likely to pose risks to any endangered species?  SOCIA  Will the proposed subproject activities involve land acquisition?	AL ENVIRO	subproject area that comes under the least concern status of the IUCN Red List.  NMENT  Subproject land is owned by GoS.
activities likely to pose risks to any endangered species?  SOCIA  Will the proposed subproject activities involve land acquisition?  Are there any forced labor or child labor risks	AL ENVIRO	subproject area that comes under the least concern status of the IUCN Red List.  NMENT  Subproject land is owned by GoS.  There would not be any forced or child labor
activities likely to pose risks to any endangered species?  SOCIA  Will the proposed subproject activities involve land acquisition?  Are there any forced labor or child labor risks associated with contractors or other third	AL ENVIRO	subproject area that comes under the least concern status of the IUCN Red List.  NMENT  Subproject land is owned by GoS.  There would not be any forced or child labor risk as the contractor is bound to hire only those
activities likely to pose risks to any endangered species?  SOCIA  Will the proposed subproject activities involve land acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?	AL ENVIRO	subproject area that comes under the least concern status of the IUCN Red List.  NMENT  Subproject land is owned by GoS.  There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.
activities likely to pose risks to any endangered species?  SOCIA  Will the proposed subproject activities involve land acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?  Is labor influx (outside labor force) expected	AL ENVIRO  ✓	subproject area that comes under the least concern status of the IUCN Red List.  NMENT  Subproject land is owned by GoS.  There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.  No, locals of the area would be given
activities likely to pose risks to any endangered species?  SOCIA  Will the proposed subproject activities involve land acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?  Is labor influx (outside labor force) expected during the construction of the proposed	AL ENVIRO  ✓	subproject area that comes under the least concern status of the IUCN Red List.  NMENT  Subproject land is owned by GoS.  There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.
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activities likely to pose risks to any endangered species?  SOCIA  Will the proposed subproject activities involve land acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?  Is labor influx (outside labor force) expected during the construction of the proposed subproject?  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?	AL ENVIRO	subproject area that comes under the least concern status of the IUCN Red List.  NMENT  Subproject land is owned by GoS.  There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.  No, locals of the area would be given preference for skilled and non-skilled jobs.  Yes, locals of the area will be given preference first.  Rehabilitation works will be done for existing utilities which exist in a demarcated area.
activities likely to pose risks to any endangered species?  SOCIA  Will the proposed subproject activities involve land acquisition?  Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?  Is labor influx (outside labor force) expected during the construction of the proposed subproject?  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	AL ENVIRO	subproject area that comes under the least concern status of the IUCN Red List.  NMENT  Subproject land is owned by GoS.  There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.  No, locals of the area would be given preference for skilled and non-skilled jobs.  Yes, locals of the area will be given preference first.  Rehabilitation works will be done for existing
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Are the proposed subproject activities likely to have <b>impacts on important religious/cultural</b>		✓	No, as the rehabilitation work involves the upgradation or restoration of existing facilities.
heritage sites?			
Have there been any past security-related		✓	No, the subproject area is situated in an urban
<b>issues</b> at the proposed subproject sites?			settlement and on government-owned land.
Has stakeholder engagement taken place in	✓		The community pointed out that drainage
the proposed subproject areas?			networks are not available and if available are
			in bad condition or blocked.
Were <b>vulnerable groups</b> involved in	✓		Yes, women shared that stagnant water or
stakeholder consultations? (e.g., women,			wastewater causes skin irritations and other
minorities, economically disadvantaged			diseases.
individuals, etc.)			

Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

**Subproject Location:** Sanghar, Sindh

Schemes Location: Kandairi Urban Water Supply Scheme Coordinates:

(Taluka Sanghar) 25°48'2.95"N 69° 4'17.95"E

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?		<b>√</b>	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?		<b>√</b>	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?	<b>√</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?		<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?	<b>~</b>		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?	<b>√</b>		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 machinery will be done to keep levels within limits.			
Will the proposed subproject activities lead to increased soil erosion?		✓	Rehabilitation works do not involve any activity that will increase soil erosion.			

Will the proposed subproject interventions	<b>√</b>	[	Less quantity of debris and construction
result in the generation of hazardous and/or	*		waste will be generated which will be handed
non-hazardous waste?			over to the waste contractor for safe disposal.
Will the proposed subproject interventions		<b>√</b>	Workers from nearby localities will be
result in potentially increased health risks for		ľ	commuted daily for a specific duration so it
subproject workers and communities (e.g.,			would not increase health risks.
communicable diseases)?			would not increase health risks.
Are the proposed subproject interventions		<b>√</b>	The Subproject area does not come under the
being implemented in an area with <b>high</b>		•	category of high hazard risk.
natural hazard risk? (e.g., floods,			Category of high hazard fisk.
earthquakes, droughts, etc.)			
ECOLOG	ICAI F	NVIR	NMENT
		/ / / / / / / / / / / / / / / / / / /	.,
Will the proposed subproject interventions		Y	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?	<u>.</u>		D 1 127 C 1 1 2
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,		upgrade the existing damaged utilities.
Will any proposed subproject interventions be	<b>~</b>		Yes, a canal, Ban Waah is flowing on eastern
located on or near sensitive environmental			side at a distance of 152 m.
areas, including national parks and protected			
areas?			
Are the proposed subproject interventions		<b>√</b>	Fauna of urban nature is found around
activities likely to pose risks to any			subproject area that comes under the least
endangered species?	<u> </u>		concern status of the IUCN Red List.
50021	L ENV	IRON	MENT
Will the proposed subproject activities involve		✓	Subproject land is owned by GoS.
land acquisition?		ļ <u>.</u>	
Are there any <b>forced labor or child labor</b> risks		<b>~</b>	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 <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	✓		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?	<u> </u>		area.
Are there expected to be any traffic-related	✓		Minor impacts only during construction.
issues as a result of the proposed subproject			Proper mitigations must be implemented so
intervention activities, particularly during the			that social receptors would not get disturbed.
construction phase?			

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		✓	No, the subproject area is situated in an urban
<b>issues</b> at the proposed subproject sites?			settlement and on government-owned land.
Has stakeholder engagement taken place in	✓		Community requested to provide water
the proposed subproject areas?			supply lines and drainage network where it is
			not available.
Were <b>vulnerable groups</b> involved in	✓		Yes, some female members shared hygiene
stakeholder consultations? (e.g., women,			and health issues due to the unavailability of
minorities, economically disadvantaged			a drainage network especially during
individuals, etc.)			monsoon and after it.

Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

**Subproject Location:** Sanghar, Sindh

Schemes Location:

Birani Urban Water Supply Scheme

Coordinates:

(Taluka Sanghar) 25°47'2.91"N 68°47'22.05"E

**Date** 5/9/2023

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?		<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?		<b>√</b>	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?		<b>√</b>	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 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> ?		<b>√</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		✓	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		<b>√</b>	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)?			10 110 110 110 110 110 110 110 110 110
Are the proposed subproject interventions being		<b>√</b>	The Subproject area does not come under
implemented in an area with <b>high natural hazard</b>			the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)			the eneggity of high hazard risk.
ECOLOGICAL	, ENV	IRON	<u>:</u>
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?			
Will any rehabilitation work be located in areas that		<b>√</b>	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 nationals.			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		<b>√</b>	Fauna of urban nature is found around
likely to pose risks to any <b>endangered species?</b>		·	subproject area that comes under the least
inkery to pose risks to any changered species.			concern status of the IUCN Red List.
SOCIAL EN	JVIR	ONME	±
Will the proposed subproject activities involve land	\ \ 11\\	✓	Subproject land is owned by GoS.
acquisition?		·	Subproject land 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		<b>√</b>	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	<b>√</b>		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>	<b>√</b>		Minor impacts only during construction.
as a result of the proposed subproject intervention			and the state of t
activities, particularly during the construction			
phase?			
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
impacts on important religious/cultural heritage sites?			upgradation or restoration of existing 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 Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Jam Nawaz Ali Urban Water Supply Coordinates:
Scheme -1 (Taluka Sanghar) 25°46'50.01"N 68°51'29.53"E

**Date** 5/9/2023

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?		<b>√</b>	No such activity will take place that causes this risk.
Will the proposed subproject activities pose a risk of contaminating drinking water sources due to construction activities?		<b>√</b>	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?		<b>√</b>	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 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 soil erosion?		<b>√</b>	Rehabilitation works do not involve any activity that will increase soil erosion.
Will the proposed subproject interventions result in the generation of hazardous and/or non- hazardous waste?	<b>√</b>		Less quantity of debris and construction waste will be generated which will be handed over to the waste contractor for safe disposal.
Will the proposed subproject interventions result in potentially increased health risks for <b>subproject workers and communities</b> (e.g., communicable diseases)?		✓	Workers from nearby localities will be commuted daily for a specific duration so it would not increase health risks.
Are the proposed subproject interventions being implemented in an area with <b>high natural hazard risk</b> ? (e.g., floods, earthquakes, droughts, etc.)		<b>√</b>	The Subproject area does not come under the category of high hazard risk.
ECOLOGICA	L EN	VIRON	MENT
Will the proposed subproject interventions potentially cause any adverse impacts on <b>habitats</b> , <b>ecosystems</b> , and/or ecosystem services?		<b>√</b>	No, as it will be limited to the specified areas of urban settlements.
Will any rehabilitation work be located in areas that would promote the <b>conversion of natural habitats</b> ?		<b>√</b>	Rehabilitation work does not include the conversion of natural habitat as it will only upgrade the existing damaged utilities.
Will any proposed subproject interventions be located <b>on or near sensitive environmental areas</b> , including national parks and protected areas?	✓		Yes, a canal is flowing on western side at a distance of 1.3km.
Are the proposed subproject interventions activities likely to pose risks to any <b>endangered species?</b>		✓	Fauna of urban nature is found around 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 acquisition?		✓	Subproject land is owned by GoS.
Are there any <b>forced labor or child labor</b> risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?  Is <b>labor influx (outside labor force)</b> expected		√ √	There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.  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 construction activities?  Will there be any temporary or permanent displacement as a result of the proposed subproject construction or operation activities?	<b>V</b>	√	Yes, locals of the area will be given preference first.  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?	<b>√</b>		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 impacts on important religious/cultural heritage sites?		✓	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?	<b>√</b>		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.)	<b>√</b>		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: Sanghar, Sindh

Schemes Location: Jam Nawaz Ali Urban Water Supply Coordinates:

Scheme -2 (Taluka Sanghar) 25°46'58.98"N 68°50'55.01"E

**Date** 5/9/2023

Screening Question	Yes	No	Remarks
PHYSICA	L ENV	TRONN	MENT
Will the proposed subproject activities pose the		✓	No such activity will take place that causes
risk of <b>clearance of vegetation</b> that may result in			this risk.
an increase in the level of suspended solids			
washing into nearby water bodies?			
Will the proposed subproject activities pose a		✓	The risk of contaminating drinking water
risk of contaminating drinking water sources			sources would be short-term as the primary
due to construction activities?			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		✓	No, as such no pollution sources have been
supply network?			identified but due to flood existing
			infrastructure has been affected causes
			pollution in drinking water supply.
Is there any potential source that can damage	✓		Yes, flood and improper maintenance are
drainage network? Or Is it affected by flood?			the potential sources of destruction of
			drainage network
Will the proposed subproject interventions		✓	Water from tankers and bowsers will be
<b>deplete groundwater</b> because of the water used			utilized during construction.
during rehabilitation activities?			
Will the proposed subproject interventions result	✓		Negligible impacts will be posed only
in an increase in ambient air pollution,			during the construction phase that will be
including chemical and particulate matter due to			mitigated.
the construction and operation of related			
machinery?			
Will the proposed subproject interventions result	✓		Negligible impacts will be posed only
in an increase in ambient noise levels and			during the construction phase that will be
vibrations due to the operation of construction			mitigated.
machinery/vehicles?			
Will these ambient noise levels be beyond the		✓	No, proper implementation of mitigations
specifications in the <b>SEQS</b> ?			and 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?		<u> </u>	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			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		✓	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.)			
ECOLOGI	CAL EN	VIRON	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 <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	✓		Yes, a canal is flowing on western side at a
located on or near sensitive environmental			distance of 430m.
areas, including national parks and protected			
areas?			
Are the proposed subproject interventions		<b>√</b>	Fauna of urban nature is found around
activities likely to pose risks to any <b>endangered</b>			subproject area that comes under the least
species?			concern status of the IUCN Red List.
SOCIAI	L ENVI	RONMI	ENT
Will the proposed subproject activities involve		✓	Subproject land is owned by GoS.
land acquisition?			1 .3
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 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 <b>labor influx</b> (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?			1
Will <b>local labor</b> be used for the proposed	<b>√</b>	ļ	Yes, locals of the area will be given
subproject construction activities?			preference first.
Will there be any temporary or permanent		<b>√</b>	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 <b>traffic-related</b>	/	<b></b>	Minor impacts only during construction.
	,		Proper mitigations must be implemented so
issues as a result of the proposed subproject	<u> </u>	İ	1 Toper mugations must be implemented so

intervention activities, particularly during the construction phase?			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?	<b>√</b>		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.)	<b>√</b>		Yes. They were concerned about health and hygiene issues due to unavailability or improper supply of water.

Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

**Subproject Location:** Sanghar, Sindh

Schemes Location: Daim Khan Dhamrah Water Supply Coordinates:

Scheme (Taluka Shahdad Pur) 26°10'27.20"N 68°35'43.36"E

**Date** 6/9/2023

Screening Question	Yes	No	Remarks
PHYSICAL	ENVI	RONN	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?		✓	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?		<b>√</b>	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?		<b>√</b>	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 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 soil erosion?		✓	Rehabilitation works do not involve any activity that will increase soil erosion.
Will the proposed subproject interventions result in	<b>√</b>		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.)			
ECOLOGICAL ENVIRONMENT			
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?		<u> </u>	
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
		<u> </u>	upgrade the existing damaged utilities.
Will any proposed subproject interventions be	✓		Yes, a canal is flowing on Southwestern side
located on or near sensitive environmental areas,			at a distance of 1.4km.
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
		<u> </u>	concern status of the IUCN Red List.
SOCIAL ENVIRONMENT			
Will the proposed subproject activities involve land		✓	Subproject land is owned by GoS.
acquisition?		ļ	
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
<b>displacement</b> 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>	٧		Minor impacts only during construction.
as a result of the proposed subproject intervention activities, particularly during the construction			Proper mitigations must be implemented so that social receptors would not get
phase?			disturbed.
рнаж		<u>:</u>	uistarucu.

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 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 SchemesSector:Public Health Engineering Department (PHED)Subproject Location:Sanghar, SindhSchemes Location:Amanullah Dahri Water Supply Scheme (Taluka Shahdad Pur)Coordinates: 25°51'6.72"N 68°37'14.24"EDate6/9/2023

Screening Question	Yes	No	Remarks
PHYSICAL	ENVIR	ONMI	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?		<b>√</b>	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?		<b>√</b>	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 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?	<b>√</b>		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 machinery will be done to keep levels within limits.

Will the proposed subproject activities lead to increased soil erosion?  Will the proposed subproject interventions result in the generation of hazardous and/or nonhazardous waste?  Will the proposed subproject interventions result in potentially increased health risks for subproject workers and communities (e.g., communicable diseases)?  Are the proposed subproject interventions being implemented in an area with high natural hazard risk? (e.g., floods, earthquakes, droughts, etc.)  ECOLOGICAL ENVIRONMENT  Will the proposed subproject interventions potentially cause any adverse impacts on habitats, ecosystems, and/or ecosystem services?  Will any rehabilitation work be located in areas that would promote the conversion of natural habitats?  Will any proposed subproject interventions be located on or near sensitive environmental areas, including national parks and protected areas?  Rehabilitation works do not involve any activity that will increase soil erosion  Less quantity of debris and construction waste will be generated which will be handed over to the waste contractor.  Workers from nearby localities will be communited daily for a specific duration so it would not increase health risks.   **The Subproject area does not come under the category of high hazard risk.**  **No, as it will be limited to the specified areas of urban settlements.**  **Rehabilitation work does not include the conversion of natural habitat as it will only upgrade the existing damaged utilities.**  **Yes, a natural lake is flowing on eastern side at a distance of 729mwhereas, a canal is flowing on western side at a distance of 2.24 km.**
Will the proposed subproject interventions result in the generation of hazardous and/or nonhazardous waste?  Will the proposed subproject interventions result in potentially increased health risks for subproject workers and communities (e.g., communicable diseases)?  Are the proposed subproject interventions being implemented in an area with high natural hazard risk? (e.g., floods, earthquakes, droughts, etc.)  ECOLOGICAL ENVIRONMENT  Will the proposed subproject interventions potentially cause any adverse impacts on habitats, ecosystems, and/or ecosystem services?  Will any rehabilitation work be located in areas that would promote the conversion of natural habitats?  Will any proposed subproject interventions be located on or near sensitive environmental areas, including national parks and protected areas?  Less quantity of debris and construction waste will be generated which will be handed over to the waste contractor.  Workers from nearby localities will be communicable dially for a specific duration so it would not increase health risks.  The Subproject area does not come under the category of high hazard risk.  V No, as it will be limited to the specified areas of urban settlements.  Y Rehabilitation work does not include the conversion of natural habitats as it will only upgrade the existing damaged utilities.  Yes, a natural lake is flowing on eastern side at a distance of 729mwhereas, a canal is flowing on western side at a distance of 2.24 km.
the generation of hazardous and/or non-hazardous waste?  Will the proposed subproject interventions result in potentially increased health risks for subproject workers and communities (e.g., communicable diseases)?  Are the proposed subproject interventions being implemented in an area with high natural hazard risk? (e.g., floods, earthquakes, droughts, etc.)  ECOLOGICAL ENVIRONMENT  Will the proposed subproject interventions potentially cause any adverse impacts on habitats, ecosystems, and/or ecosystem services?  Will any rehabilitation work be located in areas that would promote the conversion of natural habitats?  Will any proposed subproject interventions be located on or near sensitive environmental areas, including national parks and protected areas?  Will the proposed subproject interventions be handed over to the waste contractor.  Workers from nearby localities will be commuted daily for a specific duration so it would not increase health risks.  The Subproject area does not come under the category of high hazard risk.  Yon, as it will be limited to the specified areas of urban settlements.  Your Rehabilitation work does not include the conversion of natural habitats?  Yes, a natural lake is flowing on eastern side at a distance of 2.24 km.
hazardous waste?  Will the proposed subproject interventions result in potentially increased health risks for subproject workers and communities (e.g., communicable diseases)?  Are the proposed subproject interventions being implemented in an area with high natural hazard risk? (e.g., floods, earthquakes, droughts, etc.)  ECOLOGICAL ENVIRONMENT  Will the proposed subproject interventions potentially cause any adverse impacts on habitats, ecosystems, and/or ecosystem services?  Will any rehabilitation work be located in areas that would promote the conversion of natural habitats?  Will any proposed subproject interventions be located on or near sensitive environmental areas, including national parks and protected areas?  handed over to the waste contractor.  Workers from nearby localities will be communited daily for a specific duration so it would not increase health risks.  The Subproject area does not come under the category of high hazard risk.  **V**  No, as it will be limited to the specified areas of urban settlements.  **V**  Rehabilitation work does not include the conversion of natural habitats?  **V**  Rehabilitation work does not include the conversion of natural habitat as it will only upgrade the existing damaged utilities.  **V**  Yes, a natural lake is flowing on eastern side at a distance of 729mwhereas, a canal is flowing on western side at a distance of 2.24 km.
Will the proposed subproject interventions result in potentially increased health risks for <b>subproject workers and communities</b> (e.g., communicable diseases)?  Are the proposed subproject interventions being implemented in an area with <b>high natural hazard risk</b> ? (e.g., floods, earthquakes, droughts, etc.)  ECOLOGICAL ENVIRONMENT  Will the proposed subproject interventions potentially cause any adverse impacts on <b>habitats</b> , <b>ecosystems</b> , and/or ecosystem services?  Will any rehabilitation work be located in areas that would promote the <b>conversion of natural habitats</b> ?  Will any proposed subproject interventions be located <b>on or near sensitive environmental areas</b> , including national parks and protected areas?  Will general the communities of twould not increase health risks.  The Subproject area does not come under the category of high hazard risk.  Young a twill be limited to the specified areas of urban settlements.  Young Rehabilitation work does not include the conversion of natural habitats?  Yes, a natural lake is flowing on eastern side at a distance of 729mwhereas, a canal is flowing on western side at a distance of 2.24 km.
potentially increased health risks for <b>subproject</b> workers and communities (e.g., communicable diseases)?  Are the proposed subproject interventions being implemented in an area with high natural hazard risk? (e.g., floods, earthquakes, droughts, etc.)  ECOLOGICAL ENVIRONMENT  Will the proposed subproject interventions potentially cause any adverse impacts on habitats, ecosystems, and/or ecosystem services?  Will any rehabilitation work be located in areas that would promote the conversion of natural habitats?  Will any proposed subproject interventions be located on or near sensitive environmental areas, including national parks and protected areas?  commuted daily for a specific duration so it would not increase health risks.  The Subproject area does not come under the category of high hazard risk.  Yoo, as it will be limited to the specified areas of urban settlements.  Rehabilitation work does not include the conversion of natural habitat as it will only upgrade the existing damaged utilities.  Yes, a natural lake is flowing on eastern side at a distance of 729mwhereas, a canal is flowing on western side at a distance of 2.24 km.
workers and communities (e.g., communicable diseases)?  Are the proposed subproject interventions being implemented in an area with high natural hazard risk? (e.g., floods, earthquakes, droughts, etc.)  ECOLOGICAL ENVIRONMENT  Will the proposed subproject interventions potentially cause any adverse impacts on habitats, ecosystems, and/or ecosystem services?  Will any rehabilitation work be located in areas that would promote the conversion of natural habitats?  Will any proposed subproject interventions be located on or near sensitive environmental areas, including national parks and protected areas?  iit would not increase health risks.  The Subproject area does not come under the category of high hazard risk.  ✓ No, as it will be limited to the specified areas of urban settlements.  ✓ Rehabilitation work does not include the conversion of natural habitat as it will only upgrade the existing damaged utilities.  ✓ Yes, a natural lake is flowing on eastern side at a distance of 729mwhereas, a canal is flowing on western side at a distance of 2.24 km.
Are the proposed subproject interventions being implemented in an area with high natural hazard risk? (e.g., floods, earthquakes, droughts, etc.)  ECOLOGICAL ENVIRONMENT  Will the proposed subproject interventions potentially cause any adverse impacts on habitats, ecosystems, and/or ecosystem services?  Will any rehabilitation work be located in areas that would promote the conversion of natural habitats?  Will any proposed subproject interventions be located on or near sensitive environmental areas, including national parks and protected areas?  The Subproject area does not come under the category of high hazard risk.  Yoo, as it will be limited to the specified areas of urban settlements.  Rehabilitation work does not include the conversion of natural habitats?  Yes, a natural lake is flowing on eastern side at a distance of 729mwhereas, a canal is flowing on western side at a distance of 2.24 km.
Are the proposed subproject interventions being implemented in an area with high natural hazard risk? (e.g., floods, earthquakes, droughts, etc.)  ECOLOGICAL ENVIRONMENT  Will the proposed subproject interventions potentially cause any adverse impacts on habitats, ecosystems, and/or ecosystem services?  Will any rehabilitation work be located in areas that would promote the conversion of natural habitats?  Will any proposed subproject interventions be located on or near sensitive environmental areas, including national parks and protected areas?  The Subproject area does not come under the category of high hazard risk.  Yon, as it will be limited to the specified areas of urban settlements.  Yound Rehabilitation work does not include the conversion of natural habitat as it will only upgrade the existing damaged utilities.  Yes, a natural lake is flowing on eastern side at a distance of 729mwhereas, a canal is flowing on western side at a distance of 2.24 km.
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Tisk? (e.g., floods, earthquakes, droughts, etc.)  ECOLOGICAL ENVIRONMENT  Will the proposed subproject interventions potentially cause any adverse impacts on habitats, ecosystems, and/or ecosystem services?  Will any rehabilitation work be located in areas that would promote the conversion of natural habitats?  Will any proposed subproject interventions be located on or near sensitive environmental areas, including national parks and protected areas?  ECOLOGICAL ENVIRONMENT  No, as it will be limited to the specified areas of urban settlements.  Rehabilitation work does not include the conversion of natural habitat as it will only upgrade the existing damaged utilities.  Yes, a natural lake is flowing on eastern side at a distance of 729mwhereas, a canal is flowing on western side at a distance of 2.24 km.
Will the proposed subproject interventions potentially cause any adverse impacts on <b>habitats</b> , <b>ecosystems</b> , and/or ecosystem services?  Will any rehabilitation work be located in areas that would promote the <b>conversion of natural habitats</b> ?  Will any proposed subproject interventions be located <b>on or near sensitive environmental areas</b> , including national parks and protected areas?  ECOLOGICAL ENVIRONMENT  No, as it will be limited to the specified areas of urban settlements.  Rehabilitation work does not include the conversion of natural habitat as it will only upgrade the existing damaged utilities.  Yes, a natural lake is flowing on eastern side at a distance of 729mwhereas, a canal is flowing on western side at a distance of 2.24 km.
Will the proposed subproject interventions potentially cause any adverse impacts on <b>habitats</b> , <b>ecosystems</b> , and/or ecosystem services?  Will any rehabilitation work be located in areas that would promote the <b>conversion of natural habitats</b> ?  Will any proposed subproject interventions be located <b>on or near sensitive environmental areas</b> , including national parks and protected areas?  No, as it will be limited to the specified areas of urban settlements.  Rehabilitation work does not include the conversion of natural habitat as it will only upgrade the existing damaged utilities.  Yes, a natural lake is flowing on eastern side at a distance of 729mwhereas, a canal is flowing on western side at a distance of 2.24 km.
potentially cause any adverse impacts on <b>habitats</b> , <b>ecosystems</b> , and/or ecosystem services?  Will any rehabilitation work be located in areas that would promote the <b>conversion of natural habitats</b> ?  Will any proposed subproject interventions be located <b>on or near sensitive environmental areas</b> , including national parks and protected areas?  areas of urban settlements.  Rehabilitation work does not include the conversion of natural habitat as it will only upgrade the existing damaged utilities.  Yes, a natural lake is flowing on eastern side at a distance of 729mwhereas, a canal is flowing on western side at a distance of 2.24 km.
ecosystems, and/or ecosystem services?  Will any rehabilitation work be located in areas that would promote the conversion of natural habitats?  Will any proposed subproject interventions be located on or near sensitive environmental areas, including national parks and protected areas?  Rehabilitation work does not include the conversion of natural habitat as it will only upgrade the existing damaged utilities.  Yes, a natural lake is flowing on eastern side at a distance of 729mwhereas, a canal is flowing on western side at a distance of 2.24 km.
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would promote the <b>conversion of natural habitats</b> ?  Will any proposed subproject interventions be located <b>on or near sensitive environmental areas</b> , including national parks and protected areas?  Conversion of natural habitat as it will only upgrade the existing damaged utilities.  Yes, a natural lake is flowing on eastern side at a distance of 729mwhereas, a canal is flowing on western side at a distance of 2.24 km.
will any proposed subproject interventions be located on or near sensitive environmental areas, including national parks and protected areas?  upgrade the existing damaged utilities.  Yes, a natural lake is flowing on eastern side at a distance of 729mwhereas, a canal is flowing on western side at a distance of 2.24 km.
Will any proposed subproject interventions be ✓ Yes, a natural lake is flowing on eastern located <b>on or near sensitive environmental areas</b> , including national parks and protected areas?  Yes, a natural lake is flowing on eastern side at a distance of 729mwhereas, a canal is flowing on western side at a distance of 2.24 km.
located <b>on or near sensitive environmental areas</b> , including national parks and protected areas? side at a distance of 729mwhereas, a canal is flowing on western side at a distance of 2.24 km.
including national parks and protected areas?  is flowing on western side at a distance of 2.24 km.
2.24 km.
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 ENVIRONMENT
Will the proposed subproject activities involve <b>land</b> ✓ Subproject land is owned by GoS.
acquisition?
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.
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
activities, particularly during the construction

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.)		other diseases.

Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Bagowadadani Water Supply Scheme Coordinates:

(Taluka Tando Adam) 25°52'49.29"N 68°41'23.12"E

**Date** 7/9/2023

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		<b>√</b>	No such activity will take place that causes the disposal of suspended solids in nearby water bodies	
into nearby water bodies?				
Will the proposed subproject interventions pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		<b>√</b>	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?		<b>√</b>	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 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?	<b>√</b>		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?	<b>√</b>		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 machinery will be done to keep levels within limits.	

Will the proposed subproject activities lead to increased soil erosion?		<b>√</b>	Rehabilitation works do not involve any 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 diseases)?			it would not increase health risks.
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.)		<u> </u>	
ECOLOGICA	L ENVI	RONI	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	✓		Yes, two canals are flowing on southern
located on or near sensitive environmental areas,			side at a distance of 113 m and 567 m
including national parks and protected areas?		<u> </u>	respectively.
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
	<u> </u>	<u> </u>	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?		<u>.</u>	
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?		ļ	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?			

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 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.)	<b>√</b>		Yes, women shared that stagnant water or wastewater causes skin irritations and 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 (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Sinjhoro City Urban Water Supply Coordinates:

Scheme (Taluka Sinjhoro) 26° 1'47.92"N 68°48'21.28"E

**Date** 9/9/2023

Screening Question	Yes	No	Remarks
PHYSICAL	ENVIR	ONMI	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?		<b>√</b>	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?		<b>√</b>	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 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?	<b>√</b>		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 machinery will be done to keep levels within limits.

	ks do not involve any
	crease soil erosion
	ebris and construction
	erated which will be
!!!	waste contractor for
safe disposal.	waste contractor for
	rby localities will be
	a specific duration so
workers and communities (e.g., communicable it would not increase	
diseases)?	e neurii 115ks.
• • • • • • • • • • • • • • • • • • • •	a does not come under
implemented in an area with <b>high natural hazard</b> implemented in an area with <b>high natural hazard</b> the category of high	
risk? (e.g., floods, earthquakes, droughts, etc.)	i nazara risk.
ECOLOGICAL ENVIRONMENT	
	mited to the specified
potentially cause any adverse impacts on <b>habitats</b> ,  areas of urban settle	-
ecosystems, and/or ecosystem services?	
	does not include the
	al habitat as it will only
upgrade the existing	•
	wing on northwestern
located <b>on or near sensitive environmental areas</b> , side at a distance of	~
including national parks and protected areas?	070 III.
	ture is found around
	comes under the least
concern status of the	
SOCIAL ENVIRONMENT	
Will the proposed subproject activities involve <b>land</b> Subproject land is o	wned by GoS.
acquisition?	·
Are there any <b>forced labor or child labor</b> risks   There would not be	e any forced or child
	tractor is bound to hire
	ho have valid CNIC or
intervention? are at least 18 years	
	area would be given
	d and non-skilled jobs.
	area will be given
construction activities? preference first.	-
Will there be any <b>temporary or permanent</b> Rehabilitation work	ks will be done for
	t 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	
activities, particularly during the construction	
detrition, particularly during the construction;	

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 urged to provide semi-
proposed subproject areas?			skilled and unskilled jobs for local labor
			first.
Were vulnerable groups involved in stakeholder	✓		Yes, some female members showed their
consultations? (e.g., women, minorities,			reservations about their privacy during
economically disadvantaged individuals, etc.)			construction.

Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Khadro Urban Water Supply Scheme Coordinates:

(Taluka Sinjhoro) 26° 8'39.77"N 68°43'2.29"E

**Date** 9/9/2023

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

Will the proposed subproject activities lead to	Ţ	<b>√</b>	Rehabilitation works do not involve any
increased soil erosion?		ľ	•
		ļ	activity that will increase soil erosion
Will the proposed subproject interventions result in	<b>Y</b>		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 EN	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?	<u>.</u>	<u> </u>	
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	✓		Yes, a canal is flowing on western side at
located on or near sensitive environmental areas,			a distance of 850 m.
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>	<u> </u>	concern status of the IUCN Red List.
SOCIAL E	NVIR	ONME	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
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?		<u> </u>	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 that exist in a demarcated
construction or operation activities?	<u> </u>		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?			

Are the proposed subproject activities likely to have impacts on important religious/cultural heritage sites?		<b>√</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 (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Gul Muhammad Thahim Water Supply Coordinates:

Scheme (Taluka Sinjhoro) 26° 3'36.73"N 68°45'16.44"E

**Date** 9/9/2023

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?					
Will the proposed subproject activities pose a risk of contaminating drinking water sources due to construction activities?		<b>√</b>	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?		<b>√</b>	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 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?	<b>√</b>		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?	<b>√</b>		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 machinery will be done to keep levels within limits.		

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Will the proposed subproject activities lead to		<b>√</b>	Rehabilitation works do not involve any
increased soil erosion?	ļ	ļ	activity that will increase soil erosion
Will the proposed subproject interventions result in	<b>~</b>		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
		<u>.</u>	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	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 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
<b>displacement</b> 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			
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?	<b>√</b>	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.)	<b>√</b>	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 (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Kurkuli Water Supply Scheme (Taluka Coordinates:

Sinjhoro) 25°56'32.25"N 68°48'53.01"E

**Date** 10/9/2023

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?		<b>√</b>	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?		<b>√</b>	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?		<b>√</b>	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 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?	<b>√</b>		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?	<b>√</b>		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 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.
Will the proposed subproject interventions result in		<b>√</b>	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)?			so it would not increase health risks.
Are the proposed subproject interventions being		<b>√</b>	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.)			ander the eategory of high hazard fish.
ECOLOGICA	[	<u>:</u> RONM	<u>:</u>
Will the proposed subproject interventions	E EIVV	<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 settlements.
Will any rehabilitation work be located in areas that		<b>√</b>	Rehabilitation work does not include the
would promote the <b>conversion of natural habitats</b> ?		ľ	conversion of natural habitat as it will
would promote the <b>conversion of natural nabitats</b> :			: I
			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		✓	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 <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 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 Location: Sanghar, Sindh

Schemes Location: Urban Water Supply Scheme Jhol-I Coordinates:

(Taluka Sinjhoro) 25°57′8.85″N 68°53′4.15″E

**Date** 10/9/2023

Screening Question	Yes	No	Remarks		
PHYSICAL ENVIRONMENT					
Will the proposed subproject activities pose the risk		✓	No such activity will take place that causes		
of clearance of vegetation that may result in an			the disposal of suspended solids in nearby		
increase in the level of suspended solids washing			water bodies.		
into nearby water bodies?					
Will the proposed subproject activities pose a risk of		✓	The risk of contaminating drinking water		
contaminating drinking water sources due to			sources would be short-term as the		
construction activities?			primary objective of water supply and		
			drainage scheme rehabilitation work is to		
			rehabilitate the existing system and its		
			associated facilities.		
Is there any potential pollution source in water		✓	No, as such no pollution sources have		
supply network?			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	✓		Yes, flood and improper maintenance are		
drainage network? Or Is it affected by flood?			the potential sources of destruction of		
		<u>.</u>	drainage network		
Will the proposed subproject interventions <b>deplete</b>		✓	Water from tankers and bowsers will be		
<b>groundwater</b> because of the water used during			utilized during construction.		
rehabilitation activities?		<u>.</u>			
Will the proposed subproject interventions result in	✓		Negligible impacts will be posed only		
an increase in <b>ambient air pollution</b> , including			during the construction phase that will be		
chemical and particulate matter due to the			mitigated.		
construction and operation of related machinery?		ļ			
Will the proposed subproject interventions result in	✓		Negligible impacts will be posed only		
an increase in <b>ambient noise levels</b> and vibrations			during the construction phase that will be		
due to the operation of construction			mitigated.		
machinery/vehicles?		ļ			
Will these ambient noise levels be beyond the		<b>V</b>	No, proper implementation of mitigations		
specifications in the <b>SEQS</b> ?			and maintenance of equipment, and		
			machinery will be done to keep levels		
~~~		ļ,	within limits.		
Will the proposed subproject activities lead to		✓	Rehabilitation works do not involve any		
increased soil erosion?		1	activity that will increase soil erosion		

Will the proposed subproject interventions result in	7	Loss quantity of dahmic and construction
Will the proposed subproject interventions result in	<b>'</b>	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.)		
ECOLOGICAL	ENVIRON	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?		,
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 EN	VIRONME	
Will the proposed subproject activities involve land	✓	Subproject land is owned by GoS.
acquisition?		T J
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.
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		minor impacts only during construction.
activities, particularly during the construction		
phase?		
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	<b>v</b>	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	✓	Yes, community was concerned about
proposed subproject areas?		how the maintenance and sustainability of
		drainage schemes will be ensured.
Were vulnerable groups involved in stakeholder	✓	Yes, some female members shared
consultations? (e.g., women, minorities,		hygiene and health issues due to
economically disadvantaged individuals, etc.)		unavailability of drainage network.

Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Urban Water Supply Scheme Jhol-II Coordinates:

(Taluka Sinjhoro) 25°57'55.62"N 68°54'18.15"E

**Date** 10/9/2023

Screening Question	Yes	No	Remarks
PHYSICAL E.	NVIRO	NMEN'	Т
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?		<b>√</b>	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?		<b>√</b>	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?	<b>√</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?		<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?	<b>√</b>		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 machinery will be done to keep levels within limits.

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Will the proposed subproject activities lead to		<b>√</b>	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 hazardous and/or non-hazardous			construction waste will be generated
waste?			which will be handed over to the waste
			contractor for safe disposal.
Will the proposed subproject interventions result in		<b>√</b>	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)?			so it would not increase nearth risks.
Are the proposed subproject interventions being		<b>√</b>	The Subproject area does not come
		•	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	ENVIR	CONME	r
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?			, c
Are the proposed subproject interventions activities		<b>√</b>	Fauna of urban nature is found around
likely to pose risks to any <b>endangered species?</b>			subproject area that comes under the
mery to pose risks to any changered species.			least concern status of the IUCN Red
			List.
SOCIAL EN	VIDON	<u>į</u> IMENIT	LISt.
	VIKON	IVIEINI	: C-1: 11 12 11 C-C
Will the proposed subproject activities involve land acquisition?		Y	Subproject land 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
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		<b>√</b>	No, locals of the area would be given
the construction of the proposed subproject?			preference for skilled and non-skilled
1 or the proposed supproject.			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		<b>√</b>	Rehabilitation works will be done for
<b>displacement</b> as a result of the proposed subproject			existing utilities that exist in a
construction or operation activities?			demarcated area.
construction of operation activities:	<u>:</u>	<u> </u>	domarcatou area.

Are there expected to be any <b>traffic-related issues</b> as	✓		Minor impacts only during
a result of the proposed subproject intervention			construction.
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
sites?			existing 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	✓		Yes, Will the drainage scheme require
proposed subproject areas?			long-term maintenance? How
			sustainability will be ensured?
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.)			unavailability of drainage network.

Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Urban Water Supply Scheme Khipro Coordinates:

(Taluka Khipro) 25°49'26.19"N 69°22'47.11"E

**Date** 11/9/2023

Screening Question	Yes	No	Remarks
PHYSICA	L ENV	IRON	MENT
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 interventions pose a risk of <b>contaminating drinking water sources</b> due to construction activities?		<b>V</b>	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 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?	<b>√</b>		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.

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Will the proposed subproject activities lead to		✓	Rehabilitation works do not involve any
increased soil erosion?		<u> </u>	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 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		<b>1</b>	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,			category of high hazard risk.
droughts, etc.)  ECOLOGIC	CALEN	į	SAIN AFRICE
	CALE	IVIKU	
Will the proposed subproject interventions		<b>V</b>	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?		ļ	
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?		<u> </u>	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 endangered			subproject area that comes under the least
species?			concern status of the IUCN Red List.
SOCIAI	L ENVI	RONN	ENT
Will the proposed subproject activities involve		<b>√</b>	Subproject land is owned by GoS.
land acquisition?			and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
Are there any forced labor or child labor risks		<b>√</b>	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.
		<b>√</b>	<b>4</b>
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.
	./	ļ	Van landa of the area '11 1
Will <b>local labor</b> be used for the proposed	•		Yes, locals of the area will be given
subproject construction activities?		ļ,	preference first.
Will there be any temporary or permanent		✓	Rehabilitation works will be done for existing
displacement as a result of the proposed			utilities which exist in a demarcated area.
subproject construction or operation activities?		ļ	
Are there expected to be any traffic-related	✓		Minor impacts only during construction.
issues as a result of the proposed subproject		<u> </u>	

intervention 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?	<b>√</b>		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.)	<b>√</b>		Yes, women shared that stagnant water or wastewater causes skin irritations and other diseases.

Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Dost Muhammad Hingoro Water Supply Coordinates:

Scheme (Taluka Khipro) 25°51'9.34"N 69°18'21.28"E

**Date** 11/9/2023

Screening Question	Yes	No	Remarks
PHYSICAL E	NVIRO	NME	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 contaminating drinking water sources due to construction activities?		<b>√</b>	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?		<b>√</b>	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 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?	<b>√</b>		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 machinery will be done to keep levels within limits.
Will the proposed subproject activities lead to increased soil erosion?		✓	Rehabilitation works do not involve any activity that will increase soil erosion

Will the proposed subproject interventions result in the generation of hazardous and/or non-hazardous waste?	<b>√</b>		Less quantity of debris and construction waste will be generated which will be handed over to the waste contractor for safe disposal.
Will the proposed subproject interventions result in potentially increased health risks for <b>subproject workers and communities</b> (e.g., communicable diseases)?		<b>√</b>	Workers from nearby localities will be commuted daily for a specific duration so it would not increase health risks.
Are the proposed subproject interventions being implemented in an area with <b>high natural hazard risk</b> ? (e.g., floods, earthquakes, droughts, etc.)		✓	The Subproject area does not come under the category of high hazard risk.
ECOLOGICAL	ENVIR	ONM	ENT
Will the proposed subproject interventions potentially cause any adverse impacts on <b>habitats</b> , <b>ecosystems</b> , and/or ecosystem services?		√	No, as it will be limited to the specified areas of urban settlements.
Will any rehabilitation work be located in areas that would promote the <b>conversion of natural habitats</b> ?		<b>√</b>	Rehabilitation work does not include the conversion of natural habitat as it will only upgrade the existing damaged utilities.
Will any proposed subproject interventions be located on or near sensitive environmental areas, including national parks and protected areas?	<b>√</b>		Yes, a canal is flowing on southwestern side at a distance of 1.3 km.
Are the proposed subproject interventions activities likely to pose risks to any <b>endangered species?</b>		<b>√</b>	Fauna of urban nature is found around subproject area that comes under the least concern status of the IUCN Red List.
SOCIAL EN	VIRON	MEN'	T
Will the proposed subproject activities involve land acquisition?		✓	Subproject land is owned by GoS.
Are there any <b>forced labor or child labor</b> risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?		<b>√</b>	There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.
Is <b>labor influx</b> ( <b>outside labor force</b> ) expected during the construction of the proposed subproject?		<b>√</b>	No, locals of the area would be given preference for skilled and non-skilled jobs.
Will <b>local labor</b> be used for the proposed subproject construction activities?	<b>√</b>		Yes, locals of the area will be given preference first.
Will there be any <b>temporary or permanent displacement</b> as a result of the proposed subproject construction or operation activities?		<b>√</b>	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?	<b>√</b>		Minor impacts only during construction.

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	✓		Will the drainage scheme require long-
proposed subproject areas?			term maintenance? How sustainability
			will be ensured?
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.)			unavailability of drainage network.

Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

**Subproject Location:** Sanghar, Sindh

Schemes Location: Haji Muhammad Laghari Water Supply Coordinates:

Scheme (Taluka Khipro) 25°54'59.16"N 69°13'35.72"E

**Date** 11/9/2023

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 contaminating drinking water sources due to construction activities?		<b>√</b>	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?		<b>√</b>	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 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 soil erosion?		✓	Rehabilitation works do not involve any activity that will increase soil erosion.			

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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	ENV	IRON	i
Will the proposed subproject interventions potentially		✓	No, as it will be limited to the specified
cause any adverse impacts on <b>habitats</b> , <b>ecosystems</b> ,			areas of urban settlements.
and/or ecosystem services?			areas of aroun settlements.
Will any rehabilitation work be located in areas that		<b>√</b>	Rehabilitation work does not include the
		•	: I
would promote the <b>conversion of natural habitats</b> ?			conversion of natural habitat as it will only
Will 1 1 ' ' ' ' ' 1 1 1 1	ļ		upgrade the existing damaged utilities.
Will any proposed subproject interventions be located		✓	No, there are no protected areas situated in
on or near sensitive environmental areas, including			nearby surroundings.
national parks and protected areas?	ļ	ļ	
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
	<u> </u>	<u> </u>	concern status of the IUCN Red List.
SOCIAL EN	VIRC	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 <b>labor influx</b> (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.
Will there be any temporary or permanent	ļ	✓	Rehabilitation works will be done for
<b>displacement</b> 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> as	<b>√</b>	<u> </u>	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
detrities, particularly during the constitution phase:			disturbed.
Are the proposed subproject activities likely to have		<b>√</b>	No, as the rehabilitation work involves the
impacts on important religious/cultural heritage		,	upgradation or restoration of existing
			:
sites?	<u> </u>	<u>.i</u>	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.

Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

**Subproject Location:** Sanghar, Sindh

Schemes Location: Hathungo Water Supply Scheme Coordinates:

(Taluka Khipro) 25°47'26.11"N 69°26'52.58"E

**Date** 12/9/2023

Screening Question	Yes	No	Remarks
PHYSICAL EN	VIRO	NME	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 contaminating drinking water sources due to construction activities?		<b>√</b>	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?		<b>√</b>	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 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?	<b>√</b>		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 SEQS?		<b>√</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 soil erosion?		✓	Rehabilitation works do not involve any activity that will increase soil erosion

Will the proposed subproject interventions result in the generation of hazardous and/or non-hazardous waste?	<b>√</b>		Less quantity of debris and construction waste will be generated which will be handed over to the waste contractor for safe disposal.
Will the proposed subproject interventions result in potentially increased health risks for <b>subproject workers and communities</b> (e.g., communicable diseases)?		<b>√</b>	Workers from nearby localities will be commuted daily for a specific duration so it would not increase health risks.
Are the proposed subproject interventions being implemented in an area with <b>high natural hazard risk</b> ? (e.g., floods, earthquakes, droughts, etc.)		<b>√</b>	The Subproject area does not come under the category of high hazard risk.
ECOLOGICAL E	ENVIR	ONM	ENT
Will the proposed subproject interventions potentially cause any adverse impacts on <b>habitats</b> , <b>ecosystems</b> , and/or ecosystem services?		✓	No, as it will be limited to the specified areas of urban settlements.
Will any rehabilitation work be located in areas that would promote the <b>conversion of natural habitats</b> ?		✓	Rehabilitation work does not include the conversion of natural habitat as it will only upgrade the existing damaged utilities.
Will any proposed subproject interventions be located	✓		Yes, Nara Canal is flowing at a distance
<b>on or near sensitive environmental areas</b> , including national parks and protected areas?			of 282 m.
Are the proposed subproject interventions activities likely to pose risks to any <b>endangered species?</b>		<b>~</b>	Fauna of urban nature is found around subproject area that comes under the least concern status of the IUCN Red List.
SOCIAL ENV	IRON	MEN'	Γ
Will the proposed subproject activities involve land acquisition?		✓	Subproject land is owned by GoS.
Are there any <b>forced labor or child labor</b> risks associated with contractors or other third parties involved in implementing this proposed subproject intervention?		<b>√</b>	There would not be any forced or child labor risk as the contractor is bound to hire only those people who have valid CNIC or are at least 18 years old.
Is <b>labor influx</b> ( <b>outside labor force</b> ) expected during the construction of the proposed subproject?		<b>√</b>	No, locals of the area would be given preference for skilled and non-skilled jobs.
Will <b>local labor</b> be used for the proposed subproject construction activities?	✓		Yes, locals of the area will be given preference first.
Will there be any <b>temporary or permanent 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		✓	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		✓	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.

Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Khahi Water Supply Scheme Coordinates:

(Taluka Khipro) 25°37'46.92"N 69°25'20.42"E

**Date** 12/9/2023

Screening Question	Yes	No	Remarks
PHYSICAL E	NVIRO	NME	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?		<b>√</b>	No such activity will take place that causes this risk.
Will the proposed subproject activities pose a risk of contaminating drinking water sources due to construction activities?		<b>√</b>	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 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?	<b>√</b>		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 machinery will be done to keep levels within limits.
Will the proposed subproject activities lead to increased soil erosion?		✓	Rehabilitation works do not involve any activity that will increase soil erosion

Will the proposed subproject interventions result in the generation of hazardous and/or non-hazardous waste?	<b>√</b>		Less quantity of debris and construction waste will be generated which will be handed over to the waste contractor for safe disposal.
Will the proposed subproject interventions result in potentially increased health risks for <b>subproject</b>		✓	Workers from nearby localities will be commuted daily for a specific duration
workers and communities (e.g., communicable diseases)?			so it would not increase health risks.
Are the proposed subproject interventions being		✓	The Subproject area does not come
implemented in an area with <b>high natural hazard</b>			under the category of high hazard risk.
risk? (e.g., floods, earthquakes, droughts, etc.)  ECOLOGICAL	ENVIR	ONM	ENT
Will the proposed subproject interventions potentially		<b>✓</b>	No, as it will be limited to the specified
cause any adverse impacts on <b>habitats</b> , <b>ecosystems</b> , and/or ecosystem services?			areas of urban settlements.
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 <b>endangered species?</b>			subproject area that comes under the
			least concern status of the IUCN Red List.
SOCIAL EN	VIRON	MEN'	4
Will the proposed subproject activities involve land acquisition?		✓	Subproject land 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
involved in implementing this proposed subproject			hire only those people who have valid
intervention?		<b>√</b>	CNIC or are at least 18 years old.
Is <b>labor influx</b> ( <b>outside labor force</b> ) expected during the construction of the proposed subproject?		Y	No, locals of the area would be given preference for skilled and non-skilled jobs.
Will <b>local labor</b> be used for the proposed subproject construction activities?	<b>√</b>		Yes, locals of the area will be given 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 that exist in a
construction or operation activities?	./		demarcated area.
Are there expected to be any <b>traffic-related issues</b> as a result of the proposed subproject intervention	✓		Minor impacts only during construction.
activities, particularly during the construction phase?			
Are the proposed subproject activities likely to have	<del></del>	✓	No, as the rehabilitation work involves
impacts on important religious/cultural heritage sites?			the upgradation or restoration of existing 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	✓		Stakeholders showed a positive attitude
proposed subproject areas?			and said that it would uplift the socio-
			economic condition of the community as
			the drainage system was very old and
			ineffective.
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 networks especially
			during and after monsoon season.

Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Haji Hussain Rajar/Khani Rajar Water Coordinates:

Supply Scheme (Taluka Khipro) 25°45'54.82"N 69°21'28.14"E

**Date** 12/9/2023

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 contaminating drinking water sources due to construction activities?		<b>~</b>	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?		<b>√</b>	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?	<b>√</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?	<b>√</b>		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 machinery will be done to keep levels within limits.		
Will the proposed subproject activities lead to increased soil erosion?		✓	Rehabilitation works do not involve any activity that will increase soil erosion		

Will the proposed subproject interventions result in	<b>√</b>		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
waste.			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	· <b>†</b>	✓	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	ENVIR	ONM	ENT
Will the proposed subproject interventions potentially		✓	No, as it will be limited to the specified
cause any adverse impacts on <b>habitats</b> , <b>ecosystems</b> ,			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?			, c
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 EN	VIRON	MEN	Γ
Will the proposed subproject activities involve land	<u> </u>	✓	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.
Are there expected to be any <b>traffic-related issues</b> as	✓		Minor impacts only during construction.
a result of the proposed subproject intervention			-
	2		

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?	<b>√</b>		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.)	<b>√</b>		Yes, some female members shared hygiene and health issues due to damaged drainage networks especially during and after monsoon season.

Name of Subproject:Rehabilitation of Damaged Water Supply & Drainage SchemesSector:Public Health Engineering Department (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Kandairi Urban Drainage Scheme Coordinates:

(Taluka Sanghar) 25°47'47.51"N 69° 4'2.54"E

**Date** 4/9/2023

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 contaminating drinking water sources due to construction activities?		<b>~</b>	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?		<b>√</b>	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 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?	<b>√</b>		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 machinery will be done to keep levels within limits.		
Will the proposed subproject activities lead to increased soil erosion?		✓	Rehabilitation works do not involve any activity that will increase soil erosion		

Will the proposed subproject interventions result in	<b>√</b>		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
waste.			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	ENVIR	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 <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	✓	<b>.</b>	Yes, A canal, Ban Waah is flowing on
on or near sensitive environmental areas, including			eastern side at a distance of 581 m.
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'	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 <b>labor influx</b> (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
	<u></u>		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 that exist in a
			demarcated area.
construction or operation activities?	<b></b>	<b></b>	
Are there expected to be any <b>traffic-related issues</b> as	✓		Minor impacts only during construction.
	<b>√</b>		Minor impacts only during construction.

Are the proposed subproject activities likely to have impacts on important religious/cultural heritage sites?		<b>√</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>V</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?	<b>√</b>		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.)	<b>√</b>		Yes, some female members shared hygiene and health issues due to damaged drainage networks especially during and after monsoon season.

Name of	Rehabilitation of Damaged Water Supply & Drainage Schemes		
Subproject:			
Sector:	Public Health Engineering Department (PHED)		
Subproject	Sanghar, Sindh		
<b>Location:</b>			
<b>Schemes Location:</b>	Birani Urban Drainage Scheme	Coordinates:	
	(Taluka Jam Nawaz Ali)	25°47'9.35"N 68°48'15.72"E	
Date	5/9/2023		

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 contaminating drinking water sources due to construction activities?		<b>√</b>	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?		<b>√</b>	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 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?	<b>√</b>		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 SEQS?		✓	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 soil erosion?		✓	Rehabilitation works do not involve any activity that will increase soil erosion		

Will the proposed subproject interventions result in	<b>√</b>		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
waste.			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	· <b>†</b>	✓	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	ENVIR	ONM	ENT
Will the proposed subproject interventions potentially		✓	No, as it will be limited to the specified
cause any adverse impacts on <b>habitats</b> , <b>ecosystems</b> ,			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?			, c
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 EN	VIRON	MEN	Γ
Will the proposed subproject activities involve land	<u> </u>	✓	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.
Are there expected to be any <b>traffic-related issues</b> as	✓		Minor impacts only during construction.
a result of the proposed subproject intervention			-
	2		

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?	<b>√</b>		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.)	<b>√</b>		Yes, some female members shared hygiene and health issues due to damaged drainage networks especially during and after monsoon season.

Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Shahdad Pur Urban Drainage Scheme Coordinates:

(Taluka Shahdad Pur) 25°55'28.88"N 68°36'55.75"E

**Date** 6/9/2023

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 contaminating drinking water sources due to construction activities?		<b>~</b>	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?		<b>√</b>	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 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?	<b>√</b>		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 machinery will be done to keep levels within limits.		
Will the proposed subproject activities lead to increased soil erosion?		✓	Rehabilitation works do not involve any activity that will increase soil erosion		

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

Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Tando Adam Rasheed Colony UDS Coordinates:

(Taluka Tando Adam) 25°46'30.41"N 68°39'27.49"E

**Date** 7/9/2023

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 contaminating drinking water sources due to construction activities?		<b>~</b>	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?		<b>√</b>	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 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?	<b>√</b>		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 machinery will be done to keep levels within limits.		
Will the proposed subproject activities lead to increased soil erosion?		✓	Rehabilitation works do not involve any activity that will increase soil erosion		

Will the proposed subproject interventions result in	<b>√</b>		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
waste.			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	· <b>†</b>	✓	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	ENVIR	ONM	ENT
Will the proposed subproject interventions potentially		✓	No, as it will be limited to the specified
cause any adverse impacts on <b>habitats</b> , <b>ecosystems</b> ,			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?			, c
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 EN	VIRON	MEN	Γ
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?			demarcated area.
Are there expected to be any <b>traffic-related issues</b> as	✓		Minor impacts only during construction.
a result of the proposed subproject intervention			-
	2		

Are the proposed subproject activities likely to have impacts on important religious/cultural heritage sites?		<b>√</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>V</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?	<b>√</b>		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.)	<b>√</b>		Yes, some female members shared hygiene and health issues due to damaged drainage networks especially during and after monsoon season.

Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

Sector: Public Health Engineering Department (PHED)

Subproject Location: Sanghar, Sindh

Schemes Location: Soomar Khash kheli Drainage Scheme Coordinates:

(Taluka Tando Adam) 25°53'28.03"N 68°32'22.29"E

**Date** 7/9/2023

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		✓	No such activity will take place that causes this risk.			
nearby water bodies?						
Will the proposed subproject activities pose a risk of contaminating drinking water sources due to construction activities?		<b>√</b>	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?		<b>√</b>	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 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?	<b>√</b>		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 machinery will be done to keep levels within limits.			
Will the proposed subproject activities lead to increased soil erosion?		✓	Rehabilitation works do not involve any activity that will increase soil erosion			

Will the proposed subproject interventions result in the generation of hazardous and/or non-hazardous waste?	✓		Less quantity of debris and construction waste will be generated which will be handed over to the waste contractor for safe disposal.
Will the proposed subproject interventions result in potentially increased health risks for <b>subproject workers and communities</b> (e.g., communicable diseases)?		✓	Workers from nearby localities will be commuted daily for a specific duration so it would not increase health risks.
Are the proposed subproject interventions being implemented in an area with <b>high natural hazard risk</b> ? (e.g., floods, earthquakes, droughts, etc.)		<b>V</b>	The Subproject area does not come under the category of high hazard risk.
ECOLOGICAL	ENVIR	ONM	ENT
Will the proposed subproject interventions potentially		<b>√</b>	No, as it will be limited to the specified
cause any adverse impacts on <b>habitats</b> , <b>ecosystems</b> , and/or ecosystem services?			areas of urban settlements.
Will any rehabilitation work be located in areas that would promote the <b>conversion of natural habitats</b> ?		<b>√</b>	Rehabilitation work does not include the conversion of natural habitat as it will only upgrade the existing damaged utilities.
Will any proposed subproject interventions be located	✓		Yes, Rohri Canal is flowing eastern side
on or near sensitive environmental areas, including national parks and protected areas?			at a distance of 43 m.
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 acquisition?		✓	Subproject land 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
involved in implementing this proposed subproject intervention?			hire only those people who have valid CNIC or are at least 18 years old.
Is <b>labor influx (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 jobs.
Will <b>local labor</b> be used for the proposed subproject construction activities?	✓		Yes, locals of the area will be given preference first.
Will there be any <b>temporary or permanent 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?	<b>√</b>		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?	<b>√</b>		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.)	<b>√</b>		Yes, some female members shared hygiene and health issues due to damaged drainage networks especially during and after monsoon season.

Name of Subproject: Rehabilitation of Damaged Water Supply & Drainage Schemes

**Sector:** Public Health Engineering Department (PHED)

**Subproject Location:** Sanghar, Sindh

Schemes Location: Urban Drainage Scheme Khipro (Taluka Coordinates:

Khipro) 25°49'48.89"N 69°22'48.35"E

**Date** 11/9/2023

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 contaminating drinking water sources due to construction activities?		<b>~</b>	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?		<b>√</b>	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?	<b>√</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?	<b>√</b>		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 machinery will be done to keep levels within limits.		
Will the proposed subproject activities lead to increased soil erosion?		✓	Rehabilitation works do not involve any activity that will increase soil erosion		

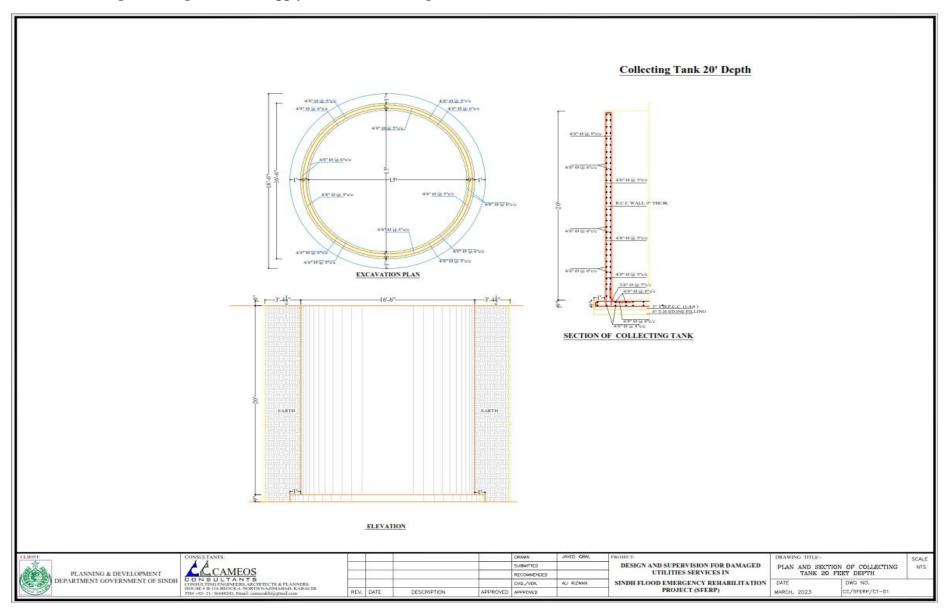
Will the proposed subproject interventions result in the generation of hazardous and/or non-hazardous waste?	√		Less quantity of debris and construction waste will be generated which will be handed over to the waste contractor for safe disposal.		
Will the proposed subproject interventions result in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

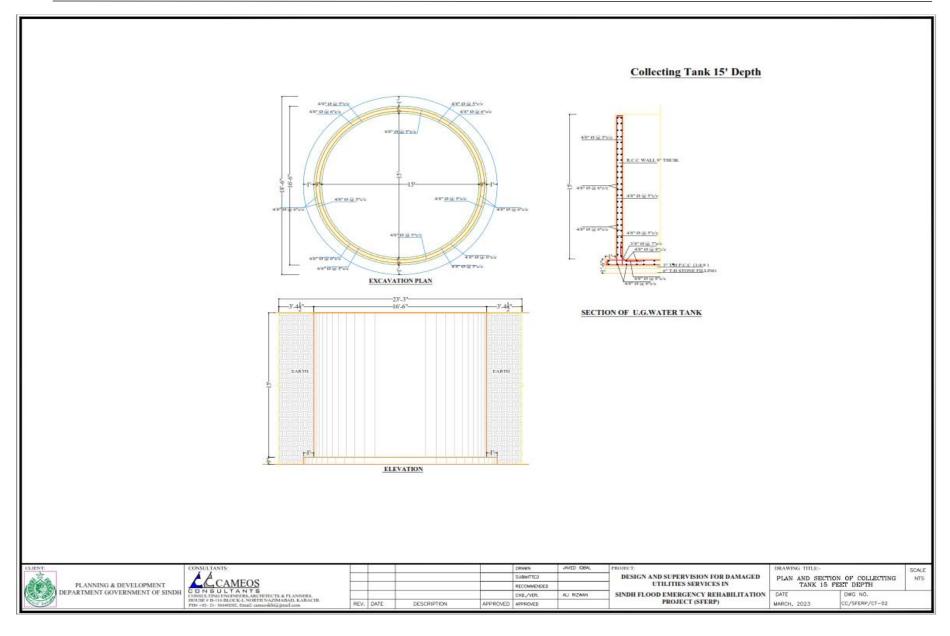
Are the proposed subproject activities likely to have impacts on important religious/cultural heritage sites?		✓	No, as the rehabilitation work involves the upgradation or restoration of existing facilities.
Have there been any past <b>security-related issues</b> at the proposed subproject sites?		✓	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?	<b>√</b>		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.)	<b>√</b>		Yes, some female members shared hygiene and health issues due to damaged drainage networks especially during and after monsoon season.

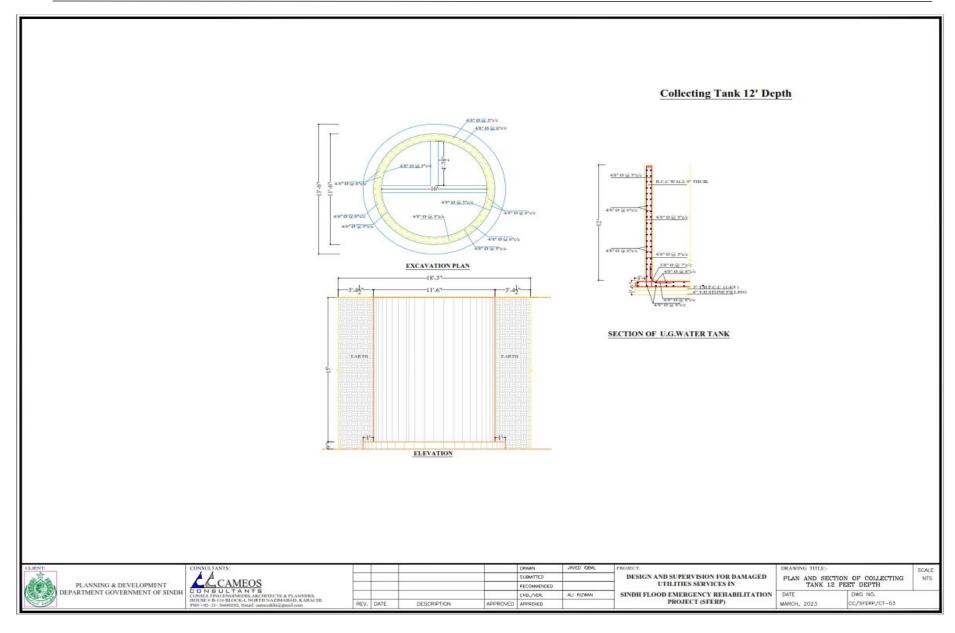
#### **ANNEXURE 2:**

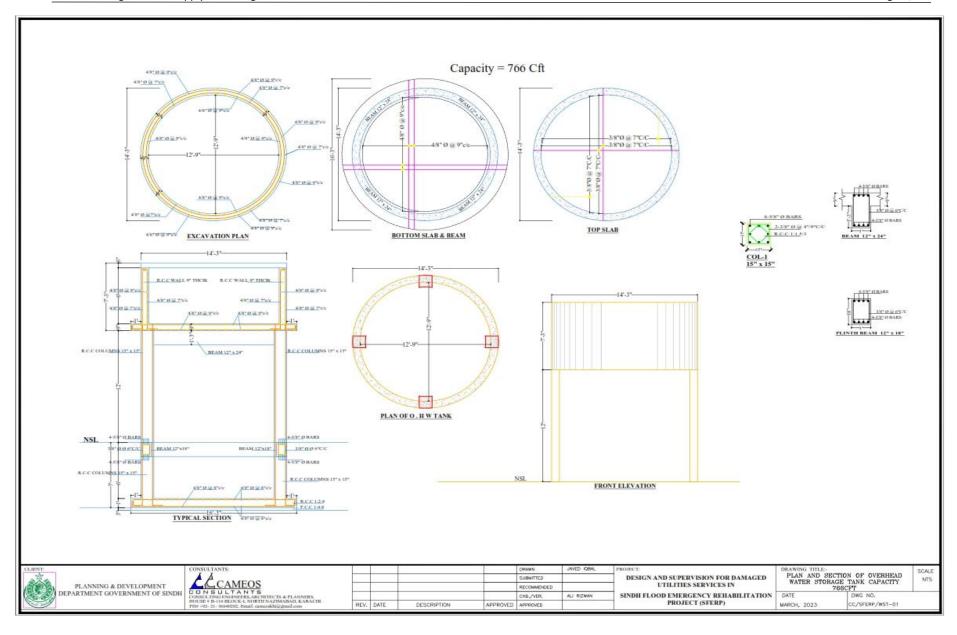
# Design Drawings of Water Supply Schemes & Drainage

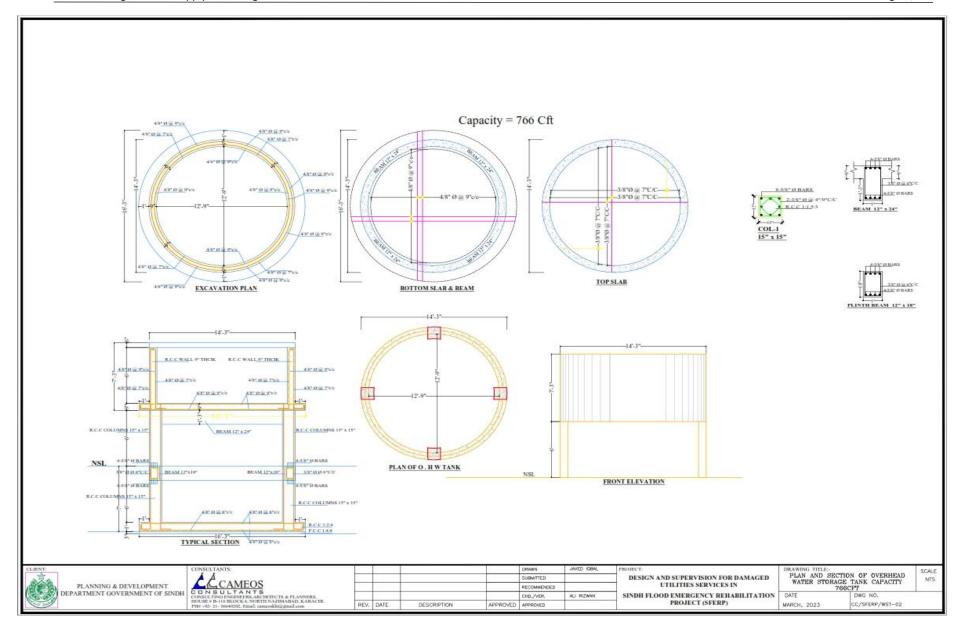
#### **Annexure 2: Design Drawings of Water Supply Schemes & Drainage**

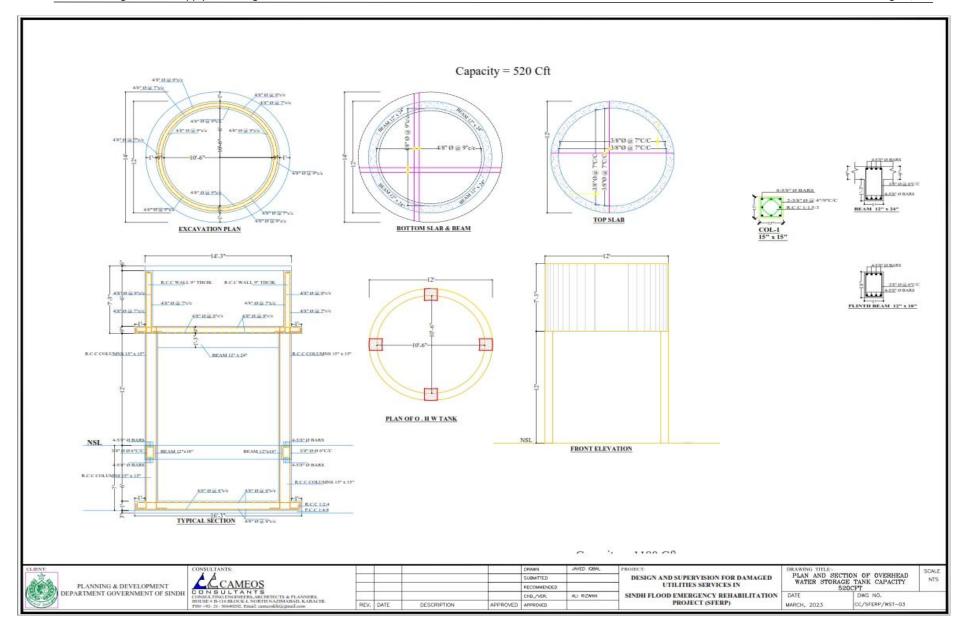


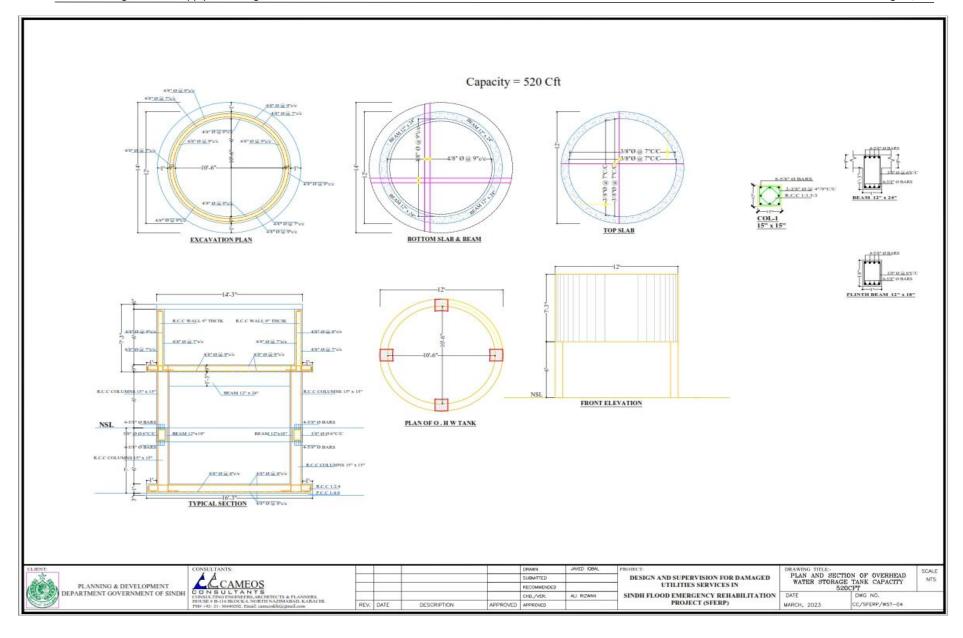


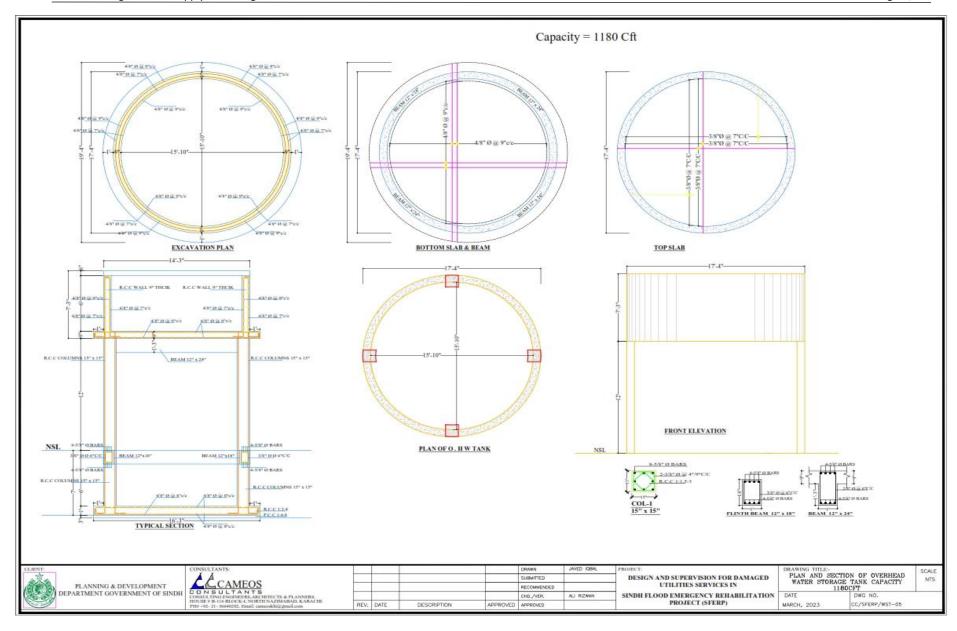


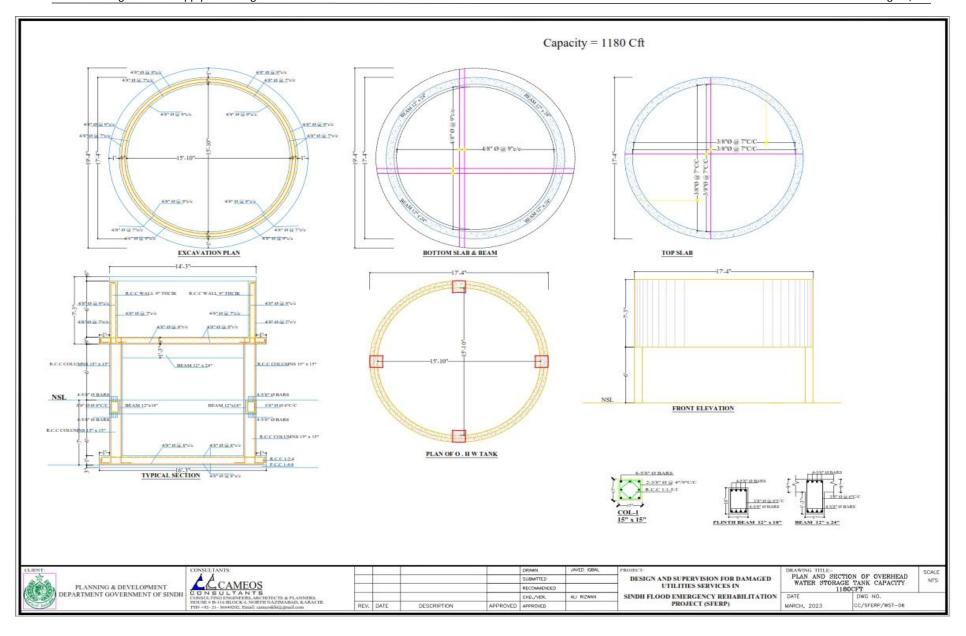


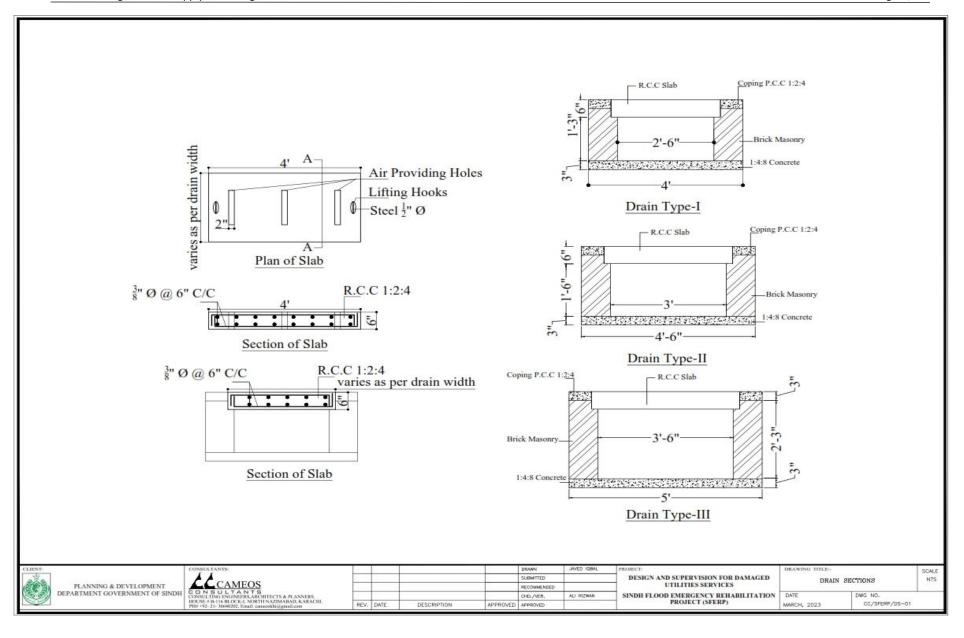


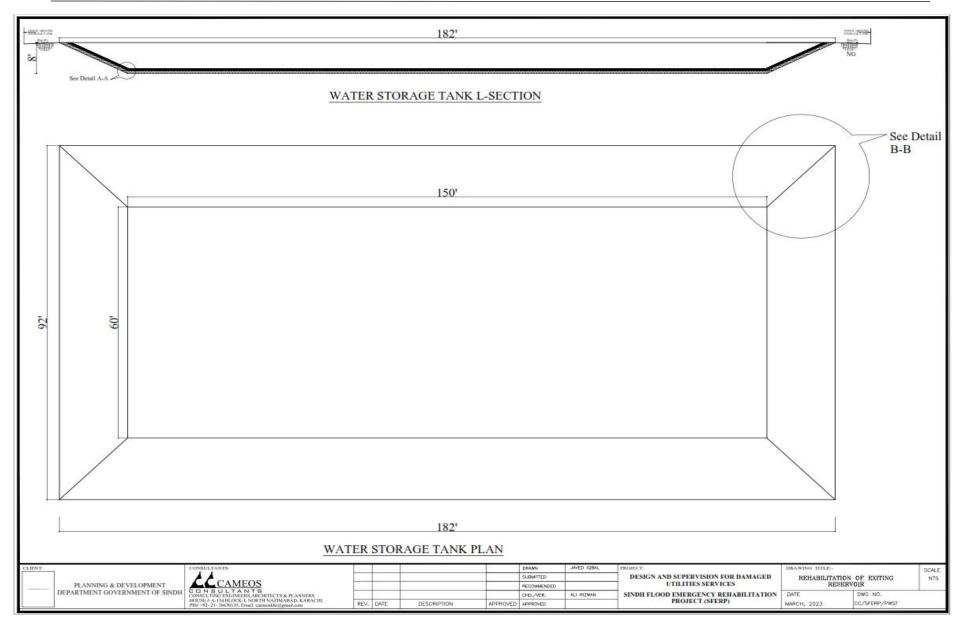


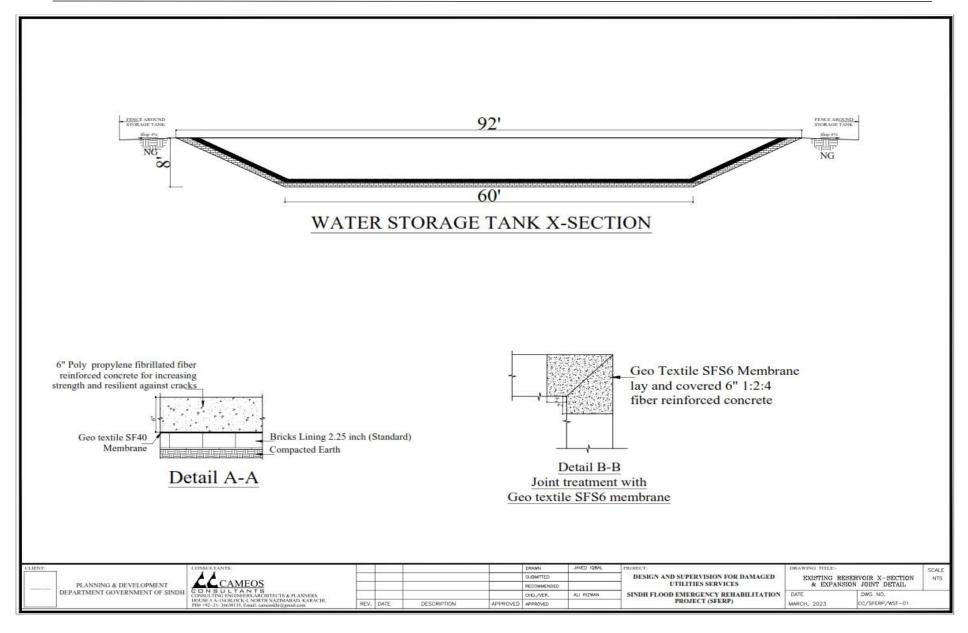


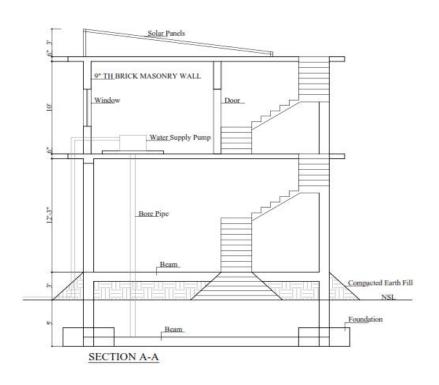


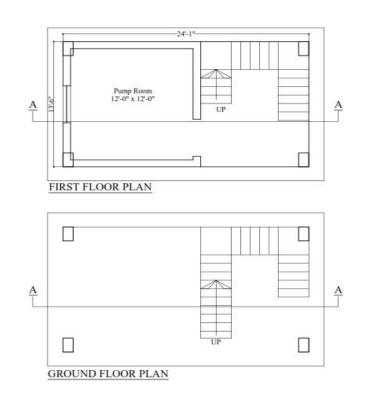




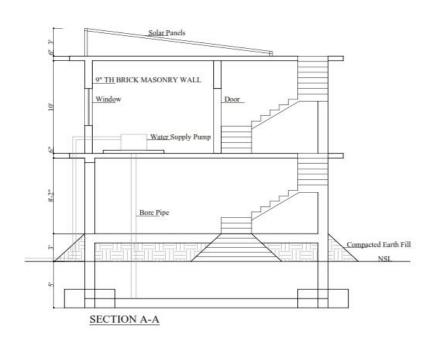


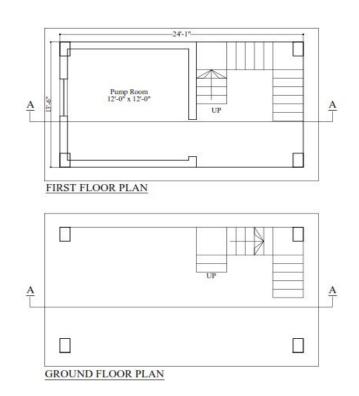














CONSULTANTS:

CAMEOS

CONSULTANTS
CONSULTANT SOURCESSAGEMENTS & FLANNESS.
HISTORY 8-11 IN HACKEL WORTH NAZISANDA, KARACHI.
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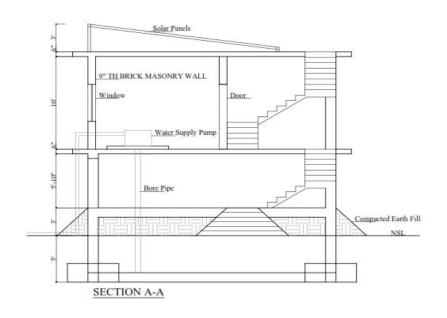
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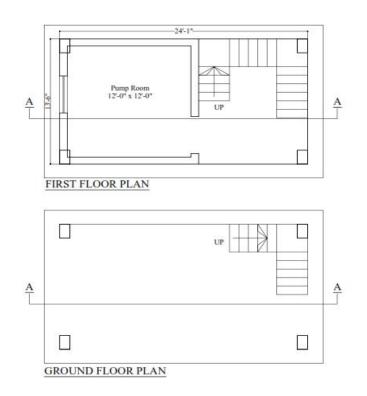
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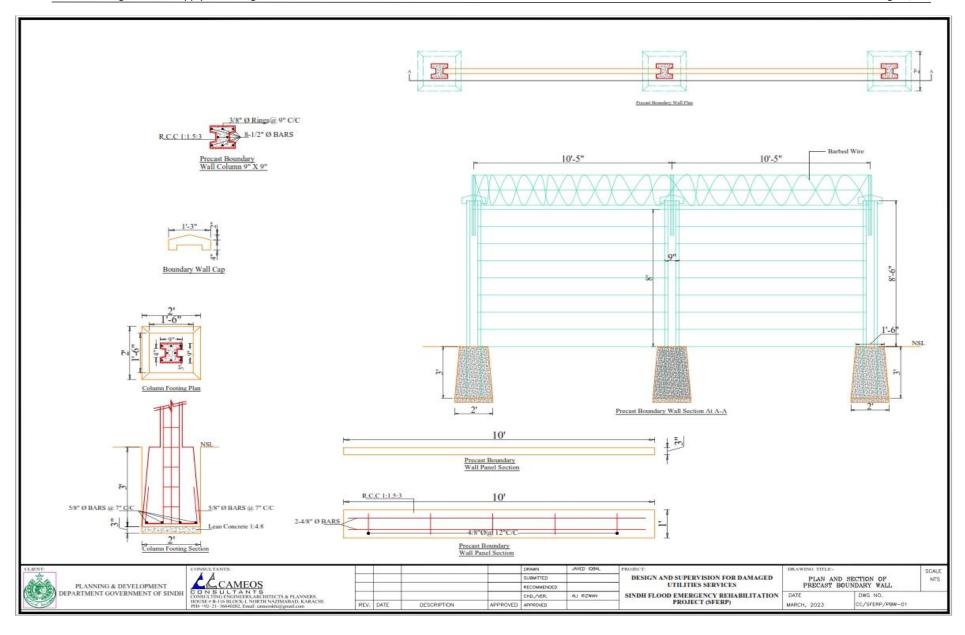


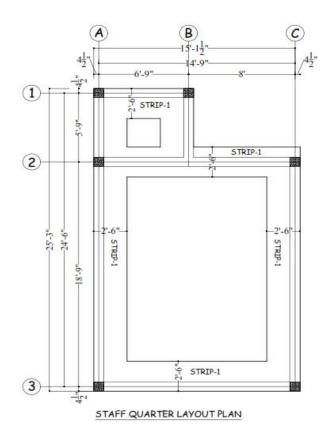


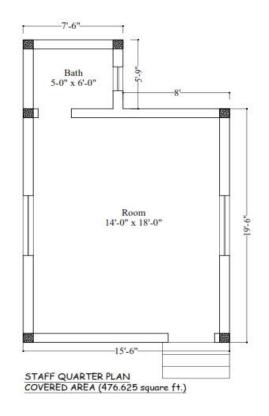


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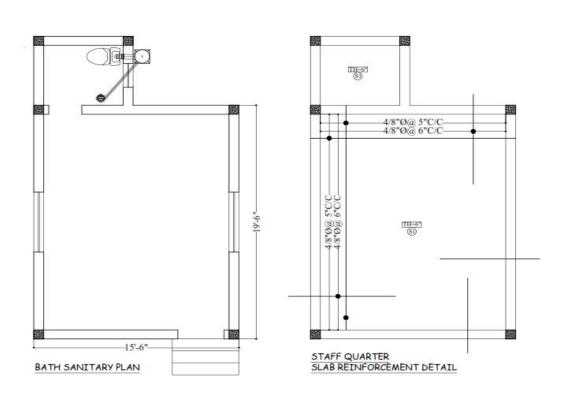
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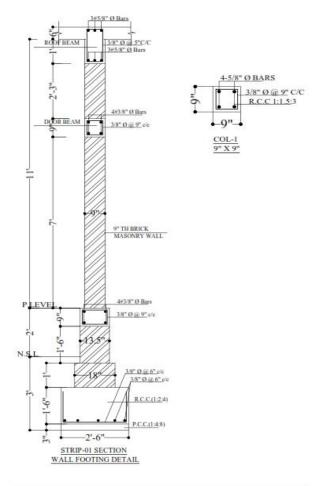












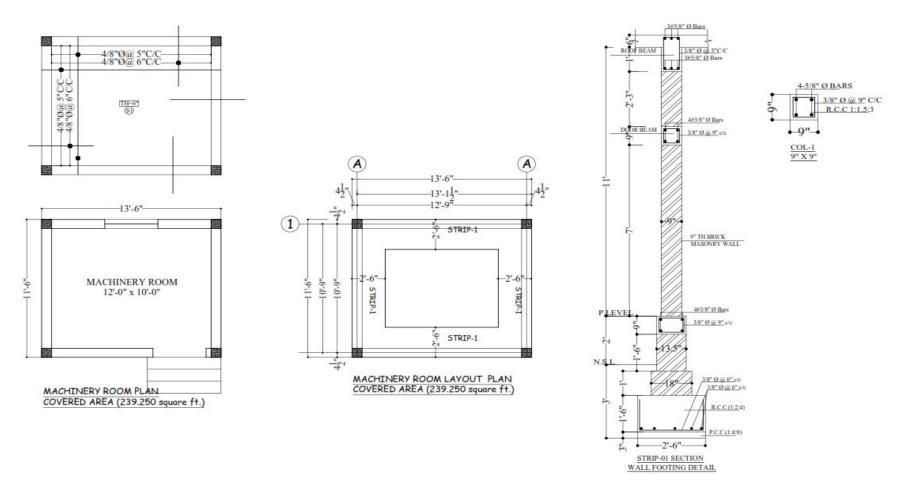


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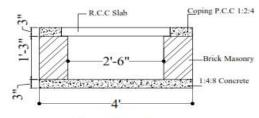
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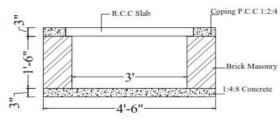
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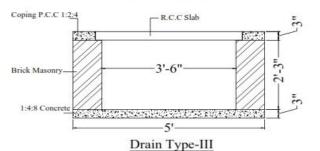
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### Drain Type-I



#### Drain Type-II



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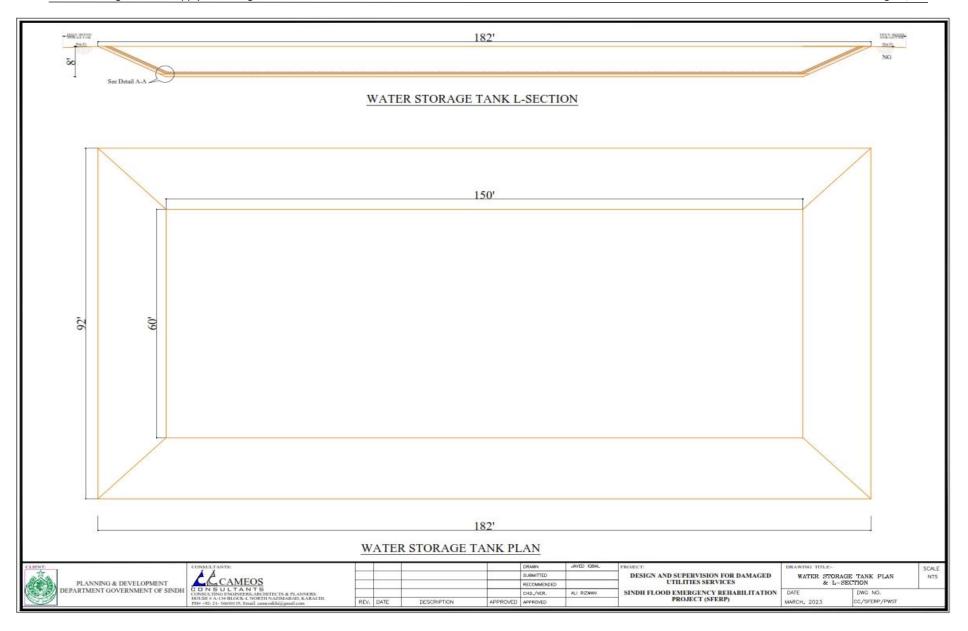
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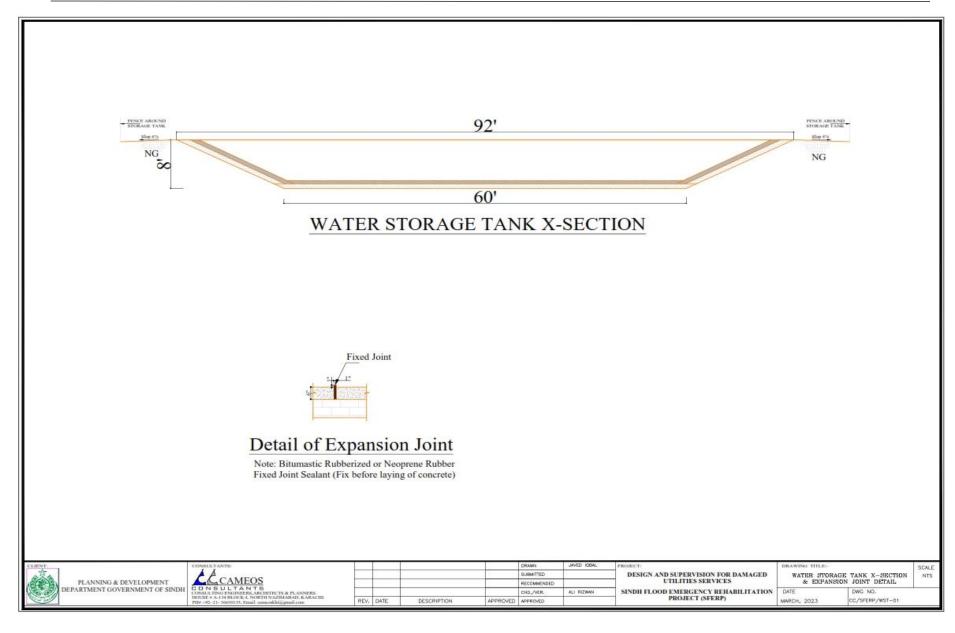
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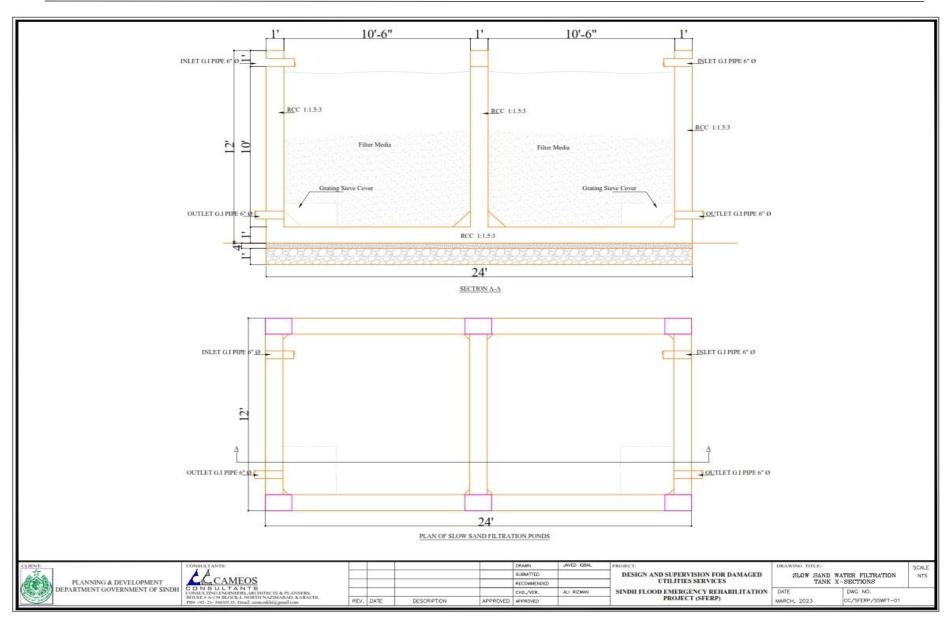
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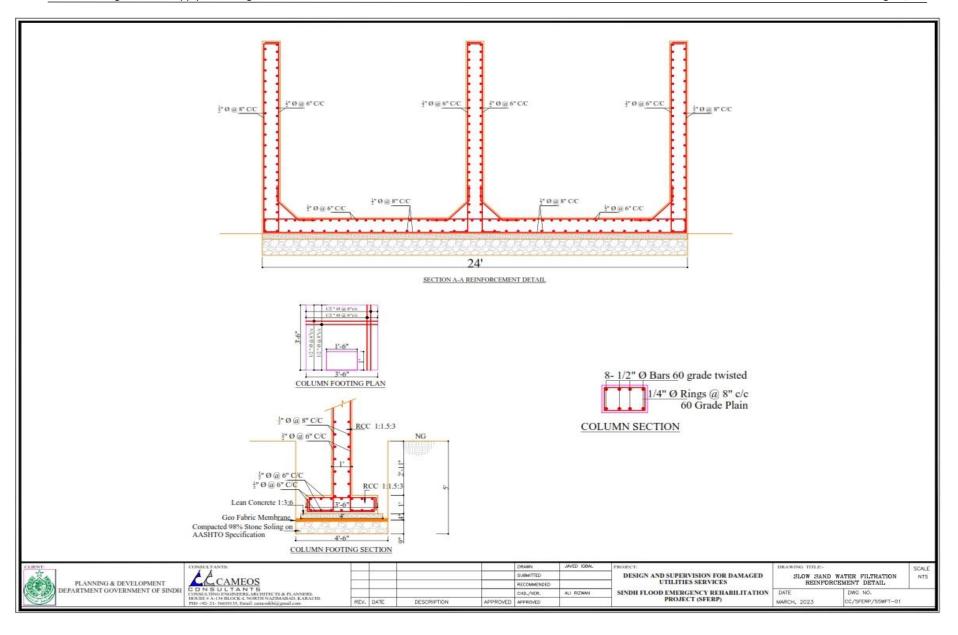
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## **ANNEXURE 3:**

# Attendance Sheets of Water Supply and Drainage Schemes of District Sanghar

### Annexure 3: Attendance Sheets of Water Supply and Drainage Schemes of District Sanghar

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