



**GOVERNMENT OF SINDH** 

# ENVIRONMENTAL & SOCIAL MANAGEMENT PLAN (ESMP) FOR

## Reconditioning of Rain/Flood Affected Roads, District Thatta



# Sindh Flood Emergency Rehabilitation Project (SFERP)



September 2023



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## LIST OF ABBREVIATION

BOQ	Bill of Quantity
CC	Construction Contractor
Col	Corridor of Impacts
CSC	Construction Supervisory Consultant
DC	Deputy Commissioner
EC	Electrical Conductivity
ECA	Employment of Child Act
EIA	Environmental Impacts Assessment
EPA	Environmental Protection Agency
ESIA	Environmental and Social Impacts Assessment
ESF	Environmental & Social Framework
ESMF	Environmental and Social Management Framework
ESMP	Environmental and Social Management Plan
ESS	Environmental and Social Standards
FGDs	Focus Group Discussions
GFP	Grievance Focal Point
GoS	Government of Sindh
GRC	Grievance Redress Committee
GRM	Grievance Redress Mechanism
IBIS	Indus Basin Irrigation System
IEE	Initial Environmental Examination
IPF	Investment Project Financing
IUCN	International Union for Conservation of Nature
NGO	Non-Governmental Organization
OP	Operational Policy
Pⅅ	Planning and Development Department
PAP	Project Affected Person
PCC	Public Complaint Centre
PC-I	Pakistan Planning Commission Form – 1 Appraisal of Development Project
PD	Project Director
PDMA	Provincial Disaster Management Authority
PEPC	Pakistan Environmental Protection Council
PID	Project Information Document
PIU	Project Implementation Unit
PKR	Pakistani Rupee
POPs	Persistent Organic Pollutants
SEPA	Sindh Environmental Protection Agency
SEQS	Sindh Environmental Quality Standards
SFERP	Sindh Flood Emergency Rehabilitation Project
WB	World Bank
WHO	World Health Organization



# 1. EXECUTIVE SUMMARY

The monsoon season of 2022 brought heavy rains causing high river flood in the province. Rainfall in various districts was recorded up to 900 mm<sup>1</sup>. The River Indus discharge recorded above 0.6 Million cusecs due to heavy downpours in its catchment coupled with local rains<sup>23</sup>. The high flood at Kotri Barrage persisted due to hill torrent emanating from Kirthar Mountains. The two month's rains and River Indus Flood caused heavy losses to human life, livestock, crops, houses, private buildings, Industries, and Public Infrastructures like Roads, Irrigation; river protective embankments (Bunds) and Drainage networks, and Railways.

The Sindh Flood Emergency Rehabilitation Project (SFERP) initiated by Government of Sindh (Province of Sindh, Planning and Development Department, Province of Sindh, Irrigation Department) and financed by The World Bank, Restore/Rehabilitate/ Reconditioning Rural (Farm to Market) Roads in affected districts, talukas and UCs of rains & flood-affected areas. Raising the profile, adequacy of cross-drainage structures, provision of protection works (Riprap<sup>4</sup>), increase in the number of culverts and provision of side drains all are the factors considered to address climate and/ or flood resilience design. The improvement in Pavement Structural numbers is an additional benefit.

The present ESMP represents the environmental impacts and mitigations of Component- 1: Infrastructure Rehabilitation, Sub-component 1.2: Restoration of Roads and Allied Infrastructure in Thatta District, and has the following sub-components: the Reconditioning work will be done on the existing platform/right of way. Indirect impacts caused by noise, dust emissions, campsites and borrow sites could be beyond the RoW. Socio-environmental impacts may arise due to the influx of external workforce, unattended residual wastes, and occupational health and safety issues for laborers and the community, therefore, ESMP has been prepared.

The Reconditioning of 16 roads in different areas of District Thatta. Administratively, most Reconditioning works fall in different Talukas of the district. Taluka Keti Bunder & Mirpur Sakro have five roads each, while six roads at Taluka Thatta.

According to Sindh EPA Regulations 2021 notification Sep 2021, a project falling in any category listed in Schedule-II shall file an IEE with the Agency. The subproject "Reconditioning of 16 roads in different areas of District Thatta" falls under Schedule-II, subsection 3 (Rehabilitation or rebuilding or reconstruction of existing roads more than one kilometre in urban areas and more than 5 km from rural areas) of Category F "Transport", of Sindh EPA Review of EC/IEE/EIA

<sup>&</sup>lt;sup>1</sup> https://www.pmd.gov.pk/cdpc/Monsoon\_2022\_update/Pakistan\_Monsoon\_2022Rainfall\_Update.htm

<sup>&</sup>lt;sup>2</sup> https://www.nation.com.pk/06-Sep-2022/indus-river-water-level-at-kotri-surges-above-6-lac-cusecs

<sup>&</sup>lt;sup>3</sup> Source: PDMA, GoS Daily update report as of 03rd October, 2022,

<sup>&</sup>lt;sup>4</sup> Riprap (in North American English), also known as rip rap, rip-rap, shot rock, rock armour (in British English) or rubble, is human-placed rock or other material used to protect structures against scour and water.

Regulation 2021. Twelve (12) roads are more than 5km, hence requires an IEE to be filed with the Sindh EPA.

Reconditioning<sup>5</sup> works are limited to the existing Right of Way (RoW) hence, the proposed project will have some minor adverse environmental impacts that are temporary, reversible, not expected to have lasting effects and only site-specific with short duration. Therefore, this sub-project falls under the moderate risk category under the ESMF of the SFERP. The present ESMP has been prepared accordingly to meet the moderate risk level requirements based on E&S screening checklists.

Furthermore, the sub-project screening was performed through the checklist covering environmental and social issues. Surveys were conducted to fill individual checklists and a summary of environmental and social concerns noted during surveys. The proposed Project of road Reconditioning works is within the defined RoW. Major construction works will remain confined within the RoW. No public infrastructure or commercial activities exist within RoW. At the same time, the indirect impacts have been evaluated at 200 meters/650 ft buffer zone of the proposed roads (100 meters/328 ft on each side from the centre line). Trees will not be uprooted or need relocation due to rehabilitation works because the existing RoW will be used for the proposed Reconditioning works. No archaeological site was observed near (within 500 meters) the sub-project areas and no physical cultural resources at or near the proposed sub-project sites are observed, which may likely be affected by construction activities. No graveyard is situated within the construction area. A few settlements were observed near the proposed Reconditioning works which are outside the RoW as well as COI. During the construction phase, a few socially sensitive receptors like mosques, schools, basic health units, graveyards, etc., might be indirectly impacted, but this impact will be temporary and reversible, having a short duration with low significance (by adopting the suitable mitigation measures). As far as the sub-project area is concerned, no protected forests and none of the endemic or endangered species of both flora and fauna were recorded from sub-project sites.

The proposed sub-project areas lie in south eastern of Sindh, District Thatta. The sub-project area is falling in Zone 2A, with peak ground acceleration (PGA) varying from 0.08 to 0.16.<sup>6</sup> It is a low-damage risk zone, meaning the areas that fall under these zones have a low chance of having an earthquake.

Vehicular traffic on the proposed project roads is observed to be Low compared to the national highways. This traffic can cause air and noise pollution having fairly localized environmental impacts, i.e., in the close vicinity of the roads. The component rate of vehicle types in the subproject area is passenger car (45.17%), pick up (3.31%), motorcycle (40.55%) and truck (6.35%). The main vehicular emissions include particulate matter (dust), carbon monoxide, sulfur

<sup>&</sup>lt;sup>5</sup> Road reconditioning is the process of restoring a road to its original condition or better by repairing and replacing damaged or worn-out components. This process can include resurfacing the road, repairing potholes and fixing drainage issues.

<sup>&</sup>lt;sup>6</sup> Pakistan Building Code of Pakistan, 2007.



dioxide, and nitrogen oxides. The air pollution testing and monitoring will be done before the start of the construction by the contractor through a SEPA-approved lab with the consent of the Construction Supervisory Consultant (CSC) along with the surface & ground water, ambient air and noise.

No tree cutting has been involved due to existing RoW being used for Reconditioning work and no rare or endangered aquatic, faunal, or floral species occurring in the sub-project area. Furthermore, all of the roads are in rural areas, so no wild animals or critical habitats will be impacted. The sub-project will pose a minor negative impact on the fauna present in the area. No hunting, harassment, or netting of wildlife will be permitted. No clearing of bushes will be allowed during the nesting/breeding season of birds. Maximum effort will be made to save rodent colonies during construction. Some of the flora of the district includes gum Arabica or babul (*Acacia nilotica*), aak or milkweed (*Calotropis procera*), kandi or jand (*Prosopis spicigera*), karir or kair (*Capparis aphylla*), poplar or bahan (*Populus euphratica*), ber (*Zizyphus nummularia*), neem (*Azardirachta indica*), shisham (*Dalbergio sissoo*) and mesquite (*Prosopis juliflora*).

No acquisition of private land is required for this sub-project. In addition, no demolition of structures will be involved and no one will be required to resettle as sub-project areas are lying in the scattered and less populated areas. None of the informal settlers/squatters exist in RoW as well and no livelihood disruption has been envisaged. The existing tracks will be used for the transportation of the material. It is anticipated that negative impacts may occur for a small period of time during the construction phase. The contractor shall ensure the implementation of recommended mitigation measures during the construction phase.

The anticipated impacts can be mitigated through proper inspection and maintenance of vehicles and machinery to reduce exhaust emissions, using noise suppressors or mufflers for heavy equipment & watering unpaved roads. The adverse impacts of construction wastes can be controlled by proper handling and immediate removal of construction debris/ residual wastes from the construction sites. The chances of water pollution can be reduced by safe and appropriate storage of oil wastes, safe disposal of wastewater, control of liquid waste through sanitary storage and frequent collection for sanitary disposal at the active construction site.

Occupational health and safety will be ensured through continuous inspection for the prevention of disease and accidents, awareness raising among labour and community, sanitation measures, communicable diseases including COVID-19 management and monitoring and emergency response and rescue procedures, provision of adequate sanitary facilities, potable water, and garbage bins for workers.

E&S monitoring will be carried out as per the SEPA Act 2014, ESMF of SFERP, Labour Management Procedures prepared for SFERP & Stakeholder Engagement Plan (SEP) to ensure that the mitigation plans are implemented accordingly. It will be carried out at three levels. First, at the PIU level, the environment and social specialists will carry out safeguard monitoring to ensure that the mitigation plans are being effectively implemented and will conduct field visits regularly. Second, at the field level, the relevant staff of the Construction Supervisory Consultant



(CSC) will carry out more frequent safeguard monitoring. At the third level, the Contractor's E & S team will implement and produce monthly, quarterly and bi-annual reports.

The overall responsibility for implementing the SFERP project as well as the present ESMP rests with the PIU, headed by the Project Director. The PIU is supported by the Environmental and Social team. PIU has also engaged a Project Implementation Consultant (PIC)/CSC, responsible for construction supervision. Appropriate clauses will be included in the construction contracts for this purpose.

A separate budget of Rs 9,490,000/- has been allocated for the implementation of the ESMP, including the GRM running and general Community support needs.

The implementation of the ESMP involves inputs from the Construction Contractor (CC), CSC/PIC and PIU. The CC will be primarily responsible for ensuring the implementation of mitigation measures proposed in the ESMP, which will be part of the contract documents. However, if the CC fails to comply with the implementation of ESMP and reporting properly, the proponent will enforce compliance with the terms of the contract, including adherence to the ESMP. For the smooth execution of ESMP implementation activities, it has been recommended that all the bills/payments related to ESMP implementation be approved/authenticated by the CSC. ESMP implementation cost will be deducted from Interim Payment Certificates (IPC) until compliance has been done.



# 2. INTRODUCTION

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 Sindh 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/Reconditioning 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 the assessment.
- Expansion of Emergency Rescue Service (Sindh Emergency Rescue Services-1122) to 09 districts, i.e., Jamshoro, Dadu, Larkana, Thatta, Hyderabad, Matiari Nausheroferoz, Khairpur and Ghotki. The Provincial Government has already launched Sindh Emergency Rescue 1122 in Six District HQs – Karachi, Hyderabad, Mirpurkhas, Shaheed Benazirabad, Sukkur, and Larkana.

## 2.1 **Project Components**

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

- i. Component-I: Infrastructure Rehabilitation:
- ii. Component-2: Livelihoods Restoration
- iii. Component-3: Institutional Strengthening for Resilience and Technical Assistance
- iv. Component-4: Project Management and Operational Costs

## 2.2 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 road network to improve accessibility to public facilities and facilitate the socio-economic revival of the worst-affected areas of the Sindh province.

Under the Flood 2022 Emergency Response, the roads identified for immediate rehabilitation are listed in Table 1. The map given in **Figure 1** shows the location of these selected roads as a yellow highlighted area.



Sr.	Description	No. of Roads				
1	Dependitation of different reads in District Hydershed					
1	Renabilitation of different roads in District Hyderabad	3				
2	Rehabilitation of different roads in District Matiari	3				
3	Rehabilitation of different roads in District Tando Allah Yar	3				
4	Rehabilitation of different roads in District Shaheed Benazirabad	12				
5	Reconditioning of different roads in District Naushahro Feroze	14				
6	Rehabilitation of different roads in District Thatta	16				
7	Rehabilitation of different roads in District Sujawal	4				
8	Rehabilitation of different roads in District Badin	3				
9	Rehabilitation of different roads in District Dadu	6				
10	Rehabilitation of different roads in District Jamshoro	16				
11	Rehabilitation of different roads in District Tharparkar	2				
12	Rehabilitation of different roads in District Mirpurkhas	3				
13	Rehabilitation of different roads in District Umerkot	5				
14	Rehabilitation of different roads in District Sanghar	8				
15	Rehabilitation of different roads in District Sukkur	8				
16	Rehabilitation of different roads in District Khairpur	19				
17	Rehabilitation of different roads in District Larkana	13				
18	Rehabilitation of different roads in District Kamber-Shahdadkot	14				
19	19 Rehabilitation of different roads in District Shikarpur					
	TOTAL	156				

# Table 1: List of Districts for Roads Rehabilitation under SFERP

Sub-Project/Sub-Component, Restoration of Roads and Allied Infrastructure

This ESMP represents the environmental and social impacts and mitigation measures of Component- 1: Infrastructure Rehabilitation, Sub-component 1.2: Restoration of Roads and Allied Infrastructure. It is about the "Reconditioning of 16 roads in different areas of District Thatta". Administratively, this reconditioning work fall in various Talukas of the district Thatta. Taluka Keti Bunder and Mirpur Sakro have five roads each, while the other six roads belong to Taluka Thatta. The location map of Sub-Project - Thatta Roads is shown in Figure 2.

## 2.3 Objective of ESMP

The primary objectives of the ESMP are as follows:

- Identify the social and environmental risks of the sub-component and related activities.
- Suggest suitable mitigation measures for identified risks at the planning, designing, and implementation stage of the sub-projects and eliminate or reduce their severity if any.
- Propose an Environmental Monitoring Program (EMP) to ensure that mitigation measures are implemented during the subproject execution and timely corrective actions are taken where required, and
- Propose the institutional arrangements required for the implementation and monitoring of the EMP.





Figure 1: Location Plan for Rehabilitation Roads-SFERP



According to Sindh – EPA: According to Sindh Environmental Protection Agency (Environmental Assessment) Regulations, 2021, the sub-project falls under category schedule II – F. Transport 3. Rehabilitation or rebuilding or reconstruction of existing roads more than one kilometer in urban areas and more than 5 km from rural areas" (12 roads are more than 5 km). Hence IEE will need to be prepared for these twelve roads as per Sindh Environmental Protection Agency (Environmental Assessment) Regulations, 2021. The present ESMP has been prepared accordingly to fulfil the IEE requirement as per SEPA regulation 2021.

According to Donor Agency (World Bank): Rehabilitation/restoration/ Reconditioning works are limited to the existing RoW; hence the proposed project will have some minor adverse environmental risks that are reversible and site-specific with short duration. Therefore, this sub-project falls under the moderate risk category under the ESMF of the SFERP. The present ESMP has been prepared accordingly to meet the moderate risk sub-project requirements.

# 2.4 Sub-project Screening Procedure

The sub-projects screening was performed through the checklist covering environmental and social issues. Surveys were conducted to fill individual checklists (Annexure I) and a summary of environmental and social concerns/risks noted during surveys is given below.

- No tree will be uprooted or need relocation due to rehabilitation works because the existing RoW will be used for the proposed construction.
- No archaeological site was observed near (within 500 meters) the project area and no physical, or cultural resources at or near the proposed sub-project; sites were observed that may likely be affected by construction activities.
- Indirect impacts caused by the noise, dust emissions, campsites and borrow sites could be beyond the RoW. During the construction phase, a few socially sensitive receptors, like mosques, schools, basic health unit graveyards, etc., might be indirectly at risk, but these are temporary, reversible and low significance impacts having a short duration which can be managed by adopting the suitable mitigation measures.
- A few settlements were observed near the proposed Reconditioning works. None of the infrastructure and commercial activities exist within RoW. No resettlement is expected due to this reconditioning work.
- No protected forests were observed near the proposed sub-project area.
- The contractor will conduct the baseline environmental monitoring before the start of the civil work with the consent of the Construction Supervisory Consultant (CSC) Environmental Specialist after approval of PIU.

## 2.5 Selection Criteria for Roads.

The selection of roads is based on the given criteria same has been depicted in Table 2;



- Affected by rain floods,
- Rural roads that connect farms to markets,
- Length should not be less than 3 km,
- Affected roads which are not rehabilitated or rebuilt by another body/source

Those roads which can impact positively on the livelihood of the rural communities, Improve/Uplift the social and economic condition of the subproject area.

Sr. No	Descriptions	Affected by Rain Flood	Rural Road	Length of Road (Km)	Not Rehabilitated or Rebuilt by Another Body/Source	Improve/Uplift the Social Economic Condition
1	Reconditioning / reconstruction of road from baghan jangisar road to connect village muhammad hassan otho via dargah khair shah	Yes	Yes	8.00	No	Yes
2	Reconditioning of road from baghan jangisar road to jeety	Yes	Yes	6.00	No	Yes
3	Reconditioning of road from 105 mori shoro stop at 12.00 kms mureedani chowk to village alam jatt & noor m. Jatt / paryo jatt i/c links	Yes	Yes	10.00	No	Yes
4	Reconditioning of road from 103 mori at 18.0 kms to village khan memon and jan muhammad jatt	Yes	Yes	8.00	No	Yes
5	Reconditioning of road from 105 mori mahr mitho shaikh mureedani road to village ali muhammad rind via muhammad umer arain i/c links	Yes	Yes	8.00	No	Yes
6	Reconditioning of road from gharo keti bunder road at 48 km to village allah dino shoani via masha allah shadi hall i/c links	Yes	Yes	3.00	No	Yes
7	Reconditioning of road from sajjan khasheli road to village sawan shoro and village haji vikyo shoro i/c links to village juman & sadique shoro	Yes	Yes	5.50	No	Yes
8	Reconditioning of road from at 5.0 km to connect village	Yes	Yes	6.00	No	Yes

## **Table 2: Selection Criteria for Roads Selection**



Sr. No	Descriptions	Affected by Rain Flood	Rural Road	Length of Road (Km)	Not Rehabilitated or Rebuilt by Another Body/Source	Improve/Uplift the Social Economic Condition
	ali hassan baghiar via drgah misri shah					
9	Reconditioning of link from thatta jhimpir road to village siddiq mundo along jam wah	Yes	Yes	4.00	No	Yes
10	Reconditioning of road from gharo keti bunder meeran stop at point 7.0 kms of saddar bridge dhandhari road tukro stop to khalifa	Yes	Yes	5.00	No	Yes
11	Reconditioning of link from var city to muhammad suleman zangiani	Yes	Yes	3.00	No	Yes
12	Reconditioning of road from gharo keti bunder road at 20 kms to village dilawar shalmani & pir allah dino shah	Yes	Yes	5.50	No	Yes
13	Reconditioning of road from ghulamullah var road at 8.0 kms sama stop to village m ayoub, qasim samoo & haji lashan via ahmed chandio i/c link	Yes	Yes	6.00	No	Yes
14	Reconditioning of road from karachi thatta - hyderabad road at 170 km to connect village ibrahim shoro	Yes	Yes	6.00	No	Yes
15	Reconditioning of road from juho to ahmed jatt	Yes	Yes	3.00	No	Yes
16	Reconditioning of road from mirpur sakro to connect sindh coastal highway	Yes	Yes	12.00	No	Yes

## 2.6 Project Corridor

The sub-project corridor is delineated according to two criteria: The Right of Way (RoW), which the Works and Services Department, Government of Sindh is legally entitled to, and the Corridor of Impact (CoI), i.e., the width of the corridor that will be impacted, directly or indirectly, by the proposed Project during the construction (Reconditioning) and operational phases.

## 2.6.1 Right of Way (RoW)

The proposed sub-project corridor will have a well-defined RoW that will be the existing width of the roads (which is 12 ft as depicted in Table 3) as the proposed sub-project involves Reconditioning work. Major construction works will generally remain confined within the RoW. None of the public infrastructures and commercial activities exist within RoW.



# 2.6.2 Corridor of Impact (Col)

The Corridor of Impact (CoI) was delineated as the area/extension in which the sub-project has a direct or indirect impact. Direct impacts of a project are defined as the relocation of houses, trees, private land, utilities and air & noise pollution impact on workers during construction. All direct impacts are confined to the RoW. Indirect impacts caused by noise, dust emissions, campsites and borrow sites could be beyond the RoW. The direct contact of the surface water bodies with the proposed sub-project will be temporary. This means that it will only occur during the construction period of the proposed sub-project.

For the proposed sub-project, no risks have been envisaged pertaining to the relocation of houses, trees, private land, and utilities. The work is done on the existing platform/right of way. No additional land is needed.

The indirect impacts have been evaluated at 200 meters/650 ft buffer zone of the proposed roads (100 meters/328 ft on each side from the center line of the road)<sup>7</sup>.

<sup>&</sup>lt;sup>7</sup> criteria have been decided during Stakeholder consultation, the date of consultation is 2 March 2023.



#### 3. DESCRIPTION OF SUB-PROJECTS

#### 3.1 Locations of Sub-Project

The proposed sub-project falls in the District Thatta. The proposed project is aimed at the Reconditioning of the selected sixteen (16) roads of the district (refer to Table 3), damaged by the rain floodwater, with the objective of restoring the road connectivity and the restoration of livelihood resources of flood-affected communities.

#### 3.2 Main Activities for Reconditioning Works

The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters on either side of the road center line. Both rehabilitation and Reconditioning within the existing carriageway are category B works.<sup>8</sup>

The main activities for the Reconditioning works are as follows:

- Asphalt wearing course shall pertain to "Class-B" gradation as specified in the NHA General Specification of 1998.
- The asphalt concrete wearing layer shall be designed with air voids in the range of 3% to 5%. Air voids greater than this range will result in increased permeability/porosity of the mix.
- For Reconditioning the existing carriageway, care shall be taken not to scarify/excavate the underlying exposed granular material.
- The Maximum Dry Density (MDD) of Water Bound Macadam (WBM) layer shall be 100%. In the section where the sub-base is provided, its density shall be 98% of MDD. WBM and Subbase shall pertain to gradation as specified in NHA General Specifications.
- Cross fall of 2% shall be maintained at Subbase formation, in case of new construction and at base course formation, in case of existing carriageway.
- On both sides of the culverts backfilling should be done with Granular Backfill material over which required layers are to be laid. The compacting will be done with the plate compactor.
- Effective Drainage of the road shall be ensured through the proper cross slope of the pavement.
- The material for the Formation of Embankment shall pertain to AASHTO Class A-1-a, A-1-b, A-2-4, with Maximum Dry Density (MDD), CBR and Compaction as per NHA General Specifications:
- Zebra crossing and traffic calming measures, including additional signage, marking & rumble strips with raised walkways and speed restrictions, shall be given near socially sensitive receptors areas.

<sup>&</sup>lt;sup>8</sup> NHA General Specification Dec-1998



- Restoration of the campsite and Contractor's demobilization.
- Typical cross sections for roads, culverts and causeways are given in Annexure II and photo log in Annexure III.

#### 3.3 Climate Resilient Measures

Raising the profile, adequacy of cross-drainage structures, provision of protection works (Riprap), increase in the number of culverts and provision of side drains all are the factors considered to address climate and/or flood resilience design<sup>9</sup>. The improvement in Pavement Structural numbers is an additional benefit.

- The design economizes with respect to field condition surveys and the type of roads. The side drain is provided.
- Daylighting of Aggregate Base and/ or sub-base is considered for all types of roads, while 0.5 m rounding is also taken for proper daylighting.
- Raising the existing profile with the formation of the embankment is taken to make the design flood-resilient.
- The damaged culverts are rectified or replaced while a sufficient number of culverts are provided for proper cross-drainage. The size of the culvert has been improved from 1.0m x 1.0m to 2.0m x 1.5m for better drainage and cleansing. The detail of the proposed culverts has been annexed as Annexure IV.
- Vented causeways will also be provided in detailed Design, while their plan cross-sections will also be part of detailed design drawings.
- The flow from culverts and road drainage will be ensured.

<sup>&</sup>lt;sup>9</sup> The Rehabilitation Strategies for rain/flood-affected roads at the District have been provided in PC-1 's Annexure –F for reference



# Table 3: Details of Sixteen Roads for Rehabilitation at District Thatta

Sr. No	Descriptions	Length of Road (Km)	Width of Road (M)	Coordinates
1	Reconditioning / reconstruction of road from baghan jangisar road to connect village muhammad hassan otho via dargah khair shah	8.00	3.65	24°12'0.02"N 67°37'33.21"E 24°11'31.80"N 67°41'3.53"E
2	Reconditioning of road from baghan jangisar road to jeety	6.00	5.50	24°14'21.75"N 67°36'25.07"E 24°11'26.65"N 67°37'35.84"E
3	Reconditioning of road from 105 mori shoro stop at 12.00 kms mureedani chowk to village alam jatt & noor m. Jatt / paryo jatt i/c links	10.00	3.65	24°26'12.63"N 67°43'52.78"E 24°25'11.59"N 67°39'47.87"E
4	Reconditioning of road from 103 mori at 18.0 kms to village khan memon and jan muhammad jatt	8.00	3.65	24°38'8.55"N 67°53'9.33"E 24°34'49.10"N 67°53'31.48"E
5	Reconditioning of road from 105 mori mahr mitho shaikh mureedani road to village ali muhammad rind via muhammad umer arain i/c links	8.00	3.65	24°25'57.11"N 67°43'56.50"E 24°24'21.94"N 67°40'41.62"E
6	Reconditioning of road from gharo keti bunder road at 48 km to village allah dino shoani via masha allah shadi hall i/c links	3.00	3.65	24°19'37.93"N 67°37'4.71"E 24°19'36.72"N 67°35'18.22"E
7	Reconditioning of road from sajjan khasheli road to village sawan shoro and village haji vikyo shoro i/c links to village juman & sadique shoro	5.50	3.65	24°38'41.49"N 67°56'19.97"E 24°38'3.31"N 67°54'42.81"E
8	Reconditioning of road from at 5.0 km to connect village ali hassan baghiar via drgah misri shah		3.65	24°46'9.32"N 67°52'52.43"E 24°45'53.95"N 67°50'34.36"E
9	Reconditioning of link from thatta jhimpir road to village siddiq mundo along jam wah		3.65	24°12'6.33"N 67°42'26.58"E 24°13'23.13"N 67°40'4.59"E
10	Reconditioning of road from gharo keti bunder meeran stop at point 7.0 kms of saddar bridge dhandhari road tukro stop to khalifa		3.65	24°33'11.03"N 67°50'32.58"E 24°33'54.24"N 67°51'44.94"E
11	Reconditioning of link from var city to muhammad suleman zangiani		3.65	24° 9'56.69"N 67°32'43.98"E 24° 9'15.96"N 67°32'43.29"E
12	Reconditioning of road from gharo keti bunder road at 20 kms to village dilawar shalmani & pir allah dino shah		3.65	24°29'15.20"N 67°48'28.06"E 24°28'16.60"N 67°45'24.76"E
13	Reconditioning of road from ghulamullah var road at 8.0 kms sama stop to village m ayoub, gasim samoo & haji lashan via ahmed chandio i/c link		3.65	25°14'3.88"N 68°17'2.41"E 25°13'6.48"N 68°14'16.03"E
14	Reconditioning of road from karachi thatta - hyderabad road at 170 km to connect village ibrahim shoro		3.65	24°12'21.90"N 67°31'32.18"E 24°10'54.05"N 67°31'4.45"E
15	Reconditioning of road from juho to ahmed jatt		3.65	24°33'3.05"N 67°37'44.46"E 24°31'10.52"N 67°32'0.66"E
16	Reconditioning of road from mirpur sakro to connect sindh coastal highway	12.00	3.65	24°33'12.08"N 67°30'21.73"E 24°31'23.74"N 67°32'17.66"E





Figure 2: Location Map of Sub-Project - Thatta Roads



## 3.4 Construction Material

The construction materials foreseen to be used in the Reconditioning works includes the followings:

- a) Embankment fill
- b) Granular Subbase
- c) Cement
- d) Fine and coarse aggregates
- e) Asphalt Concrete for Wearing Course
- f) Steel Reinforcement

The contractor will be allowed to purchase natural materials such as coarse aggregate, stones, and coarse filters from the legal crushing plants or material suppliers having approval from the relevant department of the Sindh Government (Mines and Mineral Development Department & SEPA). No purchase of material from illegal crushing plants or non-approved material suppliers will be allowed. This should be made part of the agreement for each of the contractors with the project.

The transportation of purchased material to the project site will be made through existing and capable tracks.

The proposed project roads cross several watercourses and minor and major canals. The proposed subproject roads cross Indo Distry (from Reconditioning of road from baghan jangisar road to jeety & Reconditioning of link from thatta jhimpir road to village siddig mundo along jam wah), Puricha Minor (from Reconditioning of road from 103 mori at 18.0 kms to village khan memon and jan muhammad jatt), Jam Wah (from Reconditioning of road from at 5.0 km to connect village ali hassan baghiar via drgah misri shah), Naseer Distry (from Reconditioning of road from gharo keti bunder meeran stop at point 7.0 kms of saddar bridge dhandhari road tukro stop to khalifa) K.B.Feeder Upper (from Reconditioning of road from ghulamullah var road at 8.0 kms sama stop to village m ayoub, gasim samoo & haji lashan via ahmed chandio i/c link) Juho Minor (from Reconditioning of road from karachi thatta - hyderabad road at 170 km to connect village ibrahim shoro) & Takani Distry (from Reconditioning of road from juho to ahmed jatt). The Contractor will be allowed to use canal water for general construction purposes only with the permission of the Irrigation Department. The contractor will also be allowed to install tube wells to fulfill the construction work water requirements. Moreover, the contractor shall be strictly bound not to use the community tube well to fulfill the construction work water requirements. In the case of installing its tube well, the contractor will conduct an electrical resistivity-surveying test along with a pump-out test to assess the groundwater potential required for the construction activities before the tube wellbore. After the completion of the subproject the bore well will be handed over to the community. Solar-operated tube well will be preferred and if diesel generators will be used for the tube well operation, then the contractor has to keep an eye on CO<sub>2</sub> impacts and perform required environmental monitoring. These conditions will be included in the bid document as contractual binding.



# 3.4.1 Reuse/Recycling of scarified material from the road surface.

The material collected from the scarification of the existing road surface will be judged by the material engineer for its suitability for reuse/recycling on the project roads. The reuse/recycling can be uneconomical due to poor material quality and due to the small quantities. The judgment of the material engineer shall have the following three options.

**Option 1**: Scarification materials that meet the required specifications will be used as filler in constructing or repairing the shoulders.

Option 2: Scarification materials can be used to refill borrow pits and covered with topsoil.

**Option 3:** Scarification materials can be spread on earthen link roads, and compacted with rollers, improving the road surface as well as reducing road dust.

# 3.5 Contractor's Camps

For the construction of the sub-project, camps (temporary residences) will be established on the government land near the sub-project area, a minimum of 500 m away from the local settlements. The contractor will be responsible for preparing worker's Code of Conduct Plans and Camp Layout Plans and getting them approved by the Resident Engineer and PIU. The camp will be established after the approval of the layout plan. The size of the camp would be 3 acres/ can accommodate 15-25 headcount and after completion of the project, efforts shall be made to restore the area its original conditions.

## 3.6 Manpower Requirement

The manpower required by the contractor during the execution of the sub-projects will be determined by the Contractor and will be depicted in the contractor's ESMP, which needs to be approved by the CSC.

During the site surveys and the public consultations, the major demand of the community was the provision of jobs during the construction phase. Sufficient labor, particularly unskilled, was available in the sub-project areas.

The contractor will be bound through the contractor's code of conduct and contractual obligations to hire unskilled labor from the local communities. In case unskilled labor is not available from the local communities in the sub-project areas, the contractor will be allowed to hire from outside. The machine operators and drivers from the local communities will be preferred with valid driving licenses and experience in driving vehicles like (trucks, dumpers, and dozers, etc). This does not include the drivers, which will carry the stone from the quarry and other items like cement and steel from the local market. This process would be initiated with the consultation of elders of



different communities in an equitable manner; hence there would be no need to set up a large-scale camp<sup>10</sup>.

# 3.7 Borrow Material

The fill for the earthwork/embankment can be obtained from borrow areas where suitable soil is available. The Contractors will identify borrow (pits and quarries) areas as per their arrangement and get approval from PIU. The contractor will be bound to procure the material from authorized quarries and to get approval before the start of the work.

## 3.8 Machinery & Equipment

The construction work includes mainly earthworks. These works generally require earth-moving machinery such as excavators, dumpers, graders and rollers, transit mixtures, etc. The concrete works generally require a concrete batching plant and concrete placing equipment. The contractors will directly manage all the required equipment for the sub-project activities. The actual number and type of equipment required on the site will be determined by the contractor to carry out the work.

## 3.9 Construction Time

The execution works of the sub-project are proposed to be completed in the stipulated time (PIU determined to ensure project completion in 1 year) after the approval of PC-1 and the bidding process according to the procurement plan approved by the World Bank.

<sup>&</sup>lt;sup>10</sup> Very small = less than 10, Small= 11 to 20, Medium= 21-50, large = 51 to 200, very Large = more than 200



## 4. ENVIRONMENTAL & SOCIAL BASELINE

#### 4.1 Introduction

This section describes the existing environmental and socio-economic conditions of the subproject area. It provides the environmental and social baseline against which the project impacts can be measured. The chapter is focused only on the key issues related to the rehabilitation work. Moreover, it identifies the socially sensitive receptors along with the ROW of the proposed roads in the sub-project areas.

#### 4.2 Physical Environment

#### 4.2.1 Geography

The word 'Thatta' has been derived from the Persian word *Tah Tah* which means layer over layer. The term signifies the settlement of various civilizations in the area over time. The district is located between 23° 48" 44' to 25° 26" 35' North latitudes and 67° 20" 48' to 68° 44" 52' East longitudes. This district is bounded by Badin and Tando Muhammad Khan districts on the East, Jamshoro district on the North, Hyderabad district on the Northeast, Karachi district on the Northwest and the Arabian Sea and Runn of Kutchh on the South (refer to Figure-3).

#### 4.2.2 Soils

Soils of Thatta district are part of the vast fluvial system. The entire land is located in the tectonic trough, which has been filled by alluvium carried in from the Himalayas by the Indus and its tributaries. The parent material of the soils is mixed calcareous alluvium. The soils of the district are extremely saline, especially during the Monsoon period, but salinity declines in the post-monsoon months. The soils of the Indus Delta are river sediment deposits, consisting of generally fine to very fine sand in the delta reach. Soil types of the delta include mud, sand, and salt flats, sub-tidal creeks, inter-tidal creeks, sea bays, and straits, as well as vegetated sediments.

The soil of the riverine forests of the district is alluvial loam with varying proportions of clay and sand. New deposits are almost pure sand but become stable through continuous deposits of clay and silt. The origin and composition of the soil in the irrigated plantations are also similar to that of the riverine forests. Soil types in the sub-project area are silty, with some clay as well.

#### 4.2.3 Seismicity

The map shown in Figure 4 indicates that all of the sub-project areas are falling in Zone 2A, with peak ground acceleration (PGA) varying from 0.08 to 0.16<sup>11</sup>. It is a low-damage risk zone, meaning the areas that fall under these zones have a low chance of having an earthquake.

<sup>&</sup>lt;sup>11</sup> Pakistan Building Code of Pakistan, 2007





Figure 3: Geographic Map of Sub Project Area





Figure 4: Sezimic Zone Map of the Project Area



# 4.2.4 Climate

Thatta district is located in the southern part of the Sindh province in Pakistan. The climate of Thatta is generally hot and humid, with temperatures averaging around 28 to 35 degrees Celsius (82 to 95 degrees Fahrenheit) throughout the year. The hottest months are May and June, with temperatures often reaching 40 degrees Celsius (104 degrees Fahrenheit) or higher. The monsoon season in Thatta runs from July to September, bringing heavy rainfall and occasional thunderstorms. The district receives an average annual rainfall of around 150 to 300 millimeters (6 to 12 inches). Winters in Thatta are mild and dry, with temperatures ranging from 10 to 25 degrees Celsius (50 to 77 degrees Fahrenheit). The district is prone to cyclones and floods, especially during the monsoon season, which can cause significant damage to infrastructure and agriculture. The climate of Thatta can be challenging for those not accustomed to hot and humid weather, particularly during the summer months.

# 4.2.5 Rainfall

The last summer monsoon of the year 2022 with extraordinary torrential rains and subsequent occurrence of the flood, left unprecedented damage to road infrastructures. One of the principal benefits of surface drainage in the subproject area is the timely removal of excess stormwater from cropped areas. Rainfall in the sub-project area is sporadic and unreliable. However, most rain falls in the months of July to September and at this time, large storms can occur, where daily rainfall may exceed the annual average, as happened in 2022. District Meteorological Station is located within the catchment area, with precipitation data available from 1968 to 2011. Table 4 shows the 24-hour yearly maximum rainfall and Minimum and maximum temperature for Thatta.

Month	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Νον	Dec
Bainfall	2.5	2.4	1.4	4.1	2	0.1	44.4	70.5	20.1	2.0	2.2	0.2
Rainiali	2.5	2.4	1.4	4.1	2	0.4	44.4	79.5	30.1	2.0	3.3	0.2
Maximum Temp	25.9	29.5	36	41.3	44.5	43.3	40.5	38.4	38.9	38.8	32.8	27.5
Minimum Temp	13.7	16.4	22.2	27.7	30.2	30.6	30.1	28.8	27.7	26.5	21.9	16
Source: District Profile of Thatta												

## Table 4: Rainfall (mm) and Temperature (°C)





## Figure 5: Mean Monthly Max. & Mini. Temperature & Rainfall at Thatta

#### 4.3 Water Resources and Quality

#### i. Surface Water

The river Indus is the only river flowing near Thatta. The delta of the river Indus covers an area of 8,000 km<sup>2</sup> and extends along the coastline for about 200 km. The most important of the courses is Nai Baran, which rises in the Kirthar Range, around its southern extremity. Other important nais which are non-perennial streams of the district are the Gager and Ranpanthani.

There are many lakes in the district, of which the most famous are Kalri and Haleji. The Kalri/ Kinjhar Lake is a reservoir for feeding canals in the Thatta district and was formed by joining two lakes: The Kinjhar and Sonehri. Other lakes of the district are Aghimani in Thatta Taluka, Raeen in Mirpur Bathoro, Muyo Akil Shah Lake in Sakro Taluka and Makarvari Lake in Shah Bunder Taluka.

The proposed subproject roads cross Indo Distry (from Reconditioning of road from baghan jangisar road to jeety & Reconditioning of link from thatta jhimpir road to village siddiq mundo along jam wah), Puricha Minor (from Reconditioning of road from 103 mori at 18.0 kms to village khan memon and jan muhammad jatt), Jam Wah (from Reconditioning of road from at 5.0 km to connect village ali hassan baghiar via drgah misri shah), Naseer Distry (from Reconditioning of road from gharo keti bunder meeran stop at point 7.0 kms of saddar bridge dhandhari road tukro stop to khalifa) K.B.Feeder Upper (from Reconditioning of road from ghulamullah var road at 8.0 kms sama stop to village m ayoub, qasim samoo & haji lashan via ahmed chandio i/c link) Juho Minor (from Reconditioning of road from karachi thatta - hyderabad road at 170 km to connect village ibrahim shoro) & Takani Distry (from Reconditioning of road from juho to ahmed jatt ).

# ii. Surface and Groundwater Analysis

Due to the emergency nature of the works, the baseline environmental monitoring will be done by the contractor before the start of the civil works as per the approval of the CSC Environmentalist. Sampling from different locations in the sub-project area will be done by a Thirdparty instrumental environmental laboratory, which will be certified by SEPA as per SEQS 2016. The selection of locations for monitoring has been made with due consideration to socially sensitive receptors, nearby waterbody, i.e., canal, minor, etc. and the proposed camp location. The water testing has been planned and test results will be available before the civil construction activities. The rationale for the baseline environmental monitoring has been given in Table 5.

## 4.3.1 Air Quality & Noise Level

The sub-project areas are located in a sparsely populated rural area with no industrial or commercial activity. Vehicular traffic on dirt roads causes some dust emissions whose effect is fairly localized. However, traffic volume on the roads in the sub-project area is low compared to the national highways or other major roads. The ambient air quality tests and noise levels will also be monitored before the start of the civil work by the contractor after the approval of the CSC Environmentalist. The rationale for the baseline environmental monitoring is given in Table 5.

Sr. No	Monitoring Parameters	No. of samples	Rationale
1	Ambient Air	17	One from the proposed camp area, one from each road
2	Drinking Water/Ground Water	17	One from the proposed camp area, one from each road
3	Waste/Surface Water	16	One from the proposed camp area, one from each road due to the presence of Dhahds at subproject areas
4	Noise	32	2 from each road/nearby Socially sensitive receptor

Table 5: Rationale for the Baseline	e Environmental Monitoring
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## 4.4 Biological Environment

The sub-project area falls in a rural locality and has a limited diverse habitat, which supports a few varieties of faunal and floral species. The following broad categories have been identified for this report focusing on the sub-project areas.

## 4.4.1 Fauna of the Sub-Project Area

Mammals found in the district include the Asiatic jackal, jungle cat, fishing cat, desert cat, Bengal fox, Indian mongoose, grey mongoose, Indian civet, wild boar, Indian pangolin, palm squirrel, Balochistan gerbil, rats, house mouse, mole rat, Indian gerbil, desert jird, porcupine, and desert hare.



Reptiles and amphibians of the district include saw-back turtle, tree lizards, Afghan ground agama, Bengal monitor, brown grass skink, house gecko, black cobra, common krait, saw-scaled viper, Asian sand snake, rope snake or dhaman, bull frog, skittering frog, and the Indus valley toad. Crocodiles are found in the Kalri and Haleji Lakes.

Avifauna of the district includes cormorants, black bittern, grey heron, pond heron, egret, painted stork, common kite, black-winged kite, brahminy kite, shikra, white-eyed buzzard, marsh harrier, osprey, black and grey partridge, kingfisher, common koel, dove, gull, tern, plover, stint, redshank, bartailed gotwit, whimbrel, curlew, plover, stilt, pheasant, parakeet, lark, martin, swallow, shrike, black drongo, bank myna, house crow, bulbul, fly catcher, chiffchaff, wheat-eater, robin, wagtail, purple sunbird, Sindh jungle sparrow, and the weaver bird. In addition, a large number of migratory birds visit various lakes in the district. same has been depicted in Figure -6.



Funambulus Palmarum







Buzzard eagle



Red Fox





**Common Kingfisher** 





# 4.4.2 Flora of Sub-Project Area

Some of the flora of the district includes gum Arabica or babul (*Acacia nilotica*), aak or milkweed (*Calotropis procera*), vann or peelu (*Salvadora oleoides*), kandi or jand (*Prosopis spicigera*), karir or kair (*Capparis aphylla*), gugul or mukul myrrh tree (*Commiphora wightii*), gugul (*Commiphora stocksiana*), khejri (*Prosopis cineraria*), Indian tamarisk (*Tamarix gallica*), tamarisk or ghaz (*Tamarix aphylla*), leafless milk hedge or thor (*Euphorbia caducifolia*), sewan grass or ghorka (*Lasiurus sindicus*), poplar or bahan (*Populus euphratica*), sihar (*Rhazya stricta*), flea tree or siris/ sirin (*Acacia lebbeck*), chimber (*Eleusine flagellifera*), Iani (*Salsola foetida*), konaj (*Barleria acanthoides*), wiregrass (*Aristida sp.*), ber (*Zizyphus nummularia*), gondni (*Cordia gharaf*), mallow raisin (*Grewia villosa*), khimp or khip (*Leptadenia pyrotecnica*), desert thorn (*Lycium depressum*), honey tree or desert teak (*Tecoma undulata*), neem (*Azardirachta indica*), shisham (*Dalbergio sissoo*) and mesquite (*Prosopis juliflora*)<sup>12</sup>. Figure 7 illustrates the key floral species of the sub-project area



Salvadora Oleoides

**Capparis Decidua** 

Figure 7: Key Floral Species of the Sub-Project Area

<sup>12</sup> https://pakistanalmanac.com/sindh-thatta


#### 4.4.3 Endemic and Endangered Species

As far as the sub-project area is concerned, none of the endemic or endangered species of both flora and fauna were recorded from sub-project sites. Figure 8 illustrates that there were no identified protected areas in proximity to the proposed sub-project locations.



Figure 8: Locations of Protected Area with Respect to Sub-Project

#### 4.5 Socially Sensitive Receptors along the RoW

In order to identify potentially Socially Sensitive Receptors like religious structures, graveyards, Basic Health Units (BHU), hospitals, schools, etc., a survey of the COI was undertaken. Socially

sensitive receptors were identified through direct observation and by interviewing the local community near the sub-project area. Details of Socially Sensitive Receptors along the Proposed Roads have been enumerated in tabular form in Table 6 same has been depicted in Figure – 9.

The indirect impacts on the receptors have been evaluated at 200 meters/650 ft buffer zone of the proposed roads (100 meters/328 ft on each side from the centre line of the road). Most of the structures were located near towns and settlements in rural areas and away from RoW.

Mosques, shrines and graveyards are of historical, cultural and religious importance for the people. All of the receptors are out of the RoW. By applying a careful design strategy, all potential impacts were avoided. However, care will need to be taken during construction activity



#### Table 6: Socially Sensitive Receptors along the Proposed Roads

Sr. No	Name of Road	Existing Width/ ROW (m)	Proposed length for reconditioning (in Kms)	Socially Sensitive receptor *	Distance (ft) from the center line**	Side of Road (North /South)
1	Reconditioning / reconstruction of road from baghan jangisar road to connect village muhammad hassan otho via dargah khair shah	3.65	8.00	Graveyard	340	Ν
2	Reconditioning of road from baghan jangisar road to jeety	5.50	6.00	Mosque School	208 206	N S
3	Reconditioning of road from 105 mori shoro stop at 12.00 kms mureedani chowk to village alam jatt & noor m. Jatt / paryo jatt i/c links	3.65	10.00	None of the found in the	e socially sensit buffer zone	ive receptors
4	Reconditioning of road from 103 mori at 18.0 kms to village khan memon	3.65	8.00			
5	Reconditioning of road from 105 mori mahr mitho shaikh mureedani road to village ali muhammad rind via muhammad umer arain i/c links	3.65	8.00			
6	Reconditioning of road from gharo keti bunder road at 48 km to village allah dino shoani via masha allah shadi hall i/c links	3.65	3.00			
7	Reconditioning of road from sajjan khasheli road to village sawan shoro and village haji vikyo shoro i/c links to village juman & sadigue shoro	3.65	5.50			
8	Reconditioning of road from at 5.0 km to connect village ali hassan baghiar	3.65	6.00			
9	Reconditioning of link from thatta jhimpir road to village siddig mundo	3.65	4.00			
10	Reconditioning of road from gharo keti bunder meeran stop at point 7.0 kms of saddar bridge dhandhari road tukro stop to khalifa	3.65	5.00	School	310	N
11	Reconditioning of link from var city to muhammad suleman zangiani	3.65	3.00	None of the	e socially sensit	ive receptors
12	Reconditioning of road from gharo keti bunder road at 20 kms to village dilawar shalmani & pir allah dino shah		5.50	found in the	buffer zone	
13	Reconditioning of road from ghulamullah var road at 8.0 kms sama stop to village m ayoub, qasim samoo & haji lashan via ahmed chandio i/c link	3.65	6.00			
14	Reconditioning of road from karachi thatta - hyderabad road	3.65	6.00			
15	Reconditioning of road from juho to ahmed jatt	3.65	3.00			
16	Reconditioning of road from mirpur sakro to connect sindh coastal highway	3.65	12.00			

\*Category (Mosque, School, BHU, Hospital, Graveyard, Mazar, Mandir, etc.)

\*\*the indirect impacts on Socially sensitive receptors have been evaluated at 200 meters/650 ft buffer zone of the proposed roads (100 meters/328 ft on each side from the center line).





Figure 9: Socially Sensitive Receptor's Location Map



#### 4.6 Socio-Economic Environment

#### 4.6.1 Demography

Thatta Districts exist in Banbhore Division, also known as "Thatta Division" or "Bhambore Division", which is the sixth administrative division of Sindh. According to the 2017 census, it had a population of 982,138. The headquarters of the district is the city of Thatta. The district is further divided into four Talukas: Ghorabari, Keti Bunder, Mirpur Sakro & Thatta. Demographic details are depicted in Table 7<sup>13</sup>.

Factor	Thatta					
Area: km <sup>2</sup>	8570					
Population (Persons)	982,138					
Male	51.9%					
Female	48.1%					
Sex ratio (M:F)	108.09:100					
Population Density	114.60 per km <sup>2</sup>					
Urban Population	176,476 (18%).					
Rural Population	805,662 (82%)					
Avg Household size	5.35 people					
Literacy ratio 10+	27.88%					
Male	35.46%					
Female	19.63%					

Table 7. Po	nulation of	f the Thatta	a District
	pulation of		

#### 4.6.2 Population Density of Sub-Project Area's Tehsil

Sub project area falls into three Talukas: Keti Bunder, Mirpur Sakro & Thatta. The population density of these talukas is given in following Table 8 and depicted in Figure 10. The majority of the sub-project area falls in a rural setup as all these roads that are under rehabilitation are farm-to-market roads with short lengths only for reconditioning works.

0	NI -		<b>T</b> - 1 - 1 -	Develop	Danal
Sr.	Na	me of Roads	Гајика	Population	Rurai
No				Density	Population %
1	1.	Reconditioning of road from karachi thatta - hyderabad road at 170 km to connect village ibrahim shoro	Keti Bunder	77.43/Km <sup>2</sup>	92.8
	2.	Reconditioning of link from var city to muhammad suleman zangiani			
	3.	Reconditioning / reconstruction of road from baghan jangisar road to connect village muhammad hassan otho via dargah khair shah			
	4.	Reconditioning of road from baghan jangisar road to jeety			
	5.	Reconditioning of link from thatta jhimpir road to village siddiq mundo along jam wah			

 Table 8: Population Density of Sub-Project Area's Tehsils

<sup>&</sup>lt;sup>13</sup> https://www.pbs.gov.pk/sites/default/files/population/2017/results/09101.pdf.



Sr.	Name of Roads	Taluka	Population	Rural
No			Density	Population %
2	1. Reconditioning of road from gharo keti	Mirpur	115/Km <sup>2</sup>	86
	bunder road at 48 km to village allah dino	Sakro		
	shoani via masha allah shadi hall i/c links			
	2. Reconditioning of road from 105 mori shoro			
	stop at 12.00 kms mureedani chowk to village			
	alam jatt & noor m. Jatt / paryo jatt I/C links			
	3. Reconditioning of road from 105 mori manr			
	mitho shakh mureedani toad to village ali			
	A Reconditioning of road from jubo to abmed			
	iatt			
	5. Reconditioning of road from gharo keti			
	bunder road at 20 kms to village dilawar			
	shalmani & pir allah dino shah			
3	1. Reconditioning of road from 103 mori at 18.0	Thatta	106/Km <sup>2</sup>	75
	kms to village khan memon and jan			
	muhammad jatt			
	2. Reconditioning of road from sajjan khasheli			
	road to village sawan shoro and village haji			
	vikyo shoro i/c links to village juman &			
	sadique snoro			
	3. Reconditioning of road from at 5.0 km to			
	misri shah			
	4. Reconditioning of road from gharo keti			
	bunder meeran stop at point 7.0 kms of			
	saddar bridge dhandhari road tukro stop to			
	khalifa			
	5. Reconditioning of road from ghulamullah var			
	road at 8.0 kms sama stop to village m			
	ayoub, qasim samoo & haji lashan via ahmed			
	chandio i/c link			
	6. Reconditioning of road from mirpur sakro to			
1	connect sindh coastal highway			

#### 4.6.3 Languages

At the time of the 2017 census, 92.9% of the population spoke Sindhi, 1.4% Urdu and 1.1% Punjabi as their first language.

#### 4.6.4 Religion

The majority religion is Islam, with 96.7%% of the population. Hinduism is practiced by 2.7% and 0.6% are scheduled casts of the population.

Social harmony prevails in the area where people maintain their social relations and participate in each other's social and religious events.

#### 4.6.5 Health Facilities

According to the community, different communicable and non-communicable diseases are prevalent in the subproject area. These diseases include. typhoid, malaria, eye problems, diarrhea and other ailments. Due to long distances to health facilities in main cities, women with



complications die during the delivery cases. Within the sub-project area, there is a noticeable absence of healthcare facilities in close proximity, such as Basic Health Units (BHU), dispensaries, midwifery centers, and nearby medical stores. At the Union Council level, these are (BHUs) in operation, although the level of satisfaction with their services is considered moderate as reported by the community. The seriously ill patients are taken to Hyderabad.

#### 4.6.6 Occupations, Sources of Livelihood and Income Levels

Within the study area of sub-projects, canal-irrigated & rain-fed agriculture, as well as cattle farming, are the main sources of income for the people. Crops include rice, cotton, sugarcane, wheat, jowar, bajra, maize, sesamum, barley, gram, rape & mustard, moong, maash, masoor, arhar, guar seed, linseed, sunflower, and soya bean. Livestock mostly consists of sheep, goats, cattle, donkeys, camels, and horses.

The average livestock head per household is 12 in the sub-project areas, whereas landholding is very low while comparing the average land holding in the District i.e., Less than 4 acres. Some families also earn their living from small businesses like shops and daily wages, tailoring and other errands.

The lowest family monthly income was recorded as PKR 18,000, while the maximum family income was recorded as 35,000 in the subproject area. This low income shows the high level of constraints families face to meet their day-to-day needs in these high inflation times.





Figure 10: Population Density Map of District Thatta



#### 4.6.7 Transport

The major source of transport in the villages of the sub-project area is public transport, including buses, Van/pickup, Jeeps, Qingqi Rickshaw, while individual cars and motorbikes are other modes of transport in the sub-project area. The farm inputs and outputs are transported through trucks and tractor trolleys.

#### 4.6.8 Telecommunication

Telecommunications facilities are easily available in the urban areas of the district, especially in Thatta town. However, during the field survey, the community reported that there is no landline facility available in the sub-project area. The internet facility is easily available and most of the cellular networks operate in the district and the cellular coverage is much better in the sub-project areas.

#### 4.6.9 Energy Sources

Most of the sub-project areas are without electricity. The local community relies upon firewood, which can be collected in the surrounding area manually and can also be purchased from the nearby town market. The cost of firewood was reported to be Rs. 800 per 40kgs. Moreover, the use of solar PV systems and diesel generators for electricity generation required for irrigation was witnessed in some villages of sub-project areas. The electricity from diesel generators was mostly for nighttime irrigation.

#### 4.6.10 Housing

The majority of the population in the subproject area resides in small settlements of 30 to 100 houses. The walls of these houses were usually made from brick and cement/mortar. It was noted that the majority of the families were living in self-owned houses. These spacious houses usually have a boundary wall enclosing enough space for their cattle and other storage.

#### 4.6.11 Potable Water Supply

Invariably, groundwater was used for all domestic purposes; in the project area, no community water supply schemes were laid in these settlements. The population relied upon their private sources, with the majority using hand pumps for tapping groundwater. Most of the houses had their hand pumps, generally located in the courtyards of their houses. The groundwater is not palatable owing to its quality. It is brackish in taste, as reported by the locals during the field survey. The groundwater testing has been planned (Section 4.3: Table 5) and test results will be available before the civil construction activities.

#### 4.6.12 Sanitation

Sanitation: During the survey, it was found that there was no proper sanitation in subproject areas. In most of the villages/settlements, open defecation is practiced, while a small segment of the population uses direct pit latrines.



Waste: Like District Thatta, the subproject area also has no proper solid waste management system. Indiscriminate dumping and open burning of waste is a common practice.

#### 4.6.13 Social Cohesion and Conflict

The tribal system is strong in the subproject area. The majority of the population belongs to Jokhio, Palijo, Sheerazi, Soomro, Sammo, Syed, Memon, Khoja and Mirbahar tribes. Social organization in all the villages is strongly based on a tribal system, where almost every tribe has a tribal leader. The tribe leaders are mostly landlords and politically influential. All families belonging to the same tribes have strong interactions with one another but mostly remain separate from other tribes. The marriages are usually arranged within the same tribe.

#### 4.7 Traffic Studies

#### 4.7.1 General

A survey has been conducted at all 16 roads which undergo reconditioning. The present traffic status has been used to forecast traffic demand. In order to forecast the traffic demand, it is deemed necessary to review the present state traffic closely. The traffic volume, road conditions and traffic facilities, etc., have been surveyed.

Contents	Items	Description	Remark	
Traffic volume survey	<ul> <li>By selection, type, the direction of the vehicle</li> </ul>	24hr Survey For a total of 14 vehicle types	By the PEAS survey team.	
Travel speed survey	<ul> <li>The average speed of traffic by section and direction.</li> </ul>	A survey by actual drive.	By experts visit.	
	Socio-economic index	Socio-economic index of influence, direct/ indirect	Reference to	
Reference to Literature Data	<ul> <li>Land use plan and environs development plan for the neighboring area</li> <li>Installation of traffic facilities and relevant plans</li> </ul>	<ul> <li>Major geographic features and urban infrastructure</li> <li>Traffic facility installation plan Status of designation of region and zone</li> <li>Master plans associated with the project</li> </ul>	literature data. To be utilized as fundamental data of traffic demand forecast.	

#### **Table 9: Traffic Volume Survey Approach**



#### 4.7.2 Method of Traffic Volume Survey

- Period: 8 Feb to 11 Feb 2023 (for 4 days) •
- Method: On-site traffic volume survey by the consultant team
- Location: At Thatta 16 roads •
- Duration: 24 hours for project route

Classification of vehicles for traffic survey: Twelve different classes of vehicles have been considered in the current traffic count survey. Details of these vehicles are provided in Table 10.

Classification	Vehicle Type	Classification	Vehicle Type
1	Motor Cycle	7	Truck (2-axles)
2	Rickshaw	8	Truck (3-axles)
3	Car/Jeep	9	Truck (4-axles)
4	Wagon/Pickup	10	Truck (5-axles)
5	Mini Truck	11	Truck (6-axles)
6	Bus	12	Tractor Trollev

## **Table 10: Vehicle Classification**

Result of traffic Volume Survey<sup>14</sup>: Total number of vehicles counted at the proposed project location is summarized in Table 11.

Table 11:	Traffic	Volume	Survey	Results
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Classification	Thatta								
Survey Date	8 (Wed) Feb, 2023	9 (Thu) Feb, 2023	10 (Fri) Feb, 2023	11 (Sat) Feb, 2023					
Traffic volume	2,851	2,861	2,983	2,899					

#### 4.7.3 **Analysis of Traffic Present State**

#### Traffic volume characteristic of Thatta

Monthly adjustment factor: Monthly and daily adjustment factors are used to convert the traffic volume into Average Annual Daily Traffic (AADT). Weekly and monthly adjustment factors have been adopted by National Transport Research Centre. The adopted monthly and daily adjustment factors are provided in Tables 12 and 13, respectively.

#### **Table 12: Monthly Adjustment Factor**

Monthly	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Factor	0.9974	1.0935	0.9808	0.9711	1.0165	1.0019	0.9557	0.9943	1.0137	0.9753	1.0113	1.0010

Source: Traffic Factors for Pakistan III, 1992, NTRC (National Transport Research Centre)

#### **Table 13: Daily Adjustment Factors**

Monthly	Mon	Tue	Wed	Thu	Fri	Sat	Sun				
Factor	0.9920	0.9928	0.9888	0.9785	1.0101	1.0318	1.0126				
Source: Traffic Fac	Source: Traffic Factors for Pakistan III. 1992. NTRC (National Transport Research Centre)										

Pakislai

<sup>&</sup>lt;sup>14</sup> The connection between traffic assessments and the existing socio-economic conditions, along with the effects of road rehabilitation projects on specific road segments within sub-project areas, has been detailed in Section 11.2 & 11.4 of the PC-1.



**Conversion into average annual daily traffic volume**: AADT (Average annual Daily Traffic) = ADT/ (Monthly Adjustment Factor\* Daily Adjustment factor). AADT of various types of vehicles is provided in Table 14.

Motor	Care /		Mini			Trucks			Tractor
Cycle/ Rikshaw	Jeep	Bus	Truck	2-Axle	3-Axle	4-Axle	5-Axle	6-Axle	Trolley
1175	1309	32	96	145	27	3	0	9	102

Table 14: AADT of Various	s Types of Vehicles
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**Vehicle Type Composition:** The vehicle types and their numbers are given in Table 14 as the passenger cars are 1309 (45.17%), Buses are 32 (1.10%), Two axles are 145 (5.0%), Three axles are 27 (0.93%), Four axles are 3 (0.10 %), Six axles 9 (0.31 %), Tractor Trolleys are 102 (3.52%), motorcycles/rickshaws are 1175 (40.55%) and mini trucks are 96 (3.31%).". These are shown in Figure 11.



Figure 11: Vehicle Type Composition



#### 5. STAKEHOLDER CONSULTATION AND INFORMATION DISCLOSURE

This section describes the consultations undertaken with the stakeholders in the sub-project areas to explain to them the project components and activities and to seek their views and opinions on the sub-project. The consultations were held with communities/households located in the sub-project interventions, which are also the beneficiaries of the sub-project. They include households and owners of commercial entities bearing positive and negative impacts of the sub-project. Institutional consultation with the relevant government agencies is also made part of this section, delineating information disclosure of environmental social safeguards measures.

#### 5.1 Need of Consultation

The Environmental and Social Framework (ESF) of the World Bank under Environmental and Social Standard (ESS)-10 requires stakeholder engagement and information disclosure for the project. ESS-10 requires identifying and engaging stakeholders, especially the ones affected by the project activities. It advises building and maintaining a constructive relationship in order to increase their interest and support for the project and to provide the stakeholders with enough opportunity to record their concerns so that their apprehensions are satisfactorily addressed.

The ESF necessities that an Environmental and Social Management Plan (ESMP) be prepared through a process of consultation with all concerned stakeholders and publicly disclosed. The process helps to minimize adverse environmental and social impacts and reduces the expected conflicts at the design and implementation stages, minimizes the risk of sub-project delays at the construction stage, and enables making the subproject more economical and socially acceptable. Moreover, public consultations create a sense of ownership among the stakeholders regarding the sub-project and disclosure further ensures transparency in sub-project activities.

#### 5.2 Identification of Stakeholders

There are two types of stakeholders, i.e., project-affected parties and other interested parties. Project-affected parties are groups of individuals who are affected or likely to be affected by the project. The Other Interested Parties for the sub-project are the representatives of Government Departments/agencies involved in the planning, design, implementation and operation of the subproject, including various provincial government departments such as City/District Administration, Environment Protection Agency Revenue Department, Works & Services Department, etc.

#### 5.3 Engagement approach

For the community-level consultations, three days before the consultations (verbal communication), representatives of all the segments of the community were invited to the consultations. The invitation (verbal invitations, announcements through mosques, etc.), purpose, date and time of the consultations were shared with the stakeholders.



#### 5.4 Community Consultation

The social and environmental staff of consultants held consultation meetings with the local community residents of the sub-project area in March 2023. Details of Community Consultations are given in Tables – 15 while a summary of concerns raised by the community during the consultation is given in Table – 16.

The field team comprising the Environment and Social Safeguards Consultants visited the nearby communities of the sub-project to get the views of the people of the sub-project, who are going to be affected and who are beneficiaries. They appreciated the client for taking up the initiative of rehabilitation and restoration of rural roads and allied structures. According to the community, the rehabilitation works would enhance the communication means and transportation which will benefit the sub-project area.

The social and environmental team carried out a public consultation with the households and local people. Participants of public consultation meetings were briefed on salient features of the Environmental and Social Management Plan (ESMP) prepared for the sub-project. The team assured households that all project-related concerns raised by them would be addressed. Measures have been made part of ESMP to minimize the impacts during construction. Mitigation measures will be adopted to control noise and air pollution. Participants were apprised that their concerns and suggestions had been incorporated into the ESMP. In case of any complaint/grievance from the households, a well-defined Grievance Redress Mechanism (GRM) is devised in ESMP. Participants were also briefed on the GRM.

Name of Sub Project	Name of Settlement/ Village	Date of	No. of Participants
		Consultation	
Road No 1,2,9	Hajji Abdul Kareem	11-03-2023	15
Road No 5,3	Baghan	11-03-2023	10
Road No 4	Ismail Shror	12-03-2023	25
Road No 6	Mehmon Charn Goth	12-03-2023	15
Road No 7	Muradani	12-03-2023	10
Road No 8	Goth M Yousaf Shror	13-03-2023	10
Road No 10	Var Town	13-03-2023	12
Road No 11	Moranjihar	14-03-2023	15
Road No 12	Khairulla Shabir Shoro	15-03-2023	8
Road No 13	Gul Solangi	15-03-2023	10
Road No 14	Joho Goth	16-03-2023	15
Road No 15, 16	Thakani Dhahd	16-03-2023	10
	Total		155

Table 15:	Details of	Community	Consultations
-----------	------------	-----------	---------------

They applauded the efforts of the Department and SFERP. They were also informed that continuous liaison with the local community would be maintained to update them about the status of sub-project implementation. Their complaints, if any, will be redressed through the Grievances Redress Mechanism. It will provide the local community with a chance to address their concerns during construction activities. During public consultation/ interviews, the people of the sub-project



areas were fully involved and they came up with a positive conclusion: Some comments/ observations with actions/ responses from the community (male and female) are as follows.

### Table 16: Summary of concerns raised by the community during consultations

Comments /Observations	Action /Response	
Overall the participants appreciated the project and foresaw it as a positive sign of development. Participants raised a concern regarding temporary restrictions to access by-passers due to construction activities. They suggested undertaking construction activities at a quicker pace.	The team briefed that the contract will be bound to provide a schedule of work and that will be communicated to local people. The contract will also work in patches to reduce the risk of restrictions on access. Participants were also briefed on GRM regarding the enumeration of any concerns.	
The contractor should not dispose of their camp waste in the community area and it should be properly disposed of. Contactors should not cut the trees near the sub-	Waste from construction camps will not be dis- posed of in the community area. The camp area will be 500 meters away from the settlement. This will be monitored as per the EMP.	
project area for their consumption for food cooking in camps. He should arrange alternative sources like gas cylinders, etc., for cooking purposes.	The contractor will ensure the availability of gas cylinders for cooking in camps. All safety regulations for handling, storing, and using gas cylinders in the workplace will be followed by the contractor and supervised by the supervisory consultant.	
There should be a clear demarcation of RoW. The rehabilitation works should be implemented in such a way that the minimum number of trees is felled.	As far as the rehabilitation works are concerned, the rural area of Thatta witnessed that there are no plantations in the RoW. Therefore, no impacts on the flora of the area are envisaged.	
The Participants informed that most of the rehabilitation work is in rural areas and a number of socially sensitive receptors exist along the roads. Noise become a big issue that alters the social behavior of the local communities.	All vehicles, equipment and machinery used for construction will be regularly monitored to the emission levels that conform with SEQS. Vehicles and equipment used will be fitted as applicable, with silencers and properly maintained. In rural settlements, construction activities will be restricted to being carried out between 9 a.m. and 5 p.m.	
The contractor should not use local resources without the permission of the community.	The contractor will make arrangements for the utilization of resources with the consultation of the community as well as after approval from the competent authority.	
Participants from the sub-project villages, during the consultation, strongly demanded that unskilled labour should be hired from the local area, as there is an availability of unemployed young men.	Participants were told that local community people would be preferred for employment and this will be monitored during the construction phase by the social specialist of CSC & PIU.	
Consultation outcomes from Female participants		
Livestock movement could be disturbed by the increase in traffic and noise from machinery during project construction. Restriction of livestock grazing and accidental killings of livestock	Techniques to reduce the noise will be employed. Traffic routes will be planned to avoid disturbance to livestock as well as the community.	
The privacy of women may be affected due to the project. Women currently collect fuelwood, tend to	accidents. The field team briefed that the contractor will be bound to provide a schedule of work that will be communicated to local people. The chances for	



livestock, etc., and the family is concerned about their safety. However, with the increase of outsiders, this freedom of movement for women will be reduced.	outsider labour will be minimized by adopting a proactive approach like hiring local labour. The camp area will be 500 meters away from the settlement. Cultural emersion and sensitization training will be a part of the induction program for new employees. Moreover, the specific clause would be made part of the contract/ bidding document as below:
	Furthermore, the contractor has to abide by Labour Code of Conduct as well as mitigation measures regarding GBV/SEA as mentioned in the EMP.
Participants were of the view that proper dissemination of information about the sub-project may be ensured.	Participants were briefed about the sub-project in detail during field focus group discussions, interviews, and consultation while preparing ESMP. Interaction between the project and the community will be an ongoing process throughout the project and will be guided by the Stakeholder Engagement Plan (SEP). Project GRM will be available at the site level in case of any complaints.

#### 5.5 Institutional Consultation

The Environment and Social team conducted a consultation with relevant government departments in March 2023. The team briefed the officers of government agencies regarding the salient features of the sub-project. It was informed that the "Detailed Design of the Sub-Project, under PIU-SFERP being implemented by the W & S Department and funded by the World Bank. They were informed that the project intends to improve the roads which are affected by rain/flood water. The primary goal of the project is to meet the present and future requirements. It was also briefed that the project will bring positive impacts on the lives of the local population through improved mobility. Generally, the officials were of the view that the construction of the proposed project would have a positive impact on the people living in the sub-project areas. During the meeting, the officials extended their full cooperation for the proposed project and their views were in favor of the project. Details of Consultations with Line Departments are given in Table – 17 and Figure - 12 and while summary of concerns raised by institutional stakeholders has been given in Table – 18.

Sr. No	Designation- Department	Representatives of Department
1.	Deputy Commissioner, Revenue Department	Farid Uddin Mustafa
2.	XEN, Irrigation Department	Sohail Hameed Baloch
3.	XEN Highway Department	Hameed Shaikh
4.	Deputy Director (Technical) SEPA	Mr. Ali Nawaz
5.	Deputy Director SEPA	Mr. Imran Ali Abassi,

 Table 17: Details of Consultations with Line Departments





Consultation with Highway Department



Consultation with Irrigation Department



Consultation in P&DD Department

## Figure 12: Consultation with Line Department

Comments/Observations	Actions Responses
The majority of the stakeholders expressed their positive views related to the rehabilitation of flood-affected roads.	In general, the participants approved of the project and were of the opinion that there is a dire need for this kind of project as the recent floods had badly damaged these roads.
Detailed discussions were held regarding the screening of the sub-project according to the Sindh Environmental Protection Agency (Environmental Assessment) Regulations, 2021	As the proposed sub-project is restoration /rehabilitation the proposed, sub-projects According to Sindh Environmental Protection Agency (Environmental Assessment) Regulations, 2021, the sub-project falls under category schedule II – F. Transport 3. Rehabilitation or rebuilding or reconstruction of existing roads more than one kilometer in urban areas and more than 5 km from rural areas". Due to the emergency nature of work and, impact will be low and confined during the construction stage; hence in spite of submitting the IEE, monthly compliance & effect monitoring will be strictly follow-up. Moreover, it has been deliberated and reached a

Table 18: Summary of Concerns Raised	by Institutional Stakeholders
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Comments/Observations	Actions Responses
	consensus that the assessment of indirect effects on socially sensitive receptors will encompass a buffer zone extending to 200 meters (approximately 650 feet) from the proposed roads, with 100 meters (about 328 feet) on each side from the center line
The stakeholders suggested that the construction of the proposed project would lead to improvement in overall socioeconomic conditions in the sub-project areas.	Noted
The stakeholders suggested that the construction camp must be outside the settlements minimum of 500 away from the fence, to avoid social issues.	The camp will be about 500 meters away from the settlement; furthermore, camp activities will be kept confined within the boundary area, and activities will not be allowed during Juma prayer and other festive times/days.
The stakeholders suggested that care must be given to protect fauna and flora during the construction phase.	The plantation would be undertaken with the preference of local species; no exotic species will be promoted. The fruit plants will be provided to locals to plant in their adobe only.
The Stakeholder suggested that Emergency Preparedness and Response training should be given.	The duration of this training will be 3 days and will be free of cost. The training will guide the labor and staff in emergency preparedness and response to the emergency at construction sites.
The Stakeholder shows their concern regarding the impacts during the construction stage on waste management and land acquisition.	Social and environmental teams briefed about the mitigation measures that will be adopted to control dust, noise, health and safety issues. There are no issues regarding land acquisition. If the issues occur, then these matters will be dealt with Revenue Department. The contractor shall dispose of the hazardous waste through SEPA-certified contractors.
The privacy of women may be affected due to the project. Women currently collect fuel wood, tend to livestock, etc. and the family is not concerned about their safety. However, with the increase of outsiders, this freedom of movement for women will be reduced.	This impact intensity and probability will be low due to the hiring of local labour; anyhow, cultural emersion and sensitization training will be a part of the induction program for new employees. Moreover, a specific clause would be made part of the contract/bidding document as "No interaction of labour with women and children during the construction phase in the sub- project area."

#### 5.6 Information Disclosure

As a disclosure requirement, the environmental and social management framework (ESMF) will be uploaded on the project website i.e. www.sferp.gos.pk, while an executive summary of ESMP of the reported sub-projects will be translated into Sindhi after approval from the World Bank will also be uploaded on the website. In addition to this ESMP document will be made available at the campsite/s.



### 5.7 Future Consultation Plan

The stakeholder consultation is a continuous process and should be carried out throughout the life of the sub-project. The consultations carried out during the present ESMP stage and reported are essentially among the initial steps in this process. During the subsequent project phases as well, the participation of the project stakeholders needs to be ensured as per SEP of SFERP. Supervision Consultants, along with PIU staff, will ensure time-to-time consultation with locals to get their feedback on project activities and their related complaints.

The second phase of community consultation took place on August 12-16, 2023, at the central village location, which was collectively chosen during the invitation sessions with the beneficiary communities along the assigned road. The Community Consultation report has been included (as an Annexure XII) at the conclusion of the ESMP



#### 6. ENVIRONMENTAL & SOCIAL IMPACTS AND MITIGATIONS

The reconnaissance field visit was carried out to assess the social and environmental impacts of the activities to be undertaken for the construction of rehabilitation works. A screening checklist showing rapid assessment of potential environmental and social impacts, mitigation measures and residual impacts after mitigation reveals that the project activities will not cause significant disturbance and inconvenience to the local community and natural environment of the area rather than provide the safe and steady mode of communication by improved roads after the flood. All the impacts that have been identified during the reconnaissance are associated with the construction phase and minor to moderate in severity and can easily be mitigated through planning or adopting appropriate management measures. The minor impacts can be resolved through the best management practices. Social impacts such as getting borrow pit area, hiring laborers and setting up of labour camp will be mitigated according to applicable policies and procedures.

The social impacts associated with the rehabilitation works will be managed by proper guidance and strict monitoring of subproject activities. The Labour is expected to be recruited entirely from local areas, which will enhance their opportunity for better economic livelihood.

#### 6.1 Major Social & Environmental Impacts and Mitigations

It is evident from the screening checklist that the sub-project is very beneficial concerning the adjoining area. As regards the adjoining area, the people of this area will be the main beneficiaries. The following sections give in detail the possible environmental impacts and their mitigations.

During the construction stage of proposed rehabilitation works, the surrounding area will face some undesirable effects. Many impacts are temporary and may occur during construction. Some of them are described below.

#### 6.2 Topsoil Erosion

#### 6.2.1 Description

Excavation will expose bare soils that may erode. This will include sites such as; borrow pits, quarries, road embankments, culverts, bridge abutments and road diversions.

Runoff from rainfall can lead to erosion of the road surface or ditch bottoms. Drainage channels leading from the roads to nearby watercourses are receptors of soil and rock eroded from the unsealed surfaces of these roads.

#### 6.2.2 Mitigation Measures for Erosion

Excavation of earth fill will be limited to an appropriate depth of 15cm. Priority will be given to getting the earth fill material from the licensed contractors; where the use of agricultural land



is unavoidable, private land will not be taken until a prior written agreement (with local tradition) and documentation of relevant details of compensation (on prevailing market rates) are signed between the owner/s and relevant authorities. Furthermore, the top 15cm of topsoil will be stripped and stored and then replaced after the removal of borrowed material. Where deep ditching is carried out, the top half-meter layer will be stripped and stockpiled. The ditch will be filled initially with debris/scrap material from old construction and leveled with stockpiled topsoil later.

The provision for vegetation with a fast-growing crop and a native seed mix immediately after filling placement to prevent scour and encourage stabilization has been made in the design. Use of stone pitching or riprap has also been provided in the design at appropriate places, especially around culverts; Provision for rip-rap in discharge zones from drainage structures has been made in the design to reduce erosion; Side slopes will be adjusted to a gradient necessary to reduce erosion potential or, if steeper, stabilized, covered with riprap or other material to prevent soil erosion.

#### 6.3 Air Pollution

#### 6.3.1 Impacts of Air Pollution

During the construction phase of the proposed sub-project; some adverse impacts on the environment by suspended dust and noise are foreseen. As per ESS3 of ESF 2018, the contractor has to comply with the requirements for resource efficiency and pollution management and prevention. To meet this requirement, the contactor will prepare a Pollution Prevention and Management Plan (focusing on dust) before the start of the construction activities.

For the upgradation of culverts (the structures as listed in Annexure - IV) concrete mixture shall be required. The required quality and quantity of concrete will be prepared through concrete batch mixing plant. This batch plant requires cement, dry sand, gravel and water to be fed into its mixing chamber to prepare concrete. Considerable fine dust is emitted when bagged cement is loaded manually into the batch plant hopper, as well as with the conveyor system bringing the materials to the plant.

Air quality would be disturbed during the construction stage due to vehicular movement and the release of particulate matter PM<sub>2.5</sub> from vehicular emissions. Construction activities will generate dust and pollute the surrounding area. The emission from the machinery used in earthwork activities will also degrade the air quality of the site. The exhaust of noxious gases from the movement of heavy machinery will further pollute the air, which will adversely affect the health and vigor of plants. Smoke emissions from vehicular movement and heavy machinery would slightly cause the smoke problem in the nearby villages, which are located near the construction areas. The ambient air monitoring has been planned (Section 4.3: Table 5) and test results will be available before the civil construction activities.



#### 6.3.2 Air Pollution Mitigation Measures

Dust from the cement work has to be avoided by using bulk cement brought to the plants in large tanker trucks and transferred to the plant hoppers via a closed system. Batch plant/s will need to be equipped with dust suppression equipment.

Air pollution has to be effectively mitigated by adopting the following preventive measures;

- The Contractor will be required to have approval (from The Construction Supervision Consultant) for the dust abatement plan/Pollution Prevention Plan.
- Regular water showering will be performed to minimize dust pollution during the construction activities in sub-project areas. The use of grey water from the camp areas and wastewater from batching plants for this purpose will remain the priority. On the other hand, water (for construction activities) will be acquired from the newly installed tube wells in the absence of grey water and wastewater.
- All vehicles, machinery, equipment, and generators used during construction activities will be kept in good working condition to minimize exhaust emissions. The idling time of construction vehicles will be kept <2 minutes to minimize local air pollution.
- The maximum speed limit of 10km/h for all construction-related vehicles will be maintained within the sub-project area during the construction phase.
- Only the native species tree shall be planted in the sub-project areas. The forest department will be consulted for this purpose. Moreover, the plantation of rapidly growing trees, shrubs and grass will be prohibited in the sub-project areas.
- Ambient air quality monitoring will be conducted as per SEQS periodically and as per the Environmental Management Plan (EMP).

#### 6.4 Water Pollution

#### 6.4.1 Water Related Impacts

During the construction stage, different types of activities, such as cutting off rain/floodaffected roads, earthwork, and concrete work, might result in deteriorating the surface water quality. Water courses along the roads can be polluted during the rehabilitation works, specifically during the construction/rehabilitation of culverts by the accidental discharge of cement and other chemicals like epoxy and paints.

A secondary adverse impact is the potential spillage of chemicals, hydrocarbons and other pollutants as part of the construction process as well as contamination arising from the improper disposal of wastes (organic and inorganic) at the camp and work sites.

#### 6.4.2 Water-Related Mitigations

The asphalt shall not be applied during heavy rain to avoid it being washed into watercourses. To avoid the negative impacts of sub-project activities on the surface water, the water



channels (Indo Distry, Puricha Minor, Jam Wah, Naseer Distry, K.B.Feeder Upper, Juho Minor & Takani Distry ) shall be diverted properly. The Details of relevant RDs are given in Annexure IV. The protection mechanism shall be provided during the construction phase, otherwise the construction shall be undertaken during the dry season. The water testing has been planned (Section 4.3: Table 5) and test results will be available before the civil construction activities

The contractor will make arrangements not to rely on existing community water resources and will not obtain water from the sources currently used by the community in the sub-project areas. Moreover, the Contractor must provide the following facilities at each campsite: latrines; lined washing areas; septic tanks, and soaking pits for toilet waste. Key mitigation measures are listed below.

- The properly designed septic tank will be built for sewage treatment at the camps developed in sub-project areas. The soaking pits will also be developed for wastewater treatment from laundry, kitchen washings and showers. The Septic tank and soak pit shall be covered properly to avoid any obnoxious smell in the surrounding areas.
- The soak pit will be built in absorbent soil and located 300m away from a water well.
- Soak pits will be designed to accommodate wastewater generated during the total operation.
- At the time of restoration, septic tanks will be dismantled in place and backfilled with at least a 1m soil cover keeping in view the landscape of the surrounding natural surface.
- To overcome the drinking water contamination issue at the construction camp/s, the contractor shall install a solar-operated domestic water filter/150GDP with Ultraviolet (UV) to ensure safe and healthy drinking water for the workforce.
- The contractor shall prepare and implement a waste management plan under the supervision of PIU.
- The E & S team of PIU shall carry out regular monitoring of water quality as per EMP.
- Wastewater from laundry, kitchen washings and showers will be disposed of in separate soak pits.
- Soak pits will be built in absorbent soil and located 250 m away from a surface water source or groundwater well.
- The grey water will be collected from soak pits in the tankers. The tankers will sprinkle this grey water on the access roads to avoid air (dust) pollution.
- The water consumption will be monitored by keeping the records of water consumption. The contractor shall promote responsible behavior towards water consumption among the labor force. Additionally, the contractor must organize on-site awareness sessions for the labor force, emphasizing the significance of clean water and providing guidance on minimizing overall water wastage.



- Diesel, oil, and lubricants shall be properly stored following petroleum regulations<sup>15</sup>. This will be the responsibility of the contractor.
- Before the start of the construction activities, baseline environmental monitoring of air, water & noise, including the soil analysis (trace metals such as Cd, Zn, Cu, Cr, Pb and Ni as per WHO standards) will be conducted. The samples will be collected and tested by the SEPA-approved laboratory. The permissible limits/standards according to the World Health Organization (WHO) and the Food and Agriculture Organization of the United Nations (FAO) indicated for soil and limits set by SEQS for Air, Water & Noise will be followed as standards for the comparison during and after the completion of the construction phase.
- Appropriate arrangements will be made to stop stones and soil from slipping into the nearby water body.
- Avoid stockpiling of earth fill, especially during the monsoon season, unless covered by tarpaulins or plastic sheets;
- The waste collection sites will be designated, at the sub-project site, to dispose of any wastes generated during construction activities. ;
- Conduct surface quality inspection according to the Environmental Management Plan (EMP) while adhering to SEQS 2016.
- Community liaison will be maintained by the contractor and GRM will be established by PIU to address complaints related to waste disposal.

#### 6.5 Diversion of Water channels

#### 6.5.1 Impacts due to diversion of water course

Inadequate diversion of canal/water course will affect the water supply to agricultural land of communities living nearby, which may create a social issue. Insufficient diversions/bypasses around bridges and culverts under construction could cause a disturbance to construction activity as well as create a nuisance for the community and project workers. The proposed subproject roads cross Indo Distry, Puricha Minor, Jam Wah, Naseer Distry, K.B.Feeder Upper, Juho Minor & Takani Distry.

#### 6.5.2 Mitigations for diversion of water course

Preference will be given to work during canal closure days. If not possible, then the contractor should provide an adequate-sized diversion so that there shall be no disturbance to the water flows of the canal /water course. Schedules for construction activities along the water body have to be prepared with the consultation of the local community and active GRC needs to operate all the time.

<sup>&</sup>lt;sup>15</sup> https://ogra.org.pk/download/3620



#### 6.6 Noise Pollution

#### 6.6.1 Impacts of Noise Pollution

An increase in ambient noise and vibration is expected due to the operation of heavy construction machinery such as bulldozers, excavators, pneumatic machinery, etc. Noise pollution generated by the activities is likely to have impacts on sensitive receptors located within 500 meters of the construction area. High ambient noise can have adverse psychological and physiological effects (increased blood pressure, sleep disturbance, etc.) on communities near construction sites and can also cause significant disturbance to local wildlife.

#### 6.6.2 Noise Related Mitigation

- Good working condition and be properly tuned and maintained throughout construction work to minimize excessive noise/vibration.
- Noisy construction work will be limited to normal working hours to minimize disturbance to nearby communities.
- When possible, noisy construction activities (e.g. concrete mixing) will be displaced from the construction sites to a distance of at least 2 kilometers from the nearest sensitive receptors.
- Construction schedules will be disclosed to communities in a 2-kilometer vicinity of proposed project intervention sites before beginning construction work.
- Ambient noise will be regularly measured to ensure that the thresholds set in the SEQS are not exceeded.

The noise level monitoring has been planned (Section 4.3: Table 4) and test results will be available before the civil construction activities. Noise monitoring will be conducted as recommended in ESMP as per SEQS.

#### 6.7 Waste Management

#### 6.7.1 Impacts of Waste

As part of the reconstruction process, the asphalt layers of the existing road will be removed, together with base course material that is unsuitable for re-use. There will also be unused construction material (sand, crush), empty drums, concrete waste and waste from work camps.

Proper management of waste is also important because of the risk that improper waste handling and disposal pose to human health and environmental degradation. Careless and

indiscriminate open dumping of wastes can create unsightly and unsanitary conditions within the project area.

The total quantity of domestic waste generated will vary depending on the strength of labor that the contractor poses to use. Most of the laborers will be locals who will return to their homes at the end of the working day. A maximum of about 25 % of labour, comprising mainly skilled labour will reside at construction camps at the peak of the works.

#### 6.7.2 Mitigation for Waste

The asphalt and base course removed from the existing road will be recycled. It may be reused in the soft shoulders or as fill for other parts of the new road depending on the quality of the material. It may also be used as a backfill for borrow pits and then over-lain with topsoil. Asphalt can be pulverized, spread on access roads and compacted.

The waste dumping locations will be designated for construction debris and nonhazardous solid waste with the consultation of the respective Taluka Municipal.

The hazardous waste will be managed as part of the Waste Management Plan and disposed of through Sindh EPA-approved waste contractor under section 13 of the Sindh Environment Protection Act 2014.

For solid wastes, the following mitigation measures are recommended:

- No waste will be disposed of in the field. All waste will be disposed of in the waste bins provided within the working area.
- Combustible, noncombustible and hazardous waste will be temporarily stored on-site in the designated locations and handed over to approve waste contractors for recycling purposed and safe disposal.
- The labour (skilled and unskilled) will be provided with relevant training and they will be encouraged to reduce and reuse waste wherever possible.
- The waste from camps will be collected regularly and transferred to designated storage areas at the sub-project site. This waste will then be transferred for final disposal with the cooperation of local admiration.
- The Waste Management Plan (WMP) will be drafted and approved by PIU. This will include detailed procedures for the collection and disposal of wastes with each waste stream separately.

#### 6.8 Traffic Management

#### 6.8.1 Traffic diversion and/or road closure.

Rehabilitation of road works significantly impacts traffic movement. This shall be avoided as far as possible by proper planning of construction works. Excavation along the roads, hauling

of construction materials and operation of equipment on-site can cause traffic problems. If traffic diversion and/or road closure is required for the proposed works, prior consent from the relevant department will be acquired and prior information to affected areas and the public will be disseminated through consultations by PIU. The potential impact is negative but short-term and reversible through strategic mitigation measures.

#### 6.8.2 Traffic/Access-Related Mitigations

- A Traffic Management Plan will be developed and implemented to address the traffic management issues during the reconditioning of roads in sub-project areas. ;
- L Entry and exit points will be located in areas with the potential for traffic congestion. ;
- All the sub-project sites will be set free from all unnecessary obstructions Coordination with Traffic/Local Police will be acquired for temporary road diversions and provision of traffic aids if transportation activities cannot be avoided during peak hours.;
- Proper road signage and traffic aids shall be provided at the site. All necessary safety
  precautions, including signboards, temporary signals, skilled traffic guides, traffic
  diversions, electric lights, demarcation of construction work lanes/worksites/excavation
  areas, construction equipment/plant/machinery, separate active/live traffic lane from the
  active construction work sites will be utilized for appropriate traffic management.
- The traffic management signage will be proactively updated well in advance on the basis of planned construction activity.
- Notify socially sensitive receptors by providing sign boards informing nature and duration
  of construction works and contact numbers for concerns/complaints. Outreach to nearby
  communities, informing them of road closures and construction schedules. Conduct an
  awareness program on the nature of work, likely disturbances and risks.

#### 6.9 Biodiversity

#### 6.9.1 Impacts on Biodiversity

The following mitigation measures will adhere to ESS6 (Biodiversity Conservation and Sustainable Management of Living Natural Resources). No tree cutting has been involved due to existing RoW being used for Reconditioning work and no rare or endangered aquatic, faunal, or floral species occurring in the sub-project area. Furthermore, all of the roads are in a rural area, so no wild animals or critical habitats will be impacted. The sub-project will pose a minor negative impact on the fauna present in the area.

#### 6.9.2 Mitigations for Biodiversity

During the baseline survey of the sub-project area, no endemic or rare species were observed in Col. All species recorded during the field survey have a wide range of distribution. Since the campsite will occupy small areas and will be located in existing clearings, the impacts are reversible and localized by adopting mitigation measures. Use of local vegetation as fuel by labor will be prohibited.



Sites for construction camps and storage areas will be chosen to minimize vegetation removal and land clearing. No hunting, harassment, or netting of wildlife will be permitted. No clearing of bushes will be allowed during the nesting/breeding season of birds. Maximum effort will be made to save rodent colonies during construction.

The camps will be properly fenced and gated to check the entry of wild animals in search of eatable goods.

#### 6.10 Occupational Health & Safety

#### 6.10.1 Impacts on Construction Workers

The health and safety risks that could impact the construction workers are primarily associated with the construction activities of the sub-project. In particular, the various risks of injuries and accidents for workers are related to the rehabilitation and reconditioning of flood-affected roads and associated activities. The typical risks include exposure to the physical hazards of using the construction equipment, working near running traffic, operating equipment, working on and near scaffolding, tripping and falling, handling bitumen, burns, exposure to noise and dust, falling objects, traffic hazards associated with the operation of project-related vehicles, exposure to hazardous materials and exposure to electrical hazards related to the use of tools and machines as well as the prevalence of the incidence of respiratory diseases as a result of dust and emissions.

#### 6.10.2 Health and Safety-Related Mitigations

The following steps are suggested for the proper management of occupational health and safety within the sub-project area:

- The specific Labour Management Plan, OH&S Plan and Community H&S Plan will be developed according to Sindh Occupational Safety and Health Act 2017 while adhering to the ESS2 – Labor and Working Conditions as well as Labour Management Procedure (LMP) and will submit to the PIU for review and approval. When approved, the contractor will implement the plan during the construction period. This plan will describe all jobs, their risks, and the controls that will reduce risks; these controls may include PPEs, restrictions on activities or locations, and other measures. The plan will also describe the type of training which will be given to the workers. Those who work near water, at heights, and with heavy equipment will need special training so those hazards can be managed and minimized.
- All the relevant Personal Protective Equipment (PPEs) will be provided to the labour on the job, and their used will be ensured during the construction activities.
- The contractor will train his crews on the aspects covered in the above-described Plan;
- The contractor shall fence the working area and unauthorized shall not be allowed to enter the area;



- The contractor will hire an HSE officer with adequate experience to address the above impacts.
- The Contractor will display signboards and banners about traffic diversion at places on detour routes;
- Provision of speed breakers will be made at appropriate places in consultation with/approval of the Engineer, which should be removed after completion of the project;
- The Contractor will be maintained workers' hygienic conditions in labour camps.
- The Contractor shall make available the first aid kit, snake bite kit and bandages at all times and at all the sites. Moreover, paramedic staff will be available on-site and the cost of hiring will be a part of the BOQ item. The location of these kits shall be marked and shall be easy to access by all.
- No private property without permission of the owner will be used for transportation;
- Community liaison will be maintained during the construction stage and GRM will be established to address complaints related to safety hazards.

The contractor will also prepare an emergency preparedness & response plan to address events such as urban floods, fires, earthquakes, injury/death, and accidents.

#### 6.11 Community Health & Safety

#### 6.11.1 Impacts due to Project Activities.

The potential impacts shall be direct, such as being struck by moving vehicles within and outside the sub-project area and indirect, through the decrease in air quality surrounding the sub-project area. The air quality will be reduced as a result of increased dust generated from construction and on transport routes, as well as due to emissions from plants and vehicles. The impact will continue for the duration of the work.

#### 6.11.2 Potential Mitigation Measures.

- The entry for irrelevant people, especially children, will be restricted to the active subproject. ;
- Timely public notification will be displayed on planned construction works;
- cooperation with local educational facilities will be sought for road safety campaigns, especially when/if a school is located in the indirect impact area;
- Proper safety and diversion signage will be provided, particularly in socially sensitive receptors areas;
- Speed limits will be set up in close consultation with the traffic police; and
- During construction work, pedestrian and vehicular passages shall be provided for safe crossing near the settlement;
- Open trenches and deeply excavated will be barricaded by soft and hard barricading to avoid any accident.



#### 6.12 Physical/Community Infrastructure

#### 6.12.1 Damage to Physical Infrastructure

The construction works can potentially damage existing infrastructure, such as roads, culverts, and electricity lines. Some of this infrastructure may need to be relocated to allow the proposed works to be carried out.

#### 6.12.2 Mitigations to Physical Infrastructure

During the field survey, it was confirmed that no public infrastructures are observed within the buffer zone, which creates hindrances in the execution of the work. Anyhow if any unforeseen event happens, all damaged/removed infrastructures will be repaired/ restored to their original or better condition. A good liaison with the community will be maintained and a site-based GRM will be established to address any related complaints.

#### 6.13 Cultural Heritage

During the field survey, it was established that there is little likelihood of buried archaeological sites as no archeological or cultural heritage has been identified with a minimum of 500 meters of sub-project area<sup>16</sup>.

#### 6.13.1 Chance Find Strategy

The sites or items of heritage significance could be found in the course of development work. The "chance finds" procedure covers the actions to be taken from the discovery of a heritage site or item to its investigation and assessment for siting and designing a project to avoid significant adverse impacts to the culture the client is responsible for heritage. It would be ensured that the "chance finds" object will not be disturbed until an assessment by competent professionals is established and all the actions/responses will be consistent with the requirements of ESS8 – Cultural Heritage. This standard sets out measures to protect cultural heritage throughout the lifecycle of the project.

- i. In the case of a chance find, the site will be secured and will be reported immediately to PIU. The works will not recommence until approval from the relevant authority.
- ii. Meanwhile, the contractor will cease their operations and due caution will be ensured for archaeological remains.

<sup>&</sup>lt;sup>16</sup> The 500m setback is based on the average zone of the impact that is expected from the sub-project. However, this distance may vary with the type and level of activity, sensitivity of the area, and probability of impacts. The dates of consultations (2 March 2023)



#### 6.14 Labour Influx

#### 6.14.1 Impacts of Labor Employed from Outside

Some social impacts could arise due to labor influx. There shall also be a risk to community health from HIV/AIDS/COVID-19 or other transmitted infections as a result of the presence of migrant construction labour. There could be the risk of gender-based violence from migrant labour, which often remain away from home on the site. This may lead to inappropriate behavior, including sexual harassment of women, girls and boys in the local community. This could especially be relevant in case the nearby population is from any marginalized group, e.g., the Hindu community.

#### 6.14.2 Mitigation Labour Influx

A large-scale labor influx is not expected due to the availability of local unskilled labor supply in the subproject area and the scale of works anticipated under the subproject. Except for a limited number of managers, supervisors and skilled workers, the majority of workers may be sourced locally or from nearby areas within the district. The priority for local labor (dependent on skill, and experience capacity) is expected to minimize the risk of labor influx. As part of the mitigation process, the camps will be located at least 500 meters away from local communities to avoid social conflict as well as to avoid any possible adverse impacts. Fencing will be provided around the campsite and the Contractor will be providing security. The camp layout plan and workers' code of conduct will be prepared and implemented.

The contractor shall include proposals for worker's training plan which must include training and awareness sessions about HIV/AIDS/COVID-19/Communicable diseases/Gender Based Violence (GBV)/sexual harassment, child abuse, and human trafficking and the spread of sexually transmitted diseases. The contractor shall also develop a code of conduct for workers along with the worker's training plan.

# 6.15 Gender Base Violence (GBV), Sexual Exploitation & Abuse (SEA)/Sexual Harassment (SH)

#### 6.15.1 Impacts related to GBV/SEA/SH

Although the influx of workers will be minimal, as discussed earlier, new workers (outside of their social spheres) may form close social relationships with local communities. This can lead to unacceptable and/or illegal behavior, ranging from unwanted aggressive advances SEA/SH against women and children.

#### 6.15.2 Mitigations related to GBV/SEA/SH

As part of the mitigation strategy, training/orientation sessions will be conducted to sensitize PIU and the Contractor's staff/workers on the importance of addressing GBV/SEA/SH risks at the project level. A written contract with on-job workers will be signed, materially consistent



with the objective of ESS2, following the procedures as specified in the World Bank's Procurement Regulations. The workers will be required to sign a Code of Conduct (CoC) prepared by the Contractors and reviewed and approved by PIU.

#### 6.16 Violence Against Child (VAC & Employing Child Labour

#### 6.16.1 Impacts Related to VAC & Child Labour

Although the risks of VAC & child labor are anticipated on the lower side, there may be instances if a person below 18 years of age will be hired on the job. Children hired at labor sites are susceptible to unfair treatment, exploitation and violence because their hiring may be depicted as a favor to them, and they may be talked into not raising complaints for fear of losing a much-needed source of income.

#### 6.16.2 Mitigations Related to VAG & Child Labour

Only persons above the age of 18 years will be hired at construction sites, and their age will be confirmed by checking their government-issued Computerized National Identity Card (CNIC), which is only provided to persons above 18 years. Moreover, for child labour in hazardous work, the Sindh Prohibition of Employment of Children Act 2017 act will be followed, which states that the minimum age is 18 years and above for hazardous work. However, if other labor-related risks arise during project implementation, the PIU will develop procedures to prevent their potential impacts. This will include awareness-raising sessions, which will be conducted regularly in the communities to sensitize on prohibition and the negative impacts of child and forced Labor.

#### 6.17 Human Resource Development

During the construction stage, the local population will be prioritized to get jobs in the form of semi and unskilled labor. The contractor will be ensured that unskilled and skilled labour wages will be followed by the minimum wages act/policy.

#### 6.18 Road safety Risks and Mitigations

The increased vehicular movement and speed may result in road safety issues like traffic accidents. The impacts of road safety would be permanent and moderately negative. They will be mitigated by enforcing speed limits and imposing penalties on traffic violators. Traffic signs will be provided to inform road users about speed limits, turns, speed breakers, informative signage for Socially sensitive receptors, etc.

Warning messages will also be displayed at appropriate locations and local language to aware drivers of likely accidents due to over speeding. All the median and sharp bends will be reflectorized to facilitate travelers in the night time.



Zebra crossing and traffic calming measures, including additional signage, marking & rumble strips with raised walkways and speed restrictions, etc., shall be given near socially sensitive receptor areas.



#### 7. GRIEVANCE REDRESS MECHANISM (GRM)

#### 7.1 Grievance Redress Mechanism (GRM)

The grievance redress mechanism (GRM) is an institutional arrangement that allows stakeholders to address grievances related to the project through a timely, transparent, and predictable process. A grievance is defined as any formal communication that expresses dissatisfaction about an action or lack of action, about the standard of services, works or policy, deficiency of service, works or policy of the project management and its implementation mechanism. During project execution, different issues and constraints may arise. In this situation, if stakeholders have inadequate means to voice and resolve grievances, they may turn to other venues, which may be cumbersome and lengthy, leading to delays in the project. Alternatively, if their grievances remain unresolved or ignored over time, it may lead to inflexibility, stalemate and delays for the project to meet its sustainable development goals.

The SFERP GRM will be gender-responsive, culturally appropriate, and readily accessible to the stakeholders at no cost and without retribution. It will enable Project Affected Persons (PAPs), local communities, employees, and other affected stakeholders to raise grievances and provide suggestions vis the sub-projects with the project proponents and contractor/s and seek redress when they perceive a negative impact arising from the activities. This mechanism serves as a platform to promptly resolve and address community concerns, reduce risks, and strengthen systems and processes, thereby contributing to positive service delivery. Therefore, the complaints/grievances should be addressed through a well-organized Grievance Redress Mechanism (GRM) covering all activities under the project.

#### 7.2 Objective and Composition of GRM:

The principal objective of GRM is to implement and maintain a procedure for handling the environmental and social concerns of the project stakeholders. This procedure will include a redressal mechanism scaled to the project's identified risks and adverse impacts, focusing on stakeholders. Standard Operating Procedures (SOPs) and informational material will be prepared for the SFERP GRM in Urdu, Sindhi and English and made publicly available as soon as the Project begins implementation and before contractors mobilize to sites.

#### 7.2.1 Specific Objectives:

- i. To provide effective communication methods and systematic process for complaints registration and to provide a prompt, transparent and fair response and resolution without reprisals for the environmental and socially affected stakeholders of the sub-project area;
- ii. To provide project staff with practical suggestions/feedback that allows them to be more effective, accountable, transparent, and responsive to beneficiaries;
- iii. To demonstrate responsibility towards the local community for their environmental wellbeing by preventing and mitigating any adverse environmental effects caused by the subproject activities.



- iv. Increasing stakeholder involvement in the project. To provide free and fair access to diverse members of the local community, including more vulnerable groups such as women and youth, keeping confidentiality and privacy of complainants.
- v. The GRM is expected to address 4 types of complaints: *Compensation*; *Environmental issues* (e.g., noise, pollution, solid waste management, flora/fauna, etc.); *Social issues* (Exclusion, Inclusion); *Gender Based Violence (GBV)*; and *others.*

#### 7.3 GRM structure

The SFERP grievance redressal mechanism (GRM) is established at three levels starting from the site, PIU and the Project Steering Committee (PSC). The process at each level is defined as under:

#### 7.3.1 Site-level Grievance Redress Cell (GR Cell)

At the site level, a GR cell will be established to enter the PAPs concerns/grievances. The Community Liaison Officer (CLO) appointed by the Contractor will be its Focal Person/Convener and be responsible for registering grievances and maintaining all records. Grievance Focal Points (GFPs) will be nominated by the community at each sub-project site. These will be men and women whom the community can easily approach. Grievances can be received by GFPs or the CLO in writing or by word of mouth and recorded in the grievance register by the CLO. The Grievance Register contents will be kept updated by the CLO and s/he will share the monthly Grievance Register with the Grievance Redress Committee (GRC) at PIU level so that the GRC can maintain a consolidated record of all Project sites' grievances. The contractor and the project manager are responsible for resolving site-level grievances. If a grievance remains unresolved, it will be sent in writing by the project manager of each sub-project to GRC.

The responsibilities of GR Cell shall include the following:

- 1. Review, consider and resolve grievances site level;
- 2. Conduct fact-finding pertaining to grievances;
- 3. Resolve grievances within a period of one week;
- 4. Undertake analysis of data on grievances and use this to make informed decisions;
- 5. Maintain confidentiality of complainants wish to remain confidential;
- 6. Maintain an updated GRM database/ Complaints Log;

During the complaint investigation, the GRC works with the Contractor and the CSC. If mitigation measures are identified in the investigation, the Contractor promptly carries out the mitigation. CSC is responsible for ensuring that the Contractor carries out the measures.

### 7.3.2 Grievance Focal Points (GFPs)

The GFPs will be men and women from each community who will assist and facilitate the community members in reporting grievances resulting from project activities. The GFPs will be provided training by the PIU/CSC in facilitating grievance redress.

GFPs will be identified by the relevant community in consultation with the Social Safeguard team of PIU (SFERP), CSC and CLO. The GFP would be responsible for making the community aware of the following components:

- Inform people about the GRM and how it works, and their options depending on the types of complaint;
- Types of grievances not acceptable/eligible to the GRM;
- Intake channels at the GRM, e.g., phone numbers, postal and email addresses, and website and information that should be included in a complaint;
- Inform the Complainant of the investigation results and the action taken, and the option of appeal to PSC if not satisfied with the outcome;
- Two GFPs (a female and a male) will be selected for each sub-project site.

#### 7.3.3 PIU Level GRM

A Grievance Redress Committee (GRC) has been established at SFERP PIU office, which shall resolve the grievances of affected persons/parties received at the PIU level. If a grievance remains unresolved at the PIU level despite making best efforts till the stipulated time of 21 days, it will either be retained for another 21 days with the prior agreement of the Project Director and the complainant or sent to the Project Steering Committee (PSC) for resolution, depending on the GRC's assessment on which is the best option to facilitate a resolution.

The GRC will function as a dedicated body that ensures the grievance redress process is effective and efficient. It will comprise Environmental, Social Safeguard and Gender Specialists of PIU, a Representative of the District Commissioner's office, and community/civil society members from sub-project areas. Its Focal Person/Convener will be the Social Safeguards Specialist. Decisions or findings taken in the GRC would be binding upon the contractor.

The PIU will issue public notices to inform the public about the Grievance Redress Mechanism (GRM) sub-project area. The contractor will also display prominent signage containing the contact details of GRC in the Sindhi language. The complainant(s) can lodge their grievances through an email, phone (021-99332368), and fax number (021-99332530) at GRC based at PIU.

These phone and fax numbers and email IDs will be managed by GRC based at PIU. The Social Safeguard Specialist will be the designated focal person to receive a complaint(s) in writing through calls, fax and emails. The Social Safeguard Specialist will have resources and facilities to maintain a complaints database which will be digitized and available online and will communicate with the contractor, Site Engineers, and CSC.
Given that female community members have restricted mobility outside their villages and homes, the female PIU staff (Gender Specialists) will be required to visit the local communities to record grievances. The frequency of visits will depend on the nature and magnitude of activity in an area and the frequency of grievances.

The responsibilities of the GRC at PIU are:

- 1. The Social Safeguard & Resettlement Specialist shall be the focal person for GRC, which is responsible for logging the complaint and date of receipt onto the complaint database and informing the CSC and the Contractor;
- 2. The GRC will coordinate with local government to receive project-related complaints made directly to them;
- 3. The GRC shall review, consider and resolve grievances related to environmental and social issues during implementation received at the PIU level;
- 4. The GRC, with the CSC, is responsible for investigating the complaint to determine its validity and assess whether the source of the problem is due to project activities and identifying appropriate corrective measures. If corrective measures are necessary, GRC, through the CSC, will instruct the Contractor to take necessary action;
- 5. Resolve grievances presented to the GRC within a period of two weeks;
- 6. Inform the Complainant of the investigation results and the action is taken;
- 7. Undertake analysis of data on grievances and use this to make informed decisions;
- 8. GRC decisions, if not acceptable to the complainant(s), can be appealed to the PSC;
- 9. Maintain an updated online GRM database/Complaints Log.

## 7.3.4 Appeals at the Project Steering Committee (PSC) Level

The PSC will meet on a quarterly basis to hear grievance cases during its regular meetings and will be convened for special grievance redressal meetings as needed. PSC members and the Secretary will address the grievance with a viable resolution. The below Figure 13 flow chart shows the grievance entry points:





The GRC composition at different levels is given below.



#### 7.4 GRM for workers

The Community Liaison Officer (CLO) will serve as the Grievance Focal Point (GFP) for labor/workers complaints at the site level. If the issue is successfully resolved, no further follow-up is required, and the case shall be documented and closed. In case the grievance is unresolved at the site/contractor level, the workers may directly approach GRC about their grievance. The prominent signage containing the contact details of GRC in the Sindhi language will be displayed at each site.

## 7.5 Grievance Redress Mechanisms for GBV and SEA/SH

Grievance Redress Mechanisms (GRM) will integrate mechanisms to track complaints related to SEA/GBV, including a feedback system for regular and timely feedback on actions taken to respond to complaints. These mechanisms will protect the confidentiality of individuals without compromising access to justice.

Grievances related to GBV and SEA/SH will always be escalated to the PIU, and will be dealt with by the PIU designated GBV specialist. GBV/SEA-related complaints will be communicated to World Bank no later than 48 hours after being received by the GR Cell (site level) or by the GRC (PIU level).

The GRC/PIU will assist GBV survivors by referring them to GBV Services Provider(s) for support immediately after receiving a complaint directly from a survivor. A list of GBV service providers will already be available with the GRC before project work commences. In general, the timeframe for resolution of complaints shall not exceed 21 days.



Grievances related to GBV and SEA/SH will be forwarded to the staff specifically trained to handle these types of complaints. The Social Specialist (as GRC Focal Person) and the Gender Specialist at the PIU will receive the necessary training to handle such sensitive cases.

The GRC will develop specific procedures to ensure complainants can register their grievances anonymously and in a survivor-centered and discreet manner. The GRC will assist GBV survivors by referring them to GBV Services Provider(s) for support immediately after receiving a complaint directly from a survivor.

# 7.6 Role of Contractor in GRM Complaints Register

The Contractor will maintain a complaint register at the campsite office to document all complaints received from the local communities. The register will also record the measures taken to mitigate these concerns. The final report regarding complaint closing will be communicated to CSC, the project manager is responsible for providing the record to GRC/PIU. The PIU shall carry out the monitoring of the implementation of measures for the eradication of complaints.

# 7.7 Reporting and Monitoring

The GR Cell will enter the PAPs' concerns/grievances at the site level. The PIU gender specialist will be responsible for managing GBV and SEA/SH-related complaints at the project/PIU level. SFERP PIU will develop specific procedures to ensure complainants can register their grievances confidentially and in a discreet manner. GBV/SEA-related complaints will be communicated to World Bank no later than 48 hours after being received by the GR Cell (site level) or by the GRC (PIU level).

The GRC will record the complaint, investigation, and subsequent actions and results in the monthly Environmental Management and Monitoring reports. In the construction and initial operational periods covered by loan covenants, the PIU will periodically report progress to the World Bank, including reporting complaints and their resolution. The tracking and documenting of grievance resolutions within the GRC and or PIU will include the following elements:

- i. tracking forms and procedures for gathering information from project personnel and complainant(s);
- ii. computerized grievance database with dedicated staff to update the database routinely;
- iii. systems with the capacity to analyze information to recognize grievance patterns, identify any systemic causes of grievances, promote transparency, publicize how complaints are being handled, and periodically evaluate the overall functioning of the mechanism;
- iv. processes for informing stakeholders about the status of a case; and
- v. procedures to retrieve data for reporting purposes, including the periodic reports to the PIU and GRC, reports into the monthly ESMP Compliance monitoring report to the World Bank.



vi. An annual qualitative review of all complaints processed (ensuring filters such as gender, type of complaint, resolution status, time taken, intake channel, district/site, etc.) will also be undertaken to analyze the efficacy of the system.

The GRM will be provided with the necessary budget required for its efficient functioning.



#### 8. ENVIRONMENTAL AND SOCIAL MANAGEMENT AND MONITORING PLAN

#### 8.1 Objectives

The purpose of the Environmental and Social Management and Monitoring Plan for the rehabilitation works is to ensure that all necessary identified measures have been adopted 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 ESMP for the Contractors and executing agency.

#### 8.2 Institutional Arrangements

#### 8.2.1 Project Management Responsibilities

Implementation of the ESMP will be a contractual obligation between the Contractor and the Project Implementation Unit (PIU), SFERP. To fulfill the contractual obligation, full-time technical staff capable of carrying out the monitoring activities as proposed in the ESMP shall be engaged.

The overall responsibility for the SFERP project as well as the Environmental and Social Team, will be rested with the CSC. Besides, the CSC will be supported during ESMP implementation by E&S team to be established within PIU. Figure 14 shows the Hierarchy of SFERP.

#### 8.2.2 Construction Supervision Consultant (CSC)

Environmental and Social Team – CSC will carry out monitoring activities related to the project during the construction phase by using checklists and notifying the Contractor of any violations of the ESMP, checking the progress reports, advising the client and contractor regarding any violations that require further action and maintain a record of events and surveys for reference.

The Construction Supervision Consultant (CSC) will be engaged by the project proponent and will be responsible for monitoring the ESMP on behalf of the PIU during the execution of the Civil Works for sub-project areas and shall submit periodic progress reports. In general, the CSC has the following responsibilities regarding the environmental and social aspects of the project:

- Review the documents prepared by the Contractor regarding E&S implementation.
- Monitor the implementation of ESMP regularly during the execution of civil works by the Contractor. The CSC must have the following key positions:
  - a) Environmental Specialist
  - b) Social and Resettlement Specialist
  - c) HSE expert





Figure 14: Organogram for SFERP- P&DD



# 8.2.3 Contractor Responsibilities

The Contractor will be responsible for the on-field implementation of the ESMP as well as maintaining responsibility for environmental protection liabilities under Sindh Environmental Protection Act (SEPA), 2014, World Bank ESF 2018, ESMF of SFERP, Stakeholder Engagement Plan (SEP-SFERP) Labour Management Procedures (LMP) for SFERP, Contractor's code of conduct as mentioned in the ESMF and other applicable national as well as provincial policies and regulations. Besides, the contractor has to comply with the suggested measure as annexed in Annexure – V Suggested due diligence measures.

Furthermore, the contractor will be required to fill in the particulars of employment which have been given in Annexure – VI. The Contractor will also be responsible for training his crews on all aspects and implementation of the ESMP. The bid should include an environmental and social mitigation budget as part of the engineering costs of the respective works. The key positions to be filled within the contractor's staff for implementation of the ESMP include:

Environmental, Occupational Health and Safety (OHS) Officers; and Social Expert as Community Liaison Officer.

## 8.3 Contractor's Environmental & Social Management Plan (CESMP)

This Environmental and Social Management Plan (ESMP) has been prepared before the Contract award, and therefore, certain mitigations, which are dependent upon the methodology chosen by any Contractor to deliver the project, could not be specified in it. For example, haulage routes are dependent upon the exact campsite locations chosen by the Contractor.

Therefore, it is required that the Contractor shall prepare plans under CESMP before mobilization and implement the plans during the construction period. Once approved by the CSC Environment Specialist & PIU, these documents/plans will become part of the CESMP. Once approved by the CSC Environment Specialist & PIU, these documents will become part of the CesmP. Once approved by the CSC Environment Specialist & PIU, these documents will become part of the CESMP. Once approved by the CSC Environment Specialist & PIU, these documents will become part of the CesmP.

## 8.3.1 Labour Management Plan

The contractor shall be prepared and get approval from PIU for the LMP and its implementation. The LMP will adhere to Labour Management Procedures as well as the Camp layout plan, which has been approved for SFERP. These procedures have been developed to manage risks under the SFERP funded by the World Bank. The LMP will set out the project's approach consistent with national requirements as well as the objectives of the relevant World Bank's Environmental and Social Standards on Labor and Working Conditions (ESS2).

## 8.3.2 Camp Management Plan

The contractor camp management shall provide all details of social facilities, including dormitories, washrooms for labor, cooking areas, dining facilities, prayer areas, septic tanks, drinking water, and other necessary facilities.



# 8.3.3 Communicable Diseases Prevention Plan

The contractor shall provide the details of prevention measures and arrangements planned for the Communicable Diseases Prevention Plan (including Management of COVID-19). The Plan shall include the details of the designated quarantine area, disinfection facilities for Vehicles, and inventory arriving on site. The plan shall also include necessary supplies, such as facemasks, soap, hand sanitizers, temperature-monitoring infrared guns, etc. Disposal of COVID-19-related waste plans should also be prepared.

# 8.3.4 Pollution (air, land, and water) Control Plan

The Contractor shall provide details of the principal pollution control facilities proposed and of contingency plans in the event of failure of these facilities. The contractor must follow ESS3 – Resource Efficiency and Pollution Prevention and Management while formulating the plan before the start of civil work.

The plan shall include the details of the designated and licensed tip, oil treatment facilities and hazardous waste disposal sites that shall be used to dispose of waste. The plan shall also include Environmental effects monitoring.

# 8.3.5 Waste Management Plan

The Contractor shall include details of the procedures for the collection and disposal of wastes. The Plan shall deal with each waste stream separately. WMP will be prepared as the mitigation plans given in the report. The Plan will include the camp layout and details of various facilities, including supplies, storage, and disposal. This plan also includes the Excavated Material Disposal Plan.

# 8.3.6 Traffic Management Plan

The basis of the Contractor's Traffic Management Plan and further information is to be provided. The Contractor is required to provide further details once camp/worksite locations and material sources are finalized. The Traffic Management Plan must include details of the proposed access routes to the project area as well as haulage and access routes throughout the project area (including access to and from borrow pits).

# 8.3.7 Plan for Handling of Hazardous Materials

The Contractor shall identify control measures to ensure no environmental or health impacts from the handling of hazardous materials and the collection and safe disposal of hazardous materials (this may be included within the Pollution Control Plan).



## 8.3.8 Occupational Health and Safety

Upon mobilization, the Contractor shall prepare an Occupational Health and Safety Plan following ESS4 – Community Health and Safety & Sindh Occupational Safety and Health act 2017, which shall be relevant to his chosen methodology. This plan shall detail the following:

- Health and safety management structure, responsibilities, supervision and reporting scheme
- Health and safety goals for the project
- Identification of potential hazards (health risks, safety risks)
- Proposed measures to reduce the risk of identified hazards
- Arrangements to implement such measures
- A system for reporting and investigating accidents, incidents and near misses
- A plan for emergency transfer of staff or public from the site to medical facilities
- Fire and emergency procedures
- Site security.

## 8.3.9 Environmental and Social Awareness Training Plan

This shall include details of the Contractor's environmental and social awareness training program proposed for the workforce. Details are given in Table – 19 given below. The training will be conducted by the contractor with the collaboration of a supervisory consultant under the guidelines of the PIU. These pieces of training will be conducted before the project/physical works commencement, during construction and after construction. The contractor will submit its plan for training and get approval from PIU.

## 8.3.10 Emergency Preparedness and Response Plan

The contractor will prepare an emergency plan to address emergencies/events such as fire, floods, earthquakes, accidents, and death/injury. The Plan will include the following details:

- Contacting the relevant agency (e.g., Fire Brigade)
- Procedure for the shutdown of the site;
- Indicators on-site that shall prompt the shutdown of areas of work (linked to natural events)
- Shutdown procedure and Emergency evacuation procedure of staff and members of the public within range of likely impact.)



Areas of Training	Key Aspects to be Covered	Target Group	Frequency	Budget.
Environment, Social Safeguards	<ul> <li>a. Environmental and social awareness on ESS;</li> <li>b. Key environmental and social issues associated with the project and subprojects ESMP and findings;</li> <li>c. Subproject monitoring and reporting;</li> <li>d. Occupational Health and Safety Issues associated with Construction.</li> <li>e. Grievance Redress Mechanism implementation</li> <li>f. Gender-Based Violence GBV)/SEA/SH</li> <li>g. Child Labor</li> <li>h. Resource Efficiency and conservation</li> <li>i. Safety measures for communicable diseases</li> <li>j. Water conservation and optimal resource use, Awareness regarding open defecation and better WASH practices for relevant community</li> <li>k. Identifications, conservation and precautionary measures of wildlife.</li> </ul>	PIU, Contractor staff, as well as relevant communities	Before physical works commenceme nt, during construction and after construction.	A total of eleven types of training for the proposed sub-project is to be conducted.

#### Table 19: Environmental and Social Awareness Training Plan

#### 8.4 Compliance and Effects Monitoring

PIU shall carry out monitoring within the sub-project area using the monitoring checklists to be prepared based on this mitigation and monitoring plan to aid the monitoring process; the Contractor will complete the following:

- The construction staff will be train for the implementation of the ESMP and safety measures.
- Periodic progress reports will be submitted to the Environmental and Social Specialists of PIU.
- Progress Reports will be included the various issues related to the HSE, including but not limited to the following:
  - OHS Measures adopted (as OHS statistics)
  - Fuel and hazardous material consumption
  - Workforce statistics (employment/deployment etc.)
  - Compliance monitoring to check whether the actions proposed in the ESMP are being carried out.
  - Effects monitoring to record the impacts of mitigation measures.

The effects monitoring shall be the responsibility of CSC. The Examples of compliance and effects monitoring parameters have been presented in Box 1 below. The list presented in Box 1 shall not be considered exhaustive. Other areas of compliance, environmental and social effects monitoring can be added to this list. The monitoring can be conducted by visual observation as



presented in Table 22, photographic documentation, and measurement through laboratory sampling and testing where necessary. All the data shall be made part of the records.

#### 8.5 Environmental Non-compliances and Corrective Measures

The Contractor will be notified of any violations of the ESMP, as well as any corrective actions required. Outlined below are some steps relating to the increasing severity of environmental problems, which will be implemented. The principle is to keep as many issues within the first few steps as possible.

**Step 1**. PIU and Contractor to work out mitigations together and record the facts and the decision implemented.

**Step 2**. A more serious infringement will be observed and PIU will be notified the Contractor of the issues in writing, with a deadline by which the problem must be rectified. All costs will be borne by the Contractor.

**Step 3**.. The suspension will be enforced until the offending parties, procedure, or equipment is corrected and/or remedial measures put in place if required. No extension of time will be granted for such delays and all costs will be borne by the Contractor.

**Step 4.** Breach of contract - One of the possible consequences of this is the removal of a Contractor and/or equipment and/or the termination of the contract. Such measures will not be replaced any legal proceedings that PIU may institute against the Contractor.

#### 8.6 Communication Reporting and Documentation

The following environmental meetings will be proposed:

- Primary meetings between the E & S team of PIU and the Contractor for setting out the format for the regular meetings shall be held before the commencement of the project.
- Scheduled Environmental and Social Progress Review Meeting (ESRPM) meetings between the team PIU and the Contractor will be done every regular interval.

.The Contractor and CSC will be required to produce monthly, quarterly and work completion reports of the sub-projects based on social and environmental issues. The distribution of the reports shall be to PIU and World Bank.



#### Box 1

#### (i) Compliance Monitoring:

- Frequency of anti-dust water sprays during construction period;
- Installation of signage regarding community health and safety
- Safety at workplaces and working hours during construction;
- Incidence of liquid/solid waste in the vicinity of work camps (type and amount of waste, amount, interference with local residents, fauna, flora and crops);
- Plantation of saplings of new trees against trees cut
- Survival rate of saplings of new trees
- Arrangements made at construction sites for protection of floral and faunal resources
- Assurance of installation of signage regarding community health and safety

#### (ii) Environmental Effects Monitoring

- Ambient air quality (Particulate matter) during construction phase;
- Surface water quality during construction phase especially at diversion sites
- Ground water quality at camp sites;
- Ground water table at construction sites;
- Number of patients suffering from malaria, cholera, diarrhea, respiratory ailments during construction phase
- Noise levels (in dBA), monitored at fixed locations and planed schedule during construction
- Extent and degree of functionality of diversion channels to ensure un-interrupted water supply;

#### (iii) Social Effects Monitoring

- Number of local people recruited on project works.
- Incidence of child labour and disproportionate wages
- Conflict at community level
- Chance find archaeological site
- Grievance redressal mechanism is in place
- Health screening of labour at site
- Contractor's staff sensitized on Gender base violence (GBV)

A photographic record of the project area shall be kept. The contractor, CSC, will be required to take photographs at key locations using a digital camera of the sub-project areas in a walkthrough survey. The following data will be recorded for each photograph:

- Shot number
- All the photographs will be referenced with GPS Coordinates
- Title of photograph
- Date and Time, and
- Photographic features.

The photographic record shall be incorporated into the monthly reports.

**Complaints Register**. The Contractor will be required to maintain a complaint register at the campsite and workplaces to document all complaints received from the local communities. The register will also be recorded the measures taken to mitigate the reported concerns. The final report will be communicated to the E&S team of PIU. All complaints/issues of the community will be reported in the monthly progress report of the following month, along with the status of the last month's complaints and will be reviewed by the E&S team of PIU.



Moreover, telephone numbers and addresses of all concerned tiers within the GRM will be displayed in Sindhi and Urdu at all sites, and the same will be distributed in community training/meetings.

## Complaints Register Ties in with the Project GRM

The stakeholder's or affected people's concerns, complaints and grievances about sub-the project's environmental & social performance will be received, recorded and replied to in a systematic way using an understandable and transparent process that is gender-responsive, culturally appropriate and readily accessible to all segments of the affected people at no cost and without retribution.

Change Record Register. A review of this ESMP will be triggered in two scenarios:

- A change to the designs deviates from the parameters that are safeguarded in this ESMP.
- A discovery in the baseline socio-environmental conditions, which is not recognized or covered by this ESMP.

In the event of either scenario, the ESMP will be updated and reissued accordingly. The Contractor and PIU to document any change in the project design/operation shall maintain the design change record.

## 8.7 Environmental and Social Management and Monitoring Cost

The implementation of the ESMP involves inputs from Construction Contractor (CC), CSC and PIU. The CC will be primarily responsible for ensuring the implementation of mitigation measures proposed in the ESMP, which will be part of the contract documents. Hence, the provision of environmental mitigation cost as a separate head in Bill of Quantities (BOQs) will be made mandatory in contract documents.

However, if the CC fails to comply with the implementation of ESMP and reporting properly, the proponent will enforce compliance with the terms of the contract, including adherence to the ESMP. For the smooth execution of ESMP implementation activities, it has been recommended that all the bills/payments related to EMP implementation will be approved/authenticated by the CSC Env & Social. ESMP implementation cost will be deducted from Interim Payment Certificates (IPC) until compliance has been done.

The cost of Rs. 9,490,000 /- budget for the implementation of the ESMP has been allocated. The breakup of the cost is given in Table 20. The ESMP cost included the cost of the protective measures which will be adopted for working near the socially sensitive receptors.



# Table 20: Cost of Environmental & Social Management and Monitoring Cost

ltem No.	Item	Rational	Frequency	Average Rate (Rs.)/unit*	Quantity/ year	no of units	Total Quantity	Estimated Amount (Rs.)			
A. Baseline Environmental Monitoring Before Start of Civil Works											
1	Surface Water	Construction near water body i.e Indo Distry, Puricha Minor, Jam Wah, Naseer Distry, K.B.Feeder Upper, Juho Minor & Takani Distry		20,000	1	8	8	160,000			
2	Drinking Water	one from camp area and other from road due to presence of settlements near to subproject area	Once Before Start of Civil Works	20,000	1	17	17	340,000			
3	Ambient Air from Batching/Asphalt plant area	One from the proposed camp area, one each from roads		25,000	1	17	17	425,000			
4	Ambient Noise	2 from each road/nearby sensitive receptor		1,000	2	34	68	68,000			
						Sub	o Total - A	993,000			
B. Er	vironmental Monitoring C	ost During Construction Phase (	12 months)								
5	Surface Water	Construction near water body i.e Indo Distry, Puricha Minor, Jam Wah, Naseer Distry, K.B.Feeder Upper, Juho Minor & Takani Distry		20,000	3	8	24	480,000			
6	Drinking Water	one from camp area and other from road due to presence of settlements near to subproject area	Once every in four months	20,000	3	17	51	1,020,000			
7	Ambient Air from Batching/Asphalt plant area	One from the camp area & other from road due to presence of socially sensitive receptors		25,000	3	17	51	1,275,000			
8	Ambient Noise	nearby sensitive receptors/as per community demand		1,000	3	34	102	102,000			
9	Machinery/Stack emissions		•					200,000			
						Sub	Total - B	3,077,000			
C. Eł	IS Management		-		_						
10	Personal Protective Equipmer	nt	Bi annual	5,000	2	25	50	250,000			
11	Fire Fighting Equipment purch	nase and refilling					Lump sum	100,000			
12	Soft and Hard Landscaping -	Plantation Plan/Restoration Cost					Lump sum	300,000			
						Sub	Total - C	650,000			
D. El	IS Administrative Cost		50								
13	Training/Capacity Building		50 persons	3,000	2	1	50	150,000			
14	Social Expert (for social con Salary	npliance & GRM implementation)		120,000	12	1	12	1,440,000			
15	GRM running & General Com	munity support needs (if any)	including gen socially sens	eral protectiv	e measures s	near the	Lump sum	300,000			
16	Environmental & OHS Office	er Salaries (120 thousand for each p	person)	120,000	12	2	24	2,880,000			
						Sub	Total - D	4,770,000			
						TOTAL C	OF (A to D)	9,490,000			



Sr.	Project	Section	Environmental	Mitigation Measures	Respons	ibility	Key Performance	Monitoring	Location
No.	Activities		Impacts/Entity		Execution	Monitoring	Indicators	Frequency	
A. DES	GN PHASE								
A.1. Des	sign / pre-construct	ion conside	erations						
A.1.1	pre- construction considerations	A.1.1.1	Slope Instability	Excavated Material Disposal Plan to include a sitting and detailed assessment of the suitability of the proposed excavated materials disposal site	PIU	SFERP	All excavated surplus materials are to be disposed of in designated sites.	Once at the end of the design stage	SFERP Office
		A.1.1.2	Compliance to ESMP	Consideration of EMP in preparation for the detailed design and bid documents.	PIU	SFERP	Added ESMP in contract documents	Before the tendering	SFERP Office
		A.1.1.3	Baseline Environmental Monitoring	As per the monitoring plan given in ESMP before the start of the civil works as per SEQS	CC	CSC	Compliance to ESMP	Once before the start of the works	As per Table 4: Rationale for the Baseline Environmental Monitoring
		A.1.1.4	Geology and seismology	Stone pitching of the degraded reaches	PIU	SFERP	Emergency Preparedness and Response in place before the commencement of construction.	Once at the end of the design stage	SFERP Office

## Table 21: Environmental & Social Management Plan



Sr.	Project	Section Environmental Mitigation Measures Responsibility	sibility Key Performance		Monitoring	Location			
NO.	Activities		impacts/Entity		Execution	Monitoring	indicators	Frequency	
		A.1.1.5	Public Consultations in rural areas	Stakeholder Engagement Plan (SEP) has been prepared for the SFERP and will be implemented in the sub-project. Stakeholder consultations will be conducted throughout the project implementation. Full- time CSC Social Expert will be engaged for the proposed project. The CSC Social Expert will exchange rehabilitation work to roadside landowners, the period of access restriction, and the measures taken to allow movement around the construction work	CC	PIU	Implementation of SEP	Once at the end of the design stage	Nearby villages fo 16 roads.
	GRM	A 1.2	GBV, safety/health measures for the local population, etc.	The Grievance Focal Points (GFPs) in GRM will be provided training by the PIU/CSC in facilitating grievance redress. The GFP will be selected by the Social Safeguard team of PIU (SFERP), CSC and CLO consultation with the community to address GBV, safety/health measures for the local population, etc. related issues.	PIU & CSC	SFERP	Ensure that all workers have signed the code of conduct. Any complaint from the community.	All activities on a daily basis, except public consultation will be carried out every month.	SFERP Office & subproject area
B. CON	STRUCTION PHA	SE							
B.1. Site	e Preparation and C	learance			00		Assessed Di		A4
B.1.1	Site preparation	В.1.1.1	I op Soil Erosion	the Contractor will prepare an earthworks checklist and get approval from CSC. that the Checklist defines the limits to the excavation during reconditioning works.	CC	CSC	Approved Plans and comply with ESS1	During the Planning phase, in parallel with the preparation	At any locations where borrow pits and quarries will be operated.



Sr.	Project	Section	Environmental	Mitigation Measures	Respons	ibility	Key Performance	Monitoring	Location
NO.	Activities		Impacts/Entity		Execution	Monitoring	Indicators	Frequency	
				Instructions for topsoil management will also be defined. The use of soil from private land will be minimized and only after consultation and paying off the compensation to landowners.				of bid documents	
				Vegetation clearance shall be limited to the area required for work.	CC	PIU & CSC	Written approval for cutting marked trees before cutting	Weekly	Same as above
				use of existing accessing tracks	CC	PIU & CSC	No tree-cutting on temporary haul routes	Weekly	Same as above
B.1.2	Disposal of Excavated Material	B.1.2.1	Identification of re-use of excavated material on site to reduce off-site effects	All excavated materials are to be disposed of in designated sites as per the approved waste management plan. The Plan shall deal with each waste stream separately.	CC	PIU & CSC	Comply with approved WMP as per ESS1 –ESS3 – & and Community complaints;	Monthly	at approved disposal sites of 16 roads Rain/Flood Affected Roads, District Thatta.
		B.1.2.2	Community Disturbance	Community liaison will be maintained during the construction stage and GRM will be established to address complaints.	CC	PIU & CSC		Monthly	at approved disposal sites of 16 roads Rain/Flood Affected Roads, District Thatta.
			Noise	Limiting working hours to between 9 am and 5 pm, six days a week. The campsite/s shall be situated at least 500m from any settlement. The affected communities will carry out on-demand noise monitoring in case of any complaint or request. Additional mitigation measures will be identified and implemented in	CC	PIU & CSC		Monthly	at approved disposal sites of 16 roads Rain/Flood Affected Roads, District Thatta.



Sr.	Project	Section	Environmental	Mitigation Measures	Respons	ibility	Key Performance	Monitoring	Location
NO.	Activities		Impacts/Entity		Execution	Monitoring	Indicators	Frequency	
				case the noise levels exceed the permissible limits of SEQS. Community liaison will be maintained to ensure that complaints and grievances are addressed as soon as possible.					
		B.1.2.3	Damage to existing infrastructure Need to relocate infrastructure such as electricity transmission lines	Currently, no public infrastructure is observed which creates hindrances in the execution of the work. All damaged/removed infrastructures will be repaired/ restored to their original or better condition. Community liaison to be maintained.	CC	PIU & CSC		Monthly	Along the alignment of reconditioning roads or at the COI.
B.2. Cor	nstruction and Labo	or Camps							
B.2.1	Locating Camp	B.2.1.1	Community disturbance	Locate the camp at least 500m away from the communities. Community consultations will be carried out and liaison will be maintained. GRM to be established to address related complaints.	CC	PIU & CSC	Review of Camp layout plan	Once	At the proposed labour Campsite
			Loss of flora and fauna	Submit layout plans for the camp for the approval of the Engineer before the construction of the camp.	СС	PIU & CSC	Construction of campsite: do not begin before approval of the	before camp establishment.	Same as above
			Surface water pollution	Locate camps away from the waterbody, canal, watercourses, etc.	CC	PIU & CSC	layout plan.		
B.2.2	Supply of Drinking Water	B.2.2.1	Depletion of local drinking water resources	The contractor shall make his arrangements for the supply of water, ensuring water supply and availability to local communities is unaffected.	CC	PIU & CSC	The contractor will not be entitled to use public water resources	Monthly	Near the community water resources.



Sr.	Project	Section	Environmental	Mitigation Measures	Respons	nsibility Key Performance		Monitoring	oring Location
NO.	Activities		Impacts/Entity		Execution	Monitoring	Indicators	Frequency	
		B.2.2.2	Spread of the disease through the unsuitable water supply	Provision of safe drinking water and monthly testing according to the SEQS-16	CC	PIU & CSC	Comply with SEQS	Monthly	At the construction camp area
B.2.3	Water contaminations (Groundwater)	B.2.3.1	Construction of impermeable layer at washing and bathing area of the construction camp	Suitable latrines ( septic tanks etc.) and washing facilities are provided in the camps	CC	PIU & CSC	Latrines are provided at each camp	Once	At the Construction Camp area of sub-project sites under reconditioning work of 16 Rain/Flood Affected Roads, District Thatta
				Lined washing facilities, including a shower, are available near each latrine, including clean running water, soap and drying facilities.	CC	PIU & CSC	Suitable washing facilities are provided at each camp	Once	Same as above
	Diversion of Water channels named Odero Lal and its associated water course	B.2.3.2	Inadequate diversion of canal/water course will affect the water supply to agricultural land of communities living nearby, which may create a social issue.	Schedules for construction activities along the water body have to be prepared with the consultation of the local community and active GRC needs to operate all the time.	CC	PIU & CSC	Availability of water/ no complaint regarding water availability	Monthly	Along the alignment near/at the water-coursing structures
B.2.4	Accidents and Emergencies	B.2.4.1	Emergency Response	The contractor shall prepare a procedure and evacuation plan	CC	PIU & CSC	Approved EPRP Plan	Once after the completion of the proposed reconditionin g work.	At the Construction area of sub- project sites under reconditioning work of 16 Rain/Flood



Sr.	Project	Section	Environmental	Mitigation Measures Responsibility		Key Performance	Monitoring	Location	
No.	Activities		Impacts/Entity		Execution	Monitoring	- Indicators	Frequency	
									Affected Roads, District Thatta
				Emergency Response Plan to man-made and natural disasters (including rains, urban floods, fire, etc.)	CC	PIU & CSC	Annual evacuation drill	Quarterly	Same as above
				Emergency access routes shall be signed and maintained	CC	PIU & CSC	Emergency access routes are clear and signed	Monthly	Same as above
				Fire extinguishers are to be provided throughout the camp	CC	PIU & CSC	Fire extinguishers provided	Monthly	Same as above
B.2.5	Security	B.2.5.1	Conflict with local communities, attack on staff	Security for avoiding any conflict with local communities	CC	PIU & CSC	Fencing and security. The entrance to the camp shall be monitored and restricted.	Monthly	Same as above
				Preparation and Implementation of a communication strategy, which will be developed by the contractor. under the guidance of CSC and get approval from PIU before the start of civil work.	CC	PIU & CSC	Approval of Communication Strategy by PIU	Once	
				The contractor shall provide all staff with Identity Cards showing their association with the project.	CC	PIU & CSC		Monthly	All active work sites
				Sindh-speaking staff (Preferably the supervisors) to be available at all active work sites to communicate with the local community.	CC	PIU & CSC	Sindhi staff available at all active work sites	Monthly	Same as above
				The Contractor shall include in the Emergency Plan a procedure for emergency	CC	PIU & CSC	Plan submitted and approved	Once before the start of civil work	Camp area



Sr.	Project	S	ection	Environmental	Mitigation Measures	Respons	ibility		Key Performance	Monitoring	Location
No.	Activities			Impacts/Entity		Execution	Monitorin	ng	Indicators	Frequency	
					evacuation of camp and practice this procedure.						
B.2.6	Restoration	В	5.2.6.1	Change in Landscape after the closure of works	All temporary facilities shall be removed by the Contractor after the completion of the works	CC	PIU CSC	&	before and after Pictorial evidence.	Once at the time of completion of the subproject.	Same as above
B.3. Sto	rage of Material										
B.3.1	Stockpile Storage c Materials	of B	3.3.1.1	Increase in particulate matter	Proper covered storage. Water sprinkling of any uncovered stockpile where dust is generated	CC	PIU CSC	&	No dust generated from stockpiles	Monthly	Stockpiles
B.3.2	Storage c Hazardous Materials	of B	3.2.1	Health and safety due to improper use of hazardous material	Fuel tanks and other hazardous material storage containers will be properly marked to highlight their contents.	CC	PIU CSC	&	Comply with the approved WMP Plan for Handling of Hazardous	Monthly	Hazardous material storage areas at campsite
					Hazardous areas to be secure and access limited to trained personnel only	СС	PIU CSC	&	Materials	Monthly	Hazardous material storage areas
					Provide fire extinguishers	CC	PIU CSC	&	Fire extinguishers are provided	Monthly	
					Provide and enforce the use of PPEs as per the Contractor's Health and Safety Plan.	СС	PIU CSC	&	Proper implementation of PPEs	Monthly	
		В	3.3.2.3	Health and Safety and Pollution	An oil-designated storage area used	CC	PIU CSC	8	Stockpiles only in storage areas as identified in the camp layout plan	Monthly	Hazardous material storage areas at campsite
					Training on handling, use and disposal of hazardous material must be given to all those with access to the hazardous material area.	CC	PIU CSC	&	Training as per the Contractor's approved training plan	Monthly	Hazardous material storage area
B.4. Wa	ste Management	t									



Sr.	Project	Section	Environmental	Mitigation Measures	Respons	ibility	Key Performance	Monitoring	Location
No.	Activities		Impacts/Entity		Execution	Monitoring	Indicators	Frequency	
B.4.1	Disposal of sanitary wastes using the municipal	B.4.1.1	Introduction of Inappropriate Contaminants or Waste Volume to	Testing of wastes. Submission of results to the Engineer.	CC	PIU & CSC	Test results show waste is within SEQS limit for pre- treatment	Quarterly	Construction camp/s
	system (if available)		Municipal System	Written consent from the operator of the municipal system submitted to the Engineer	CC	PIU & CSC	Consent/ agreement submitted	Once before the start of civil works	
		B.4.1.2	Use of municipal system which falls below SEQS standards	All waste shall be disposed off through SEPA-certified vendors.	CC	PIU & CSC	Agreement with the certified waste collectors	Once before the start of civil works	
B.4.2	Collection of domestic wastes	B.4.2.1	Surface and groundwater pollution	Provide garbage bins within all camps for domestic wastes	CC	PIU & CSC	Provision of bins	Monthly	
B.4.3	Disposal of domestic wastes using Municipal facilities.	B.4.3.1	Ground and groundwater pollution, the spread of disease	Domestic waste shall be collected from waste bins on alternate days and transported by tractor trolley to dispose of in a nearby Municipal facility. A written agreement shall be made between the Municipal operator and contractor for the disposal of domestic waste.	CC	PIU & CSC	receipt regarding waste disposal to TMA	Monthly	Waste dumping sites or designated sites
B.4.4	Disposal of medical wastes	B.4.4.1	Surface water pollution, health and safety of staff and public.	Medical wastes will be stored on site. The contractor will engage a third-party contractor for the treatment and ultimate disposal of medical waste in a controlled manner.	CC	PIU & CSC	No medical waste in the municipal facility. Waste receiving receipt.	Monthly	Collection points/waste bin at the first aid center
B.4.5	Closure of works	B.4.6.1	Ground, groundwater and surface water pollution, health and safety.	All solid wastes shall be removed from the project area on completion of works.	CC	PIU & CSC	All solid wastes disposed of or removed from the site and comply with the restoration plan	after the completion of civil work	At the Construction area of sub- project sites under reconditioning



Sr.	Project	Section	Environmental	Mitigation Measures	Respons	ibility	Key Performance	Monitoring	Location
NO.	Activities		Impacts/Entity		Execution	Monitoring	Indicators	Frequency	
									work of 16 Rain/Flood Affected Roads, District Thatta
B.5. Co	nstruction Plant and	d Vehicles							
B.5.1	Movement/ operation of vehicles on site	B.5.1.1	Air pollution	All vehicles are regular services as per manufacturers' requirements	CC	PIU & CSC	Black smoke was not observed emitting from Vehicles/plant	Quarterly	At the Construction area of sub- project sites under reconditioning work of 16 Rain/Flood Affected Roads, District Thatta
		B.5.1.2	Generation of dust	The access road is to be adequately compacted or regularly sprinkled to prevent dust generation during use.	CC	PIU & CSC	Dust not reaching the settlements in the project area		Near the Settlement in the Sub-project areas
			Soil and Groundwater pollution	Vehicles/plants will be checked daily for fuel oils and leaks and fixed as required.	CC	PIU & CSC	No fuel oil leaks will be observed from the plant/vehicle		At the Construction area of sub- project sites under reconditioning work of 16 Rain/Flood Affected Roads, District Thatta
		B.5.1.3	Safety of the community, other road users, fauna	Vehicle speed is limited to 10km/hr.	CC	PIU & CSC	Submittal and approval of the plan	Once before the start of civil work	Same as above
			and staff	Safe driving practices included in Contractor's training plan	CC	PIU & CSC	Training of the drivers as per the approved plan	Monthly	same as above



Sr.	Project	Section	Environmental	Mitigation Measures	Respons	ibility	Key Performance	Monitoring	Location
No.	Activities		Impacts/Entity		Execution	Monitoring	Indicators	Frequency	
				Flag persons to be provided where plant cross/meet the village road	CC	PIU & CSC	Flag persons provided	Monthly	approaching and crossing the road
				The contractor's Community Liaison Officer collaborates with communities to identify Socially sensitive areas and inform communities before the movement of large plant.	CC	PIU & CSC	No complaints were received from the communities	Monthly	Settlement in the project areas
				Vehicles with restricted rear visibility to be fitted with an audible backup alarm or provided with banks men	CC	PIU & CSC	Back-up alarms	Monthly	At all active construction sites
			Damage to public infrastructure	Damage to roads, infrastructure and property was immediately repaired/compensated by the Contractor.	CC	PIU & CSC	No damage to roads/infrastructure	Monthly	Public roads which are crossing or connected to the reconditioning work of 16 Rain/Flood Affected Roads, District Thatta
				Use of horns is prohibited near the settlement	CC	PIU & CSC	Nor horns were heard at the settlement	Monthly	Settlement along the project area of 16 Rain/Flood Affected Roads
			Disturbance of Fauna	Biodiversity monitoring of impacts on fauna	CC	PIU & CSC	Status and behavior of terrestrial and avian-fauna	Quarterly	Same as above
			Reduction in access to women and girls	Avoid routes used by women and girls as far as possible. If unavoidable, identify alternate routes for women and girls.	CC	PIU & CSC	No complaints were received from women and girls	Monthly	Same as above
B.5.2	Deliveries to Site	B.5.2.1	Dust	Covered transportation of loose materials	CC	PIU & CSC	No dust generation from delivered materials	Monthly	Public roads which are crossing or



Sr.	Project	Section	Environmental	Mitigation Measures	Respons	ibility	Key Performance	Monitoring	Location
NO.	Activities		Impacts/Entity		Execution	Monitoring	Indicators	Frequency	
									connected to the reconditioning work of 16 Rain/Flood Affected Roads, District Thatta
		B.5.2.3	Community disturbance increase in traffic	Traffic management plan to be submitted to Engineer for approval and to include routes for delivery vehicles.	CC	PIU & CSC	Submittal and approval of plan TMP ESS 4	Once	Same as above
				Deliveries should be carried out during normal working hours and prohibited at night. If unavoidable, then follow the nighttime working protocols.	CC	PIU & CSC	No deliveries were carried out at night.	Monthly	Storage areas at the Construction campsite
				Delivery vehicles are prohibited from queuing on public roads	cc	PIU & CSC	No queuing delivery vehicles on public roads	Monthly	Same as the above
B.6. Hea	alth and Safety of T	he Workfor	ce						
B.6.1	General construction works	B.6.1.1	Health and safety of provisions	The contractor shall prepare and submit occupational health and safety plan. This plan will need to describe all jobs, their risks, and the controls that will reduce risks; these controls may include PPE, restrictions on activities or locations, and other measures. Those who work near the water with heavy equipment will need special training so those hazards can be managed. The contractor will ensure the use of Personal Protective Equipment (PPE) for his	CC	PIU & CSC	Submittal and approval of Labour Management plan. As per the guidelines provided in Labour Management Procedure of SFERP. The number of reported near- misses. Non-compliance observed. Community	Regularly as specified in the monitoring plan	At the Construction area of sub- project sites under reconditioning work of 16 Rain/Flood Affected Roads, District Thatta



Sr.	Project	Section	Environmental	Mitigation Measures	Respons	ibility	Key Performance	Monitoring	Location
NO.	Activities		impacts/Entity		Execution	Monitoring	Indicators	Frequency	
				period; To overcome the drinking water contamination issue, at each construction camp, the contractor shall install a solar- operated domestic water filter/150GDP with Ultraviolet (UV) to ensure safe and healthy drinking water for the workforce. The Contractor will display sign boards and banners about traffic diversion at places on detour routes; Community liaison will be maintained during the construction stage and GRM will be established to address complaints related to safety hazards.					
		B.6.2.1	Health and safety of Staff	The contractor will submit an accident report to the Engineer following an accident on site. The report must detail actions to be taken to reduce the risk of occurrence.	CC	PIU & CSC	Submittal of the accident report	Monthly	Same as above
				Qualified health and safety manager will be appointed by the Contractor	СС	PIU & CSC	Qualified health & safety manager present on site	Monthly	Same as above
				The contractor shall engage a full-time first-aider on-site Contractor to have the on-call doctor.	CC	PIU & CSC	On-site Presence of qualified medical practitioners and first aid facilities	Monthly	First aid center



Sr.	Project	Section	Environmental	Mitigation Measures	Responsibility		Key Performance	Monitoring	Location
NO.	Activities		Impacts/Entity		Execution	Monitoring	Indicators	Frequency	
				Provision of the dispensary for the treatment of staff. Dispensary to be stocked with appropriate medicines for likely incidents, diseases and ailments to have occurred on site. Stock is to be replenished as necessary.	CC	PIU & CSC	Dispensary available on-site and regularly restocked	Monthly	Same as above
B.7 Rec	onditioning of rain-	affected roa	ads/ Works						
B.7.1	Rehabilitation works along water body/water crossing structures	B.7.1.1	Flooding	Preference is given not to work during rainy seasons. Provide alternative drainage for rainwater if earthworks fill established drainage lines	CC	PIU & CSC	Is the alternative drainage is provided	Monthly	areas where culverts are rehabilitated.
B.7.2	Formation of Borrow Areas	B.7.2.1	Habitat loss	The borrow Area Management Plan has to be prepared before the start of the civil work. Borrow areas shall not be established in the active agriculture land	CC	PIU & CSC	Borrow Area Management Plan. Borrow areas are not established in the agriculture- active lands.	Weekly	Borrow Area site
		B.7.2.2	Borrowing from toes of embankments	The material shall not be borrowed from the outer and inner toe of the embankments.	CC	PIU & CSC	Material is not borrowed from the toe of the embankments	Weekly	Same as above
		B.7.2.3	Borrow areas in environmentally sensitive sites.	Borrow areas shall not be established in the wetlands, forest and any other environmental and socially sensitive areas.	CC	PIU & CSC	Borrow areas are not established in environmental and socially sensitive sites.	Weekly	Same as above
		B.7.2.4	Restoration/rehab ilitation of borrowed areas	Restoration of borrowed areas	CC	PIU & CSC	Borrow areas are restored to their original condition if situated on the private land.	Monthly	Same as above



Sr.	Project	Section	Environmental	Mitigation Measures	Responsibility		Key Performance	Monitoring	Location
No.	Activities		Impacts/Entity		Execution	Monitoring	Indicators	Frequency	
				Community liaison to be maintained. GRM to be established to address related complaints.	CC	PIU & CSC	Number of complaints	Regularly	Same as above
B.7.3	Access to Borrow Areas	B.7.3.1	Impacts on flora and fauna	available/existing access routes shall be followed	CC	PIU & CSC	existing access routes are followed	Weekly	Same as above
		B.7.3.2	Impacts on agriculture land and crops	access routes in agricultural land shall be avoided	CC	PIU & CSC	Same as above	Weekly	Same as above
		B.7.3.3	if access route in the agricultural land is unavoidable, the owner of the land and crop shall be compensated	Compensation to the affected person shall be paid as per the approved LARF prepared for SFERP	CC	PIU & CSC	the affected person is compensated	Weekly	
B.7.4	Restoration of borrowed areas	B.7.4.1	Loss of habitat and landscape change	Potential for shallow wetland creation shall be maximized by the limited restored depth of borrow area to 0.3m	CC	PIU & CSC		Monthly	
		B.7.4.2	Loss of topsoil	Spread stockpiled topsoil (where topsoil is unsuitable for the formation of rehabilitation work) over borrow areas.	СС	PIU & CSC		Weekly	
B.8 Arch	naeology and Cultu	ral Sites							
B.8.1	Construction near religious sites	B.8.1.1	disturbance	All works excluded from mosques and Graveyards at the Project Site. (Spiritual Place for local people).		CSC	Compliance with ESS8 – Cultural Heritage by adopting chance find procedure.	Monthly	At the Construction area of sub- project sites under reconditioning work of 16 Rain/Flood Affected Roads, District Thatta.
				VVorks do not block access to sites	CC	CSC	access to the sites is not blocked	Daily	Same as above



Sr.	Project	Section	Environmental	Mitigation Measures	Responsi	ibility	Key Performance	Monitoring	Location
NO.	Activities		Impacts/Entity		Execution	Monitoring	Indicators	Frequency	
B.8.2	Discovery of unidentified cultural or religious site	B.8.2.1	Community disturbance	The contractor shall not trespass into the site, shall exclude all works and immediately inform the Site Engineer	CC	PIU & CSC	The engineer informed of the discovery of unidentified cultural or religious sites	Monthly	Same as above
				Community liaison to be maintained. GRM to be established to address related complaints.	CC	PIU & CSC	Number of complaints	regularly	Same as above
B.8.3	Chance find	B. 8.3.1	neel Desculation	In the case of a chance find, the contractor will secure the site and report immediately to PIU. Works may not recommence until the Engineer approves. Site visits of the Culture Tourism & Antiquities Department, Govt of Sindh, will be facilitated. Further works will be carried out on such sites only after obtaining clearance from the Department.	CC, CSC	PIU & Culture Tourism & Antiquities Departme nt, Govt of Sindh	Chance find	As or when depends on chance, find	Same as above
B9. Safe	ety/Health Measure	s for The L	ocal Population						
B 9.1	The local population living within/near the sub-project, especially women, children and elderly people	B 9.1.1	Accident risks, particularly for the local population living within/near the subproject, especially women, children and elderly people; Public awareness campaigns through displaying signboards at the site and haulage	Restriction on movement of machinery on the designated haulage routes for transportation of materials. Public awareness campaigns through displaying signboards at the site and haulage routes. Interaction with the community; Setting up speed limits (not more than 15 Km in work areas); Availability of first aid box for locals; Strict enforcement keeping non- working persons, particularly children, away from work sites;	CC	PIU & CSC	Number of complaints to ensure compliance with ESS4 – Community Health and Safety	frequently	Same as above



Sr.	Project	Section	Environmental	Mitigation Measures	Respons	ibility	Key Performance	Monitoring	Location
No.	Activities		Impacts/Entity		Execution	Monitoring	Indicators	Frequency	
			routes; Vulnerability to accidents; Deterioration of health due to dust	Adequate signage to manage traffic at sites, haulage and access roads; Ensure water sprinkling. For Community Female Members: •Awareness should be created among the local community including females about the construction work. •Workers should not be allowed to crowd in the residential communities within the site. •Alternative routes for pedestrians should be provided to avoid mixing women with workers. •Raise awareness among the communities of the potential risks of GBV, SEA, and SH and establish links with response services in the nearby communities that can respond to instances of GBV (particularly those related to issues of labour influx). •Contractor should take proper measures to address and resolve issues relating to harassment, intimidation, and exploitation, especially against women. •Measures to prevent GBV, SEA and SH the Contractor must include relevant clauses in the workers' code of conduct. •Development and implementation of grievance					



Sr.	Project	Section	Environmental	Mitigation Measures	Respons	ibility	Key Performance	Monitoring	Location
No.	Activities		Impacts/Entity		Execution	Monitoring	Indicators	Frequency	
				redress/stakeholder response mechanism procedures to ensure timely handling of grievances.					
C. OPE	RATION PHASE								
C.1	Maintenance of rehabilitation facilities	C.1.1	Road Safety	Road maintenance will be carried out as per the contract agreement. During maintenance, follow road safety rules and regulations to avoid any accidents.	SFERP/ W&S Deptt	Third- party	No incident of any damges	Continues as per the government schedule or best practices	Entire sub- project area
C.2	Increased Traffic	C.2.1	Air pollution and Greenhouse gases	Regular motioning of the vehicles for engine efficiency and avoid any unnecessary work and transportation. Alternative energy resources should be considered where possible. SEQs applicable to gaseous emissions generated by construction vehicles, equipment and machinery should be enforced during construction works.	SEPA/ SFERP/ W&S Deptt	Third- party	Compliance with SEQS	Once in year	The entire sub- project area
				Reduction in travel time and better mode and frequency of transport and enhanced tourism activities in the area which in many terms will boost the local economy and improve the lifestyle of local people. Access to quality health care facilities, educational and other infrastructural facilities. A better investment climate for industries creates more					



Sr.	Project	Section	Environmental	Mitigation Measures	Respons	ibility	Key Performance	Monitoring	Location
NO.	Activities		impacts/Entity		Execution	Monitoring	indicators	Frequency	
				employment opportunities for local people.					

## Table 22: Environmental & Social Monitoring Plan

Sr.	Parameters	Means of Monitoring	Frequency	Respons	sibility
No.	T drameters	means of monitoring	requency	Implementation	Supervision
1	Vegetation clearance	Visual inspection of loss of vegetation, soil erosion & instability, surface	Weekly	CC	CSC/PIU-
		water pollution and occupational health of workers and community			SFERP
2	Top Soil	Visual inspection of topsoil of 20 cm to 30 cm depth should be	Beginning of	CC	CSC/PIU-
		excavated and stored properly.	earthworks		SFERP
3	Erosion	Visual inspection of the occurrence of erosion and erosion prevention	At the end of the	CC	CSC/PIU-
		measures	filling activity		SFERP
4	Operation of burrow	Visual inspections of quarry sites/ burrow areas.	Monthly	CC	CSC/PIU-
	and quarry site				SFERP
5	Excavation of earth	Visual inspection for soil erosion & stability	Weekly	CC	CSC/PIU-
					SFERP
6	Material supply	Inspection of possession of official approval or valid operating license of	Before the	CC	CSC/PIU-
		suppliers' materials (asphalt, cement, quarry and burrow material)	agreement for the		SFERP
			supply of material		
7	Storage and handling	Visual inspection of storage facilities	Monthly	CC	CSC/PIU-
	of materials				SFERP
8	Local roads	Visual inspection to ensure local roads are not damaged	Monthly	CC	CSC/PIU-
					SFERP
9	Traffic safety	Visual inspection to see whether proper traffic signs are placed and	Weekly	CC	CSC/PIU-
		safety barriers for traffic management are occupied			SFERP
10.	Air Quality	Air quality monitoring mobile lab (Certified laboratory from SEPA)	Quarterly	CC	CSC/PIU-



Sr.	Parameters	Means of Monitoring	Frequency	Respons	sibility
No.	T arameters	incaris of monitoring	requercy	Implementation	Supervision
-					SFERP
		Visual inspection to ensure water sprinkling is being implemented	Daily	CC	CSC/PIU-
					SFERP
		Visual inspection to ensure asphalt plant is located greater than 500 m	Monthly	CC	CSC/PIU-
		from residential/settlement areas			SFERP
10	Air quality & noise	Certified laboratory from SEPA	Quarterly	CC	CSC/PIU-
					SFERP
11	Surface &	Sampling and analysis of surface water quality (Certified laboratory	Quarterly	CC	CSC/PIU-
	groundwater quality	from SEPA)			SFERP
12	Solid waste	The visual inspection that solid waste is disposed of at the designated	Weekly	CC	CSC/PIU-
		site			SFERP
13	Floral and faunal	Visual inspection	Daily	CC	CSC/PIU-
	monitoring				SFERP
14	Cultural and	Visual inspection	Daily	CC	CSC/PIU-
	archeological sites				SFERP
15	Visual check for	Visual inspection	Daily	CC	CSC/PIU-
	exhaust emissions				SFERP
	from equipment and				
	vehicles				
16	Grievances of the	Visual inspection	Daily	CC	CSC/PIU-
	local communities				SFERP
17	Reinstatement of	Visual Inspection	After completion of	CC	CSC/PIU-
	work site		all works		SFERP



# Annexure I: Rehabilitation of Road-SFERP Screening Checklist

Proposer	d Proje	ect Inte	rvent	ions Details			
Name of proposed project interventions	_						
······	Reco	ondition	ing / r	econstruction of road from baghan jangisar			
	road	road to connect village munammad nassan otno via dargan					
	khair	khair shah					
ID of proposed project interventions	01-	24°12	0.02"	N 67°37'33.21"E 24°11'31.80"N			
	67°4	1'3.53"	E				
Proposing agency	PIU-S	SFERP					
Proposed project interventions location	Distri	ct That	ta Tal	uka Keti Bander			
Proposed project interventions objective	The RoW a cor of the within The p is a recor acces	RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-					
	econ	omic re	evival	of the worst-affected areas.			
Estimated cost	-						
Proposed date of commencement of	Will c	complet	te in 1	2 months			
civil work	<u> </u>						
Screening Question		Yes	NO	Remarks			
PH	1 SICA	LENV		MENI			
the risk of clearance of vegetation that	pose		INO	the proposed rebabilitation work			
result in an increase in the level of suspe	nded						
solids washing into nearby water bodies?	naoa						
Will the proposed project interventions po	ose a	yes		During the construction stage, different			
Will the proposed project interventions por risk of <b>contaminating water sources</b> d	ose a ue to	yes		During the construction stage, different types of activities, such as earthwork,			
Will the proposed project interventions por risk of <b>contaminating water sources</b> d construction activities?	ose a ue to	yes		During the construction stage, different types of activities, such as earthwork, Subbase formation, Asphalt wearing,			
Will the proposed project interventions por risk of <b>contaminating water sources</b> d construction activities?	ose a ue to	yes		During the construction stage, different types of activities, such as earthwork, Subbase formation, Asphalt wearing, concrete work and Restoration of the			
Will the proposed project interventions por risk of <b>contaminating water sources</b> d construction activities?	ose a ue to	yes		During the construction stage, different types of activities, such as earthwork, Subbase formation, Asphalt wearing, concrete work and Restoration of the campsite might result in deteriorating the			
Will the proposed project interventions por risk of <b>contaminating water sources</b> d construction activities?	ose a ue to	yes		During the construction stage, different types of activities, such as earthwork, Subbase formation, Asphalt wearing, concrete work and Restoration of the campsite might result in deteriorating the surface water quality			
Will the proposed project interventions per risk of <b>contaminating water sources</b> d construction activities? Will the proposed project interventions <b>de</b>	ose a ue to <b>plete</b>	yes	No	During the construction stage, different types of activities, such as earthwork, Subbase formation, Asphalt wearing, concrete work and Restoration of the campsite might result in deteriorating the surface water quality Water consumption will be monitored by			
Will the proposed project interventions per risk of <b>contaminating water sources</b> d construction activities? Will the proposed project interventions <b>de</b> <b>groundwater</b> because of the water during road construction activities?	ose a ue to <b>plete</b> used	yes	No	During the construction stage, different types of activities, such as earthwork, Subbase formation, Asphalt wearing, concrete work and Restoration of the campsite might result in deteriorating the surface water quality Water consumption will be monitored by keeping the records of consumption and capacity building of the construction crew during the construction stage and records will be maintained to avoid any wastage.			
Will the proposed project interventions per risk of <b>contaminating water sources</b> d construction activities? Will the proposed project interventions <b>de</b> <b>groundwater</b> because of the water during road construction activities? Will the proposed project interventions res	plete used	yes	No	During the construction stage, different types of activities, such as earthwork, Subbase formation, Asphalt wearing, concrete work and Restoration of the campsite might result in deteriorating the surface water quality Water consumption will be monitored by keeping the records of consumption and capacity building of the construction crew during the construction stage and records will be maintained to avoid any wastage. During the construction phase of the			
Will the proposed project interventions per risk of <b>contaminating water sources</b> d construction activities? Will the proposed project interventions <b>de</b> <b>groundwater</b> because of the water during road construction activities? Will the proposed project interventions res an increase in <b>ambient air pollution</b> , inclu	plete used	yes	No	During the construction stage, different types of activities, such as earthwork, Subbase formation, Asphalt wearing, concrete work and Restoration of the campsite might result in deteriorating the surface water quality Water consumption will be monitored by keeping the records of consumption and capacity building of the construction crew during the construction stage and records will be maintained to avoid any wastage. During the construction phase of the proposed sub-project; some adverse			
Will the proposed project interventions per risk of <b>contaminating water sources</b> d construction activities? Will the proposed project interventions <b>de</b> <b>groundwater</b> because of the water during road construction activities? Will the proposed project interventions res an increase in <b>ambient air pollution</b> , inclu- chemical and particulate matter due to	plete used sult in uding o the	yes	No	During the construction stage, different types of activities, such as earthwork, Subbase formation, Asphalt wearing, concrete work and Restoration of the campsite might result in deteriorating the surface water quality Water consumption will be monitored by keeping the records of consumption and capacity building of the construction crew during the construction stage and records will be maintained to avoid any wastage. During the construction phase of the proposed sub-project; some adverse impacts on the ambient air by suspended			
Will the proposed project interventions per risk of <b>contaminating water sources</b> d construction activities? Will the proposed project interventions <b>de</b> <b>groundwater</b> because of the water during road construction activities? Will the proposed project interventions res an increase in <b>ambient air pollution</b> , inclu- chemical and particulate matter due to construction and operation of res	plete used	yes	No	During the construction stage, different types of activities, such as earthwork, Subbase formation, Asphalt wearing, concrete work and Restoration of the campsite might result in deteriorating the surface water quality Water consumption will be monitored by keeping the records of consumption and capacity building of the construction crew during the construction stage and records will be maintained to avoid any wastage. During the construction phase of the proposed sub-project; some adverse impacts on the ambient air by suspended dust and noise are foreseen.			
Will the proposed project interventions per risk of <b>contaminating water sources</b> d construction activities? Will the proposed project interventions <b>de</b> <b>groundwater</b> because of the water during road construction activities? Will the proposed project interventions res an increase in <b>ambient air pollution</b> , inclu- chemical and particulate matter due to construction and operation of re- machinery?	plete used sult in uding o the elated	yes	No	During the construction stage, different types of activities, such as earthwork, Subbase formation, Asphalt wearing, concrete work and Restoration of the campsite might result in deteriorating the surface water quality Water consumption will be monitored by keeping the records of consumption and capacity building of the construction crew during the construction stage and records will be maintained to avoid any wastage. During the construction phase of the proposed sub-project; some adverse impacts on the ambient air by suspended dust and noise are foreseen.			
<ul> <li>Will the proposed project interventions period of contaminating water sources deconstruction activities?</li> <li>Will the proposed project interventions de groundwater because of the water during road construction activities?</li> <li>Will the proposed project interventions resean increase in ambient air pollution, incluce construction and operation of remachinery?</li> <li>Will the proposed project interventions resean increase project interventions resean increase in ambient air pollution, incluce construction and operation of remachinery?</li> </ul>	plete used sult in uding o the slated	yes Yes Yes	No	During the construction stage, different types of activities, such as earthwork, Subbase formation, Asphalt wearing, concrete work and Restoration of the campsite might result in deteriorating the surface water quality Water consumption will be monitored by keeping the records of consumption and capacity building of the construction crew during the construction stage and records will be maintained to avoid any wastage. During the construction phase of the proposed sub-project; some adverse impacts on the ambient air by suspended dust and noise are foreseen. An increase in ambient noise and vibration			

#### Environmental and Social Screening Checklist – Road 1



vibrations due to the operation of construction			construction machinery such as bulldozers,
machinery/vehicles?			excavators, pneumatic machinery, etc.
Will these ambient noise levels be beyond the		No	These are within the limit as per baseline
specifications in the SEQS?			monitoring results.
Will the proposed project interventions lead to		No	Proposed project will reduce the erosion
erosion hazards?			due to flood water by raising the existing
			profile with the formation of the
			embankment is taken to make the design
			flood resilient.
Will the proposed project interventions lead to		No	
increased soil erosion?			
Will the proposed project interventions result in		No	Combustible. noncombustible and
the generation of hazardous and/or non-			hazardous waste will be temporarily stored
hazardous waste?			on-site in the designated locations and
			handed over to approve waste contractors
			for recycling purposes and safe disposal.
Will the proposed project interventions result in		No	The screening will be carried out before
potentially increased health risks for <b>project</b>			hiring the labour.
workers and communities (e.g. COVID-19)?			
Is the proposed project interventions being		Nο	The proposed rebabilitation works will
implemented in an area with <b>high natural</b>		110	improve the drainage during monsoon
hazard risk? (e.g. floods, earthquakes,			without any environmental consequences.
landslides)			
FCOLOGIC	AI FN	VIRO	NMENT
Will the proposed project interventions		No	No protected areas were observed near
potentially cause any adverse impacts on		110	(1000 meters) of the proposed sub-project
habitats ecosystems and/or ecosystem			area
services?			
Will any rehabilitation & improvement works be		No	Proposed rehabilitation works falls in rural
located in areas that would promote the			area.
conversion of natural habitats?			
Will any proposed project interventions be		No	The indirect impacts have been evaluated
located on or near sensitive environmental			at 100 meters/328 feet on either side of the
areas, including national parks and protected			road center line of the proposed
areas?			rehabilitation works (250 ft on each side
			from the center line). Only one Gravevard
			at approximately 340 ft way from the center
			line.
Are the proposed project interventions		No	As far as the sub-proiect area is
activities likely to pose risks to any			concerned, none of the endemic or
endangered species?			endangered species of both flora and
<b>5</b> .			fauna were recorded from the sub-project
			site.
SOCIAL	ENVIR	ONM	ENT
Will the proposed project interventions involve		No	No land acquisition is involved as the
land acquisition?			proposed subproject interventions are
			within the existing RoW.
Are there any forced labor or child labor risks		No	Child & forced labour is not allowed on the
associated with contractors or other third			SFERP,
parties involved in implementing this proposed			
project intervention?			



la labor influer concentral during	41		
is labor influx expected during	the	INO	A large-scale labor influx is not expected
implementation of the proposed pro	oject		due to the availability of local labor in the
interventions? Please estimate the strengt	h of		subproject area and the scale of works
the anticipated outside labor force.			anticipated under the subproject.
Will local labor be used for the proposed			Local operators/drivers will be preferred
project intervention activities? Please estim	nate		with valid driving licenses having
the strength of the anticipated local labor force.			experience driving vehicles like (trucks,
			dumpers, and Dozers, etc.).
Will there be any temporary or perman	nent	No	None of the infrastructure and commercial
displacement as a result of the propo	sed		activities exist within RoW. No resettlement
project intervention activities?			is expected due to the rehabilitation of the
			proposed project's sub-component.
Are there expected to be any traffic-rela	ted Yes		Traffic Management Plan will be developed
<b>issues</b> as a result of the proposed pro	piect		and implemented to address the traffic
intervention activities, particularly during the			management issues during the
construction phase?			rebabilitation works in sub-project areas
Are there any recognized Indigen	<u></u>	No	no Indigenous Deeples were found in the
Re there any recognized indigen	vicet	NO	impost zono
reopies present in the proposed pro			impact zone.
imposted by the project sither positively			
negatively?			
Are the proposed project interventions likel	ly to	NO	no archaeological sites were found in the
have impacts on import	tant		impact zone.
religious/cultural heritage sites?			
Have there been any past security-rela	ated	No	no security-related issues were found in
issues at the proposed project interven	ition		the impact zone.
site?			
Has stakeholder engagement taken place in			A site visit was carried out to identify all
the proposed project interventions area?			stakeholders that either reside or work in
			the project vicinity and conduct an initial
			identification of potential positive and
			negative impacts.
Were vulnerable and indigenous groups		No	no Indigenous Peoples were found in the
involved in stakeholder consultations? (	e.g.		impact zone.
women, minorities, economic	ally		'
disadvantaged individuals, etc.)			
RISK CLASSIFICATION			
Step Recommendations/Findings			
Risk category identification	l ow-Medium risk level		
Recommendation on two of EPS	vne of E&S ESMP		
instruments required			
Cummany of correcting findings			
Summary of screening findings	nese lisks are likely to be temporary and reversible and are		
	not expected to have lasting effects on the proposed project		
	Intervention areas		
Name of the person endorsing			teguard of PIU
Environmental and Social Screening Checklist – Road 2			
Proposed Project Interventions Details			
Name of proposed project interventions	of proposed project interventions		


ID of proposed project interventions	02-	24°14	'21.75	"N 67°36'25.07"E 24°11'26.65"N		
	67°37	7'35.84	."Е			
Proposing agency	PIU-S	SFERP	)			
Proposed project interventions location	Distri	ct That	tta Tal	uka Keti Bander		
Proposed project interventions objective	The	propos	ed ac	tivities will be confined to the existing road		
	RoW	. For th	is ESI	ESMP, potential impacts were considered within		
	a cor	ridor e	xtendi	ng some 100 meters/328 feet on either side		
	of the	e road	cente	r line. Both rehabilitation and reconstruction		
	withir	n the ex	xisting	carriageway are category B works,		
	Thep	propose	ed pro	ject under Flood 2022 Emergency Response		
	is a	sub-co	mpon	ent that will support the rehabilitation and		
	recor	nstruction	on of	the flood-affected road network to improve		
	acces	ssibility	tO	public facilities and facilitate the socio-		
	econ	omic re	evival	of the worst-affected areas.		
Estimated cost	-					
Proposed date of commencement of	Will c	complet	te in 1	2 months		
		.,				
Screening Question		Yes	NO	Remarks		
PH	YSICA	LENV				
Will the proposed project interventions	pose		No	None of the trees will need to be cut due to		
the risk of clearance of vegetation that	may			the proposed renabilitation work.		
result in an increase in the level of suspe	naea					
Solids washing into hearby water bodies?				During the construction store different		
will the proposed project interventions po	ose a	yes		During the construction stage, different		
nsk of contaminating water sources of	ue to			types of activities, such as earthwork,		
construction activities?				Subbase formation, Aspirati wearing,		
				compete work and result in deteriorating the		
				surface water quality		
Will the proposed project interventions <b>de</b>	nloto		No	Water consumption will be monitored by		
<b>aroundwater</b> because of the water	used			keeping the records of consumption and		
during road construction activities?	uoou			capacity building of the construction crew		
				during the construction stage and records		
				will be maintained to avoid any wastage.		
Will the proposed project interventions res	sult in	Yes		During the construction phase of the		
an increase in <b>ambient air pollution</b> , inclu	uding			proposed sub-project; some adverse		
chemical and particulate matter due to	b the			impacts on the ambient air by suspended		
construction and operation of re	lated			dust and noise are foreseen.		
machinery?						
Will the proposed project interventions res	sult in	Yes		An increase in ambient noise and vibration		
an increase in ambient noise levels	and			is expected due to the operation of		
vibrations due to the operation of constru	iction			construction machinery such as bulldozers,		
machinery/vehicles?				excavators, pneumatic machinery, etc.		
Will these ambient noise levels be beyon	d the		No	These are within the limit as per baseline		
specifications in the SEQS?				monitoring results.		
Will the proposed project interventions le	ad to		No	Proposed project will reduce the erosion		
erosion hazards?				due to flood water by raising the existing		
				profile with the formation of the		
				embankment is taken to make the design		
[				flood resilient.		



Will the proposed project interventions lead to		No	
increased soil erosion?			
Will the proposed project interventions result in		No	Combustible, noncombustible and
the generation of hazardous and/or non-			hazardous waste will be temporarily stored
hazardous waste?			on-site in the designated locations and
			handed over to approve waste contractors
			for recycling purposes and safe disposal.
Will the proposed project interventions result in		No	The screening will be carried out before
potentially increased health risks for project			hiring the labour.
workers and communities (e.g. COVID-19)?			3
Is the proposed project interventions being		No	The proposed rehabilitation works will
implemented in an area with <b>high natural</b>			improve the drainage during monsoon
hazard risk? (e.g. floods, earthquakes,			without any environmental consequences.
landslides)			
ECOLOGIC	AI FN	VIRO	NMENT
Will the proposed project interventions		No	No protected areas were observed near
potentially cause any adverse impacts on		110	(1000 meters) of the proposed sub-project
habitats ecosystems and/or ecosystem			area
services?			
Will any rehabilitation & improvement works be		Νo	Proposed rebabilitation works falls in rural
located in areas that would promote the		110	area
conversion of natural habitats?			
Will any proposed project interventions be		No	The indirect imposts have been evaluated
located on or near sensitive environmental			the indirect impacts have been evaluated
areas including national parks and protected			at 100 meters/328 feet on either side of the
areas?			robabilitation works (250 ft on each side
			from the center line) One Mosque and one
			School at approximately, 208
			, 206ft way from the center line.
Are the proposed project interventions		NO	As far as the sub-project area is
activities likely to pose risks to any			concerned, none of the endemic or
endangered species?			endangered species of both flora and
			fauna were recorded from the sub-project
will the proposed project interventions involve		INO	involved as the
land acquisition?			proposed subproject interventions are
			Olith 2 (constitution of all and a second seco
Are there any torced labor or child labor risks		INO	Child & forced labour is not allowed on the
associated with contractors or other third			SFERP,
parties involved in implementing this proposed			
		NLa	
is labor initiax expected during the		INO	A large-scale labor influx is not expected
interventions? Please estimate the strength of			subproject area and the seels of works
the anticipated outside labor force			anticipated under the subproject
Will loool lober be used for the present	Vaa		
reject intervention activities? Places actimate	res		with valid driving licenses beving
the strength of the anticipated least labor force			with value unving incenses having
			dumpers and Dozors ata )
			uumpers, and Dozers, etc.).



Will there be any temporary or permai	nent	No	None of the infrastructure and commercial
displacement as a result of the propo	osed		activities exist within RoW. No resettlement
project intervention activities?			is expected due to the rehabilitation of the
			proposed project's sub-component.
Are there expected to be any traffic-rela	ated Yes	1	Traffic Management Plan will be developed
issues as a result of the proposed pro	oject		and implemented to address the traffic
intervention activities, particularly during	, the		management issues during the
construction phase?			rehabilitation works in sub-project areas
Are there any recognized Indigen	ous	No	no Indigenous Peoples were found in the
Peoples present in the proposed pro	oject		impact zone.
interventions area, and are they likely to	, b be		'
impacted by the project, either positivel	y or		
negatively?	-		
Are the proposed project interventions like	ly to	No	no archaeological sites were found in the
have impacts on impor	tant		impact zone.
religious/cultural heritage sites?			
Have there been any past security-rela	ated	No	no security-related issues were found in
issues at the proposed project interver	ntion		the impact zone.
site?			
Has stakeholder engagement taken place	ce in yes	1	A site visit was carried out to identify all
the proposed project interventions area?			stakeholders that either reside or work in
			the project vicinity and conduct an initial
			identification of potential positive and
			negative impacts.
Were vulnerable and indigenous gro	oups	No	no Indigenous Peoples were found in the
involved in stakeholder consultations?	(e.g.		impact zone.
women, minorities, economic	cally		
disadvantaged individuals, etc.)			
RI	SK CLASSI	FICAT	ION
Step	Recommer	ndatio	ns/Findings
Risk category identification	Low-Mediu	m risk	level
Recommendation on type of E&S	ESMP		
instruments required.			
Summary of screening findings	These risks	are li	kely to be temporary and reversible and are
	not expecte	ed to h	ave lasting effects on the proposed project
	intervention	areas	5
Name of the person endorsing	Environmer	ntal Sa	feguard of PIU
screening findings			
Environmental and Social Screening	Checklist	Road	1 - 3
Proposed	Project Inte	ervent	ions Details
Name of proposed project interventions	Recondition	nina of	road from 105 mori shoro stop at 12 00
	kms muroo	dani o	howk to village alam jatt & poor m latt /
		uani u	Nowk to vinage alarn jatt & hoor hit. Satt /
	paryo jali i/	C IIIIKS	
ID of proposed project interventions	03- 24°26'	12.63"	N 67°43'52.78"E 24°25'11.59"N
	67°39'47.87	7"E	
Proposing agency	PIU-SFERF	2	
Proposed project interventions location	District Tha	tta Tal	uka Ghorabari
Proposed project interventions objective	The propos	sed ac	tivities will be confined to the existing road
	DoW/ Forth	nie ESI	MP potential impacts were considered within



Estimated cost Proposed date of commencement of civil work	a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio- economic revival of the worst-affected areas.				
Screening Question		Yes	No	Remarks	
PH	YSICA	LENV	IRON	MENT	
Will the proposed project interventions	pose		No	None of the trees will need to be cut due to	
the risk of clearance of vegetation that	may			the proposed rehabilitation work.	
result in an increase in the level of suspe	nded				
solids washing into nearby water bodies?					
Will the proposed project interventions po	ose a	yes		During the construction stage, different	
risk of <b>contaminating water sources</b> de construction activities?	ue to			types of activities, such as earthwork, Subbase formation, Asphalt wearing, concrete work and Restoration of the campsite might result in deteriorating the surface water quality	
Will the proposed project interventions <b>de</b>	plete		No	Water consumption will be monitored by	
groundwater because of the water during road construction activities?	used			keeping the records of consumption and capacity building of the construction crew during the construction stage and records will be maintained to avoid any wastage.	
Will the proposed project interventions res	sult in	Yes		During the construction phase of the	
an increase in <b>ambient air pollution</b> , inclu	uding			proposed sub-project; some adverse	
chemical and particulate matter due to construction and operation of re machinery?	the lated			impacts on the ambient air by suspended dust and noise are foreseen.	
Will the proposed project interventions res	ult in	Yes		An increase in ambient noise and vibration	
an increase in <b>ambient noise levels</b> vibrations due to the operation of constru- machinery/vehicles?	and Iction			is expected due to the operation of construction machinery such as bulldozers, excavators, pneumatic machinery, etc.	
Will these ambient noise levels be beyon	d the		No	These are within the limit as per baseline	
specifications in the SEQS?				monitoring results.	
Will the proposed project interventions le erosion hazards?	ad to		No	Proposed project will reduce the erosion due to flood water by raising the existing profile with the formation of the embankment is taken to make the design flood resilient.	
Will the proposed project interventions le	ad to		No		
increased soil erosion?					
Will the proposed project interventions res	sult in		No	Combustible, noncombustible and	
the generation of hazardous and/or	non-			nazardous waste will be temporarily stored	
nazardous waste?				handed over to approve waste contractors for recycling purposes and safe disposal.	



Will the proposed project interventions result in		No	The screening will be carried out before
potentially increased health risks for project			hiring the labour.
workers and communities (e.g. COVID-19)?			-
Is the proposed project interventions being		No	The proposed rehabilitation works will
implemented in an area with high natural			improve the drainage during monsoon
hazard risk? (e.g. floods, earthquakes,			without any environmental consequences.
landslides)			
ECOLOGIC		VIRO	NMENT
Will the proposed project interventions	[	No	No protected areas were observed near
potentially cause any adverse impacts on			(1000 meters) of the proposed sub-project
habitats, ecosystems, and/or ecosystem			area.
services?			
Will any rehabilitation & improvement works be		No	Proposed rehabilitation works falls in rural
located in areas that would promote the			area,
conversion of natural habitats?			
Will any proposed project interventions be		No	The indirect impacts have been evaluated
located on or near sensitive environmental			at 100 meters/328 feet on either side of the
areas, including national parks and protected			road center line of the proposed
areas?			rehabilitation works (250 ft on each side
			from the center line), None of the socially
			sensitive receptors found in the buffer zone
Are the proposed project interventions		No	As far as the sub-project area is
activities likely to pose risks to any			concerned, none of the endemic or
endangered species?			endangered species of both flora and
<b>5</b>			fauna were recorded from the sub-project
			site.
SOCIAL	ENVIE	RONM	ENT
Will the proposed project interventions involve		No	No land acquisition is involved as the
land acquisition?			proposed subproject interventions are
			within the existing RoW.
Are there any forced labor or child labor risks		No	Child & forced labour is not allowed on the
associated with contractors or other third			SFERP,
parties involved in implementing this proposed			
project intervention?			
Is labor influx expected during the		No	A large-scale labor influx is not expected
implementation of the proposed project			due to the availability of local labor in the
interventions? Please estimate the strength of			subproject area and the scale of works
the anticipated outside labor force.			anticipated under the subproject.
Will local labor be used for the proposed	Yes		Local operators/drivers will be preferred
project intervention activities? Please estimate			with valid driving licenses having
the strength of the anticipated local labor force.			experience driving vehicles like (trucks,
			dumpers, and Dozers, etc.).
Will there be any temporary or permanent		No	None of the infrastructure and commercial
<b>displacement</b> as a result of the proposed			activities exist within Row. No resettlement
project intervention activities?			is expected due to the renabilitation of the
	Var		proposed project's sub-component.
Are there expected to be any traffic-related	res		I ramic Management Plan will be developed
issues as a result of the proposed project			and implemented to address the traffic



construction phase? implementation works in sub-project areas   Are there any recognized Indigenous Peoples present in the proposed project interventions area, and are they likely to be impacted by the project, either positively or negatively? No no archaeological sites were found in the impact zone.   Are there proposed project interventions likely to have impacts on imports religious/cutural heritage sites? No no archaeological sites were found in the impact zone.   Have there been any past security-related issues at the proposed project interventions area? No no security-related issues were found in the impact zone.   Has stakeholder engagement taken place in proposed project interventions area? yes A site visit was carried out to identify all stakeholders that either reside or work in the project vicinity and conduct an initial identification of potential positive and negative impacts.   Were vulnerable and indigenous groups involved in stakeholder consultations? (e.g. women, minorities, economically disadvantaged individuals, etc.) No no Indigenous Peoples were found in the impact zone.   Step Recommendation on type of ExS instruments required. ESMP   Summary of screening findings These risks are likely to be temporary and reversible and are not expected to have lasting effects on the proposed project intervention areas   Name of proposed project interventions Qe4. 24'38'8.65'N 67'53'9.33'E 24'34'49.10'N 67'53'31.48'E   Proposed project interventions objective <	intervention activities, particularly during	g the			management issues during the
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interventions area, and are they likely to be impacted by the project, either positively or negatively? Are the proposed project interventions likely to have impacts on important religious/cultural heritage sites? Have there been any past security-related issues at the proposed project intervention site? Has stakeholder engagement taken place in the proposed project interventions area? Has stakeholder consultations? (e.g. Were vulnerable and indigenous groups involved in stakeholder consultations? (e.g. Were vulnerable and indigenous groups involved in stakeholder consultations? (e.g. No no indigenous Peoples were found in the impact zone. No more indigenous Peoples were found in the intervention areas Name of the person endorsing Servironmental and Social Screening Checklist – Road 4 Proposed project interventions Proposed project interventions Proposed project interventions Proposed project interventions objective Proposed project interventions objecti	Peoples present in the proposed p	roject			impact zone.
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Risk category identification Low-Medium risk level   Recommendation on type of E&S instruments required. ESMP   Summary of screening findings These risks are likely to be temporary and reversible and are not expected to have lasting effects on the proposed project intervention areas   Name of the person endorsing screening findings Environmental Safeguard of PIU   Environmental and Social Screening Checklist – Road 4   Proposed Project Interventions Details   Name of proposed project interventions   Reconditioning of road from 103 mori at 18.0 kms to village khan memon and jan muhammad jatt   ID of proposed project interventions   Proposed project interventions location   Pistrict & Taluka Thatta   Proposed project interventions objective   Proposed project interventions objective   Ne proposed project interventions objective   Ne proposed project interventions objective   Proposed project interventions objective   Name of proposed project interventions objective   Name of proposed project interventions objective   Recordition game 100 meters/328 feet on either s	Step	Reco	ommen	datio	ns/Findings
Recommendation Dot modular hororor   Recommendation type of E&S   instruments required. SSMP   Summary of screening findings These risks are likely to be temporary and reversible and are not expected to have lasting effects on the proposed project intervention areas   Name of the person endorsing screening findings Environmental Safeguard of PIU   Environmental and Social Screening Checklist – Road 4 Proposed Project Interventions Details   Name of proposed project interventions Reconditioning of road from 103 mori at 18.0 kms to village khan memon and jan muhammad jatt   ID of proposed project interventions 04- 24°38'8.55"N 67°53'9.33"E 24°34'49.10"N 67°53'31.48"E   Proposed project interventions location District & Taluka Thatta   Proposed project interventions objective The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilitate the socio-economic raview of the propert of the propret of the properties of the propret of the pr	Risk category identification	L ow-	Mediur	n risk	level
Instruments required. Extent   Summary of screening findings These risks are likely to be temporary and reversible and are not expected to have lasting effects on the proposed project intervention areas   Name of the person endorsing screening findings Environmental Safeguard of PIU   Environmental and Social Screening Checklist – Road 4   Proposed Project Interventions Details   Name of proposed project interventions Reconditioning of road from 103 mori at 18.0 kms to village khan memon and jan muhammad jatt   ID of proposed project interventions 04- 24°38'8.55"N 67°53'9.33"E 24°34'49.10"N 67°53'31.48"E   Proposing agency PIU-SFERP   Proposed project interventions objective The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic revised of the work of the road of the streen revised of the road of the road of the streen revised of the work of the road of the road of the streen revised of the road of the streen revised road network to improve accessibility to public facilitites and facilitate the socio-economic rev	Recommendation on type of E&S	ESM	P		
Summary of screening findings These risks are likely to be temporary and reversible and are not expected to have lasting effects on the proposed project intervention areas   Name of the person endorsing screening findings Environmental Safeguard of PIU   Environmental and Social Screening Checklist – Road 4   Proposed Project Interventions Details   Name of proposed project interventions   Reconditioning of road from 103 mori at 18.0 kms to village khan memon and jan muhammad jatt   ID of proposed project interventions   O4- 24°38'8.55"N 67°53'9.33"E 24°34'49.10"N 67°53'31.48"E   Proposing agency   Pioposed project interventions location   District & Taluka Thatta   Proposed project interventions objective   The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic revised of the veroe	instruments required		1		
Dummary of seccening indurgs Index hash are likely to be temporary and reversion and are not expected to have lasting effects on the proposed project intervention areas   Name of the person endorsing screening findings Environmental Safeguard of PIU   Environmental and Social Screening Checklist – Road 4 Proposed Project Interventions Details   Name of proposed project interventions Reconditioning of road from 103 mori at 18.0 kms to village khan memon and jan muhammad jatt   ID of proposed project interventions 04- 24°38'8.55"N 67°53'9.33"E 24°34'49.10"N 67°53'31.48"E   Proposed project interventions location District & Taluka Thatta   Proposed project interventions objective The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic review of the ord or procession of the proposed project were to for the ord procession of the proposed project intervention and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic review of for the ord procession.	Summary of screening findings	Thes	o risks	are lil	kelv to be temporary and reversible and are
Interception and the intermetation of the proposed project intervention areas   Name of the person endorsing screening findings   Environmental and Social Screening Checklist – Road 4   Proposed Project Interventions Details   Name of proposed project interventions   Reconditioning of road from 103 mori at 18.0 kms to village khan memon and jan muhammad jatt   ID of proposed project interventions   Proposed project interventions location   Proposed project interventions objective   The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic review of the wort offected opponent to the support of the relabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic review of the support of the flood affected road network to improve accessibility to public facilities and facilitate the socio-economic robis of the support for the support for the s	Cuminary of Screening Indings	note	vnecte	d to h	ave lasting effects on the proposed project
Name of the person endorsing screening findings Environmental Safeguard of PIU   Environmental and Social Screening Checklist – Road 4   Proposed Project Interventions Details   Name of proposed project interventions   Reconditioning of road from 103 mori at 18.0 kms to village khan memon and jan muhammad jatt   ID of proposed project interventions   O4- 24°38'8.55"N 67°53'9.33"E 24°34'49.10"N 67°53'31.48"E   Proposing agency   Pioposed project interventions location   District & Taluka Thatta   Proposed project interventions objective   Recordidicing some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic review of the worst offected neares		interv	vention	areas	ave lasting checks on the proposed project
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Environmental and Social Screening Checklist – Road 4   Proposed Project Interventions Details   Name of proposed project interventions Reconditioning of road from 103 mori at 18.0 kms to village khan memon and jan muhammad jatt   ID of proposed project interventions 04- 24°38'8.55"N 67°53'9.33"E 24°34'49.10"N 67°53'31.48"E   Proposing agency PIU-SFERP   Proposed project interventions location District & Taluka Thatta   Proposed project interventions objective The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic reviewed of the ward offected aroad.	screening findings		onnion		
Proposed   Project Interventions Details     Name of proposed project interventions   Reconditioning of road from 103 mori at 18.0 kms to village khan memon and jan muhammad jatt     ID of proposed project interventions   04- 24°38'8.55"N 67°53'9.33"E 24°34'49.10"N 67°53'31.48"E     Proposing agency   PIU-SFERP     Proposed project interventions location   District & Taluka Thatta     Proposed project interventions objective   The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic ravivue of the worst affected areas	Environmental and Social Screening	i n Cho	cklist.	- Po:	ad A
Name of proposed project interventionsReconditioning of road from 103 mori at 18.0 kms to village khan memon and jan muhammad jattID of proposed project interventions04- 24°38'8.55"N 67°53'9.33"E 24°34'49.10"N 67°53'31.48"EProposing agencyPIU-SFERPProposed project interventions locationDistrict & Taluka ThattaProposed project interventions objectiveThe proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic revivel of the waret affected acrosp	Environmental and Social Screening		chist		iu +
Name of proposed project interventionsReconditioning of road from 103 mori at 18.0 kms to village khan memon and jan muhammad jattID of proposed project interventions04- 24°38'8.55"N 67°53'9.33"E 24°34'49.10"N 67°53'31.48"EProposing agencyPIU-SFERPProposed project interventions locationDistrict & Taluka ThattaProposed project interventions objectiveThe proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic revised of the worst offected eread	Propose	a Proj	ectinte	erven	
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Proposing agency PIU-SFERP   Proposed project interventions location District & Taluka Thatta   Proposed project interventions objective The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic revival of the waret offected areas	ID of proposed project interventions	04- '	24°38'8	8 55"N	67°53'9 33"F 24°34'49 10"N 67°53'31 48"F
Proposed project interventions location District & Taluka Thatta   Proposed project interventions objective The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic rovival of the warst effected areas	Proposing agency			)	
Proposed project interventions location District & Faluka Matta Proposed project interventions objective The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic routing of the worst offected areas	Proposed project interventions location	Dietr		aluka T	Chatta
Row. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic revival of the wart offected areas	Proposed project interventions location	The			tivition will be confined to the existing read
a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic	Proposed project interventions objective		propos		MD potential imposts were appoidered within
the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic rouival of the worst offected areas			. FULL rider ex	us ESI vtondi:	wir, potential impacts were considered within
within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic		a cor			line Roth robabilitation and reconstruction
The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic		within	n the ex	vietina	ance. Don't renabilitation and reconstruction
is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic		The		ad nro	iect under Flood 2022 Emergency Response
reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic		ine	sub-co	omnon	ent that will support the rehabilitation and
accessibility to public facilities and facilitate the socio-economic		recor	nstructi	on of	the flood-affected road network to improve
revivel of the worst effected ereas		acce	ssibility	to nu	blic facilities and facilitate the socio-economic
Tevival of the worst-affected affects.		reviv	al of the	e wors	st-affected areas.



Estimated cost	-				
Proposed date of commencement of	Will o	complete in 12 months			
civil work					
Screening Question		Yes No Remarks			
PH	YSIC/	L ENV	IRON	MENT	
Will the proposed project interventions	pose		No	None of the trees will need to be cut due to	
the risk of clearance of vegetation that	may			the proposed rehabilitation work.	
result in an increase in the level of suspe	nded				
solids washing into nearby water bodies?					
Will the proposed project interventions po	ose a	ves		During the construction stage, different	
risk of <b>contaminating water sources</b> d	ue to	<b>,</b>		types of activities, such as earthwork.	
construction activities?				Subbase formation. Asphalt wearing.	
				concrete work and Restoration of the	
				campsite might result in deteriorating the	
				surface water quality	
Will the proposed project interventions <b>de</b>	plete		No	Water consumption will be monitored by	
groundwater because of the water	used			keeping the records of consumption and	
during road construction activities?				capacity building of the construction crew	
g				during the construction stage and records	
				will be maintained to avoid any wastage.	
Will the proposed project interventions res	sult in	Yes		During the construction phase of the	
an increase in <b>ambient air pollution</b> , inclu	Jdina			proposed sub-project: some adverse	
chemical and particulate matter due to	the			impacts on the ambient air by suspended	
construction and operation of re	lated			dust and noise are foreseen.	
machinery?					
Will the proposed project interventions res	sult in	Yes		An increase in ambient noise and vibration	
an increase in <b>ambient noise levels</b>	and			is expected due to the operation of	
vibrations due to the operation of constru	iction			construction machinery such as bulldozers.	
machinerv/vehicles?				excavators, pneumatic machinery, etc.	
Will these ambient noise levels be bevon	d the		No	These are within the limit as per baseline	
specifications in the SEQS?				monitoring results.	
Will the proposed project interventions le	ad to		No	Proposed project will reduce the erosion	
erosion hazards?				due to flood water by raising the existing	
				profile with the formation of the	
				embankment is taken to make the design	
				flood resilient.	
Will the proposed project interventions le	ad to		No		
increased soil erosion?			-		
Will the proposed project interventions res	sult in		No	Combustible, noncombustible and	
the generation of hazardous and/or	non-			hazardous waste will be temporarily stored	
hazardous waste?				on-site in the designated locations and	
				handed over to approve waste contractors	
				for recycling purposes and safe disposal.	
Will the proposed project interventions res	sult in		No	The screening will be carried out before	
potentially increased health risks for pr	oject			hiring the labour.	
workers and communities (e.g. COVID-	19)?				
Is the proposed project interventions I	being		No	The proposed rehabilitation works will	
implemented in an area with high na	tural			improve the drainage during monsoon	
hazard risk? (e.g. floods, earthqua	akes,			without any environmental consequences.	
landslides)					
ECO	LOGI	CAL EN	IVIRO	NMENT	



Will the proposed project interventions		No	No protected areas were observed near
potentially cause any adverse impacts on			(1000 meters) of the proposed sub-project
habitats, ecosystems, and/or ecosystem			area.
services?			
Will any rehabilitation & improvement works be		No	Proposed rehabilitation works falls in rural
located in areas that would promote the			area
conversion of natural habitats?			
Will any proposed project interventions be		No	
will any proposed project interventions be		INO	The indirect impacts have been evaluated at
located on or near sensitive environmental			100 meters/328 feet on either side of the
areas, including national parks and protected			road center line of the proposed
areas?			rehabilitation works (250 ft on each side
			from the center line), None of the socially
			sensitive receptors found in the buffer zone
Are the proposed project interventions		No	As far as the sub-project area is concerned.
activities likely to pose risks to any			none of the endemic or endangered species
endangered species?			of both flora and fauna were recorded from
5			the sub-project site.
SOCIA		RONN	۱
Will the proposed project interventions involve		No	No land acquisition is involved as the
land acquisition?			proposed subproject interventions are within
			the existing RoW.
Are there any <b>forced labor or child labor</b> risks		Νo	Child & forced labour is not allowed on the
associated with contractors or other third		110	SEERP
parties involved in implementing this proposed			
project intervention?			
Is labor influx expected during the		No	A large-scale labor influx is not expected
implementation of the proposed project		110	due to the availability of local labor in the
interventions? Please estimate the strength of			subproject area and the scale of works
the anticipated outside labor force			anticipated under the subproject
Will local labor be used for the proposed	Voc		Local operators/drivers will be preferred with
project intervention activities? Please estimate	165		valid driving licenses baving experience
the strength of the apticipated local labor force			driving vobicles like (trucks dumpers and
			Dozers etc.)
Will there be any temperature permanent		No	None of the infrastructure and commercial
displacement as a result of the proposed		INO	None of the infrastructure and commercial
project intervention activities?			activities exist within Row. No resettlement
project intervention activities?			represent project's sub component
	Vaa		Treffie Menagement Plan will be developed
Are there expected to be any traffic-related	res		and implemented to address the troffic
issues as a result of the proposed project			and implemented to address the trailic
intervention activities, particularly during the			management issues during the
			renabilitation works in sub-project areas
Are there any recognized indigenous		NO	no indigenous Peoples were found in the
Peoples present in the proposed project			impact zone.
interventions area, and are they likely to be			
impacted by the project, either positively or			
negatively?			
Are the proposed project interventions likely to		No	no archaeological sites were found in the
have impacts on important			impact zone.
religious/cultural heritage sites?			



Have there been any past security-re	lated		No	no security-related issues were found in the
issues at the proposed project interve	ntion			impact zone.
site?				
Has stakeholder engagement taken pla	ce in	yes		A site visit was carried out to identify all
the proposed project interventions area?				stakeholders that either reside or work in the
				project vicinity and conduct an initial
				identification of potential positive and
				negative impacts.
Were vulnerable and indigenous grout	oups		No	no Indigenous Peoples were found in the
involved in stakeholder consultations?	(e.g.			impact zone.
women, minorities, econom	ically			
disadvantaged individuals, etc.)				
R		LASSI	FICAT	10N
Step	Reco	ommen	datio	ns/Findings
Risk category identification	Low-	Mediun	n risk l	evel
Recommendation on type of E&S	ESM	Р		
instruments required.				
Summary of screening findings	Thes	e risks	are li	kely to be temporary and reversible and are
	not e	expecte	d to h	ave lasting effects on the proposed project
	Inter	ention	areas	
Name of the person endorsing	Envir	onmen	tal Sa	leguard of PIU
screening findings				
Environmental and Social Screening	Cheo	cklist -	- Roa	
Proposed	l Proje	ect Inte	rventi	ons Details
Name of proposed project interventions	Reco	ondition	ing of	road from 105 mori mahr mitho shaikh
	mure	edani r	road to	village ali muhammad rind via muhammad
	umer	r arain i	/c link	S
ID of proposed project interventions	05-2	4°25'57	7 11"N	67°43'56 50"E 24°24'21 94"N
	67°4	0'41.62	"E	
Proposing agency	PIU-S	SFERP	_	
Proposed project interventions location	Distri	ct That	ta Tal	uka Ghorabari
Proposed project interventions objective	The	propose	ed act	ivities will be confined to the existing road
	RoW	. For th	is ESN	/P. potential impacts were considered within
	a cor	ridor ex	ktendi	ng some 100 meters/328 feet on either side
	of the	e road	center	line. Both rehabilitation and reconstruction
	withir	n the ex	kisting	carriageway are category B works,
	Thep	propose	ed proj	ect under Flood 2022 Emergency Response
	is a	sub-co	mpone	ent that will support the rehabilitation and
	recor	nstructio	on of	the flood-affected road network to improve
	acce	ssibility	to	public facilities and facilitate the socio-
	econ	omic re	evival o	of the worst-affected areas.
Estimated cost	-			
Proposed date of commencement of	Will c	complet	e in 12	2 months
civil work				
Screening Question		Yes	No	Remarks
PH	YSICA	L ENV	IRONI	MENT
Will the proposed project interventions	pose		No	None of the trees will need to be cut due
the risk of clearance of vegetation that	mav			to the proposed rehabilitation work.



result in an increase in the level of suspended			
			During the second structure in 1997
vviil the proposed project interventions pose a	yes		During the construction stage, different
risk of contaminating water sources due to			types of activities, such as earthwork,
construction activities?			Subbase formation, Asphalt wearing,
			concrete work and Restoration of the
			campsite might result in deteriorating the
			surface water quality
Will the proposed project interventions <b>deplete</b>		No	Water consumption will be monitored by
groundwater because of the water used			keeping the records of consumption and
during road construction activities?			capacity building of the construction crew
			during the construction stage and records
			will be maintained to avoid any wastage.
Will the proposed project interventions result in	Yes		During the construction phase of the
an increase in <b>ambient air pollution</b> , including			proposed sub-project; some adverse
chemical and particulate matter due to the			impacts on the ambient air by suspended
construction and operation of related			dust and noise are foreseen.
machinery?			
Will the proposed project interventions result in	Yes		An increase in ambient noise and
an increase in ambient noise levels and			vibration is expected due to the operation
vibrations due to the operation of construction			of construction machinery such as
machinery/vehicles?			bulldozers, excavators, pneumatic
			machinery, etc.
Will these ambient noise levels be beyond the		No	These are within the limit as per baseline
specifications in the SEQS?			monitoring results.
Will the proposed project interventions lead to		No	Proposed project will reduce the erosion
erosion hazards?			due to flood water by raising the existing
			profile with the formation of the
			embankment is taken to make the design
			flood resilient.
Will the proposed project interventions lead to		No	
increased soil erosion?			
Will the proposed project interventions result in		No	Combustible, noncombustible and
the generation of hazardous and/or non-			hazardous waste will be temporarily
hazardous waste?			stored on-site in the designated locations
			and handed over to approve waste
			contractors for recycling purposes and
			safe disposal.
Will the proposed project interventions result in		No	The screening will be carried out before
potentially increased health risks for project			hiring the labour.
workers and communities (e.g. COVID-19)?			
Is the proposed project interventions being		No	The proposed rehabilitation works will
implemented in an area with high natural			improve the drainage during monsoon
hazard risk? (e.g. floods, earthquakes,			without any environmental
landslides)			consequences.
ECOLOGIO		/IRON	IMENT
Will the proposed project interventions		No	No protected areas were observed near
potentially cause any adverse impacts on			(1000 meters) of the proposed sub-proiect
habitats, ecosystems, and/or ecosystem			area.
services?			
L	<b>.</b>	<b>.</b>	L



Will any rehabilitation & improvement works be		No	Proposed rehabilitation works falls in rural
located in areas that would promote the			area,
conversion of natural habitats?			
Will any proposed project interventions be		No	The indirect impacts have been evaluated
located on or near sensitive environmental			at 100 meters/328 feet on either side of
areas, including national parks and protected			the road center line of the proposed
areas?			rehabilitation works (250 ft on each side
			from the center line), None of the socially
			sensitive receptors found in the buffer
			zone
Are the proposed project interventions		No	As far as the sub-project area is
activities likely to pose risks to any			concerned, none of the endemic or
endangered species?			endangered species of both flora and
			fauna were recorded from the sub-project
			site.
SOCIAI	ENVIR	ONME	INT
Will the proposed project interventions involve		No	No land acquisition is involved as the
land acquisition?			proposed subproject interventions are
			within the existing RoW.
Are there any forced labor or child labor risks		No	Child & forced labour is not allowed on the
associated with contractors or other third			SFERP,
parties involved in implementing this proposed			
project intervention?			
Is labor influx expected during the		No	A large-scale labor influx is not expected
implementation of the proposed project			due to the availability of local labor in the
interventions? Please estimate the strength of			subproject area and the scale of works
the anticipated outside labor force.			anticipated under the subproject.
Will local labor be used for the proposed	Yes		Local operators/drivers will be preferred
project intervention activities? Please estimate			with valid driving licenses having
the strength of the anticipated local labor force.			experience driving vehicles like (trucks,
			dumpers, and Dozers, etc.).
Will there be any temporary or permanent		No	None of the infrastructure and commercial
displacement as a result of the proposed			activities exist within Row. No
project intervention activities?			resettlement is expected due to the
			renabilitation of the proposed projects
	Vee		Sub-component.
Are there expected to be any traffic-related	res		frailic Management Plan will be
intervention activities particularly during the			the traffic management issues during the
construction phase?			rebabilitation works in sub-project areas
Are there any recognized Indigenous		No	no Indigenous Beenles were found in the
Peoples present in the proposed project		INU	impact zone
interventions area and are they likely to be			
impacted by the project, either positively or			
negatively?			
Are the proposed project interventions likely to		No	no archaeological sites were found in the
have impacts on important			impact zone.
religious/cultural heritage sites?			



Have there been any past security-re	ated		No	no security-related issues were found in	
issues at the proposed project interve	ntion			the impact zone.	
site?					
Has stakeholder engagement taken pla	ce in	yes	1	A site visit was carried out to identify all	
the proposed project interventions area?		-		stakeholders that either reside or work in	
				the project vicinity and conduct an initial	
				identification of potential positive and	
				negative impacts.	
Were vulnerable and indigenous grout	oups		No	no Indigenous Peoples were found in the	
involved in stakeholder consultations?	(e.g.			impact zone.	
women, minorities, econom	ically				
disadvantaged individuals, etc.)					
R	ISK C	LASSIF	ICAT	ION	
Step	Reco	ommen	datio	ns/Findings	
Risk category identification	Low-	Medium	n risk l	evel	
Recommendation on type of E&S	ESM	P			
instruments required.					
Summary of screening findings	Thes	e risks	are lik	kelv to be temporary and reversible and are	
	not e	expected	d to h	ave lasting effects on the proposed project	
	interv	vention	areas		
Name of the person endorsing	Envir	onmen	tal Sat	feguard of PILI	
screening findings		onnon			
Environmental and Social Screening		cklict (	beoC	6	
Proposo		ot Into	Vonti	o Ione Detaile	
	reroje	ect inte	rvenu		
Name of proposed project interventions	Reco	ondition	ing of	road from gharo keti bunder road at 48 km	
	to vil	lage alla	ah din	o shoani via masha allah shadi hall i/c links	
ID of proposed project interventions	06-2	4°19'37	7 93"N	67°37'4 71"F 24°19'36 72"N	
	67°3	5'18 22'	.55 N	07 07 4.71 2 24 10 00.72 10	
Proposing agency	PILL-	SFERP	-		
Proposed project interventions location	Dietri	ict That	ta Tali	uka Ghorabari	
Proposed project interventions location	Tho			ivities will be confined to the evicting read	
			The proposed activities will be confined to the existing		
	RUW			AP potential impacts were considered within	
	2 001	. For this ridor as	is ESN	AP, potential impacts were considered within a some 100 meters/328 feet on either side	
	a cor	ridor ex	is ESN tendir	AP, potential impacts were considered within ng some 100 meters/328 feet on either side	
	a cor of the within	ridor ex ridor ex e road o	is ESN (tendir center	AP, potential impacts were considered within ng some 100 meters/328 feet on either side line. Both rehabilitation and reconstruction	
	a cor of the within	ridor ex ridor ex e road on the ex	is ESN ctendir center cisting	AP, potential impacts were considered within ng some 100 meters/328 feet on either side line. Both rehabilitation and reconstruction carriageway are category B works,	
	a cor of the within The p	ridor ex ridor ex e road on the ex propose	is ESN ctendir center cisting ed proj	AP, potential impacts were considered within ng some 100 meters/328 feet on either side line. Both rehabilitation and reconstruction carriageway are category B works, ect under Flood 2022 Emergency Response	
	a cor of the within The p is a	ridor ex road ( n the ex propose sub-col	is ESN ctendir center cisting d proj mpone	<i>AP</i> , potential impacts were considered within ng some 100 meters/328 feet on either side line. Both rehabilitation and reconstruction carriageway are category B works, ect under Flood 2022 Emergency Response ent that will support the rehabilitation and the flood-affected road network to improve	
	a cor of the within The p is a recor	ridor ex road on the ex propose sub-col nstructions	is ESN center center cisting d proj mpone on of	AP, potential impacts were considered within ng some 100 meters/328 feet on either side line. Both rehabilitation and reconstruction carriageway are category B works, ect under Flood 2022 Emergency Response ent that will support the rehabilitation and the flood-affected road network to improve public facilities and facilitate the socio-	
	a cor of the within The p is a recor acces	ridor ex e road o n the ex propose sub-col nstructions ssibility	is ESN atendir center disting diproj mpone on of to p	AP, potential impacts were considered within ng some 100 meters/328 feet on either side line. Both rehabilitation and reconstruction carriageway are category B works, ect under Flood 2022 Emergency Response ent that will support the rehabilitation and the flood-affected road network to improve public facilities and facilitate the socio- of the worst-affected areas	
Estimated cost	a cor of the within The p is a recor acces econ	ridor ex e road of n the ex propose sub-con sstruction ssibility omic re	is ESN ctendir center cisting ed proj mpone on of to to vival c	AP, potential impacts were considered within ng some 100 meters/328 feet on either side line. Both rehabilitation and reconstruction carriageway are category B works, ect under Flood 2022 Emergency Response ent that will support the rehabilitation and the flood-affected road network to improve public facilities and facilitate the socio- of the worst-affected areas.	
Estimated cost	a cor of the within The p is a recor acces econ -	ridor exercises road on the expropose sub-construction ssibility omic re	is ESN ctendir center cisting ed proj mpone on of to p vival c	AP, potential impacts were considered within ng some 100 meters/328 feet on either side line. Both rehabilitation and reconstruction carriageway are category B works, ect under Flood 2022 Emergency Response ent that will support the rehabilitation and the flood-affected road network to improve public facilities and facilitate the socio- of the worst-affected areas.	
Estimated cost Proposed date of commencement of	a cor of the within The p is a recor acces econ - Will c	ridor ex e road of n the ex propose sub-col nstruction ssibility omic re	is ESN (tendir center tisting d proj mpone on of to p vival c e in 12	AP, potential impacts were considered within ng some 100 meters/328 feet on either side line. Both rehabilitation and reconstruction carriageway are category B works, ect under Flood 2022 Emergency Response ent that will support the rehabilitation and the flood-affected road network to improve public facilities and facilitate the socio- of the worst-affected areas.	
Estimated cost Proposed date of commencement of civil work	a cor of the within The p is a recor acces econ - Will c	ridor expropose a road of the expropose sub-con ssibility omic re complet	is ESN (tendir center sisting ed proj mpone on of to p vival c e in 12	AP, potential impacts were considered within ng some 100 meters/328 feet on either side line. Both rehabilitation and reconstruction carriageway are category B works, ect under Flood 2022 Emergency Response ent that will support the rehabilitation and the flood-affected road network to improve public facilities and facilitate the socio- of the worst-affected areas.	
Estimated cost Proposed date of commencement of civil work Screening Question	a cor of the within The p is a recor acces econ - Will c	ridor exercises road on the expropose sub-construction ssibility omic recomplet	is ESN (tendir center sisting ed proj mpone on of to p vival c e in 12	AP, potential impacts were considered within ng some 100 meters/328 feet on either side r line. Both rehabilitation and reconstruction carriageway are category B works, ect under Flood 2022 Emergency Response ent that will support the rehabilitation and the flood-affected road network to improve public facilities and facilitate the socio- of the worst-affected areas. 2 months Remarks	
Estimated cost Proposed date of commencement of civil work Screening Question PH	a cor of the within The p is a recor acces econ - Will c	ridor ex e road o n the ex propose sub-col nstructions ssibility omic re complet	is ESN (tendir center cisting ed proj mpone on of to p vival c e in 12 <b>No</b>	AP, potential impacts were considered within ng some 100 meters/328 feet on either side ine. Both rehabilitation and reconstruction carriageway are category B works, ect under Flood 2022 Emergency Response ent that will support the rehabilitation and the flood-affected road network to improve public facilities and facilitate the socio- of the worst-affected areas. 2 months Remarks MENT	
Estimated cost Proposed date of commencement of civil work Screening Question PH' Will the proposed project interventions the risk of electronic of variation that	a cor of the within The p is a recor acce econ - Will c YSICA pose	ridor ex e road o n the ex propose sub-con ssibility omic re complet	is ESN (tendir center sisting ed proj mpone on of to p vival c e in 12 <b>No</b>	AP, potential impacts were considered within ng some 100 meters/328 feet on either side line. Both rehabilitation and reconstruction carriageway are category B works, ect under Flood 2022 Emergency Response ent that will support the rehabilitation and the flood-affected road network to improve bublic facilities and facilitate the socio- of the worst-affected areas. 2 months <b>Remarks</b> <b>MENT</b> None of the trees will need to be cut due to the proposed rehabilitation work	
Estimated cost Proposed date of commencement of civil work Screening Question PHY Will the proposed project interventions the risk of clearance of vegetation that	a cor of the within The p is a recor acce econ - Will c YSICA pose may	ridor ex e road o n the ex propose sub-con ssibility omic re complet	is ESN ctendir center cisting ed proj mpone on of to p vival c e in 12 <b>No</b>	AP, potential impacts were considered within ng some 100 meters/328 feet on either side line. Both rehabilitation and reconstruction carriageway are category B works, ect under Flood 2022 Emergency Response ent that will support the rehabilitation and the flood-affected road network to improve bublic facilities and facilitate the socio- of the worst-affected areas. 2 months <b>Remarks</b> <b>MENT</b> None of the trees will need to be cut due to the proposed rehabilitation work.	
Estimated cost Proposed date of commencement of civil work Screening Question PHY Will the proposed project interventions the risk of clearance of vegetation that result in an increase in the level of suspe	a cor of the within The p is a recor acce econ - Will c <b>YSICA</b> pose may nded	ridor exercises road on the expropose sub-construction ssibility omic recomplet	is ESN ctendir center cisting ed proj mpone on of to p vival c e in 12 <b>No</b>	AP, potential impacts were considered within ng some 100 meters/328 feet on either side r line. Both rehabilitation and reconstruction carriageway are category B works, ect under Flood 2022 Emergency Response ent that will support the rehabilitation and the flood-affected road network to improve public facilities and facilitate the socio- of the worst-affected areas. 2 months <b>Remarks</b> <b>MENT</b> None of the trees will need to be cut due to the proposed rehabilitation work.	



Will the proposed project interventions pose a	yes		During the construction stage, different
risk of <b>contaminating water sources</b> due to	,		types of activities, such as earthwork,
construction activities?			Subbase formation. Asphalt wearing,
			concrete work and Restoration of the
			campsite might result in deteriorating the
			surface water quality
Will the proposed project interventions deplete		No	Water consumption will be monitored by
groundwater because of the water used			keeping the records of consumption and
during road construction activities?			capacity building of the construction crew
			during the construction stage and records
			will be maintained to avoid any wastage.
Will the proposed project interventions result in	Yes		During the construction phase of the
an increase in ambient air pollution, including			proposed sub-project; some adverse
chemical and particulate matter due to the			impacts on the ambient air by suspended
construction and operation of related			dust and noise are foreseen.
machinery?			
Will the proposed project interventions result in	Yes		An increase in ambient noise and vibration
an increase in ambient noise levels and			is expected due to the operation of
vibrations due to the operation of construction			construction machinery such as bulldozers,
machinery/vehicles?			excavators, pneumatic machinery, etc.
Will these ambient noise levels be beyond the		No	These are within the limit as per baseline
specifications in the SEQS?			monitoring results.
Will the proposed project interventions lead to		No	Proposed project will reduce the erosion
erosion hazards?			due to flood water by raising the existing
			profile with the formation of the
			embankment is taken to make the design
			flood resilient.
Will the proposed project interventions lead to		No	
increased soil erosion?			
Will the proposed project interventions result in		No	Combustible, noncombustible and
the generation of hazardous and/or non-			hazardous waste will be temporarily stored
hazardous waste?			on-site in the designated locations and
			handed over to approve waste contractors
			for recycling purposes and safe disposal.
Will the proposed project interventions result in		No	The screening will be carried out before
potentially increased health risks for project			hiring the labour.
workers and communities (e.g. COVID-19)?			
Is the proposed project interventions being		No	The proposed rehabilitation works will
implemented in an area with high natural			improve the drainage during monsoon
hazard risk? (e.g. floods, earthquakes,			without any environmental consequences.
landslides)			
ECOLOGI		VIRO	
VVIII the proposed project interventions		No	No protected areas were observed near
potentially cause any adverse impacts on			(1000 meters) of the proposed sub-project
napitats, ecosystems, and/or ecosystem			агеа.
		NI -	Drepseed rehek liteting werder falle in
vviii any renabilitation & improvement works be		INO	Proposed renabilitation works falls in rural
located in areas that would promote the			area,
		N	
vviii any proposed project interventions be		INO	The indirect impacts have been evaluated
located on or near sensitive environmental			at 100 meters/328 feet on either side of the



<b>areas</b> , including national parks and protected areas?			road center line of the proposed rehabilitation works (250 ft on each side from the center line), None of the socially sensitive receptors found in the buffer zone
Are the proposed project interventions activities likely to pose risks to any endangered species?		No	As far as the sub-project area is concerned, none of the endemic or endangered species of both flora and fauna were recorded from the sub-project
			site.
SOCIAL	. ENVIF	RONM	ENT
Will the proposed project interventions involve		No	No land acquisition is involved as the
land acquisition?			proposed subproject interventions are within the existing RoW.
Are there any forced labor or child labor risks		No	Child & forced labour is not allowed on the
associated with contractors or other third			SFERP,
parties involved in implementing this proposed			
project intervention?			
Is labor influx expected during the		No	A large-scale labor influx is not expected
implementation of the proposed project			due to the availability of local labor in the
interventions? Please estimate the strength of			subproject area and the scale of works
the anticipated outside labor force.			anticipated under the subproject.
Will local labor be used for the proposed	Yes		Local operators/drivers will be preferred
project intervention activities? Please estimate			with valid driving licenses having
the strength of the anticipated local labor force.			experience driving venicies like (trucks,
		Na	dumpers, and Dozers, etc.).
displacement as a result of the proposed		INO	None of the infrastructure and commercial
project intervention activities?			is expected due to the rehabilitation of the
			proposed project's sub-component
Are there expected to be any traffic-related	Yes		Traffic Management Plan will be developed
issues as a result of the proposed project	100		and implemented to address the traffic
intervention activities, particularly during the			management issues during the
construction phase?			rehabilitation works in sub-project areas
Are there any recognized Indigenous		No	no Indigenous Peoples were found in the
Peoples present in the proposed project			impact zone.
interventions area, and are they likely to be			
impacted by the project, either positively or			
negatively?			
Are the proposed project interventions likely to		No	no archaeological sites were found in the
have impacts on important			impact zone.
religious/cultural heritage sites?			
Have there been any past security-related		No	no security-related issues were found in
issues at the proposed project intervention site?			the impact zone.
Has stakeholder engagement taken place in	yes		A site visit was carried out to identify all
the proposed project interventions area?			stakeholders that either reside or work in
			the project vicinity and conduct an initial
			identification of potential positive and
			negative impacts.



Were vulnerable and indigenous gro involved in stakeholder consultations? women, minorities, economi disadvantaged individuals, etc.)	oups (e.g. ically	No	no Indigenous Peoples were found in the impact zone.			
R	ISK CLASS	FICAT	ION			
Step	Recomme	ndatio	ns/Findings			
Risk category identification	Low-Medium risk level					
Recommendation on type of E&S instruments required.	ESMP					
Summary of screening findings Thes		These risks are likely to be temporary and reversible and are				
	not expecte	ed to h	ave lasting effects on the proposed project			
	interventior	ntervention areas				
Name of the person endorsing	Environme	ntal Sa	feguard of PIU			
screening findings						

Proposed Project Interventions Details						
Name of proposed project interventions	Reco sawa juma	Reconditioning of road from sajjan khasheli road to village sawan shoro and village haji vikyo shoro i/c links to village juman & sadique shoro				
ID of proposed project interventions	07-2 67°5	07-24°38'41.49"N 67°56'19.97"E 24°38'3.31"N 67°54'42.81"E				
Proposing agency	PIU-	PIU-SFERP				
Proposed project interventions location	Distr	ict &Ta	luka T	hatta		
Proposed project interventions objective	The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio- economic revival of the worst-affected areas.					
Estimated cost	-					
Proposed date of commencement of civil work	Will	complet	te in 1	2 months		
Screening Question		Yes	No	Remarks		
PH	YSICA	L ENV	IRON	MENT		
Will the proposed project interventions the risk of <b>clearance of vegetation</b> that result in an increase in the level of suspe solids washing into nearby water bodies?	rventions pose ation that may I of suspended er bodies?		No	None of the trees will need to be cut due to the proposed rehabilitation work.		
Will the proposed project interventions pose a		yes		During the construction stage, different		
risk of <b>contaminating water sources</b> d construction activities?	ue to			types of activities, such as earthwork, Subbase formation, Asphalt wearing, concrete work and Restoration of the campsite might result in deteriorating the surface water quality		



Will the proposed project interventions deplete	Ī	No	Water consumption will be monitored by
groundwater because of the water used			keeping the records of consumption and
during road construction activities?			capacity building of the construction crew
			during the construction stage and records
			will be maintained to avoid any wastage.
Will the proposed project interventions result in	Yes		During the construction phase of the
an increase in <b>ambient air pollution</b> , including			proposed sub-project; some adverse
chemical and particulate matter due to the			impacts on the ambient air by suspended
construction and operation of related			dust and noise are foreseen.
machinery?			
Will the proposed project interventions result in	Yes		An increase in ambient noise and vibration
an increase in <b>ampient noise levels</b> and			is expected due to the operation of
machinery/vehicles?			construction machinery such as buildozers,
Will those ambient point lovels be beyond the		No	These are within the limit of par baseline
specifications in the SEOS2		INO	monitoring results
Will the proposed project interventions lead to		No	Proposed project will reduce the crossion
erosion hazards?		NU	due to flood water by raising the existing
			profile with the formation of the
			embankment is taken to make the design
			flood resilient.
Will the proposed project interventions lead to		No	
increased soil erosion?			
Will the proposed project interventions result in		No	Combustible, noncombustible and
the generation of hazardous and/or non-			hazardous waste will be temporarily stored
hazardous waste?			on-site in the designated locations and
			8
			handed over to approve waste contractors
			handed over to approve waste contractors for recycling purposes and safe disposal.
Will the proposed project interventions result in		No	handed over to approve waste contractors for recycling purposes and safe disposal. The screening will be carried out before
Will the proposed project interventions result in potentially increased health risks for <b>project</b>		No	handed over to approve waste contractors for recycling purposes and safe disposal. The screening will be carried out before hiring the labour.
Will the proposed project interventions result in potentially increased health risks for <b>project workers and communities</b> (e.g. COVID-19)?		No	handed over to approve waste contractors for recycling purposes and safe disposal. The screening will be carried out before hiring the labour.
Will the proposed project interventions result in potentially increased health risks for <b>project workers and communities</b> (e.g. COVID-19)? Is the proposed project interventions being implemented in an area with high natural		No	handed over to approve waste contractors for recycling purposes and safe disposal. The screening will be carried out before hiring the labour. The proposed rehabilitation works will
Will the proposed project interventions result in potentially increased health risks for <b>project workers and communities</b> (e.g. COVID-19)? Is the proposed project interventions being implemented in an area with <b>high natural bazard</b> risk? (e.g. floods earthquakes		No No	handed over to approve waste contractors for recycling purposes and safe disposal. The screening will be carried out before hiring the labour. The proposed rehabilitation works will improve the drainage during monsoon without any environmental consequences
Will the proposed project interventions result in potentially increased health risks for <b>project</b> <b>workers and communities</b> (e.g. COVID-19)? Is the proposed project interventions being implemented in an area with <b>high natural</b> <b>hazard risk</b> ? (e.g. floods, earthquakes, landslides)		No No	handed over to approve waste contractors for recycling purposes and safe disposal. The screening will be carried out before hiring the labour. The proposed rehabilitation works will improve the drainage during monsoon without any environmental consequences.
Will the proposed project interventions result in potentially increased health risks for <b>project</b> <b>workers and communities</b> (e.g. COVID-19)? Is the proposed project interventions being implemented in an area with <b>high natural</b> <b>hazard risk</b> ? (e.g. floods, earthquakes, landslides)	AL FN	No No	handed over to approve waste contractors for recycling purposes and safe disposal. The screening will be carried out before hiring the labour. The proposed rehabilitation works will improve the drainage during monsoon without any environmental consequences.
Will the proposed project interventions result in potentially increased health risks for <b>project</b> <b>workers and communities</b> (e.g. COVID-19)? Is the proposed project interventions being implemented in an area with <b>high natural</b> <b>hazard risk</b> ? (e.g. floods, earthquakes, landslides) <b>ECOLOGIC</b> Will the proposed project interventions	CAL EN	No No VIRO	handed over to approve waste contractors for recycling purposes and safe disposal. The screening will be carried out before hiring the labour. The proposed rehabilitation works will improve the drainage during monsoon without any environmental consequences.
Will the proposed project interventions result in potentially increased health risks for <b>project</b> <b>workers and communities</b> (e.g. COVID-19)? Is the proposed project interventions being implemented in an area with <b>high natural</b> <b>hazard risk</b> ? (e.g. floods, earthquakes, landslides) <b>ECOLOGIC</b> Will the proposed project interventions potentially cause any adverse impacts on	CAL EN	No No IVIRO No	handed over to approve waste contractors for recycling purposes and safe disposal. The screening will be carried out before hiring the labour. The proposed rehabilitation works will improve the drainage during monsoon without any environmental consequences. <b>MMENT</b> No protected areas were observed near (1000 meters) of the proposed sub-project
Will the proposed project interventions result in potentially increased health risks for <b>project</b> <b>workers and communities</b> (e.g. COVID-19)? Is the proposed project interventions being implemented in an area with <b>high natural</b> <b>hazard risk</b> ? (e.g. floods, earthquakes, landslides) <b>ECOLOGIC</b> Will the proposed project interventions potentially cause any adverse impacts on <b>habitats, ecosystems</b> , and/or ecosystem	AL EN	No No IVIRO No	handed over to approve waste contractors for recycling purposes and safe disposal. The screening will be carried out before hiring the labour. The proposed rehabilitation works will improve the drainage during monsoon without any environmental consequences. <b>NMENT</b> No protected areas were observed near (1000 meters) of the proposed sub-project area.
Will the proposed project interventions result in potentially increased health risks for <b>project</b> <b>workers and communities</b> (e.g. COVID-19)? Is the proposed project interventions being implemented in an area with <b>high natural</b> <b>hazard risk</b> ? (e.g. floods, earthquakes, landslides) <b>ECOLOGIC</b> Will the proposed project interventions potentially cause any adverse impacts on <b>habitats, ecosystems</b> , and/or ecosystem services?	CAL EN	No No IVIRO No	handed over to approve waste contractors for recycling purposes and safe disposal. The screening will be carried out before hiring the labour. The proposed rehabilitation works will improve the drainage during monsoon without any environmental consequences. <b>NMENT</b> No protected areas were observed near (1000 meters) of the proposed sub-project area.
Will the proposed project interventions result in potentially increased health risks for <b>project</b> <b>workers and communities</b> (e.g. COVID-19)? Is the proposed project interventions being implemented in an area with <b>high natural</b> <b>hazard risk</b> ? (e.g. floods, earthquakes, landslides) <b>ECOLOGIC</b> Will the proposed project interventions potentially cause any adverse impacts on <b>habitats, ecosystems</b> , and/or ecosystem services? Will any rehabilitation & improvement works be	AL EN	No No No No	handed over to approve waste contractors for recycling purposes and safe disposal. The screening will be carried out before hiring the labour. The proposed rehabilitation works will improve the drainage during monsoon without any environmental consequences. <b>NMENT</b> No protected areas were observed near (1000 meters) of the proposed sub-project area. Proposed rehabilitation works falls in rural
Will the proposed project interventions result in potentially increased health risks for <b>project</b> <b>workers and communities</b> (e.g. COVID-19)? Is the proposed project interventions being implemented in an area with <b>high natural</b> <b>hazard risk</b> ? (e.g. floods, earthquakes, landslides) <b>ECOLOGIC</b> Will the proposed project interventions potentially cause any adverse impacts on <b>habitats, ecosystems</b> , and/or ecosystem services? Will any rehabilitation & improvement works be located in areas that would promote the	AL EN	No No IVIRO No	handed over to approve waste contractors for recycling purposes and safe disposal. The screening will be carried out before hiring the labour. The proposed rehabilitation works will improve the drainage during monsoon without any environmental consequences. <b>NMENT</b> No protected areas were observed near (1000 meters) of the proposed sub-project area. Proposed rehabilitation works falls in rural area,
Will the proposed project interventions result in potentially increased health risks for <b>project</b> <b>workers and communities</b> (e.g. COVID-19)? Is the proposed project interventions being implemented in an area with <b>high natural</b> <b>hazard risk</b> ? (e.g. floods, earthquakes, landslides) <b>ECOLOGIC</b> Will the proposed project interventions potentially cause any adverse impacts on <b>habitats, ecosystems</b> , and/or ecosystem services? Will any rehabilitation & improvement works be located in areas that would promote the <b>conversion of natural habitats</b> ?	CAL EN	No No No No	handed over to approve waste contractors for recycling purposes and safe disposal. The screening will be carried out before hiring the labour. The proposed rehabilitation works will improve the drainage during monsoon without any environmental consequences. <b>NMENT</b> No protected areas were observed near (1000 meters) of the proposed sub-project area. Proposed rehabilitation works falls in rural area,
Will the proposed project interventions result in potentially increased health risks for <b>project</b> <b>workers and communities</b> (e.g. COVID-19)? Is the proposed project interventions being implemented in an area with <b>high natural</b> <b>hazard risk</b> ? (e.g. floods, earthquakes, landslides) <b>ECOLOGIC</b> Will the proposed project interventions potentially cause any adverse impacts on <b>habitats, ecosystems</b> , and/or ecosystem services? Will any rehabilitation & improvement works be located in areas that would promote the <b>conversion of natural habitats</b> ? Will any proposed project interventions be	AL EN	No No No No	handed over to approve waste contractors for recycling purposes and safe disposal. The screening will be carried out before hiring the labour. The proposed rehabilitation works will improve the drainage during monsoon without any environmental consequences. <b>NMENT</b> No protected areas were observed near (1000 meters) of the proposed sub-project area. Proposed rehabilitation works falls in rural area, The indirect impacts have been evaluated
Will the proposed project interventions result in potentially increased health risks for <b>project</b> <b>workers and communities</b> (e.g. COVID-19)? Is the proposed project interventions being implemented in an area with <b>high natural</b> <b>hazard risk</b> ? (e.g. floods, earthquakes, landslides) <b>ECOLOGIO</b> Will the proposed project interventions potentially cause any adverse impacts on <b>habitats, ecosystems</b> , and/or ecosystem services? Will any rehabilitation & improvement works be located in areas that would promote the <b>conversion of natural habitats</b> ? Will any proposed project interventions be located <b>on or near sensitive environmental</b>	CAL EN	No No No No	handed over to approve waste contractors for recycling purposes and safe disposal. The screening will be carried out before hiring the labour. The proposed rehabilitation works will improve the drainage during monsoon without any environmental consequences. <b>NMENT</b> No protected areas were observed near (1000 meters) of the proposed sub-project area. Proposed rehabilitation works falls in rural area, The indirect impacts have been evaluated at 100 meters/328 feet on either side of the
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Will the proposed project interventions result in potentially increased health risks for <b>project</b> <b>workers and communities</b> (e.g. COVID-19)? Is the proposed project interventions being implemented in an area with <b>high natural</b> <b>hazard risk</b> ? (e.g. floods, earthquakes, landslides) <b>ECOLOGIC</b> Will the proposed project interventions potentially cause any adverse impacts on <b>habitats, ecosystems</b> , and/or ecosystem services? Will any rehabilitation & improvement works be located in areas that would promote the <b>conversion of natural habitats</b> ? Will any proposed project interventions be located <b>on or near sensitive environmental</b> <b>areas</b> , including national parks and protected areas?	CAL EN	No No No No	handed over to approve waste contractors for recycling purposes and safe disposal. The screening will be carried out before hiring the labour. The proposed rehabilitation works will improve the drainage during monsoon without any environmental consequences. <b>NMENT</b> No protected areas were observed near (1000 meters) of the proposed sub-project area. Proposed rehabilitation works falls in rural area, The indirect impacts have been evaluated at 100 meters/328 feet on either side of the road center line of the proposed rehabilitation works (250 ft on each side from the center line), None of the socially
Will the proposed project interventions result in potentially increased health risks for <b>project</b> <b>workers and communities</b> (e.g. COVID-19)? Is the proposed project interventions being implemented in an area with <b>high natural</b> <b>hazard risk</b> ? (e.g. floods, earthquakes, landslides) <b>ECOLOGIO</b> Will the proposed project interventions potentially cause any adverse impacts on <b>habitats, ecosystems</b> , and/or ecosystem services? Will any rehabilitation & improvement works be located in areas that would promote the <b>conversion of natural habitats</b> ? Will any proposed project interventions be located <b>on or near sensitive environmental</b> <b>areas</b> , including national parks and protected areas?	AL EN	No No No No	handed over to approve waste contractors for recycling purposes and safe disposal. The screening will be carried out before hiring the labour. The proposed rehabilitation works will improve the drainage during monsoon without any environmental consequences. <b>NMENT</b> No protected areas were observed near (1000 meters) of the proposed sub-project area. Proposed rehabilitation works falls in rural area, The indirect impacts have been evaluated at 100 meters/328 feet on either side of the road center line of the proposed rehabilitation works (250 ft on each side from the center line), None of the socially sensitive receptors found in the buffer zone



Are the proposed project interventions	[	No	As far as the sub-project area is
activities likely to pose risks to any			concerned, none of the endemic or
endangered species?			endangered species of both flora and
			fauna were recorded from the sub-project
			site.
SOCIAL	ENVI	RONM	ENT
Will the proposed project interventions involve	Ī	No	No land acquisition is involved as the
land acquisition?			proposed subproject interventions are
			within the existing RoW.
Are there any forced labor or child labor risks		No	Child & forced labour is not allowed on the
associated with contractors or other third			SFERP,
parties involved in implementing this proposed			
project intervention?			
Is labor influx expected during the		No	A large-scale labor influx is not expected
implementation of the proposed project			due to the availability of local labor in the
interventions? Please estimate the strength of			subproject area and the scale of works
the anticipated outside labor force.			anticipated under the subproject.
Will local labor be used for the proposed	Yes		Local operators/drivers will be preferred
project intervention activities? Please estimate			with valid driving licenses having
the strength of the anticipated local labor force.			experience driving vehicles like (trucks,
			dumpers, and Dozers, etc.).
Will there be any temporary or permanent		No	None of the infrastructure and commercial
displacement as a result of the proposed			activities exist within RoW. No resettlement
project intervention activities?			is expected due to the rehabilitation of the
			proposed project's sub-component.
Are there expected to be any traffic-related	Yes		Traffic Management Plan will be developed
issues as a result of the proposed project			and implemented to address the traffic
intervention activities, particularly during the			management issues during the
construction phase?			rehabilitation works in sub-project areas
Are there any recognized <b>Indigenous</b>		NO	no Indigenous Peoples were found in the
<b>Peoples</b> present in the proposed project			Impact zone.
imported by the project aither positively or			
negatively?			
Are the proposed project interventions likely to		No	no archaeological cites were found in the
have impacts on important		NU	impact zone
religious/cultural beritage sites?			
Have there been any past security-related		No	no security-related issues were found in
issues at the proposed project intervention			the impact zone
site?			
Has stakeholder engagement taken place in	ves		A site visit was carried out to identify all
the proposed project interventions area?	,		stakeholders that either reside or work in
			the project vicinity and conduct an initial
			identification of potential positive and
			negative impacts.
Were vulnerable and indigenous groups		No	no Indigenous Peoples were found in the
involved in stakeholder consultations? (e.g.			impact zone.
women, minorities, economically			
disadvantaged individuals, etc.)			
RISK C	LASSI	FICAT	ION
Step Rec	ommen	ndatio	ns/Findings



Risk category identification	Low-Medium risk level
Recommendation on type of E&S	ESMP
instruments requirea.	
Summary of screening findings	These risks are likely to be temporary and reversible and are not expected to have lasting effects on the proposed project intervention areas
Name of the person endorsing screening findings	Environmental Safeguard of PIU

Proposed Project Interventions Details				
Name of proposed project interventions	Reco ali ha	Reconditioning of road from at 5.0 km to connect villlage ali hassan baghiar via drgah misri shah		
ID of proposed project interventions	08- 2 67°5	08- 24°46'9.32"N 67°52'52.43"E 24°45'53.95"N 67°50'34.36"E		
Proposing agency	PIU-	SFERF	)	
Proposed project interventions location	Distr	ict That	tta Tal	uka Mirpur Sakro
Proposed project interventions objective	The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic revival of the worst-affected areas			
Estimated cost	-	-		
Proposed date of commencement of civil work	Will o	comple	te in 1	2 months
Screening Question		Yes	No	Remarks
PHY	SICAL	. ENVI	RONM	ENT
Will the proposed project interventions 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	None of the trees will need to be cut due to the proposed rehabilitation work.
Will the proposed project interventions pose a risk of <b>contaminating water sources</b> due to construction activities?		yes	No	During the construction stage, different types of activities, such as earthwork, Subbase formation, Asphalt wearing, concrete work and Restoration of the campsite might result in deteriorating the surface water quality Water consumption will be monitored by
groundwater because of the water during road construction activities?	used			keeping the records of consumption and capacity building of the construction crew during the construction stage and



	[		records will be maintained to avoid any
			wastage.
Will the proposed project interventions result in	Yes		During the construction phase of the
an increase in <b>ambient air pollution</b> , including			proposed sub-project; some adverse
chemical and particulate matter due to the			impacts on the ambient air by
construction and operation of related			suspended dust and noise are foreseen.
machinery?			
Will the proposed project interventions result in	Yes		An increase in ambient noise and
an increase in <b>ambient noise levels</b> and			vibration is expected due to the
vibrations due to the operation of construction			operation of construction machinery
machinery/vehicles?			such as bulldozers, excavators,
			pneumatic machinery, etc.
Will these ambient noise levels be beyond the		Νo	These are within the limit as per
specifications in the <b>SEQS</b> ?			baseline monitoring results
Will the proposed project interventions lead to		No	Proposed project will reduce the erosion
orosion bazarda?		INU	due to fleed water by reising the evisting
			profile with the formation of the
			ombankmant is taken to make the
			design flood resilient
		No	
increased soil erosion?		INU	
Will the proposed project interventions result in		No	Computible paramhustible and
the generation of bezerdeus and/or non		INU	bezordeus weste will be temperarily
hazardous wasto?			stored on site in the designated
			locations and handed over to approve
			wasta contractors for recycling
			purposes and safe disposal
Will the proposed project interventions result in		No	The screening will be carried out before
potentially increased health risks for <b>project</b>		NU	hiring the labour
workers and communities (e.g. COVID-19)?			
Is the proposed project interventions being		Νo	The proposed rebabilitation works will
implemented in an area with high natural			improve the drainage during monsoon
hazard risk? (e.g. floods earthquakes			without any environmental
landslides)			consequences.
ECOLOGIC		IRON	MENT
Will the proposed project interventions		No	No protected areas were observed near
potentially cause any adverse impacts on		-	(1000 meters) of the proposed sub-
habitats, ecosystems, and/or ecosystem			project area.
services?			, ,
Will any rehabilitation & improvement works be		No	Proposed rehabilitation works falls in
located in areas that would promote the			rural area.
conversion of natural habitats?			······
Will any proposed project interventions be		No	The indirect impacts have been
located on or near sensitive environmental			evaluated at 100 meters/328 feet on
areas, including national parks and protected			either side of the road center line of the
areas?			proposed rebabilitation works (250 ft on
			proposed renabilitation works (250 It 01)
			the encially encitive recentors found in
			the socially sensitive receptors found in the buffer zone
			the socially sensitive receptors found in the buffer zone



Are the proposed project interventions	Ī	No	As far as the sub-project area is
activities likely to pose risks to any			concerned, none of the endemic or
endangered species?			endangered species of both flora and
			fauna were recorded from the sub-
			project site.
SOCIAL	ENVIRG	ONME	NT
Will the proposed project interventions involve	I	No	No land acquisition is involved as the
land acquisition?			proposed subproject interventions are
			within the existing RoW.
Are there any forced labor or child labor risks	1	No	Child & forced labour is not allowed on
associated with contractors or other third			the SFERP,
parties involved in implementing this proposed			
project intervention?			
Is labor influx expected during the		No	A large-scale labor influx is not
implementation of the proposed project			expected due to the availability of local
interventions? Please estimate the strength of			labor in the subproject area and the
the anticipated outside labor force.			scale of works anticipated under the
			subproject.
Will local labor be used for the proposed	Yes		Local operators/drivers will be preferred
project intervention activities? Please estimate			with valid driving licenses having
the strength of the anticipated local labor force.			experience driving vehicles like (trucks,
			dumpers, and Dozers, etc.).
Will there be any temporary or permanent		No	None of the infrastructure and
displacement as a result of the proposed			commercial activities exist within RoW.
project intervention activities?			No resettlement is expected due to the
			rehabilitation of the proposed project's
			sub-component.
Are there expected to be any traffic-related	Yes		Traffic Management Plan will be
issues as a result of the proposed project			developed and implemented to address
intervention activities, particularly during the			the traffic management issues during
construction phase?			the renabilitation works in sub-project
		N .	areas
Are there any recognized indigenous		INO	no indigenous Peoples were found in
<b>Peoples</b> present in the proposed project			the impact zone.
imposted by the project either positively or			
negatively?			
Are the proposed project interventions likely to		No	no archaeological sites were found in
have impacts on important		INU	the impact zone
religious/cultural beritage sites?			
Have there been any past security-related		No	no security-related issues were found in
issues at the proposed project intervention			the impact zone
site?			
Has stakeholder engagement taken place in	ves		A site visit was carried out to identify all
the proposed project interventions area?	,		stakeholders that either reside or work
			in the project vicinity and conduct an
			initial identification of potential positive
			and negative impacts.
Were vulnerable and indigenous groups	<b>-</b>	No	no Indigenous Peoples were found in
involved in stakeholder consultations? (e.g.			the impact zone.



women, minorities, econom	ically
disadvantaged individuals, etc.)	
RI	SK CLASSIFICATION
Step	Recommendations/Findings
Risk category identification	Low-Medium risk level
Recommendation on type of E&S	ESMP
instruments required.	
Summary of screening findings	These risks are likely to be temporary and reversible and
	are not expected to have lasting effects on the proposed
	project intervention areas
Name of the person endorsing	Environmental Safeguard of PIU
screening findings	

Proposed Project Interventions Details						
Name of proposed project interventions	Reco siddi	Reconditioning of link from thatta jhimpir road to village siddiq mundo along jam wah				
ID of proposed project interventions	09- 2 67°4	09- 24°12'6.33"N 67°42'26.58"E 24°13'23.13"N 67°40'4.59"E				
Proposing agency	PIU-	PIU-SFERP				
Proposed project interventions location	Distr	District & Taluka Thatta				
Proposed project interventions objective	The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic revival of the worst-affected					
Estimated cost	-					
Proposed date of commencement of civil work	Will complete in 12 months					
Screening Question		Yes	No	Remarks		
РНҮ	<b>SICA</b>		ONM	ENT		
Will the proposed project interventions 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	None of the trees will need to be cut due to the proposed rehabilitation work.		
Will the proposed project interventions por risk of <b>contaminating water sources</b> d construction activities?	ose a ue to	yes		During the construction stage, different types of activities, such as earthwork, Subbase formation, Asphalt wearing, concrete work and Restoration of the campsite might result in deteriorating the surface water quality		



Will the proposed project interventions deplete		No	Water consumption will be monitored by
groundwater because of the water used			keeping the records of consumption and
during road construction activities?			capacity building of the construction
			crew during the construction stage and
			records will be maintained to avoid any
			wastage.
Will the proposed project interventions result in	Yes		During the construction phase of the
an increase in ambient air pollution, including			proposed sub-project; some adverse
chemical and particulate matter due to the			impacts on the ambient air by
construction and operation of related			suspended dust and noise are foreseen.
machinery?			
Will the proposed project interventions result in	Yes		An increase in ambient noise and
an increase in ambient noise levels and			vibration is expected due to the
vibrations due to the operation of construction			operation of construction machinery
machinery/vehicles?			such as bulldozers, excavators,
			pneumatic machinery, etc.
Will these ambient noise levels be beyond the		No	These are within the limit as per
specifications in the <b>SEQS</b> ?			baseline monitoring results.
Will the proposed project interventions lead to		No	Proposed project will reduce the erosion
erosion hazards?			due to flood water by raising the existing
			profile with the formation of the
			embankment is taken to make the
			design flood resilient.
Will the proposed project interventions lead to		No	
increased soil erosion?			
Will the proposed project interventions result in		No	Combustible, noncombustible and
the generation of hazardous and/or non-			hazardous waste will be temporarily
hazardous waste?			stored on-site in the designated
			locations and handed over to approve
			waste contractors for recycling
			purposes and safe disposal.
Will the proposed project interventions result in		NO	I he screening will be carried out before
potentially increased health risks for <b>project</b>			niring the labour.
the proposed project interventions being		No	The proposed rehabilitation works will
is the proposed project interventions being		INO	The proposed renabilitation works will
Implemented in an area with nigh natural			improve the drainage during monsoon
nazaro risk? (e.g. 11000s, earthquakes,			without any environmental
		DON	
ECOLOGICA			VIEINI
vviii the proposed project interventions		INO	(1000 motors) of the proposed sub
habitate ecosystems and/or ecosystem			project area
naurais, ecosystems, and/or ecosystem services?			ריטובט מופמ.
Will any rehabilitation & improvement works he		No	Pronosed rehabilitation works falls in
located in areas that would promote the		UNI	rural area
conversion of natural habitats?			rarar aroa,
Will any proposed project interventions be		Νo	The indirect imposts have have
located on or near sensitive environmental		110	ine indirect impacts have been
areas, including national parks and protected			evaluated at 100 meters/328 feet on
areas?			entrer side of the road center line of the
			proposed renabilitation works (250 If on
			each side from the center line), None of



			the socially sensitive receptors found in
			the buffer zone
Are the proposed project interventions		No	As far as the sub-project area is
activities likely to pose risks to any			concerned, none of the endemic or
endangered species?			endangered species of both flora and
			fauna were recorded from the sub-
			project site.
SOCIAL	ENVIRC	NME	NT
Will the proposed project interventions involve		No	No land acquisition is involved as the
land acquisition?			proposed subproject interventions are
•			within the existing RoW.
Are there any <b>forced labor or child labor</b> risks		No	Child & forced labour is not allowed on
associated with contractors or other third			the SFERP.
parties involved in implementing this proposed			
project intervention?			
Is labor influx expected during the		No	A large-scale labor influx is not
implementation of the proposed project			expected due to the availability of local
interventions? Please estimate the strength of			labor in the subproject area and the
the anticipated outside labor force.			scale of works anticipated under the
			subproject.
Will local labor be used for the proposed	Yes		Local operators/drivers will be preferred
project intervention activities? Please estimate			with valid driving licenses having
the strength of the anticipated local labor force.			experience driving vehicles like (trucks.
5			dumpers, and Dozers, etc.).
Will there be any <b>temporary or permanent</b>		No	None of the infrastructure and
displacement as a result of the proposed			commercial activities exist within RoW.
project intervention activities?			No resettlement is expected due to the
, ,,			rehabilitation of the proposed project's
			sub-component.
Are there expected to be any traffic-related	Yes		Traffic Management Plan will be
issues as a result of the proposed project			developed and implemented to address
intervention activities, particularly during the			the traffic management issues during
construction phase?			the rehabilitation works in sub-project
			areas
Are there any recognized Indigenous		No	no Indigenous Peoples were found in
Peoples present in the proposed project			the impact zone.
interventions area, and are they likely to be			· ·
impacted by the project, either positively or			
negatively?			
Are the proposed project interventions likely to		No	no archaeological sites were found in
have impacts on important			the impact zone.
religious/cultural heritage sites?			
Have there been any past security-related		No	no security-related issues were found in
issues at the proposed project intervention			the impact zone.
site?			
Has stakeholder engagement taken place in	yes		A site visit was carried out to identify all
the proposed project interventions area?			stakeholders that either reside or work
			in the project vicinity and conduct an
			initial identification of potential positive
			and negative impacts.



Were vulnerable and indigenous gro involved in stakeholder consultations? women, minorities, econom disadvantaged individuals, etc.)	oups (e.g. ically	No	no Indigenous Peoples were found in the impact zone.		
RI	SK CLASSIFI	CATIC	)N		
Step	Recommend	lation	s/Findings		
Risk category identification	Low-Medium	risk le	evel		
Recommendation on type of E&S instruments required.	ESMP				
Summary of screening findings	These risks a	are likely to be temporary and reversible and are			
	not expected	pected to have lasting effects on the proposed projec			
	intervention areas				
Name of the person endorsing	Environmental Safeguard of PIU				
screening findings					

Proposed Project Interventions Details						
Name of proposed project interventions	Reco stop tukro	Reconditioning of road from gharo keti bunder meeran stop at point 7.0 kms of saddar bridge dhandhari road tukro stop to khalifa				
ID of proposed project interventions	10- 67°5	10- 24°33'11.03"N 67°50'32.58"E 24°33'54.24"N 67°51'44.94"E				
Proposing agency	PIU-	SFER	Р			
Proposed project interventions location	Distr	ict Tha	atta Ta	aluka Keti Bander		
Proposed project interventions objective	The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic revival of the worst-affected					
Estimated cost	-					
Proposed date of commencement of civil work	Will d	comple	ete in	12 months		
Screening Question		Yes	No	Remarks		
PHY	SICAL	<b>ENVI</b>	RONI	MENT		
Will the proposed project interventions the risk of <b>clearance of vegetation</b> that result in an increase in the level of suspe solids washing into nearby water bodies? Will the proposed project interventions por risk of <b>contaminating water sources</b> de construction activities?	pose may nded ose a ue to	yes	No	None of the trees will need to be cut due to the proposed rehabilitation work. During the construction stage, different types of activities, such as earthwork, Subbase formation, Asphalt wearing, concrete work and Restoration of the		



			campsite might result in deteriorating the
			surface water quality
Will the proposed project interventions deplete		No	Water consumption will be monitored by
groundwater because of the water used			keeping the records of consumption and
during road construction activities?			capacity building of the construction crew
			during the construction stage and
			records will be maintained to avoid any
			wastage.
Will the proposed project interventions result in	Ye		During the construction phase of the
an increase in <b>ambient air pollution</b> , including	s		proposed sub-project; some adverse
chemical and particulate matter due to the			impacts on the ambient air by suspended
construction and operation of related			dust and noise are foreseen.
machinery?			
Will the proposed project interventions result in	Ye		An increase in ambient noise and
an increase in ambient noise levels and	s		vibration is expected due to the operation
vibrations due to the operation of construction			of construction machinery such as
machinery/vehicles?			bulldozers, excavators, pneumatic
			machinery, etc.
Will these ambient noise levels be beyond the		No	These are within the limit as per baseline
specifications in the SEQS?			monitoring results.
Will the proposed project interventions lead to		No	Proposed project will reduce the erosion
erosion hazards?			due to flood water by raising the existing
			profile with the formation of the
			embankment is taken to make the design
			flood resilient.
Will the proposed project interventions lead to		No	
increased soil erosion?			
Will the proposed project interventions result in		No	Combustible, noncombustible and
the generation of hazardous and/or non-			hazardous waste will be temporarily
hazardous waste?			stored on-site in the designated locations
			and handed over to approve waste
			contractors for recycling purposes and
			safe disposal.
Will the proposed project interventions result in		No	The screening will be carried out before
potentially increased health risks for project			hiring the labour.
workers and communities (e.g. COVID-19)?			
Is the proposed project interventions being		No	The proposed rehabilitation works will
implemented in an area with high natural			improve the drainage during monsoon
hazard risk? (e.g. floods, earthquakes,			without any environmental
	<u> </u>		consequences.
ECOLOGICA	AL EN	VIRO	
Will the proposed project interventions		No	No protected areas were observed near
potentially cause any adverse impacts on			(1000 meters) of the proposed sub-
habitats, ecosystems, and/or ecosystem			project area.
Services?	ļ		
Will any rehabilitation & improvement works be		No	Proposed rehabilitation works falls in
located in areas that would promote the			rural area,
conversion of natural habitats?			
vviii any proposed project interventions be		NO	I ne indirect impacts have been
located on or near sensitive environmental			evaluated at 100 meters/328 feet on
[	İ	L	either side of the road center line of the



areas, including national parks and protected			proposed rehabilitation works (250 ft on
areas?			each side from the center line), Only one
			School at approximately 310 ft way from
		NIa	the center line.
Are the proposed project interventions		NO	As far as the sub-project area is
activities likely to pose risks to any			concerned, none of the endemic of
endangered species?			found were recorded from the sub
			project site
SOCIAL	ENVIR		
Will the proposed project interventions involve		No	No land acquisition is involved as the
land acquisition?			proposed subproject interventions are
			within the existing RoW.
Are there any forced labor or child labor risks		No	Child & forced labour is not allowed on
associated with contractors or other third			the SFERP,
parties involved in implementing this proposed			
project intervention?			
Is labor influx expected during the		No	A large-scale labor influx is not expected
implementation of the proposed project			due to the availability of local labor in the
interventions? Please estimate the strength of			subproject area and the scale of works
the anticipated outside labor force.			anticipated under the subproject.
Will local labor be used for the proposed	Ye		Local operators/drivers will be preferred
project intervention activities? Please estimate	S		with valid driving licenses having
the strength of the anticipated local labor force.			experience driving vehicles like (trucks,
		ļ	dumpers, and Dozers, etc.).
vill there be any temporary or permanent		NO	None of the infrastructure and
project intervention activities?			No report longer to expected due to the
project intervention activities?			robabilitation of the proposed project's
			sub-component
Are there expected to be any traffic-related	Ye		Traffic Management Plan will be
issues as a result of the proposed project	s		developed and implemented to address
intervention activities, particularly during the	Ŭ		the traffic management issues during the
construction phase?			rehabilitation works in sub-project areas
Are there any recognized Indigenous		No	no Indigenous Peoples were found in the
Peoples present in the proposed project			impact zone.
interventions area, and are they likely to be			
impacted by the project, either positively or			
negatively?			
Are the proposed project interventions likely to		No	no archaeological sites were found in the
have impacts on important			impact zone.
religious/cultural heritage sites?			
Have there been any past security-related		NO	no security-related issues were found in
site?			the impact zone.
Has stakeholder engagement taken place in	VOS		A site visit was carried out to identify all
the proposed project interventions area?	усэ		stakeholders that either reside or work in
			the project vicinity and conduct an initial
			identification of potential positive and
			negative impacts.
ι	i	i	



Were vulnerable and indigenous gro involved in stakeholder consultations? women, minorities, economi disadvantaged individuals, etc.)	oups (e.g. ically	No	no Indigenous Peoples were found in the impact zone.	
RIS	SK CLASSIF	FICAT	ION	
Step	Recomme	ndatio	ons/Findings	
Risk category identification	Low-Mediu	ım risk	(level	
Recommendation on type of E&S instruments required.	ESMP			
Summary of screening findings	These risks are likely to be temporary and reversible and are not expected to have lasting effects on the propose project intervention areas			
Name of the person endorsing screening findings	Environme	ntal S	afeguard of PIU	

Proposed F	Projec	t Inter	venti	ons Details		
Name of proposed project interventions	Reco suler	Reconditioning of link from var city to muhammad suleman zangiani				
ID of proposed project interventions	11-2 67°3	4° 9'56 2'43.2	6.69"N 9"E	I 67°32'43.98"E 24° 9'15.96"N		
Proposing agency	PIU-	SFER	Р			
Proposed project interventions location	Distr	ict Tha	atta Ta	aluka Ghorabari		
Proposed project interventions objective	The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic revival of the worst-affected					
Estimated cost	-					
Proposed date of commencement of civil work	Will o	comple	ete in	12 months		
Screening Question		Ye s	No	Remarks		
PHYS	SICAL	ENVI	RONN	IENT		
Will the proposed project interventions the risk of <b>clearance of vegetation</b> that result in an increase in the level of suspe solids washing into nearby water bodies?	pose may nded		No	None of the trees will need to be cut due to the proposed rehabilitation work.		
Will the proposed project interventions por risk of <b>contaminating water sources</b> de construction activities?	ose a ue to	ye s		During the construction stage, different types of activities, such as earthwork, Subbase formation, Asphalt wearing, concrete work and Restoration of the		



			campsite might result in deteriorating
			the surface water quality
Will the proposed project interventions deplete		No	Water consumption will be monitored by
groundwater because of the water used			keeping the records of consumption and
during road construction activities?			capacity building of the construction
			crew during the construction stage and
			records will be maintained to avoid any
			wastage.
Will the proposed project interventions result in	Ye		During the construction phase of the
an increase in <b>ambient air pollution</b> , including	s		proposed sub-project: some adverse
chemical and particulate matter due to the			impacts on the ambient air by
construction and operation of related			suspended dust and noise are foreseen.
machinerv?			
Will the proposed project interventions result in	Ye		An increase in ambient noise and
an increase in <b>ambient noise levels</b> and	s		vibration is expected due to the
vibrations due to the operation of construction	Ŭ		operation of construction machinery
machinery/vehicles?			such as bulldozers excavators
			pneumatic machinery etc
Will these ambient noise levels be beyond the		Νo	These are within the limit as per
specifications in the SFQS?		110	baseline monitoring results
Will the proposed project interventions lead to		No	Proposed project will reduce the erosion
erosion hazards?		NU	due to flood water by raising the existing
			profile with the formation of the
			ambankment is taken to make the
			design flood resilient
		No	
increased soil arcsion?		INU	
Will the proposed project interventions result in		No	Combustible papaembustible and
the generation of <b>bazardous and/or non-</b>		NU	bazardous waste will be temporarily
hazardous wasto?			stored on-site in the designated
			locations and handed over to approve
			waste contractors for recycling
			nurnoses and safe disposal
Will the proposed project interventions result in		No	The screening will be carried out before
notentially increased health risks for <b>project</b>		110	hiring the labour
workers and communities (e.g. COVID-19)?			
Is the proposed project interventions being		No	The proposed rebabilitation works will
implemented in an area with high natural		NU	improve the drainage during monsoon
hazard risk? (e.g. floods earthquakes			without any environmental
landelides)			consequences
			IMENT
Will the proposed project interventions		No	No protected areas were observed near
potentially agues any adverse impacts on		NU	(1000 motors) of the proposed sub
habitate accessestere and/or accessester			project area
services?			ריסופט מופמ.
Will any rehabilitation & improvement works be		No	Proposed rehabilitation works falls in
located in areas that would promote the		INU	
conversion of natural babitate?			ועומו מולמ,
Will any proposed project interventions be		No	
located on or near sensitive environmental		INU	The indirect impacts have been
			evaluated at 100 meters/328 feet on
			either side of the road center line of the



Are the proposed project interventions activities likely to pose risks to any endangered species?   No   As far as the sub-project area is concerned, none of the endemic or endangered species of both flora and fauna were recorded from the sub-project site.     SOCIAL EVIRONMENT     Will the proposed project interventions involve Iand acquisition?   No   No   As far as the sub-project area is concerned, none of the endemic or endangered species of both flora and fauna were recorded from the sub-project site.     SOCIAL EVIRONMENT   No   No   In and acquisition is involved as the proposed subproject interventions are within the existing RoW.     Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed project intervention?   No   Child & forced labor is not allowed on the SFERP,     Interventions?   Is abor influx expected during the anticipated outside labor force.   No   A large-scale labor influx is not expected due to the availability of local labor in the subproject.     Will local labor be used for the proposed project intervention activities? Please estimate the strength of the anticipated local labor force.   Ye   Local operators/drivers will be preferred with valid driving licenses having experience driving vehicles like (trucks, dumpers, and Dozers, etc.).     Will local labor the proposed project intervention activities?   Ye   Traffic Management Plan to address the rababilitation of the proposed project intervention activities? </th <th><b>areas</b>, including national parks and protected areas?</th> <th></th> <th></th> <th>proposed rehabilitation works (250 ft on each side from the center line), None of the socially sensitive receptors found in</th>	<b>areas</b> , including national parks and protected areas?			proposed rehabilitation works (250 ft on each side from the center line), None of the socially sensitive receptors found in
Are the proposed project interventions activities likely to pose risks to any endangered species?NoAs far as the sub-project area is concerned, none of the endemic or endangered species of both flora and fauna were recorded from the sub- project site.SOCIAL ENVIRONMENTWill the proposed project interventions involve 				the buffer zone
activitieslikely to pose risks to any endangered species?concerned, none of the endemic or endangered species of both flora and fauna were recorded from the sub- project site.SOCIAL EVIRONMENTNoNo land acquisition is involved as the proposed project interventions involvedWill the proposed project interventions involvedNoNoInto acquisition is involved as the proposed subproject interventions are within the existing RoW.Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed project intervention?NoA large-scale labor influx is not expected during the intervention?Is labor influx expected during the implementation of the proposed project intervention? Please estimate the strength of the anticipated outside labor force.NoA large-scale labor influx is not expected due to the availability of local labor in the subproject.Will local labor be used for the proposed project intervention activities?YeNoNoNoNoNoWill there be any temporary or permanent displacement as a result of the proposed project intervention activities?NoNoNoNoNoAre there any recognized Indigenous contervention activities, particularly during the composed project intervention activities, particularly during the composed project intervention activities, particularly during the composed project intervention serve;NoNoNoWill berefered intervention activities, particularly during the composed project intervention activities;NoNoNoNoAre there e	Are the proposed project interventions	<b>-</b>	No	As far as the sub-project area is
endangered species?endangered species of both flora and fauna were recorded from the sub- project site.SOCIAL ENVIRONMENTWill the proposed project interventions involve land acquisition?NoAre there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed project intervention?NoIs labor influx expected during the implementation of the proposed project interventions? Please estimate the strength of the strength of the anticipated local labor force.NoWill local labor be used for the proposed project intervention activities? Please estimate the strength of the anticipated local labor force.NoWill local labor be used for the proposed project intervention activities?Ye s sLocal operators/drivers will be preferred with valid driving licenses having expected due to the anticipated local labor force.Will there be any temporary or permanent displacement as a result of the proposed project intervention activities?NoAre there expected to be any traffic-related intervention activities, particularly during the construction phase?Ye sAre there any recognized Indigenous encoded ty the proposed project interventions area, and are they likely to be improject interventions area, and are they likely to bimpocted by the proposed project intervention site?NoAre there any recognized Indigenous project interventions area, and are they likely to bimpaced by the proposed project interventions area, and are they likely to bimpaced by the proposed project intervention site?NoAre there any recognized Indigenous imervention sarea, and are the	activities likely to pose risks to any			concerned, none of the endemic or
SOCIAL EVVIRONMENTWill the proposed project interventions involve land acquisition?NoNo land acquisition is involved as the proposed subproject interventions are within the existing RoW.Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed project intervention?NoChild & forced labour is not allowed on the SFERP,Is labor influx expected during the interventions? Please estimate the strength of the anticipated outside labor force.NoA large-scale labor influx is not availability of local labor in the subproject area and the scale of works anticipated under the subproject.Will local labor be used for the proposed project intervention activities? Please estimate the strength of the anticipated local labor force.Ye s and Dozers, etc.).Will there be any temporary or permanent displacement as a result of the proposed project intervention activities?NoNo ne of the infrastructure and commercial activities exist within RoW. No resettlement is expected to address the traffic Management Plan will be developed and implemented to address the traffic management Plan will be developed and implemented to address the traffic management Plan will be developed and implemented to address the traffic management Plan will be developed and implemented to address the traffic management Plan will be developed and implemented to address the traffic management Plan will be developed and implemented to address the traffic management Plan will be developed and implemented to address the traffic management Plan will be impacted by the project interventions likely to be impacted by the project interventions likely to be impa	endangered species?			endangered species of both flora and
SOCIAL ENVIRONMENT     Will the proposed project interventions involved   No     Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed project intervention?   No     Is labor influx expected during the implementation of the proposed project interventions? Please estimate the strength of the anticipated outside labor force.   No     Will local labor be used for the proposed project intervention activities? Please estimate the strength of the anticipated local labor force.   No     Will local labor be used for the proposed project intervention activities? Please estimate the strength of the anticipated local labor force.   No     Will local labor be used for the proposed project intervention activities?   No     No   None of the infrastructure and displacement as a result of the proposed project intervention activities?     Are there expected to be any traffic-related intervention activities, particularly during the construction phase?   Ye s     Are there any recognized Indigenous propexet interventions activities, particularly during the interventions area, and are they likely to be impacted by the project, either positively or negatively?   No   no archaeological sites were found in the impact zone.     Are there been any past security-related interventions area, and are they likely to be impacted by the project, either positively or negatively?   No   no archaeological sites were found in the impact zone.				fauna were recorded from the sub-
SOCIAL ENVIRONMENTWill the proposed project interventions involve land acquisition?NoNo Iand acquisition is involved as the proposed subproject interventions are within the existing RoW.Are there any forced labor or child labor risks parties involved in implementing this proposed project intervention?NoChild & forced labour is not allowed on the SFERP,Is labor influx expected during the implementation of the proposed project interventions? Please estimate the strength of the anticipated outside labor force.NoA large-scale labor influx is not expected due to the availability of local labor in the subproject area and the scale of works anticipated under the subproject.Will local labor be used for the proposed project intervention activities? Please estimate the strength of the anticipated local labor force.YeLocal operators/drivers will be preferred with valid driving licenses having experience driving vehicles like (trucks, dumpers, and Dozers, etc.).Will there be any temporary or permanent displacement as a result of the proposed project intervention activities, particularly during the construction phase?NoNone of the infrastructure and commercial activities within RoW. No resettlement is expected due to the refabilitation of the proposed project areasAre there any recognized Indigenous Peoples present in the proposed project interventions area, and are they likely to have impacts on important religious/cultural heritage sites?Nono archaeological sites were found in the impact zone.Are there any recognized Indigenous Peoples present in the proposed project interventions area, and are they likely to have impacts on important<				project site.
Will the proposed project interventions involve land acquisition?NoNoNoInd acquisition involved as the proposed subproject interventions are within the existing RoW.Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed interventions? Please estimate the strength of the anticipated outside labor force.NoA large-scale labor influx is not expected due to the availability of local labor in the subproject area and the scale of works anticipated under the subproject.Will local labor be used for the proposed project intervention activities? Please estimate the strength of the anticipated local labor force.Ye sLocal operators/drivers will be preferred with valid driving licenses having experience driving vehicels like (trucks, dumpers, and Dozers, etc.).Will there be any temporary or permanent displacement as a result of the proposed project intervention activities?NoNoNoAre there expected to be any traffic-related intervention activities, particularly during the construction phase?NoNoTraffic Management Plan will be developed and implemented to address the traffic management issues during the rehabilitation works in sub-project areasAre there any recognized Indigenous Peoples present in the proposed project interventions area, and are they likely to be impacts on important relability?NoNono archaeological sites were found in the impact zone.Are there any recognized Indigenous Peoples present in the proposed project interventions area, and are they likely to be impacts on important relability?Nono archaeological s	SOCIAL E	NVIR	ONME	ENT
Iand acquisition?proposed subproject interventions are within the existing RoW.Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed project intervention?NoChild & forced labor is not allowed on the SFERP,Is labor influx expected during the implementation of the proposed project interventions? Please estimate the strength of the anticipated outside labor force.NoA large-scale labor influx is not expected due to the availability of local labor in the subproject area and the scale of works anticipated under the subproject.Will local labor be used for the proposed project intervention activities? Please estimate the strength of the anticipated local labor force.Ye s s cale of works anticipated local labor force.Will there be any temporary or permanent displacement as a result of the proposed project intervention activities?NoNoNo resettlement is expected due to the rehabilitation of the proposed project's sub-component.Are there expected to be any traffic-related intervention activities, particularly during the rehabilitation of the proposed project intervention activities, particularly during the improved project interventions area, and are they likely to be improved project interventions likely to have impacts on important religious/cultural heritage sites?NoNoNo archaeological sites were found in the impact zone.Have there been any past security-related itte?NoHas stakeholder engagement taken place in the proposed project interventions area?NoNono archaeological sites were found in the impact zon	Will the proposed project interventions involve		No	No land acquisition is involved as the
Are there any forced labor or child labor risks associated with contractors or other third parties involved in implementing this proposed project intervention?NoChild & forced labour is not allowed on the SFERP,Is labor influx expected during the implementation of the proposed project interventions? Please estimate the strength of the anticipated outside labor force.NoA large-scale labor influx is not expected due to the availability of local labor in the subproject area and the scale of works anticipated under the subproject.Will local labor be used for the proposed the strength of the anticipated local labor force.Ye s s uith valid driving licenses having experience driving vehicles like (trucks, dumpers, and Dozers, etc.).Will there be any temporary or permanent displacement as a result of the proposed project intervention activities?NoNoAre there expected to be any traffic-related intervention activities, particularly during the construction phase?Ye s sTraffic Management Plan will be developed and implemented to address the traffic management is use during the rehabilitation works in sub-project areasAre there any recognized Indigenous macted by the project, either positively or negatively?Nono archaeological sites were found in the impact zone.Are there been any past security-related iterventions area, and are they likely to have impacts on important religious/cultural heritage sites?Nono archaeological sites were found in the impact zone.Have there been any past security-related iterYe s stakeholder engagement taken place in stakeholder stat the proposed project interventionsNo<	land acquisition?			proposed subproject interventions are within the existing RoW.
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parties involved in implementing this proposed project intervention?NoA large-scale labor influx is not expected due to the availability of local labor influx expected during the scale of works anticipated under the subproject.Will local labor be used for the proposed project intervention activities? Please estimate the strength of the anticipated local labor force.YeLocal operators/drivers will be preferred with valid driving licenses having experience driving vehicles like (trucks, dumpers, and Dozers, etc.).Will there be any temporary or permanent displacement as a result of the proposed project intervention activities?NoNoNo no e of the infrastructure and commercial activities exist within RoW. No resettlement is expected due to the rehabilitation of the proposed project's sub-component.Are there expected to be any traffic-related intervention activities, particularly during the construction phase?YeTraffic Management Plan will be developed and implemented to address the traffic management issues during the rehabilitation works in sub-project areasAre there any recognized Indigenous Peoples present in the proposed project interventions area, and are they likely to be impacted by the project, either positively or negatively?Nono archaeological sites were found in the impact zone.Are there proposed project interventions likely Have there been any past security-related issues at the proposed project intervention site?Nono archaeological sites were found in the impact zone.Have there been any past security-related issues at the proposed project intervention site?Nono security-related issues were found in the impact zone. <td>associated with contractors or other third</td> <td></td> <td></td> <td>the SFERP,</td>	associated with contractors or other third			the SFERP,
project intervention?NoA large-scale labor influx is not expected due to the availability of local labor in the proposed project interventions? Please estimate the strength of the anticipated <b>outside labor force.</b> NoA large-scale labor influx is not expected due to the availability of local labor in the subproject area and the scale of works anticipated under the subproject.Will local labor be used for the proposed project intervention activities? Please estimate the strength of the anticipated local labor force.YeLocal operators/drivers will be preferred with valid driving licenses having experience driving vehicles like (trucks, dumpers, and Dozers, etc.).Will there be any temporary or permanent displacement as a result of the proposed project intervention activities, particularly during the construction phase?NoNoNone of the infrastructure and commercial activities exist within RoW. No resettlement is expected due to the rehabilitation of the proposed project's sub-component.Are there expected to be any traffic-related intervention activities, particularly during the construction phase?YeTraffic Management Plan will be developed and implemented to address the traffic management issues during the rehabilitation works in sub-project areasPeoples present in the proposed project interventions area, and are they likely to be impacted by the project, either positively or negatively?NoNo archaeological sites were found in the impact zone.Nono archaeological sites on important religious/cultural heritage sites?Nono archaeological sites were found in the impact zone.Have there been any past security-related issues at the pro	parties involved in implementing this proposed			
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Will local labor be used for the proposed project intervention activities? Please estimate the strength of the anticipated local labor force.Ye sLocal operators/drivers will be preferred with valid driving licenses having experience driving vehicles like (trucks, dumpers, and Dozers, etc.).Will there be any temporary or permanent displacement as a result of the proposed project intervention activities?NoNone of the infrastructure and commercial activities exist within RoW. No resettlement is expected due to the rehabilitation of the proposed project's sub-component.Are there expected to be any traffic-related intervention activities, particularly during the construction phase?Ye sTraffic Management Plan will be developed and implemented to address the traffic management issues during the rehabilitation works in sub-project areasAre there any recognized Indigenous Peoples present in the proposed project interventions area, and are they likely to be impacted by the project, either positively or negatively?Nono Indigenous Peoples were found in the impact zone.Are there been any past security-related itsues at the proposed project interventions site?Nono security-related issues were found in the impact zone.Have there been any past security-related itsues at the proposed project interventions area?Nono security-related issues were found in the impact zone.Has stakeholder engagement taken place in the proposed project interventions area?ye sA site visit was carried out to identify all stakeholders that either reside or work s				subproject.
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Inspirate line in a closult of the proposedCommendation activities expected due to the rehabilitation of the proposed project's sub-component.Are there expected to be any traffic-related issues as a result of the proposed project intervention activities, particularly during the construction phase?YeTraffic Management Plan will be developed and implemented to address the traffic management issues during the rehabilitation works in sub-project areasAre there any recognized Indigenous Peoples present in the proposed project interventions area, and are they likely to be impacted by the project, either positively or negatively?Nono Indigenous Peoples were found in the impact zone.Are the proposed project interventions likely to have impacts on important religious/cultural heritage sites?Nono archaeological sites were found in the impact zone.Have there been any past security-related issues at the proposed project intervention area?Nono security-related issues were found in the impact zone.Has stakeholder engagement taken place in site?yeA site visit was carried out to identify all the impact zone.	displacement as a result of the proposed		INU	commercial activities exist within RoW
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site? Has stakeholder engagement taken place in ye A site visit was carried out to identify all stakeholders that either reside or work in the project wight on dependent on the project wight on the pr	issues at the proposed project intervention		110	the impact zone
Has <b>stakeholder engagement</b> taken place in ye the proposed project interventions area? s stakeholders that either reside or work in the project visit was carried out to identify all stakeholders that either reside or work in the project visit was carried out to identify all stakeholders that either reside or work	site?			
the proposed project interventions area? s stakeholders that either reside or work	Has <b>stakeholder engagement</b> taken place in	ve		A site visit was carried out to identify all
in the project visibility and conduct on	the proposed project interventions area?	s		stakeholders that either reside or work
				in the project vicinity and conduct an



			initial identification of potential positive and negative impacts.	
Were vulnerable and indigenous gra- involved in stakeholder consultations? women, minorities, econom disadvantaged individuals, etc.)	oups (e.g. ically	No	no Indigenous Peoples were found in the impact zone.	
RIS	K CLASSIF	ICATI	ON	
Step	Recomme	ndati	ons/Findings	
Risk category identification Low-Me		₋ow-Medium risk level		
Recommendation on type of E&S instruments required.	ESMP			
Summary of screening findings	These risk	s are	likely to be temporary and reversible and	
	are not exp	pected	to have lasting effects on the proposed	
	project inte	erventi	on areas	
Name of the person endorsing screening findings	Environme	ntal S	afeguard of PIU	

Proposed	Proposed Project Interventions Details					
Name of proposed project interventions	Reco kms	Reconditioning of road from gharo keti bunder road at 20 kms to village dilawar shalmani & pir allah dino shah				
ID of proposed project interventions	12-24 67°4	4°29'15 5'24.76	5.20"N 5"E	67°48'28.06"E 24°28'16.60"N		
Proposing agency	PIU-	SFERP	)			
Proposed project interventions location	Distr	ict That	ta Tal	uka Keti Bander		
Proposed project interventions objective	The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic revival of the worst-affected					
Estimated cost	-					
Proposed date of commencement of civil work	Will o	complet	te in 1	2 months		
Screening Question		Yes	No	Remarks		
PHY	SICAL	ENVIF	RONM	ENT		
Will the proposed project interventions the risk of <b>clearance of vegetation</b> that result in an increase in the level of suspe solids washing into nearby water bodies?	s pose No at may ended ?		No	None of the trees will need to be cut due to the proposed rehabilitation work.		
Will the proposed project interventions por risk of <b>contaminating water sources</b> de construction activities?	oose a yes due to			During the construction stage, different types of activities, such as earthwork, Subbase formation, Asphalt wearing,		



			concrete work and Restoration of the
			campsite might result in deteriorating
			the surface water quality
Will the proposed project interventions deplete		No	Water consumption will be monitored by
groundwater because of the water used			keeping the records of consumption and
during road construction activities?			capacity building of the construction
			crew during the construction stage and
			records will be maintained to avoid any
			wastage.
Will the proposed project interventions result in	Yes		During the construction phase of the
an increase in ambient air pollution, including			proposed sub-project; some adverse
chemical and particulate matter due to the			impacts on the ambient air by
construction and operation of related			suspended dust and noise are foreseen.
machinery?			
Will the proposed project interventions result in	Yes		An increase in ambient noise and
an increase in ambient noise levels and			vibration is expected due to the
vibrations due to the operation of construction			operation of construction machinery
machinery/vehicles?			such as bulldozers, excavators,
			pneumatic machinery, etc.
Will these ambient noise levels be beyond the		No	These are within the limit as per
specifications in the SEQS?			baseline monitoring results.
Will the proposed project interventions lead to		No	Proposed project will reduce the erosion
erosion hazards?			due to flood water by raising the existing
			profile with the formation of the
			embankment is taken to make the
			design flood resilient.
Will the proposed project interventions lead to		No	
increased soil erosion?			
Will the proposed project interventions result in		No	Combustible, noncombustible and
the generation of hazardous and/or non-			hazardous waste will be temporarily
hazardous waste?			stored on-site in the designated
			locations and handed over to approve
			waste contractors for recycling
			purposes and safe disposal.
Will the proposed project interventions result in		No	The screening will be carried out before
potentially increased health risks for project			hiring the labour.
workers and communities (e.g. COVID-19)?			
Is the proposed project interventions being		No	The proposed rehabilitation works will
implemented in an area with high natural			improve the drainage during monsoon
hazard risk? (e.g. floods, earthquakes,			without any environmental
landslides)			consequences.
ECOLOGICA		IRON	MENT
Will the proposed project interventions		No	No protected areas were observed near
potentially cause any adverse impacts on			(1000 meters) of the proposed sub-
habitats, ecosystems, and/or ecosystem			project area.
services?			
Will any rehabilitation & improvement works be		No	Proposed rehabilitation works falls in
located in areas that would promote the			rural area,
conversion of natural habitats?			
Will any proposed project interventions be		No	The indirect impacts have been
located on or near sensitive environmental			evaluated at 100 meters/328 feet on
L			i



areas, including national parks and protected areas? Are the proposed project interventions activities likely to pose risks to any		No	either side of the road center line of the proposed rehabilitation works (250 ft on each side from the center line), None of the socially sensitive receptors found in the buffer zone As far as the sub-project area is concerned, none of the endemic or
endangered species?			endangered species of both flora and fauna were recorded from the sub- project site.
SOCIAL	ENVIR	ONME	NT
Will the proposed project interventions involve <b>land acquisition</b> ?		No	No land acquisition is involved as the proposed subproject interventions are within the existing RoW.
Are there any <b>forced labor or child labor</b> risks associated with contractors or other third parties involved in implementing this proposed project intervention?		No	Child & forced labour is not allowed on the SFERP,
Is labor influx expected during the implementation of the proposed project interventions? Please estimate the strength of the anticipated <b>outside labor force.</b>		No	A large-scale labor influx is not expected due to the availability of local labor in the subproject area and the scale of works anticipated under the subproject.
<b>Will local labor</b> be used for the proposed project intervention activities? Please estimate the strength of the anticipated local labor force.	Yes		Local operators/drivers will be preferred with valid driving licenses having experience driving vehicles like (trucks, dumpers, and Dozers, etc.).
Will there be any <b>temporary or permanent</b> <b>displacement</b> as a result of the proposed project intervention activities?		No	None of the infrastructure and commercial activities exist within RoW. No resettlement is expected due to the rehabilitation of the proposed project's sub-component.
Are there expected to be any <b>traffic-related</b> <b>issues</b> as a result of the proposed project intervention activities, particularly during the construction phase?	Yes		Traffic Management Plan will be developed and implemented to address the traffic management issues during the rehabilitation works in sub-project areas
Are there any recognized <b>Indigenous</b> <b>Peoples</b> present in the proposed project interventions area, and are they likely to be impacted by the project, <b>either positively or</b> <b>negatively</b> ?		No	no Indigenous Peoples were found in the impact zone.
Are the proposed project interventions likely to have impacts on important religious/cultural heritage sites?		No	no archaeological sites were found in the impact zone.
Have there been any past <b>security-related</b> <b>issues</b> at the proposed project intervention site?		No	no security-related issues were found in the impact zone.
Has <b>stakeholder engagement</b> taken place in the proposed project interventions area?	yes		A site visit was carried out to identify all stakeholders that either reside or work



			in the project vicinity and conduct an initial identification of potential positive and negative impacts.	
Were vulnerable and indigenous gra- involved in stakeholder consultations? women, minorities, econom disadvantaged individuals, etc.)	oups (e.g. ically	No	no Indigenous Peoples were found in the impact zone.	
RIS	SK CLASSIFI	CATI	ON	
Step Recommenda		dations/Findings		
Risk category identification	Low-Medium ris		edium risk level	
Recommendation on type of E&S instruments required.	ESMP			
Summary of screening findings	These risks	are li	kely to be temporary and reversible and	
	are not exp	ected	to have lasting effects on the proposed	
	project inter	ventio	n areas	
Name of the person endorsing screening findings	Environmen	ital Sa	feguard of PIU	

Proposed Project Interventions Details				
Name of proposed project interventions	Reconditioning of road from ghulamullah var road at 8.0 kms sama stop to village m ayoub, qasim samoo & haji lashan via ahmed chandio i/c link			
ID of proposed project interventions	13-25°14'3.88"N 68°17'2.41"E 25°13'6.48"N 68°14'16.03"E			
Proposing agency	PIU-	SFER	Р	
Proposed project interventions location	Distr	District Thatta Taluka Ghorabari		
Proposed project interventions objective	The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic revival of the worst-affected areas			
Estimated cost	-			
Proposed date of commencement of civil work	Will complete in 12 months			
Screening Question		Ye	No	Remarks
PHYSICAL ENVIRONMENT				
Will the proposed project interventions	pose		No	None of the trees will need to be cut due
the risk of clearance of vegetation that	may			to the proposed renabilitation work.
solids washing into nearby water bodies?	s?			



Will the proposed project interventions pose a	ye		During the construction stage, different
risk of contaminating water sources due to	S		types of activities, such as earthwork,
construction activities?			Subbase formation, Asphalt wearing,
			concrete work and Restoration of the
			campsite might result in deteriorating
			the surface water quality
Will the proposed project interventions <b>deplete</b>		No	Water consumption will be monitored by
<b>groundwater</b> because of the water used			keeping the records of consumption and
during road construction activities?			capacity building of the construction
			crew during the construction stage and
			records will be maintained to avoid any
			wastage
Will the proposed project interventions result in	٧۵		During the construction phase of the
an increase in ambient air pollution, including	10		proposed sub-project: some adverse
an increase in an perticulate metter due to the	3		impacts on the ambient air by
chemical and particulate matter due to the			impacts on the ambient all by
machinery?			suspended dust and hoise are loreseen.
	Ve		An increase in emblect raise and
will the proposed project interventions result in	re		An increase in ambient noise and
an increase in amplent noise levels and	5		vibration is expected due to the
vibrations due to the operation of construction			operation of construction machinery
machinery/vehicles?			such as buildozers, excavators,
		N.L.	pheumatic machinery, etc.
Will these ambient noise levels be beyond the		NO	These are within the limit as per
specifications in the SEQS?	ļ		baseline monitoring results.
Will the proposed project interventions lead to		NO	Proposed project will reduce the erosion
erosion hazards?			due to flood water by raising the existing
			profile with the formation of the
			embankment is taken to make the
			design flood resilient.
Will the proposed project interventions lead to		No	
Increased soil erosion?			
Will the proposed project interventions result in		NO	Combustible, noncombustible and
the generation of hazardous and/or non-			hazardous waste will be temporarily
hazardous waste?			stored on-site in the designated
			locations and handed over to approve
			waste contractors for recycling
			purposes and safe disposal.
vviii the proposed project interventions result in		INO	I ne screening will be carried out before
potentially increased health risks for project			nining the labour.
workers and communities (e.g. COVID-19)?		NI	
is the proposed project interventions being		NO	I ne proposed rehabilitation works will
implemented in an area with high natural			improve the drainage during monsoon
nazaro risk (e.g. 11000s, eartinquakes,			without any environmental
vviii the proposed project interventions		NO	No protected areas were observed near
potentially cause any adverse impacts on			(1000 meters) of the proposed sub-
napitats, ecosystems, and/or ecosystem			project area.
SETVICES?			



Will any rehabilitation & improvement works be		No	Proposed rehabilitation works falls in
located in areas that would promote the			rural area,
conversion of natural habitats?			
Will any proposed project interventions be		No	The indirect impacts have been
located on or near sensitive environmental			evaluated at 100 meters/328 feet on
areas, including national parks and protected			either side of the road center line of the
areas?			proposed rebabilitation works (250 ft on
			each side from the center line). None of
			the socially sensitive recentors found in
			the buffer zone
Are the present preject interventions		Na	As for as the sub-project error is
Are the proposed project interventions		INO	As far as the sub-project area is
activities likely to pose lisks to ally			endangered species of both flora and
endangered species:			fauna were recorded from the sub-
			project site
SOCIAL F	NVIR	ONME	NT
Will the proposed project interventions involve		Νο	No land acquisition is involved as the
land acquisition?			proposed subproject interventions are
•			within the existing RoW.
Are there any forced labor or child labor risks		No	Child & forced labour is not allowed on
associated with contractors or other third			the SFERP,
parties involved in implementing this proposed			
project intervention?			
Is labor influx expected during the		No	A large-scale labor influx is not
implementation of the proposed project			expected due to the availability of local
interventions? Please estimate the strength of			labor in the subproject area and the
the anticipated outside labor force.			scale of works anticipated under the
			subproject.
Will local labor be used for the proposed	Ye		Local operators/drivers will be preferred
project intervention activities? Please estimate	S		with valid driving licenses having
the strength of the anticipated local labor force.			experience driving vehicles like (trucks,
			dumpers, and Dozers, etc.).
will there be any temporary or permanent		NO	None of the infrastructure and
project intervention activities?			No resettlement is expected due to the
project intervention activities:			rehabilitation of the proposed project's
			sub-component.
Are there expected to be any traffic-related	Ye		Traffic Management Plan will be
issues as a result of the proposed project	s		developed and implemented to address
intervention activities, particularly during the			the traffic management issues during
construction phase?			the rehabilitation works in sub-project
			areas
Are there any recognized Indigenous		No	no Indigenous Peoples were found in
Peoples present in the proposed project			the impact zone.
interventions area, and are they likely to be			
impacted by the project, either positively or			
negatively?			
Are the proposed project interventions likely to		No	no archaeological sites were found in
have impacts on important			the impact zone.
religious/cultural heritage sites?			



Have there been any past security-related			No	no security-related issues were found in
issues at the proposed project intervention				the impact zone.
site?				
Has stakeholder engagement taken place	ce in	ye		A site visit was carried out to identify all
the proposed project interventions area?		s		stakeholders that either reside or work
				in the project vicinity and conduct an
				initial identification of potential positive
				and negative impacts.
Were vulnerable and indigenous groups			No	no Indigenous Peoples were found in
involved in stakeholder consultations?	(e.g.			the impact zone.
women, minorities, economically				
disadvantaged individuals, etc.)				
RISK CLASS			ICATI	ON
Step Reco		Recommendations/Findings		
Risk category identification Low-Mediu		v-Medium risk level		
Recommendation on type of E&S	ESMP			
instruments required.				
Summary of screening findings These r		ese risks are likely to be temporary and reversible and		
are n		e not expected to have lasting effects on the proposed		
projec		ect intervention areas		
Name of the person endorsing Enviro		onme	ntal S	afeguard of PIU
screening findings				

Proposed Project Interventions Details					
Name of proposed project interventions	Reconditioning of road from karachi thatta - hyderabad road at 170 km to connect village ibrahim shoro				
ID of proposed project interventions	14-24°12'21.90"N 67°31'32.18"E 24°10'54.05"N				
	67°31'4.45"E				
Proposing agency	PIU-SFERP				
Proposed project interventions location	District & Taluka Thatta				
Proposed project interventions objective	The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic revival of the worst-affected areas.				
Estimated cost	-				
Proposed date of commencement of	Will complete in 12 months				
civil work					
Screening Question	Yes No Remarks				
PHYSICAL ENVIRONMENT					


Will the proposed project interventions pose		No	None of the trees will need to be cut
the risk of clearance of vegetation that may			due to the proposed rehabilitation
result in an increase in the level of suspended			work.
solids washing into nearby water bodies?			
Will the proposed project interventions pose a	yes		During the construction stage, different
risk of contaminating water sources due to			types of activities, such as earthwork,
construction activities?			Subbase formation, Asphalt wearing,
			concrete work and Restoration of the
			campsite might result in deteriorating
			the surface water quality
Will the proposed project interventions deplete		No	Water consumption will be monitored
groundwater because of the water used			by keeping the records of consumption
during road construction activities?			and capacity building of the
			construction crew during the
			construction stage and records will be
			maintained to avoid any wastage.
Will the proposed project interventions result in	Yes		During the construction phase of the
an increase in <b>ambient air pollution</b> , including			proposed sub-project; some adverse
chemical and particulate matter due to the			impacts on the ambient air by
construction and operation of related			suspended dust and noise are
machinery?			foreseen.
Will the proposed project interventions result in	Yes		An increase in ambient noise and
an increase in ambient noise levels and			vibration is expected due to the
vibrations due to the operation of construction			operation of construction machinery
machinery/vehicles?			such as buildozers, excavators,
		NIa	pneumatic machinery, etc.
will these ambient holse levels be beyond the		INO	I nese are within the limit as per
Will the proposed project interventions lead to		No	Drappaged project will reduce the
erosion hozordo?		INO	proposed project will reduce the
			the existing profile with the formation of
			the embankment is taken to make the
			design flood resilient
Will the proposed project interventions lead to		Νo	
increased soil erosion?		110	
Will the proposed project interventions result in		No	Combustible, noncombustible and
the generation of hazardous and/or non-			hazardous waste will be temporarily
hazardous waste?			stored on-site in the designated
			locations and handed over to approve
			waste contractors for recycling
			purposes and safe disposal.
Will the proposed project interventions result in		No	The screening will be carried out
potentially increased health risks for project			before hiring the labour.
workers and communities (e.g. COVID-19)?			
Is the proposed project interventions being		No	The proposed rehabilitation works will
implemented in an area with high natural			improve the drainage during monsoon
hazard risk? (e.g. floods, earthquakes,			without any environmental
landslides)			consequences.
ECOLOGICA	L ENV	IRONI	MENT



Will the proposed project interventions		No	No protected areas were observed
potentially cause any adverse impacts on			near (1000 meters) of the proposed
habitats, ecosystems, and/or ecosystem			sub-project area.
services?			
Will any rehabilitation & improvement works be		No	Proposed rehabilitation works falls in
located in areas that would promote the			rural area,
conversion of natural habitats?			
Will any proposed project interventions be		No	The indirect impacts have been
located on or near sensitive environmental			evaluated at 100 meters/328 feet on
areas, including national parks and protected			either side of the road center line of the
areas?			proposed rehabilitation works (250 ft
			on each side from the center line)
			None of the socially sensitive receptors
			found in the buffer zone
Are the proposed project interventions		INO	As far as the sub-project area is
addivides likely to pose lisks to any			concerned, none of the endemic of
endangered species?			fauna were recorded from the sub
			project site
Will the proposed project interventions involve			No lond acquisition is involved as the
land acquisition?		INO	No land acquisition is involved as the
			within the existing PoW
Are there any forced labor or child labor risks		No	Child & forced labour is not allowed on
Are there any forced labor of child labor lisks		NU	the SEEPD
associated with contractors of other third			INE SPERF,
project intervention?			
Is labor influx expected during the		No	A large-scale labor influx is not
implementation of the proposed project		NO	expected due to the availability of local
interventions? Please estimate the strength of			labor in the subproject area and the
the anticipated outside labor force			scale of works anticipated under the
			subproject
Will local labor be used for the proposed	Yes		Local operators/drivers will be
project intervention activities? Please estimate	103		preferred with valid driving licenses
the strength of the anticipated local labor force			having experience driving vehicles like
			(trucks, dumpers, and Dozers, etc.).
Will there be any temporary or permanent		No	None of the infrastructure and
<b>displacement</b> as a result of the proposed			commercial activities exist within RoW.
project intervention activities?			No resettlement is expected due to the
1			rehabilitation of the proposed project's
			sub-component.
Are there expected to be any traffic-related	Yes		Traffic Management Plan will be
issues as a result of the proposed project			developed and implemented to
intervention activities, particularly during the			address the traffic management issues
construction phase?			during the rehabilitation works in sub-
			project areas
Are there any recognized Indigenous		No	no Indigenous Peoples were found in
Peoples present in the proposed project			the impact zone.
interventions area, and are they likely to be			



impacted by the project, <b>either positivel</b> <b>negatively</b> ?	ly or			
Are the proposed project interventions like	ely to		No	no archaeological sites were found in
have impacts on impor	rtant			the impact zone.
religious/cultural heritage sites?				
Have there been any past security-rel	ated		No	no security-related issues were found
issues at the proposed project interversite?	ntion			in the impact zone.
Has stakeholder engagement taken place	ce in	yes		A site visit was carried out to identify all
the proposed project interventions area?				stakeholders that either reside or work
				in the project vicinity and conduct an
				initial identification of potential positive
				and negative impacts.
Were vulnerable and indigenous gro	oups		No	no Indigenous Peoples were found in
involved in stakeholder consultations?	(e.g.			the impact zone.
women, minorities, economi	ically			
disadvantaged individuals, etc.)				
RIS	K CLA	SSIFIC	CATIC	)N
Step	Reco	mmen	datio	ns/Findings
Risk category identification	Low-I	Mediun	n risk	level
Recommendation on type of E&S	ESM	D		
instruments required.				
Summary of screening findings	These	e risks	are lik	kely to be temporary and reversible and
	are n	ot expe	ected	to have lasting effects on the proposed
	proje	ct inter	ventio	n areas
Name of the person endorsing	Envir	onmen	tal Sa	feguard of PIU
screening findings				

# **Environmental and Social Screening Checklist Road 15**

Proposed Project Interventions Details						
Name of proposed project interventions	Reconditioning of road from juho to ahmed jatt					
ID of proposed project interventions	15-24°33'3.05"N 67°37'44.46"E 24°31'10.52"N 67°32'0.66"E					
Proposing agency	PIU-SFERP					
Proposed project interventions location	District Thatta Taluka Keti Bander					
Proposed project interventions objective	The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works, The proposed project under Flood 2022 Emergency Response is a sub-component that will support the rehabilitation and reconstruction of the flood-affected road network to improve accessibility to public facilities and facilitate the socio-economic revival of the worst- affected areas.					
Estimated cost	-					



Proposed date of commencement of	Will o	complet	te in 1	2 months
		¥-		<b>D</b>
Screening Question		Yes	NO	Remarks
PHYS				
Will the proposed project interventions	pose		No	None of the trees will need to be cut
the risk of clearance of vegetation that	may			due to the proposed rehabilitation
result in an increase in the level of suspe	nded			work.
solids wasning into nearby water bodies?				
Will the proposed project interventions po	ose a	yes		During the construction stage,
nsk of contaminating water sources of	ue to			allerent types of activities, such as
construction activities?				Asphalt waaring concrete work and
				Restoration of the campsite might
				result in deteriorating the surface
				water quality
Will the proposed project interventions <b>de</b>	olete		No	Water consumption will be monitored
groundwater because of the water	used		110	by keeping the records of
during road construction activities?				consumption and capacity building of
				the construction crew during the
				construction stage and records will be
				maintained to avoid any wastage.
Will the proposed project interventions res	ult in	Yes		During the construction phase of the
an increase in ambient air pollution, inclu	uding			proposed sub-project; some adverse
chemical and particulate matter due to	the			impacts on the ambient air by
construction and operation of re	lated			suspended dust and noise are
machinery?				foreseen.
Will the proposed project interventions res	ult in	Yes		An increase in ambient noise and
an increase in ambient noise levels	and			vibration is expected due to the
vibrations due to the operation of constru	ction			operation of construction machinery
machinery/vehicles?				such as bulldozers, excavators,
				pneumatic machinery, etc.
Will these ambient noise levels be beyond	d the		NO	I nese are within the limit as per
specifications in the SEQS?			Nla	baseline monitoring results.
vill the proposed project interventions les	ad to		INO	Proposed project will reduce the
erosion hazards?				the existing profile with the formation
				of the embandment is taken to make
				the design flood resilient
Will the proposed project interventions les	ad to		No	
increased soil erosion?				
Will the proposed project interventions res	ult in		Νο	Combustible, noncombustible and
the generation of hazardous and/or	non-			hazardous waste will be temporarily
hazardous waste?				stored on-site in the designated
				locations and handed over to approve
				waste contractors for recycling
				purposes and safe disposal.
Will the proposed project interventions res	ult in		No	The screening will be carried out
potentially increased health risks for pro-	oject			before hiring the labour.
workers and communities (e.g. COVID-	19)?			
Is the proposed project interventions b	peing		No	The proposed rehabilitation works will
implemented in an area with high na	tural			improve the drainage during



hazard risk? (e.g. floods, earthquakes,	<b>[</b>		monsoon without any environmental
landslides)			consequences.
ECOLOGICA	L ENVI	RONN	1ENT
Will the proposed project interventions potentially cause any adverse impacts on <b>habitats, ecosystems</b> , and/or ecosystem services?		No	No protected areas were observed near (1000 meters) of the proposed sub-project area.
Will any rehabilitation & improvement works be located in areas that would promote the <b>conversion of natural habitats</b> ?		No	Proposed rehabilitation works falls in rural area,
Will any proposed project interventions be located <b>on or near sensitive environmental</b> <b>areas</b> , including national parks and protected areas?		No	The indirect impacts have been evaluated at 100 meters/328 feet on either side of the road center line of the proposed rehabilitation works (250 ft on each side from the center line), None of the socially sensitive receptors found in the buffer zone
Are the proposed project interventions activities likely to pose risks to any endangered species?		No	As far as the sub-project area is concerned, none of the endemic or endangered species of both flora and fauna were recorded from the sub- project site.
SOCIAL E	NVIRO	NMEN	IT
Will the proposed project interventions involve land acquisition?		No	No land acquisition is involved as the proposed subproject interventions are within the existing RoW.
Are there any <b>forced labor or child labor</b> risks associated with contractors or other third parties involved in implementing this proposed project intervention?		No	Child & forced labour is not allowed on the SFERP,
Is labor influx expected during the implementation of the proposed project interventions? Please estimate the strength of the anticipated <b>outside labor force.</b>		No	A large-scale labor influx is not expected due to the availability of local labor in the subproject area and the scale of works anticipated under the subproject.
<b>Will local labor</b> be used for the proposed project intervention activities? Please estimate the strength of the anticipated local labor force.	Yes		Local operators/drivers will be preferred with valid driving licenses having experience driving vehicles like (trucks, dumpers, and Dozers, etc.).
Will there be any <b>temporary or permanent</b> <b>displacement</b> as a result of the proposed project intervention activities?		No	None of the infrastructure and commercial activities exist within RoW. No resettlement is expected due to the rehabilitation of the proposed project's sub-component.
Are there expected to be any <b>traffic-related</b> <b>issues</b> as a result of the proposed project intervention activities, particularly during the construction phase?	Yes		Traffic Management Plan will be developed and implemented to address the traffic management



				issues during the rehabilitation works
				in sub-project areas
Are there any recognized Indiger	nous		No	no Indigenous Peoples were found in
Peoples present in the proposed pr	oject			the impact zone.
interventions area, and are they likely t	o be			
impacted by the project, either positive	ly or			
negatively?				
Are the proposed project interventions like	ely to		No	no archaeological sites were found in
have impacts on impo	rtant			the impact zone.
religious/cultural heritage sites?				
Have there been any past security-rel	ated		No	no security-related issues were found
issues at the proposed project interve	ntion			in the impact zone.
site?				
Has stakeholder engagement taken pla	ce in	yes		A site visit was carried out to identify
the proposed project interventions area?				all stakeholders that either reside or
				work in the project vicinity and
				conduct an initial identification of
				imnacts
Were vulnerable and indigenous gro	ouns		No	no Indigenous Peoples were found in
involved in stakeholder consultations?	(e.g.		110	the impact zone.
women. minorities. econom	ically			
disadvantaged individuals, etc.)				
RISI	K CLAS	SSIFIC	ATIO	Ν
Step	Reco	mmen	datio	ns/Findings
Risk category identification	Low-N	Mediun	n risk	level
Recommendation on type of E&S	ESMF	C		
instruments required.				
Summary of screening findings	These	e risks	are lik	ely to be temporary and reversible and
	are no	ot expe	ected t	to have lasting effects on the proposed
	projec	ct inter	ventio	n areas
Name of the person endorsing	Enviro	onmen	tal Sa	feguard of PIU
screening findings				

#### Environmental and Social Screening Checklist – Road 16

Proposed P	roject Interventions Details
Name of proposed project interventions	Reconditioning of road from mirpur sakro to connect sindh coastal highway
ID of proposed project interventions	16-24°33'12.08"N 67°30'21.73"E 24°31'23.74"N 67°32'17.66"E
Proposing agency	PIU-SFERP
Proposed project interventions location	District Thatta Taluka Mirpur Sakro
Proposed project interventions objective	The proposed activities will be confined to the existing road RoW. For this ESMP, potential impacts were considered within a corridor extending some 100 meters/328 feet on either side of the road center line. Both rehabilitation and reconstruction within the existing carriageway are category B works,



	The	propos	ed pi	oject under Flood 2022 Emergency
	Resp	onse i	is a s	sub-component that will support the
	reha	bilitation	n and	reconstruction of the flood-affected
	road	networ	k to i	mprove accessibility to public facilities
	and	facilitat	e the	socio-economic revival of the worst-
	affec	ted are	as.	
Estimated cost	-			
Proposed date of commencement of	Will o	complet	te in 1	2 months
civil work				
Screening Question		Yes	No	Remarks
PHYS	ICAL	ENVIR	ONME	NT
Will the proposed project interventions	pose		No	None of the trees will need to be cut
the risk of clearance of vegetation that	may			due to the proposed rehabilitation
result in an increase in the level of suspe	nded			work.
solids washing into nearby water bodies?				
Will the proposed project interventions po	ose a	yes		During the construction stage,
risk of contaminating water sources du	ue to			different types of activities, such as
construction activities?				earthwork, Subbase formation,
				Asphalt wearing, concrete work and
				Restoration of the campsite might
				result in deteriorating the surface
				water quality
Will the proposed project interventions de	plete		No	Water consumption will be monitored
groundwater because of the water	used			by keeping the records of
during road construction activities?				consumption and capacity building of
				the construction crew during the
				construction stage and records will be
				maintained to avoid any wastage.
Will the proposed project interventions res	ult in	Yes		During the construction phase of the
an increase in ambient air pollution, inclu	uding			proposed sub-project; some adverse
chemical and particulate matter due to	the			impacts on the ambient air by
construction and operation of re	lated			suspended dust and noise are
machinery?				foreseen.
Will the proposed project interventions res	ult in	Yes		An increase in ambient noise and
an increase in ambient noise levels	and			vibration is expected due to the
vibrations due to the operation of constru	ction			operation of construction machinery
machinery/vehicles?				such as bulldozers, excavators,
				pneumatic machinery, etc.
Will these ambient noise levels be beyon	d the		No	These are within the limit as per
specifications in the SEQS?				baseline monitoring results.
Will the proposed project interventions lea	ad to		No	Proposed project will reduce the
erosion hazards?				erosion due to flood water by raising
				the existing profile with the formation
				of the embankment is taken to make
				the design flood resilient.
Will the proposed project interventions lea	ad to		No	
increased soil erosion?				
Will the proposed project interventions res	ult in		No	Combustible, noncombustible and
the generation of hazardous and/or	non-			hazardous waste will be temporarily
hazardous waste?				stored on-site in the designated
[				locations and handed over to approve



			waste contractors for recycling
			purposes and safe disposal.
Will the proposed project interventions result in		No	The screening will be carried out
potentially increased health risks for project			before hiring the labour.
workers and communities (e.g. COVID-19)?			
Is the proposed project interventions being		No	The proposed rehabilitation works will
implemented in an area with high natural			improve the drainage during
hazard risk? (e.g. floods, earthquakes,			monsoon without any environmental
landslides)			consequences.
ECOLOGICA		RONN	/ENT
Will the proposed project interventions		No	No protected areas were observed
potentially cause any adverse impacts on			near (1000 meters) of the proposed
habitats ecosystems and/or ecosystem			sub-project area
services?			
Will any rebabilitation & improvement works be		No	Proposed rebabilitation works falls in
leasted in grass that would promote the		INU	
achieve in aleas that would promote the			luiai alea,
		NI	
will any proposed project interventions be		ON	The indirect impacts have been
located on or near sensitive environmental			evaluated at 100 meters/328 feet on
areas, including national parks and protected			either side of the road center line of
areas?			the proposed rehabilitation works
			(250 ft on each side from the center
			line), None of the socially sensitive
			receptors found in the buffer zone
Are the proposed project interventions		No	As far as the sub-project area is
activities likely to pose risks to any			concerned, none of the endemic or
endangered species?			endangered species of both flora and
			fauna were recorded from the sub-
			project site.
SOCIAL E	NVIRO	NMEN	IT
Will the proposed project interventions involve	[	No	No land acquisition is involved as the
land acquisition?			proposed subproject interventions are
•			within the existing RoW.
Are there any <b>forced labor or child labor</b> risks		No	Child & forced labour is not allowed
associated with contractors or other third			on the SFERP.
parties involved in implementing this proposed			
project intervention?			
Is labor influx expected during the	•	No	A large-scale labor influx is not
implementation of the proposed project		NU	expected due to the availability of
interventions? Please estimate the strength of			local labor in the subproject area and
the anticipated outside labor force			the scale of works anticipated under
			the subproject
Will local labor be used for the pressed	Vaa		Local operators/drivers will be
will local labor be used for the proposed	res		Lucal operators/drivers will be
project intervention activities? Please estimate			preferred with valid driving licenses
			like (trucke dumpers and Desere
			inke (nucks, dumpers, and Dozers,
	<u> </u>		etc.).



Will there be any temporary or perma	nent		No	None of the infrastructure and
displacement as a result of the prop	osed			commercial activities exist within
project intervention activities?				RoW. No resettlement is expected
				due to the rehabilitation of the
				proposed project's sub-component.
Are there expected to be any traffic-rel	ated	Yes	•••••	Traffic Management Plan will be
issues as a result of the proposed pr	oject			developed and implemented to
intervention activities, particularly during	, the			address the traffic management
construction phase?				issues during the rehabilitation works
				in sub-project areas
Are there any recognized Indiger	nous		No	no Indigenous Peoples were found in
Peoples present in the proposed pr	oiect			the impact zone.
interventions area, and are they likely t	o be			
impacted by the project, either positive	lv or			
negatively?	,			
Are the proposed project interventions like	elv to		No	no archaeological sites were found in
have impacts on impo	rtant			the impact zone.
religious/cultural heritage sites?				
Have there been any past security-rel	ated		No	no security-related issues were found
issues at the proposed project interve	ntion			in the impact zone.
site?				
Has <b>stakeholder engagement</b> taken pla	ce in	ves		A site visit was carried out to identify
the proposed project interventions area?		, ,		all stakeholders that either reside or
				work in the project vicinity and
				conduct an initial identification of
				potential positive and negative
				impacts.
Were vulnerable and indigenous grout	oups		No	no Indigenous Peoples were found in
involved in stakeholder consultations?	(e.g.			the impact zone.
women, minorities, econom	ically			
disadvantaged individuals, etc.)	-			
RISI	<b>K CLA</b>	SSIFIC	ATIO	N
Step	Reco	ommen	datio	ns/Findings
Risk category identification	Low-	Mediur	n risk	level
Recommendation on type of E&S	ESM	Р		
instruments required.				
Summary of screening findings	Thes	e risks	are lik	ely to be temporary and reversible and
	are n	ot expe	ected t	to have lasting effects on the proposed
	proje	ct inter	ventio	n areas
Name of the person endorsing	Envir	ronmen	ital Sa	feguard of PIU
screening findings				



# Annexure II: Typical Cross Sections of Sub-Project

	LIST OF DRAWINGS	
SR.N	DESCRIPTION	
01	LIST OF DRAWINGS	
02	CROSS SECTION - PRIMARY ROADS	
03	CROSS SECTION - SECONDARY ROADS	
04	CROSS SECTION - COLLECTOR ROADS	
05	CROSS SECTION - MAJOR ROADS 01	
06	CROSS SECTION - MAJOR ROADS 02	
07	CULVERT - PLAN	
08	CULVERT - CROSS SECTION	
09	CULVERT - LONGITUDINAL SECTION	
10	CULVERT - REINFORCEMENT DETAILS	
11	CULVERT - APPRON DETAILS	
12	CAUSEWAY DETAILS	
	Insertion Sector	a (1999) (1997) (1997)
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## Annexure III: Photo log

# 1. <u>RECONDITIONING / RECONSTRUCTION OF ROAD FROM BAGHAN JANGISAR ROAD TO</u> <u>CONNECT VILLAGE MUHAMMAD HASSAN OTHO VIA DARGAH KHAIR SHAH L= 8.0 KM</u>







# 2. RECONDITIONING OF ROAD FROM BAGHAN JANGISAR ROAD TO JEETY L= 6.0 KM







## 3. <u>RECONDITIONING OF ROAD FROM 105 MORI SHORO STOP AT 12.00 KMS MUREEDANI CHOWK</u> TO VILLAGE ALAM JATT & NOOR M. JATT / PARYO JATT I/C LINKS L= 10.0 KM.







#### 4. <u>RECONDITIONING OF ROAD FROM 103 MORI AT 18.0 KMS TO VILLAGE KHAN MEMON AND</u> JAN MUHAMMAD JATT L= 8.0 KM.







5. <u>RECONDITIONING OF ROAD FROM 105 MORI MAHR MITHO SHAIKH MUREEDANI ROAD TO</u> <u>VILLAGE ALI MUHAMMAD RIND VIA MUHAMMAD UMER ARAIN I/C LINKS L= 8.0 KM.</u>







#### 6. <u>RECONDITIONING OF ROAD FROM GHARO KETI BUNDER ROAD AT 48 KM TO VILLAGE ALLAH</u> <u>DINO SHOANI VIA MASHA ALLAH SHADI HALL I/C LINKS L= 3.0 KM.</u>







#### 7. <u>RECONDITIONING OF ROAD FROM SAJJAN KHASHELI ROAD TO VILLAGE SAWAN SHORO AND</u> VILLAGE HAJI VIKYO SHORO I/C LINKS TO VILLAGE JUMAN & SADIQUE SHORO L= 5.50 KM.







#### 8. <u>RECONDITIONING OF ROAD FROM AT 5.0 KM TO CONNECT VILLLAGE ALI HASSAN BAGHIAR</u> <u>VIA DRGAH MISRI SHAH L= 6.0 KM</u>







## 1. <u>RECONDITIONING OF LINK FROM THATTA – JHIMPIR ROAD TO VILLAGE SIDDIQ MUNDO</u> <u>ALONG JAM WAH L= 4.0 KM</u>







2. <u>RECONDITIONING OF ROAD FROM GHARO KETI BUNDER MEERAN STOP AT POINT 7.0 KMS OF</u> <u>SADDAR BRIDGE DHANDHARI ROAD TUKRO STOP TO KHALIFA L= 5.0 KM.</u>





## 3. RECONDITIONING OF LINK FROM VAR CITY TO MUHAMMAD SULEMAN ZANGIANI L= 3.0 KM.





# 4. <u>RECONDITIONING OF ROAD FROM GHARO KETI BUNDER ROAD AT 20 KMS TO VILLAGE</u> <u>DILAWAR SHALMANI & PIR ALLAH DINO SHAH L= 5.50 KM.</u>







## 5. <u>RECONDITIONING OF ROAD FROM GHULAMULLAH VAR ROAD AT 8.0 KMS SAMA STOP TO</u> <u>VILLAGE M AYOUB, QASIM SAMOO & HAJI LASHAN VIA AHMED CHANDIO I/C LINK L= 6.0 KM</u>





#### 6. <u>RECONDITIONING OF ROAD FROM KARACHI - THATTA - HYDERABAD ROAD AT 170 KM TO</u> <u>CONNECT VILLAGE IBRAHIM SHORO L= 6.0 KM.</u>







#### 7. RECONDITIONING OF ROAD FROM JUHO TO BAHMED JATT L= 3.0 KM.






8. <u>RECONDITIONING OF ROAD FROM MIRPUR SAKROTO CONNECT SINDH COASTAL HIGHWAY L=</u> 12.0 KM.







# Annexure IV: List of Existing and Proposed Structures As Climate Resilient Measures

	Existing & Proposed Structures District Thatta						
Sr. No	Existing Culverts in Fair Condition	Existing Culverts in Poor Condition (Demolish & Replacement) (Size 2m * 1.5 m)	Existing Culverts in Poor Condition (Demolish & Replacement) (Size 2m * 2 m)	Existing Culverts in Poor Condition (Demolish & Replacement) (Size 4m * 4 m)	Prposed New Culverts (2*1.5) Single Cell		
1		0+400, 0+600, 2+000, 2+400, 3+000, 3+400, 4+000, 4+100, 5+700, 6+800	1+300		02 Nos		
2		0+500, 0+800	2+200, 5+000	2 Cell 3+500	02 Nos		
3	1+800	0+100, 0+200, 0+400, 0+500, 0+700, 5+600, 5+900, 6+300			03 Nos		



4	4+900	0+500, 0+900, 1+600, 2+300, 2+700, 3+200, 3+800, 3+900, 4+500, 4+600, 4+700, 5+300, 6+100, 6+400, 7+300		02 Nos
5		0+500, 1+400, 2+500, 2+800, 4+500, 5+900, 6+400, 6+800, 7+300	5+500	10 Nos
6	1+100, 1+900	0+900, 1+600		01 Nos
7		0+100, 0+300, 0+800		03 Nos (2m * 2m), 3 No (2m * 1.5m)
8	0+600	2+800, 4+000, 4+900	0+100, 0+500, 3+200, 4+600, 5+700	02 Nos



	Existing & Proposed Structures District Thatta						
Sr. No	Existing Culverts in Fair Condition	Existing Culverts in Poor Condition (Demolish & Replacement) (Size 2m * 1.5 m)	Existing Culverts in Poor Condition (Demolish & Replacement) (Size 2m * 2 m)	Existing Culverts in Poor Condition (Demolish & Replacement) (Size 4m * 4 m)	Prposed New Culverts (2*1.5) Single Cell		
1		0+200, 1+100, 1+200, 1+600, 1+900, 2+300, 2+600, 2+700, 2+800, 2+900, 3+000, 3+100, 3+200, 3+400, 3+800, 4+000			-		
2	1+300, 2+700, 3+750	2+600, 3+900, 4+000	1+000 (2mx2m), 1+200 (2mx2m), 2+800 (3mx3m), 3+000 (3mx3m)		02 Nos		
3					02 Nos		
4		0+300			05 Nos		



5	0+200	0+300, 0+700, 0+800, 1+ 900, 2+100		02 Nos
6	0+600, 1+500, 3+000, 3+700, 3+800 RBOD Bridge, 4+100, 4+500, 5+050, 3+200, 5+500	(These are Pipe Culverts) 1+400, 2+00, 3+300, 3+500, 3+600, 4+200, 4+300, 4+400, 5+000		02 Nos Box Culverts 2 Nos Pipe Culverts
7	0+400	0+500		01 Nos
8	1+900, Km 7+310	1+000, 1+300, 1+500, 1+600, 1+800, 2+500, 3+100, 4+100, 4+300, 4+600, 5+300, 7+300, 7+600, 7+700, 8+000, 8+100, 8+200, 8+600, 8+800, 9+100, 9+200, 9+600	2 Cell 7+300	04 Nos

# Annexure V: Suggested Due Diligence Measures (to be Included in The Contracts)

Stage of Contractual Process	Suggested Due Diligence			
Before bidding	<ul> <li>Ensure that the terms of reference clearly define the supervision en- gineer's responsibilities regarding oversight of, and reporting on, la- bor influx and workers' camps.</li> </ul>			
	<ul> <li>Ensure the team skills in the terms of reference clearly include key staff qualified and experienced in managing similar projects, and demonstrated capacity to manage social and environmental issues, including issues pertaining to community health and safety.</li> </ul>			
	<ul> <li>Ensure that the project GRM is established and its use is widely publicized.</li> </ul>			
Preparation of bidding documents	<ul> <li>Review contract conditions included in bidding documents to: (i) Ensure that the relevant mitigation measures in the ESMP are reflected and budgeted in the contract, (ii) Ensure the ESMP forms part of, and is explicitly referred to in the bidding documents. (iii) Identify relevant provisions (workers, camps, child and forced labor, occupational health and safety, grievance redress, etc.) regulating the contractor's responsibility and identify any gaps, inconsistencies or areas of concern that could be addressed through additional provisions in the "particular conditions of contract" and/or technical specifications (iv) Include a requirement that all workers sign 'Codes of Conduct' governing behavior, and identifying sanctions (v) Clearly identify that training programs on implementing the Codes of Conduct, etc. will be undertaken by external providers</li> <li>Ensure the contract conditions and matrix of consequences clearly specify what type of penalty the contractor will face if the provisions of the ESMP and CESMP including OHS MP are not adhered to— including by subcontractors. This may include direct consequences to contractors in the form of penalties for poor performance on social and environmental matters or specific Performance Securities for ESMP and CESMP</li> </ul>			
	<ul> <li>Ensure that bidding documents clearly indicate OHS standards that are going to be applicable to different aspects of the works</li> </ul>			
	<ul> <li>Ensure bidding documents make clear the responsibilities of the contractor to prepare and adhere to a CESMP based on the ESMP and that no civil works will commence until the CESMP has been approved by the supervision engineer.</li> <li>Ensure the bidding documents detail how the contractor and supervision engineer will be required to monitor and report on the impacts on the local community, issues related to labor influx and workers' camps.</li> </ul>			
	<ul> <li>Propose Key Performance Indicators (KPIs) for Contract Management, reflecting issues and risks specific to the contract and</li> <li>the monitoring plan</li> </ul>			



Bidding evaluation	• Review the bid evaluation report and request to review the bids where appropriate, to verify for the recommended bidder that documents related to the ESMP, safeguard implementation capacity, and other obligations of the contractor required to be submitted with the bid are sufficiently detailed and cover the contractual requirements.
	<ul> <li>Require the contractor's representative or dedicated community liai- son staff to have the ability to communicate in the language of the Borrower and/or the local language.</li> </ul>
	<ul> <li>Verify that the contract management framework identifies clearly lines of communication and that these are formalized and a con- sistent record is provided.</li> </ul>
	<ul> <li>Ensure that the contractor meets the project's OHS requirements for capability and experience.</li> </ul>
After contract signing	<ul> <li>Prior to commencing works, the contractor submits CESMP(s) based on the ESMP, which includes specific management plans for:         <ul> <li>(i) work activities; (ii) traffic management; (iii) occupational health and safety; (iv) environmental management; (v) social management; and (vi) labor influx.</li> </ul> </li> </ul>
	• Supervision engineer reviews and approves the CESMP— with in- puts from appropriate Government agencies—before any works start. For moderate risk sub-projects, the supervision consultants should review and clear the CESMP. Borrower should disclose the approved CESMP.
	<ul> <li>Supervision Engineers must approve occupational health and safety management plan is approved before contractor is mobilized at site</li> </ul>

# Annexure VI: 2<sup>nd</sup> Round of Community Consultation Report





# Sindh Flood Emergency Rehabilitation Project (SFERP)



Community Consultation for Environmental & Social Management Plan (ESMP), Rehabilitation of 2022 Rains/Flood Affected Roads, District Thatta



## 1. Summary

The Community Consultation for Environmental & Social Management Plan (ESMP) aimed to address the environmental and social risks associated with the repair and reconstruction of roads damaged by heavy rains and floods in 2022 in district Thatta. The floods caused significant damage to road networks, leading to disruptions in transportation and posing risks to the communities. The rehabilitation efforts focused on addressing these issues and ensuring safe and reliable road access for the rains/flood-affected areas. Community consultation directly involves the beneficiaries of the selected Roads. Communities of District Thatta were invited for Community consultation at the center village of the assigned road (a common place for everyone, as agreed during invitation sessions with the beneficiaries' communities).

## 2. Objective

The objective of community consultation is to gather input, feedback, and perspectives from the public and residents of different villages in the surrounding proposed roads. In order to notice their concerns, needs, and preferences will be taken into during the construction/rehabilitation process. By doing so, it is made sure that the affected communities are adequately informed and well aware of the planned actions in their neighborhoods for the rehabilitation of roads.

### 3. Methodology

The methodology for conducting community consultation involves a systematic and inclusive approach to engage the beneficiaries and gather their input, feedback, and viewpoints. The first step is to develop a comprehensive plan for the Community consultation process. This includes identifying the objectives of the consultation, defining the target audience, and determining the most appropriate methods and channels for engagement.

SrSr .Nr	Village/Deh	Name of Community Notable	Contact Number	Date	No of Participant
1	Reconditioning / Reconstruction of Road from Baghan Jangisar Road to connect Village Muhammad Hassan Otho via Dargah Khair Shah.	Muhammad Umer Otho	0305-3084983	12-08-2023	16
2	Reconditioning of road from Baghan Jangisar road to Jeety.	Muhammad Ramzan	0305-2126367	12-08-2023	21
3	Reconditioning of road from 105 Mori Shoro Stop at 12.00 Kms Mureedani Chowk to Village Alam Jatt & Noor Muhammad Jatt / Paryo Jatt i/c links.	Rafique Jatt	0321-2463679	13-08-2023	22

#### Table 1: Invitations and Mobilizations Before Consultations



SrSr .Nr	Village/Deh	Name of Community Notable	Contact Number	Date	No of Participant
4	Reconditioning of road from 103 Mori at 18.0 Km to Village Khan Memon and Jan Muhammad Jatt.	Muhammad Yaqoob	0320-3773095	15-08-2023	14
5	Reconditioning of road from 105 Mori Mahr Mitho Shaikh Mureedani road to village Ali Muhammad Rind via Muhammad Umer Arain i/c links.	Abdul Baqi	0323-3021707	13-08-2023	21
6	Reconditioning of road from Gharo Ketti Bunder Road at 48 Km to Village Allah Dino Shoani via Masha Allah Shadi Hall i/c links.	Allah Dino	0321-3467128	14-08-2023	21
7	Reconditioning of road from Sajjan Khasheli Road to Village Sawan Shoro and Village Haji Vikyo Shoro i/c links to village Juman & Sadique Shoro.	Hyder Ali Shoro	0300-2275782	15-08-2023	22
8	Reconditioning of road from at 5.0 Km to connect village Ali Hassan Baghiar via Drgah Misri Shah.	Basar Khaskheli	0322-3143903	14-08-2023	16
9	Reconditioning of link from Thatta Jhumpir Road to Village Siddiq Mundo along Jam Wah.	Siddique Mundo and Pyar Ali	0318-2003566	16-08-2023	14
10	Reconditioning of road from Gharo Keti Bunder Meeran Stop at point 7 Km of Saddar Bridge Dhandhari Road Tukro Stop to Khalifa.	Abdul Majeed Bhail	0306-6643052	14-08-2023	12
11	Reconditioning of link from Var City to Muhammad Suleman Zingiani.	Saifullah Baloch	0317-3025136	15-08-2023	17
12	Reconditioning of road from Gharo Keti Bunder road at 20 Km to village Dilawar Shalmani & Pir Allah Dino Shah.	Abdullah Sholani	0322-3073997	13-08-2023	23
13	Reconditioning of road from Ghulamullah Var road at 8 Km Sama Stop to village Muhammad Ayoub, Qasim Samoo & Haji Lashan via Ahmed Chandio i/c link.	Haji Khan Lashari	0300-0073496	15-08-2023	11
14	Reconditioning of road from Karachi Thatta - Hyderabad road at 170 Km to connect village Ibrahim Shoro.	Ibrahim Shoro	0300-3032709	16-08-2023	24
15	Reconditioning of road from Juho to Ahmed Jatt.	Abdul Wahid Memon	0333-2690656	13-08-2023	27
16	Reconditioning of road from Mirpur Sakro to connect Sindh Coastal Highway.	Khan Muhammad	0321-2861461	14-08-2023	14





## 4. Preparatory Meeting

An internal meeting was arranged by the team to develop a proper plan for conducting visits such as meeting with notables, invitation and mobilization to communities before consultation, engaging and ensuring women's participation. Invitation letters (blank & filled) as well as Photographs for invitations have been attached as Annexure – A and Annexure – B respectively. The following table depicts the details regarding the names of notable from the respective community, the date of invitation and nos. of participants during invitation sessions.

#### 5. Community mobilization and invitation

The consultation process also included focus group discussions. All of the communities near the roads were interested in this rehabilitation project. In general, people thought that this project would reduce travel time. The community expressed the following issues/concerns associated with the proposed project. Annexure – C shows the photos of the consultation session proceedings and attendance sheet.

A team comprising the Project Implementation Unit (PIU) SFERP, road rehabilitation component, along with the Design Consultant, responds to the concerns of the community at the spot satisfactory.

#### 6. Welcome Note from the Consultation Team

The consultation Team welcomed respectable beneficiaries of Roads and community notables and gave a brief introduction to the Team and about the scope and components of the subproject & SFERP (such as Rehabilitation of 2022 Flood affected roads,). The Team encouraged participants of the consultation to ask questions and share valuable suggestions.

Sr. no	Village/ Deh	No. of Participants	Main Concerns of Participants	Responses
1	Muhammad Hassan/Mole Dino Otho	295 (attendance sheet has been annexed.)	Mr. Ghulam Mustafa shared his about the Reconditioning of Culverts alongside their village	The Consultation Team responded that the program is about rehabilitation and restoring the roads that were damaged by the rain/flood in 2022. They further added that design and survey have already been taken. It has been ensured that the maximum number of culverts as per design has been introduced to make the subproject more resilient to rains/floods. Culverts alongside villages will be rehabilitated to stop water from entering.

 Table 2: Details of Public Consultations with Project Beneficiaries



Sr. no	Village/ Deh	No. of Participants	Main Concerns of Participants	Responses
2	Ahmed Jatt		Mr. Muhammad Suleman shared his concern about the provision of road shoulders during the rehabilitation and plantation of Mangroves Trees, and suggested livelihood activity.	The Consultation Team briefed that the existing road will be rehabilitated with width of 12 ft. The consultation Team further briefed that road beneficiaries will be encouraged to mangrove plantations to avoid sea erosion with the collaboration of the Forest & Coastal Development department, this practice will keep a healthy environment to avoid any further damage in the future, Suggestions will be shared with PIU.
3	Mureedani Chowk		Mr. Ahmed Khan shared his concern that rehabilitation work can be noisy, dusty, and disruptive to the normal routines of residents.	Consultation Team briefed that all the precautionary measures will be taken during rehabilitation such as informing the community well in advance about the planned rehabilitation activities/work schedule, and its duration, and minimizing disruptions during peak hours, such as rush hours or times when schools are starting or ending. Consider implementing work-hour restrictions for particularly noisy activities, Use water spraying or dust suppressants to keep dust levels down and involve the community in the planning process, allowing them to provide input on work schedules and potential mitigation strategies.
4	Ali Muhammad Rind		Mr. Rafique shared his concern about waterborne diseases in the	The Consultation Team briefed that it will properly manage and dispose of construction waste to



Sr. no	Village/ Deh	No. of Participants	Main Concerns of Participants	Responses
			vicinity.	prevent it from contaminating water sources or causing pollution. Coordinate with local health authorities to ensure that appropriate measures are in place to monitor and address potential health risks. Frequent spread of deadly diseases like hepatitis will be shared with the relevant department via PIU.
5	Dilawar Sholani		Mr. Munawar Ali shared his concern about the employment opportunity during the rehabilitation.	The Consultation Team briefed that the project aims to create employment opportunities Contractor will hire people from nearby villages as non-skill labour in the rehabilitation subproject, such as construction workers, laborers.
6	Jangisar/Abdul Hakeem		Ms. Zehran shared her concern for the role of women in the rehabilitation of roads.	The Consultation Team briefed that the Project empowers women at all levels. Women can take on leadership roles in community- based organizations and committees focused on road rehabilitation. They can mobilize the community, raise awareness about the project, and ensure that women's voices are heard in decision-making processes. Women can be engaged in environmental conservation efforts during rehabilitation. This might include planting trees, maintaining green spaces, or participating in erosion control activities.



Sr. no	Village/ Deh	No. of Participants	Main Concerns of Participants	Responses
7	Allah Dino Sholani		Mr. Urs shared his concern regarding quality work during rehabilitation and requested for Rehabilitation of the Protection wall.	The Consultation Team responded that quality construction would take place from the start till the completion of the road. Through Monitoring via a Supervisory Consultant at the same time, it is the responsibility of all stakeholders and beneficiaries of the road to own and look after the roads during construction and after completion. The heavy loads on roads and Agricultural equipment input heavy machines can decrease the life of the road. This should be avoided. Whereas Villages are located alongside the Protection wall of the sea and the wall has heavy cracks that can cause a flood, suggestions for rehabilitation of the wall will be shared with PIU.
8	Ali Hassan baghiar		Mr. Muhammad Rahim wants to know about livelihood activity under SFERP.	The Consultation Team responded and took suggestions for example communities can be engaged in livelihood activities for which men and women could be paid for the plantation of trees, cleaning of streets at the village level, rehabilitation of water courses alongside the road, for strengthen agriculture and economic status of households these suggestions will be shared with PIU for further implementation.
9	Khalifa.		Mr. Ahmed Bhail suggested	The Consultation Team responded and shared the



Sr. no	Village/ Deh	No. of Participants	Main Concerns of Participants	Responses
			complaining Box at the Camp area.	landline number and email address with the community for registering complaints, also suggested that a complaint Box should be placed at the village level for further sharing of relevant addresses. The consultation team further added that complaints regarding road rehabilitation will be entertained on a priority basis.
10	Haji Ghazi Khan Hadia Baloch		Mr. Abdul Shakoorshared his concern for closed schools and BHU.	The Consultation Team responded that the complaint regarding the closed school and BHU will be shared with PIU for further necessary action.
11	Muhammad Suleman Zingiani		Mr. Pir Bux shared his concern about safe drinking water.	The Consultation Team responded that clean drinking water is a basic need for a healthy life, and the request will be forwarded to PIU to provide an R- O Plants/safe drinking water scheme.
12	Haji Lashan		Mr. Khuda Bux shared his suggestion for the plantation of trees.	The Consultation Team responded that trees keep the atmosphere healthy, communities will be encouraged to plant maximum trees alongside roads, and communities will be brought in contact with the relevant department for the provision of plants.
13	Village Khan Memon		Mr. Abdullah shared his concern regarding quality work during rehabilitation.	The Consultation Team responded that quality construction would take place from the start till the completion of the road. Through monitoring via a



Sr. no	Village/ Deh	No. of Participants	Main Concerns of Participants	Responses
				Supervisory Consultant at the same time, it is the responsibility of all stakeholders and beneficiaries of the road to own and look after the roads during construction and after completion. The heavy loads on roads and agricultural equipment input heavy machines can decrease the life of the road.
14	Sawan Shoro		Mr Waheed Shoro shared his concern about Stagnant Water standing on almost 10 acres of land.	The Consultation Team responded that managing, preventing and draining out stagnant water (from floods or rains) is essential for community health, environmental preservation, and the prevention of disease transmission. By taking proactive measures to address stagnant water, communities can create safer and more sustainable living environments. This serious issue will be shared with PIU for a solution via the relevant department.
15	Ibrahim Shoro.		Ms. Sita shared her concern for the livelihood of women	The Consultation Team responded that Women can create and sell traditional crafts such as pottery, weaving, embroidery, and beadwork for labor appreciation can be paid and ready products will be sold in the market, This type of activity will stabilize household economic status. Suggestions will be shared with PIU to incorporate into the livelihood component of SFERP.



Sr. no	Village/ Deh	No. of Participants	Main Concerns of Participants	Responses
16	Siddiq Mundo		Mr. Mashooq Ali shared his concern about the employment opportunity during the rehabilitation.	The Consultation Team briefed that the project aims to create employment opportunities. The contractor will be hiring residents for various roles in the rehabilitation project, such as construction workers, laborers.

#### 7. Conclusion

The community consultation process for the proposed project has been a significant step towards engaging the community, gathering valuable input, and ensuring transparency in decision-making. The PIU provided a platform for residents, businesses, community organizations, and other stakeholders to voice their concerns, suggestions, and priorities regarding the proposed project. Issues such as road safety, accessibility, traffic management, and gender mobility as key areas of focus. The input received from the community has provided valuable insights that will inform the decision-making process moving forward.



#### Annexure - A: Dissemination of Invitation Letters (Blanked & Filled)





## Annexure – B Invitation Photographs



1-Reconditioning / Reconstruction of Road from Baghan Jangisar Road to connect Village Muhammad Hassan Otho via Dargah Khair Shah



2-Reconditioning of the road from Baghan Jangisar Road to Jeety.







3-Reconditioning of the road from 105 Mori Mahr Mitho Shaikh Mureedani road to village Ali Muhammad Rind via Muhammad Umer Arain i/c links. 4-Reconditioning of the road from 103 Mori at 18.0 Km to Village Khan Memon and Jan Muhammad Jatt.



5-Reconditioning of the road from 105 Mori Shoro Stop at 12.00 Kms Mureedani Chowk to Village Alam Jatt & Noor Muhammad Jatt / Paryo Jatt i/c links.



6-Reconditioning of the road from Gharo Ketti Bunder Road at 48 Km to Village Allah Dino Shoani via Masha Allah Shadi Hall i/c links.







8-Reconditioning of the road from Sajjan Khasheli Road to Village Sawan Shoro and Village Haji Vikyo Shoro i/c links to village Juman & Sadique Shoro 09-Reconditioning of a link from Thatta Jhumpir Road to Village Siddiq Mundo along Jam Wah.



10-Reconditioning of the road from Gharo Keti Bunder Meeran Stop at point 7 Km of Saddar Bridge Dhandhari Road Tukro Stop to Khalifa.



11-Reconditioning of a link from Var City to Muhammad Suleman Zingiani.







12-Reconditioning of the road from Gharo Keti Bunder road at 20 Km to village Dilawar Shalmani & Pir Allah Dino Shah. 13-Reconditioning of the road from Ghulamullah Var road at 8 Km Sama Stop to village Muhammad Ayoub, Qasim Samoo & Haji Lashan via Ahmed Chandio i/c link.



14-Reconditioning of the road from Karachi ThattaHyderabad road at 170 Km to connect villageIbrahim Shoro.



15-Reconditioning of the road from Juho to Ahmed Jatt.





16-Reconditioning of road from Mirpur Sakro to connect Sindh Coastal Highway.





# Annexure –C: Photo log & Attendance Sheet of Consultation Proceedings


















































Environmental & Social N arranged by Project Implei P&	Public Consultation on lanagement Plan (ESMP) for Rehabi of Rain/Flood Affected Roads mentation Unit (PIU) under Sindh Floo Project (SFERP), DD Component, Government of Sir	litation/Recondition d Emergency Rehabi ndh	جي بعالي/ بعالي لاءِ د (Plu) پاران ترتيب ڏنل ۽ (titation	عوامي مثاورت تي مامولياني يو سماجي انتظام جو مصوبو (ESMP) برمان / يوڏ مثاثر روڊن جي بعالي / بعالي لاءِ سڌ فلڊ ايعرجنس بعالي مصوبي (FFRP) تحت يروجيڪٽ أميليمينٽيش يونت (PIU) پاران ترتيب ڏنل ، P&CD جزوء حڪومت سنڌ				
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	Signature/ Thumb Impression دستخط / انگولې جو نشان	Address: Village Name. Taluka اگډريس: ڳوٺ ڊو نالو، تعلقو	/Occupation Profession پېشو	CNIC No/ Mobile No. تمبر / موبائل نمبر	Fathers Name پي <sup>ءَ</sup> يو نالو	Name نالو	Sr. No ریل نمبر
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Public Consultation on Environmental & Social Management Plan (ESMP) for Rehabilitation/Reconditioning of Rain/Flood Affected Roads arranged by Project Implementation Unit (PIU) under Sindh Flood Emergency Rehabilitation Project (SFERP), P&DD Component, Government of Sindh

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Project Implementation Unit (PIU)

عولمي عتاورت تن مادولياتي ع سماجي انتظام هو هنعوبو (ESMP) برسات/ بوڏ هتاثر روڊن جي بحالي / بحالي لاءِ سنڌ فلڊ ايمرجنسي بعالي متعوبي (SFERP) تعت پروجيڪ امپليمينٽيشن يونت (PIU) پاران ترتيب ڏنل ، P&UD جزو، حڪومت سنڌ

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