

PUNJAB CITIES PROGRAM (PCP)

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

Sector: Roads

Sub-Project

“Improvement of 03 Roads in MC Khanewal”

MC

November 2022

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ACRONYMS

AHs	Affected Households	LG & CDD	Local Government & Community Development Department
DPO	Deputy Program Officer	MO-I	Municipal Officer Infrastructure
CO	Chief Officer	MO-P	Municipal Officer Planning
CPMT	Central Program Management Team	PEQS	Punjab Environmental Quality Standards
DPO	Deputy Program Officer	NOC	No Objection Certificate
EHS	Environment Health & Safety	OHS	Occupational Health & Safety
EIA	Environmental Impact Assessment	OPs	Operational Policies
EMMP	Environmental Management and Monitoring Plan	PC-I	Planning Commission Form-I
EPA	Environment Protection Agency	PCP	Punjab Cities Program
EPD	Environment Protection Department	PCRs	Physical Cultural Resources
ESFPs	Environmental & Social Focal Persons	PD	Project Director
ESM	Environmental & Social Management	PDO	Program Development Objectives
ESMF	Environmental & Social Management Framework	PEPA	Punjab Environment Protection Act
ESMP	Environmental & Social Management Plan	PMDFC	Punjab Municipal Development Fund Company
ESMMP	Environmental & Social Management and Monitoring Plan	PMU	Project Management Unit
ESSSs	Environmental & Social Safeguards	PPEs	Personal Protective Equipment's
GoP	Government of the Punjab	PO	Program Officer
GRC	Grievance Redress Committee	RoW	Right of Way
GRM	Grievance Redress Mechanism	SMP	Social Management Plan
HIV/AIDS	Human Immunodeficiency Virus/ Acquired Immuno-Deficiency Syndrome	SOPs	Standard Operating Procedures
HSE	Health Safety & Environment	SPOs	Senior Program Officer
IEE	Initial Environmental Examination	WB	World Bank
ILO	International Labor Organization		

EXECUTIVE SUMMARY

Government of Punjab (Govt. of Punjab) sought support from the World Bank for the economic growth of urban sectors in Punjab and launched Punjab Cities Program (PCP). Program is expected to achieve overarching goals of ending poverty and promoting shared prosperity by delivering improved urban infrastructure inclusively and in ways that enhance economic growth and development in the participating cities. The Project has a number of financial, social, economic and environmental benefits, including institutional development, rehabilitation and improvement of municipal services, capital investments, better quality of life and employment generation. In addition, a large number of secondary benefits are also likely to accrue in the medium to long term such as institutional reforms at the local level. Environmental and social management under the program will be largely based on the existing legal, regulatory and institutional systems in Pakistan and in the Punjab province. PCP IPF Window (technical assistance component) supports the strengthening of social and environmental risk management systems in the participating cities. It will finance the strengthening of: a) social and environmental focal points in each city; b) the creation of social and environmental management system at the city level; and c) rolling out a training program by PMDFC for city officials.

This Environmental and Social Management Plan (ESMP) is prepared according to the World Bank Core Principles for PforR financing modality and Environmental and Social laws of Government of Punjab (GoPb). It will be used to identify and mitigate the environmental and social impacts that may emerge during implementation of proposed Sub-project “Improvement of 03 roads in MC Khanewal ” which will be executed by MC from the financial grant of PCP. This ESMP follows the social and environmental appraisal and compliance as mentioned in the Environmental and Social Management Framework (ESMF) of PCP.

Sub-project Summary:

Scope of Work	Sub-project involves improvement of 03 roads at MC <ol style="list-style-type: none"> 1. Dualization of SP-Chowk to Jaswant Nagar Chowk (0.97 km) 2. Resurfacing of SP Chowk to Railway Station chowk to underpass 3. Widening of road Football Chowk to Stadium Road Road wise detail scope of work is given in chapter 02.
Location	<ol style="list-style-type: none"> 1. SP-Chowk to Jaswant Nagar Chowk 2. SP Chowk to Railway Station chowk to underpass 3. Football Chowk to Stadium Road
Sub-project Cost	231.90million/- PKR
ESMP Implementation Cost	1,652,800/- PKR
Sub-project Duration	6 months approx. (02 months on each road) 30-40 workers/labor will be engaged
Major Work Activities	Major common activities on these three roads are given below: <ul style="list-style-type: none"> • Geometric Improvement and • Rehabilitation of Existing • Pavement Structure • Pavement Marking • Street Lighting • Improvement of drainage system
Executing Agency	MC
Monitoring Agency	Punjab Municipal Development Fund Company (PMDFC)

<i>Sub-project Financed By</i>	World Bank under Punjab Cities Program (PCP)
<i>Design & Resident Supervision Consultants</i>	JERS Consultants
<i>Environmental Category</i>	E-2
<i>Social Category</i>	S-2

Environment & Social Management:

This ESMP report presents the Sub-project site-specific baseline data, identification, assessment and evaluation of project impacts and preparation of environmental management and monitoring plan for mitigation of adverse impacts that may arise due to the proposed project interventions.

Screening of Impacts:

Environment and social screening checklist included in the ESMF to screen the Sub-projects has been used to screen the impacts of rehabilitation of road surface Sub-project and filled as per the environmental and social survey conducted in the Sub-project area. The screening checklist suggested that environmental and social impacts of the Sub-project are minor to moderate and temporary and can be mitigated and managed with prevailing good civil construction measures.

Impact Assessment:

Most of the Project's environmental and social impacts will be beneficial. However, during construction phase, there will be some negative environmental and social impacts including construction waste generation during dismantling of road, noise pollution and temporary disturbance in the accessibility of residents due to road closure. Temporary accessibility to the shops may be disturbed for 4/5 days only work will be done in parts (at a time whole community within RoW will not be affected for which contractor will be instructed to do work accordingly, while there is already open space available outside the shops for accessibility because the MC RoW is wide). There will be no impact on PCRs as project interventions are outside of the PCR boundaries. There many trees (MC owned) are Road 01 and Road 02. Which are not being affected during construction. There are no environmentally/socially sensitive receptors inside and outside RoW of the Sub-project. There are community safety and occupational safety prospects envisaged. Land acquisition is not required in the sub-project and Involuntary Resettlement Checklist was also used during the field survey to assess the social impacts.

Mitigation Measures:

These impacts require appropriate mitigation and management measures to curtail them. The Sub-project specific measures suggested are; a) ESFPs¹ will conduct regular visit to the construction sites and fortnightly by DPO ESM to monitor the compliance of E & S aspects (b) Dismantling material will be disposed of simultaneously (c) it will be ensured to execute the work in portions to minimize the temporary disturbance in accessibility (d) public safety will be ensured (e) workforce will be provided with the PPEs (f) Corona SOPs will be followed (g) Contractor will use efficient machinery and equipment's to reduce noise and air pollution impacts (h) Contractor will ensure public convenience during the course of Sub-project (i) Temporary accessibility to the shops and placement of temporary vendors may be disturbed for 4/5 days only for which contractor will be instructed to execute that part of work while there is already open space available outside the shops for accessibility.

¹ MOI Env Focal Person, MOP Social Focal Person

Grievance Redress Mechanism (GRM):

GRM for subproject implementation will cater to all subproject beneficiaries. The GRM mechanism is based on two-tier grievance redress committees—at MC Khanewal, PMDFC/LG&CDD level. At construction site number of GRC members will be displayed.

Stakeholder Consultations:

Stakeholder consultations were carried out during preparation of ESMP. Interviews were undertaken with primary stakeholders to discuss present working condition of road and improvements recommended. Discussion regarding their livelihood was also conducted. Meetings were held with MC Khanewal Officials (CO, MOI, Sub-Engineers) and key environmental and social issues were discussed. Consultations revealed that overwhelming majority of the respondents were not satisfied with the current status of road as road is eroded water ponding found due to poor drainage system. All the respondents were in favor of rehabilitation of roads.

Section 1

INTRODUCTION

1.1. Punjab Cities Program (PCP)

Punjab Cities Program (PCP) Program-for-Results (PforR) will support participating MC Khanewal to improve their urban management and service delivery performance. The operation will provide capacity-building and institutional support to 16 secondary cities in Punjab, with an estimated total population of 4.1 million, half of whom are female.

Program Development Objectives (PDO) *is to strengthen the performance of participating urban local governments in urban management and service delivery.*

By achieving the Program Development Objective (PDO), the operation is expected to contribute to the overarching goals of ending extreme poverty and promoting shared prosperity by delivering improved urban infrastructure on an inclusive basis and in ways that enhance economic growth and development in the participating cities. Achievement of the PDO will also make a significant contribution to attaining Sustainable Development Goal-11 (sustainable cities and communities).

1.2. Environment & Social Management Framework (ESMF)

Environmental and Social Management Framework (ESMF) has been prepared for Punjab Cities Program (PCP). ESMF will facilitate and technically assist the MC Khanewal in better understanding and compliance of social and environmental management processes and procedures as per the World Bank Core Principles under PforR financing modality, local policies and legal framework. Under ESMF procedures, each Sub-project will be screened for the severity and extent of environmental and social impacts. All the Sub-projects will be screened through an environmental and social screening checklist and those having negligible environmental and or social impacts will require no further assessment. Sub-projects having some negative but localized environmental and or social impacts will require a generic Environmental and Social Management Plan (ESMP) or SMP, while those having environmental impacts of significant nature or they come under Schedule I or II of PEPA Review of IEE/EIA Regulation 2000 will require to conduct the detailed studies (IEE/EIA) and further submission of reports to PEPA for review and to obtain NOC/ environmental approval.

1.3. Environment & Social Assessment Categories

1.3.1. Environmental Categories:

Depending on size, cost, location and the nature, scheme will have varying impacts on city environment. The rigorousness of environmental assessment requires identifying and mitigating the impacts, largely

dependent upon the complexities of scheme. To facilitate effective screening, ESMF categorized schemes into three categories viz. E-1, E-2 and E-3.

E-1 schemes are those wherein major environmental impacts are foreseen;

E-2 schemes are expected to have only moderate environmental impacts; and

E-3 schemes are the schemes with negligible environmental impacts and hence, these can be termed as “environmentally benign”.

1.3.2. Social Categories:

Based on the number of households that may be affected by the Sub-project, i.e. Affected Households (AHs) and magnitude of impacts, schemes are categorized as S-1, S-2 and S-3.

S-1 schemes are those schemes that will impact more than 40 households, and are expected to have significant negative social consequences;

S-2 schemes are those which will impact less than 40 households and are expected to have significant social consequences affecting local inhabitants

S-3 schemes are not expected to have any significant adverse social impacts;

1.3.3. Environment & Social Assessment Category of the Sub-project

Sub-project has been screened to assess the environment and social impacts anticipated as per scope of work. As per findings of the multiple site visits conducted, discussion with officials and stakeholder consultations, Sub-project area does not fall in any of the wildlife habitat or reserve area/environmental sensitive areas; therefore, it will not cause any harmful impact directly or indirectly during execution of civil works. Sub-project will have no irreversible environmental and social impacts. There are some moderate environmental impacts as per scope of work which will be minimized by following mitigation measures mentioned in Table 03. *Sub-project categorized as E-2 and ESMP is prepared under this category.*

Involuntary land acquisition is not required, but there are four (04) mobile vendors to be relocated impacts on livelihoods will be moderate nature because, currently they are located on left side of Road 01 and during construction phase they will be relocated on the right side of road nor restrictions on access of the local community. Anyhow, sub-project may have temporary social impacts related to community health and safety and accessibility *Therefore, Sub-project is categorized as S-2. As there no negative impact in terms of livelihood and means of livelihoods, business loss and any other economic loss is anticipated, Social Management Plan has made part of the ESMP.*

1.4. Environment & Social Management Plan (ESMP)

The Environmental and Social Management Plan (ESMP) is prepared in compliance with the guidelines provided in the Environmental and Social Management Framework (ESMF) for the said Sub-project: ✓

1.5. Objectives of ESMP

The primary objectives of the ESMP are as follows:

- To facilitate the implementation of the identified mitigation measures.
- To define responsibilities of the project proponents, Contractor, and other members of the project team.
- To define a monitoring mechanism and identify monitoring parameters in order to ensure complete implementation of all mitigation measures and ensure effectiveness of the mitigation measures.

1.6. Sub-Project Team

Following team members participated during the preparation of ESMP.

Table 1: Composition of Sub-project Team

Sr. No	Name	Designation	Department
01	Iftikhar Bangash	Chief Officer	MC Khanewal
02	Shahbaz Ali	Sub Engineer	MC Khanewal
04	Mr. Ammar Waraich	DPO-ID	PMDFC
05	Mr. Ghulam Murtaza	PO ID	PMDFC
05	Tehmina Kiran	PO-ESM	PMDFC

Section 2

SUB-PROJECT DESCRIPTION

2.1. Area Description

Three roads are proposed for improvement Road 01 starts from Jaswant Nagar chowk to SP Chowk Road 02 immediately starts from SP chowk to Railway Station chowk to underpass. Road 03 football chowk to Stadium Road. Sub-project area is commercial in nature. The present physical condition of the site is presented in the following pictures.



Figure 2: Road 01 condition of road and width RoW of Road



Figure 1: Road 01. Jaswant Nagar Chowk start point



Figure 3: Road 02: condition of road

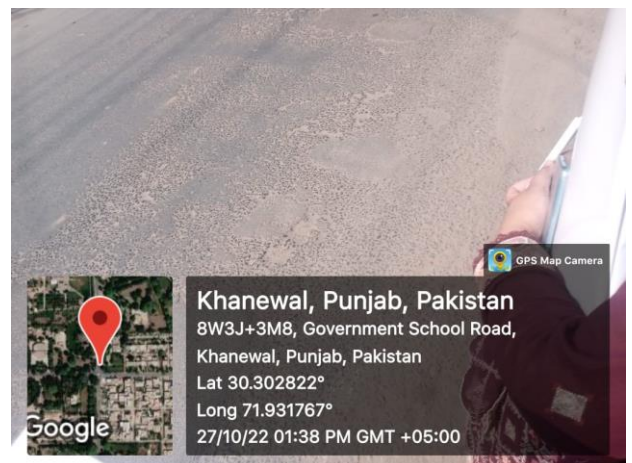




Figure 5: condition & RoW of Road 03



Figure 4: Road 03; start point Football chowk

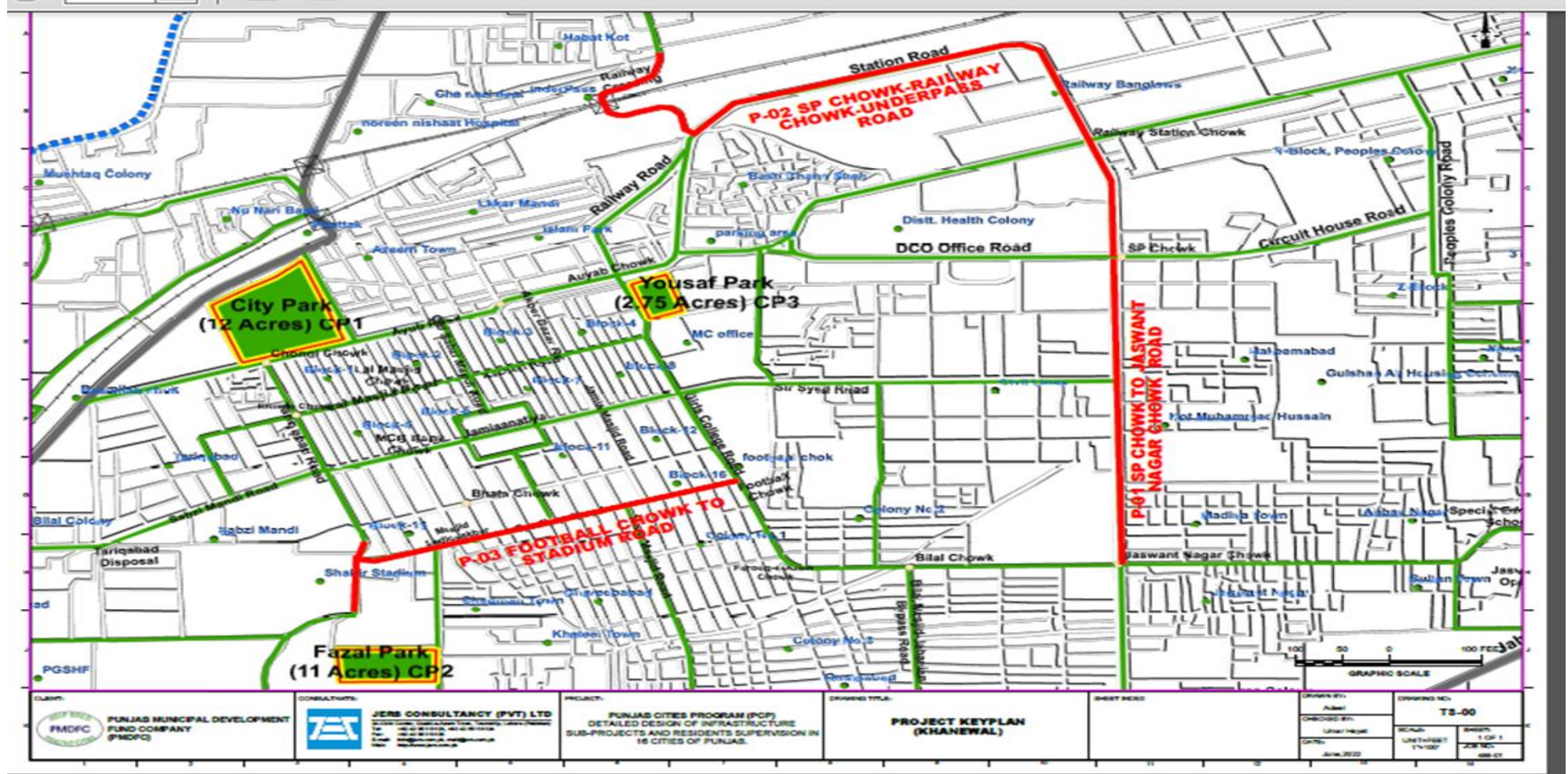


Figure 6: Map of showing Three roads of MC Khanewal

2.2. Problem Statement

Existing geometry of the roads is not well enough to sustain the smooth traffic flow. Existing pavement structure of the roads is deteriorated which needs the rehabilitation to bear the traffic loading and better riding quality. Existing condition of the road network is not good enough to bear the traffic load. It's causing excessive delays, increasing travel time, occurring accidents at intersections and vehicles wear and tear due to the poor condition of pavement surface. Increasing traffic load requires the improvement of existing road network.

2.3. Description of Work Activities

Major activities to be carried out on three roads are given below:

- Geometric Improvement and
- Rehabilitation of Existing
- Pavement Structure
- Pavement Marking
- Street Lighting
- Improvement of drainage system

Table 2: Scope of work of Three Roads, MC Khanewal

Road No	Name of Road	Length (km)	Existing carriage way type	Proposed carriage way type	Pavement Type	Existing width (ft)	Proposed Width (ft)	Shoulder (ft) both side
1.	SP-Chowk to Jaswant Nagar Chowk	0.97	Single	Dual	Asphalt Concrete	20	40	3,3
2.	SP Chowk to Railway Station chowk to underpass	1.9	Single	Single	Overlay	24	24	3,3
3.	Football Chowk to Stadium Road	1.07	Single	Single	Asphalt Concrete	16	34	5,5

Improvement of draining system mostly involved manhole raising & manhole cover.

2.4. Cost estimates

Total cost of the scheme: 231.90 million/- PKR

ESMP implementation cost: 1,652,800- PKR (Break-up of this cost described below in Table 04)

2.5. Duration of The Sub-project

Implementation Schedule/Duration: 06 month maximum. (Approx 02 months on each road)

No. of workers/labor involved: 30-40 approx.

2.6. Site Alternative

Sub-project involves dualization of road 01, resurfacing of road 02 and widening of Road 03 on the basis of need so there is no site alternative envisaged because no other site available to serve this purpose.

Section 3

LEGAL & POLICY FRAMEWORK

3.1. Introduction

The Government of Pakistan and Government of Punjab (GOP) have enacted a range of laws, regulations, policies and procedures for management and mitigation of social and environmental impacts for infrastructure development projects. This chapter discusses the relevant and applicable laws and WB Core Principles for PforR financing modality applicable for PCP to deal with the environmental and social issues.

3.2. National and Provincial Laws, Regulations, Procedures and Guidelines dealing with the Environmental & Social Aspects

Sr#	Applicable laws, regulations, Guidelines	Relevancy/Applicability
I.	Punjab Environmental Protection Act 2012	PEPA does not require IEE or EIA of rehabilitation projects
II.	PEPA Review of IEE/EIA Regulations, 2000	IEE/EIA regulations do not require IEE or EIA of rehabilitation projects.
III.	Notification No.SO (Tech)/EPD/1-26/2004 issued by Government of the Punjab, Environment Protection Department "Delegation of Powers for Environmental Approvals Rules 2017	ESMP do not require review and subsequent NOC from the relevant authority
IV.	Punjab Local Government Act, 2019	Follows the environmental and social assessment procedures stated in PEPA 2012
V.	Punjab Environmental Quality Standards for Motor Vehicle Exhaust and Noise	Applied to vehicles used by the contractor
VI.	Punjab Environmental Quality Standards for Ambient Air	Compliance required during construction activities
VII.	Punjab Environmental Quality Standards for Noise	Compliance required during construction activities
VIII.	Punjab Restriction of Employment of Children Act 2016	Compliance required during construction activities
IX.	Protection Against Harassment of Women at the Workplace Act, 2010	Compliance required during construction activities

Sub-project doesn't fall in any schedule of IEE/EIA project categories; thus, it doesn't require any NOC from EPD.

3.3. World Bank Environment and Social Core Principles for PforR Financing and Applicability on Sub-project

Core Principles	Applicability
<p>Core Principle 1 Environmental and social management procedures and processes are designed to (a) avoid, minimize, or mitigate against adverse impacts; (b) promote environmental and social sustainability in program design; and (c) promote informed decision making relating to a program's environmental and social effects.</p>	<p>ESMP prepared under the light of this Principle in order to mitigate negative impacts envisaged in this Sub-project. ESMP implementation will help in achieving environmental and social sustainability</p>
<p>Core Principle 2 Environmental and social management procedures and processes are designed to avoid, minimize, and mitigate against adverse effects on natural habitats and physical cultural resources resulting from the program</p>	<p>Table 08 prepared to mitigate all minor impacts anticipated during the course of the Sub-project.</p>
<p>Core Principle 3 Program procedures ensure adequate measures to protect public and worker safety against the potential risks associated with (a) construction and/or operations of facilities or other operational practices developed or promoted under the Program and (b) exposure to toxic chemicals, hazardous wastes, and otherwise dangerous materials</p>	<p>All the mitigation measures have been incorporated in the Table 08 to address risks associated with workers and community health and safety. Contractor will ensure compliance with these attributes.</p>
<p>Core Principle 4 Land acquisition and loss of access to natural resources are managed in a way that avoids or minimizes displacement, and affected people are assisted in improving, or at least restoring, their livelihoods and living standards</p>	<p>This core principle doesn't trigger in this Sub-project as no land acquisition is required during the rehabilitation of existing road.</p>
<p>Core Principle 5 Due consideration is given to cultural appropriateness of, and equitable access to, program benefits, giving special attention to rights and interests of indigenous peoples and to the needs or concerns of vulnerable groups.</p>	<p>No indigenous/Vulnerable groups exist along with alignment of the Sub-project.</p>
<p>Core Principle 6 Avoid exacerbating social conflict, especially in fragile states, post-conflict areas, or areas subject to territorial disputes.</p>	<p>This principle is not relevant for this Sub-project.</p>

3.3.1. World Bank Environmental, Health and Social Guidelines

The principal World Bank publications that contain environmental and social guidelines are listed below.

- Environment, Health, and Safety (EHS) Guidelines prepared by International Finance Corporation and World Bank in 2007
- Pollution Prevention and Abatement Handbook 1998: Towards Cleaner Production
- Environmental Assessment Sourcebook, Volume I: Policies, Procedures, and Cross-Sectoral Issues.
- Social Analysis Sourcebook
- WB Group Gender Strategy

Detailed of related EHS can be found in Annex II.

3.3.2. PMDFC Environment Health and Safety SOPs for labor/workers (including Women)

EHS SOPs for labor/workers (including women workers) will be applicable during the labor work and made part of the contractual agreement of the contractor

3.3.3. COVID-19 SOPs

During the construction and implementation of the Sub-project, the Standard Operating Procedures (SOPs) will be strictly followed during construction activities, stakeholder consultations or applicable in any other relevant aspect. The SOPs attached as Annex-III

Section 4

ENVIRONMENT & SOCIAL BASELINE

4.1. City profile

Khanewal is located at 30°-18' North and 71°-55' East with an altitude of 135 meters above mean sea level at a distance of 45 Km in North East of famous city of Multan. It is located on the main arterial highway N-5 of the country and hence connected to all cities of Pakistan through road and rail links. The climate of the district Khanewal is hot and dry in summer and cold in winter.

4.2. Surface water Body

Small Rajbah Canal is passing from the main city Khanewal. However, at subproject roads no surface water body (canal, river, stream, lake, wetland) is found within 250 meters.

Small water course is at right side of road 02 and entering ion rest house. This water course is originating from Rajbah canal of Khanewal city. The purpose of water course is to watering the garden and trees present in government official building.



Figure 7: small water course at road 02

4.3. Solid Waste Management

These roads are commercial and solid waste management is responsibility of MC Khanewal. Under PCP MC Khanewal has purchased the waste container and are installed at roads to collect waste. There is landfill site in Khanewal city and this site 1.5 km away from subproject site.

4.4. Sewerage Facility

The major problems of the sanitation sector are large number of blocked sewers due to inadequate maintenance and undersize pipes, many areas served by open drains, poundage in low-income areas due to the absence of sewer system, and no wastewater treatment. At Sub-project Roads the sewerage system is in good condition and can be lasting up to 10 years.

4.5. Connectivity

These roads are main source of connection with bypass roads.

4.6. Environmentally Sensitive Receptors

For this Sub-project, no wetland, estuarine, river, protected areas lie within scope of work of scheme area and no significant environmental impacts has been envisaged, however mitigation measures have been recommended against less significant environmental concerns. But there are numerous MC owned mature trees, on both sides of roads 01 & 02. These trees are not in RoW of roads which are being executed.

4.7. Flora & Fauna

But there are numerous MC owned mature trees Sufaida, Bakain, Sukhchain, Sohanjana, Toot, and Sumba, along both sides of roads 01 & 02. There are 05 plants with height of 2-3 feet also found in RoW.. Sparrows and Crows are observed in subproject area. Figures: No tree cutting is involved during the execution of the project. No wild animal/ endangered species is found in the area.

4.8. Right of Way and Area of Influence

Road No	Name of Road	Length (km)	Existing width (ft)	Proposed Width (ft)	Shoulder (ft) both side
1.	SP-Chowk to Jaswant Nagar Chowk	0.97	20	40	3,3
2.	SP Chowk to Railway Station chowk to underpass	1.9	24	24	3,3
3.	Football Chowk to Stadium Road	1.07	16	34	5,5



Figure 8 RoW of Road 01

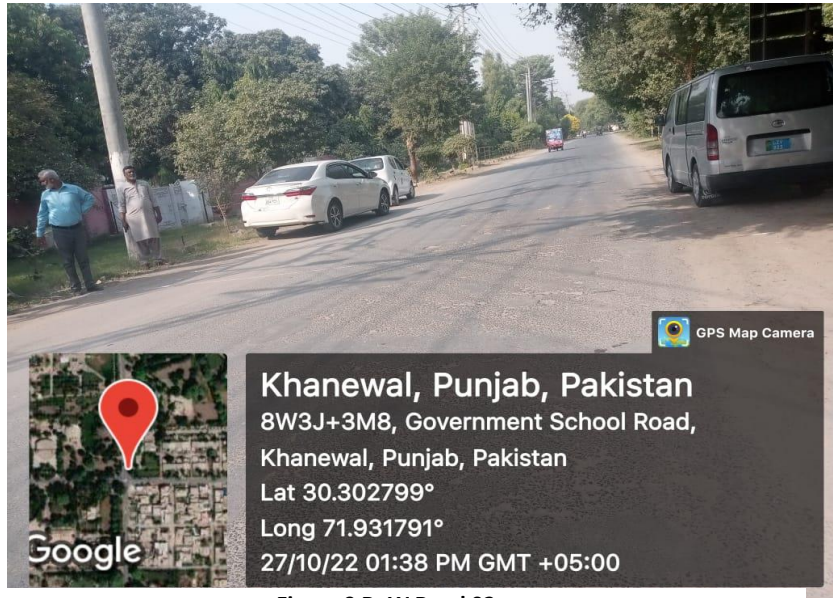


Figure 9 RoW Road 02



Figure 10: RoW Road 03

Socio- Economic Baseline

The socio-economic characteristics are a comprehensive review of the current conditions of the project area. It is based on a site visits, and consultations with institutional and community stakeholders. The baseline provides a glance of the conditions of the community of the project area. It includes provision of social infrastructure facilities available in the area. Moreover, the existing conditions of utilities and the presence of cultural and religious sites are also discussed. The communities of the road sub-project fall under the lower income category and mostly are engaged with private jobs, restaurants, furniture shops, general stores, motorcycle shops, private clinics, fodder, vegetable & fruit shops. On Road 01 there are 04 mobile vendors found within RoW.

4.9. Governmental Offices at subproject sites

There are many government offices and residences are situated at subproject area.

Road 01	DPO Residence DC Council Session Judge house DC House
Road 02	ADCR House, Session judge House DC house Pasco Godamns
Road 03	Stadium

4.10. Land Acquisition

The land along the alignment of the sub-project is densely populated. Major land use of the area is commercial however sub-project activities will be executed in the existing Row where no public/private structure, public amenities, shopkeepers, kiosks, permanent vendors were observed during the survey. However, on Road 01 temporary vendors were observed at left side of the road during the survey, whose accessibility and placement may be temporarily affected for 4/5 days and it will be ensured during the

execution of work that work activities must be carried out in portions to provide safe placement to the temporary hawkers/ vendors and where necessary. Hence, no land acquisition is required. It was confirmed during the public consultation that no Anti-Encroachment Drive has taken place since 2018 at this location.

4.11. Socially Sensitive Receptors

There are few socially sensitive receptors ie. Schools and hospitals in Sub-project area. Anticipated impacts of the Sub-project are presented in Table 04. To overcome localized social & environmental impacts; mitigation plan has been prepared.

Educational institutions

Road 01	There was no school/college observed on Road 01.
Road 02	There is one private school namely young scholars’ school & College. One College “Ripha International college is under construction
Road 03	i) Govt MC Primary School & ii) Muslim High school

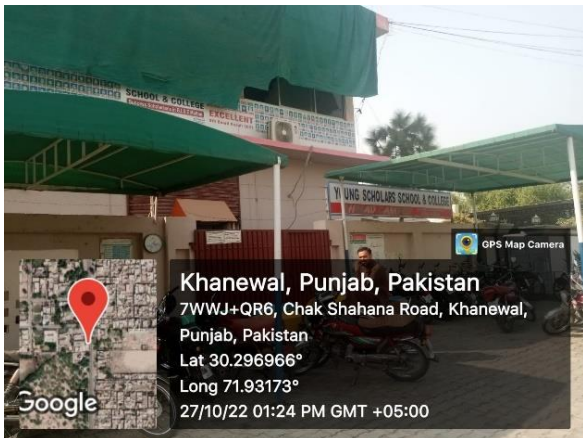


Figure 12: School at road 01



Figure 11: School at road 03

Housing

Majority of the houses are made of material such as concreted and cemented in the project area. Basic utilities, which are included gas, water supply and sewerage system, are also available at the proposed project site.

Archaeological, Historical, and Cultural Resources

There is one Muslim Graveyard namely Markazi Qabrastan is present at site on Road 01, the three 03 shrines were also observed on Road 01 but these are outside the RoW. During public consultation the question regarding Urs Mubarak was asked, local residents told that the Urs Mubarak of Sofi Bashir Ahmad will be held on 4-5th November 2022. Urs Mubarak of Ghulam

Nabi shah will be held in Holy month of Safar. Urs Mubarak of Syed Umair Ali Shah Bukhari in Ramzan. One church was also present at road 01 outside the RoW.

On road 03 one shrine of Hazarat Abdul Rauf was observed and one Muslim Graveyard is also present these are outside the RoW.



Figure 14: Muslim Graveyard at Road 01



Figure 13: Shrine at Road 01



Figure 16: Shrine at Road 01



Figure 15: church at road 01



Figure 17: Graveyard at Road 02

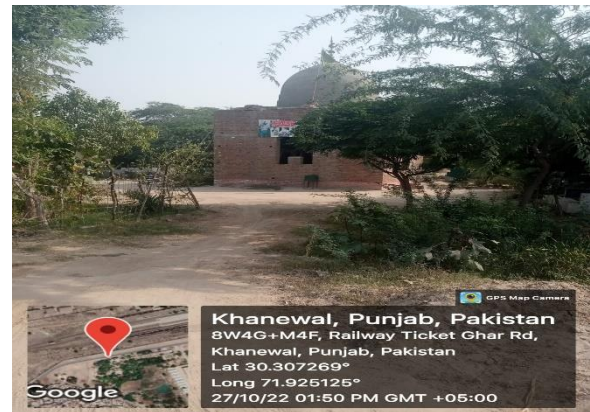


Figure 18: Shrine at road 02

Sex segregated data at Municipal committee Khanewal

In Municipal Committee Khanewal there is one female is appointed as Clerk (BPS 11). Many females are hired as sanitary workers (BPS 04). At MC Khanewal no workplace harassment committee is notified neither such complaint has been filed.

Section 5

STAKEHOLDER CONSULTATION

Timely and broad-based stakeholder involvement is an essential element for an effective environmental and social assessment. Stakeholder engagement during Environmental & Social Assessment contributes in the improvement of the project design, environmental compliance and social acceptability.

5.1. General

This section describes the outcomes of the public consultation sessions held within MC Khanewal of the proposed project area that can be affected by the project. The objectives of this process were to:

1. Share information with stakeholders on the rehabilitation of the proposed project and expected impacts on the physical, biological and socio-economic environment of the project;
2. Understand stakeholder's concerns regarding various aspects of the project and the likely impacts of construction related activities and operation of the project;
3. Understand the perceptions, assessment of social impacts and concerns of the affected people/ MC Khanewal of the proposed project;
4. Provide an opportunity to the public regarding their valuable suggestions in a positive manner; and
5. Reduce the chances of conflict through the early identification of controversial issues, and consult them to find acceptable solutions.

In preparation for the ESMP, two major groups of stakeholders were identified: (i) local communities who are the direct beneficiaries of the project interventions and therefore identified as the primary stakeholders (ii) institutions who have an important role in enabling the realization of the project interventions and therefore identified as the secondary stakeholders.

5.2. Public Consultation

For public information/ consultation, visits were made in the proposed project areas to record their concerns regarding Sub-project activities. Local communities have been consulted about proposed project interventions during consultation process. Methodology selected for selection of interviewee was Random Sampling/Focus Group Discussion. Figure 19 shows pictorial record of public consultation.

Table 3: Pictorial view of Public Consultation and Official Meetings

Issues Raised by Stakeholders	Proposed Mitigation Measures to address the Stakeholders Concerns
<p>There are four 04 mobile vendors within RoW. Those were consulted for this project.</p> <ul style="list-style-type: none"> • Mobile vendors asked regarding completion of project. • Relocation place of their vendor. 	<p>On Road 01, there are 04 vendors within RoW.</p> <p>One vendor is bottle seller he is doing his business for 2-3 months at this place his daily income is 200-300 PKR.</p> <p>One vendor is flower shop keeper he has been doing his business for 1 year. First, He was reluctant to shift to right</p>

<ul style="list-style-type: none"> • GRM of PCP was briefed to them. • Civil works activities should not affect our business. • This will be better if we found a place with in this area. • Vendors are comfortable here for their businesses because no one charge/ rent them. 	<p>side of the road because his shop is near the graveyard and daily income is 400/- then after consultation on suitable place for him, it was decided that there is space in graveyard just behind is current place where he can settle his business on construction phase.</p> <p>One cobbler is also with ROW. His daily income is 600/- he has been doing his business for 1 year. He will be shifted for 1 -2 weeks to right side of road as there is enough space there. He was agreed on terms that if he will be move on right side not another place.</p> <p>One vendor of food stall is within RoW. His daily income is 700-1000 he will also be shifted to right side of road just opposite to current location. He has been doing his business here for 3-4 months.</p> <p>MC official was present at time of screening survey and consultation he assured that the work on this part of road will be completed within 1-2 weeks. After completion of work, they will relocate to their original location.</p>
<ul style="list-style-type: none"> • It is normally experience, that during construction phase a lot of dust generated bothered the community. • Public appreciated the GRM process • Traffic issue will be generated • Will costumer accessibility disturb during construction. 	<p>It was informed that regular water sprinkling will be done and will be strictly monitored by the PMDFC team and Supervision consultant.</p> <p>MC ensured that the work will be done in two parts one side will be opened for traffic.</p> <p>No as there is enough space available between RoW and shop. However, Temporary accessibility to the shops may be disturbed for 4/5 days only for which contractor will be instructed to execute that part of work</p>
<ul style="list-style-type: none"> • Consultations at hospitals was carried out. • Doctors raised the questions regarding parking issues. That not to demolish or include their parking area in widening of road. • Sunday is busy day for surgeons and consultants' whole day patients visited. 	<ul style="list-style-type: none"> • The part of road, at front of hospitals will be completed within a week. • This will be kept in view on Sunday no work will be done in front of hospital to avoid any disturbances and impediments for patients and doctors. • The 20ft parking areas of hospital is already on MC owned land and further this parking area is 18 ft away from the RoW. Therefore, during public consultation

<ul style="list-style-type: none"> • Construction working during night hours also discussed in detail. • Time management should be implemented accordingly. 	<p>this was ensured that parking areas of hospitals will not be affected.</p> <ul style="list-style-type: none"> • At night hours work can be done with assurance to avoid noise pollution. Otherwise, in day time early morning work will be done.
<ul style="list-style-type: none"> • All stakeholders were very hopeful with the construction of roads as they are main road of Khanewal 	

At the end, view from all participants recorded on the Public Consultation Record. Annex-IV and List of consulted stakeholders is attached as Annex V.

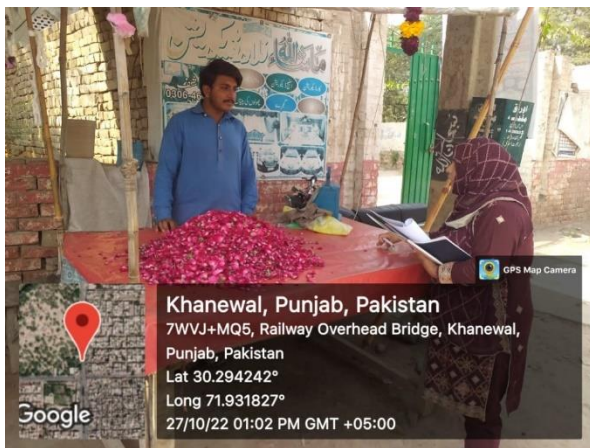






Figure 19: Pictorial view of Public Consultation

Section 6

GRIEVANCE REDRESS MECHANISM

In order to receive and facilitate the resolution of affected people concerns, compliments, and grievance about the project's environmental and social performance an Environmental Grievance Redress Mechanism (GRM) has been established. The GRM will address affected people's concerns and complaints proactively and promptly, using an understandable and transparent process that is gender responsive, culturally appropriate and readily accessible to all segments of the affected people at no costs and without retribution.

The GRM will be accessible to diverse members of the communities, including women, senior citizens, and people with disabilities, laborers/workers, and other vulnerable groups. ESMF GRM will be integrated with the PCP's overall program GRM hotline to be developed by the Consultants under the scope of PCP.

6.1. GRM AT SUB-PROJECT SITE

Grievance Redress Mechanism (GRM) is to provide a robust system of procedures and processes that provides for transparent and rapid resolution of concerns and complaints identified at the local level. In case of any complaint, focal person of GRC may contact and his contact details will be provided at project site.

- **Grievance Redress Committee (GRC)- MC Khanewal**
- **GRC at PMDFC Level**

6.1.1. Types of Grievances

The following are some of the environmental and social issues could be subject for grievance from the affected people.

Environmental Issues	Social Issues	EHS Issues
<ul style="list-style-type: none"> • Noise Pollution • Air Pollution • Fugitive Dust • Water Pollution • Solid Waste Management • House Keeping • Cutting of Trees • Borrow Areas Management • Protection of Wildlife • Campsite Management 	<ul style="list-style-type: none"> • Accidental Insurance for labor • Non-Provision of PPEs to labor as per nature of their jobs • Loss of any public infrastructure • Protection of sensitive receptors • Compensation for any economic losses • Traffic Management 	<ul style="list-style-type: none"> • First Aid • Fire Safety • Workplace Safety • Tools Box Talks • Provision of PPEs • Work at Height Safety • Excavation Safety • Heavy Machinery Issues

	<ul style="list-style-type: none"> • Labor grievance redressal • Gender discrimination • Security Arrangements • Impacts on livelihood • Irregular Traffic Movement • Obstruction in access • Intensive schedule of construction activities • Child Labor • Unsafe conditions for the community (Community Health and Safety, CHS) 	
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Section 7

ENVIRONMENTAL AND SOCIAL MANAGEMENT AND MONITORING PLAN

7.1. Objective

The purpose of Environmental and Social Management and Monitoring Plan (ESMMP) for Improvement of three roads is to ensure that all necessary identified measures have been adopted in order to protect the environment and social situations and to comply with country environmental legislation and applicable World Bank Core Principles for PforR financing modality. After the preparation of ESMF, PMDFC ESM Wing outlined site-specific ESMMP for the Contractors and executing agency. Environmental and social checklist was prepared by PMDFC ESM Wing with the help of the field teams and was used to assess the potential impacts of Sub-project on the basis of its scale/size, nature and significant negative impacts.

7.2. Institutional Arrangements

The specific responsibilities of the institutions involved in the ESMP implementation are described below:

7.2.1. MC Khanewal

Overall responsibility for Environmental Management and Monitoring will rest with the MC Khanewal. MC Khanewal will be responsible for implementation, monitoring and reporting of ESMP with the technical assistance of ESM Wing PMDFC throughout the project period.

Notification of ESFPs in MC Khanewal under PCP has been done.

MOI has been nominated for Environment focal person; he is responsible for implementation & Monitoring of Environmental Aspects. MOP has been nominated for Social focal person he is responsible for implementation & monitoring of social Aspects.

7.2.2. PMDFC ESM Wing

ESM Wing will provide support to ESFPs (MOI for Environment focal person and MOP for Social focal person) for managing environment and social aspects of the subproject and implementation of the present ESMP. ESM Wing would also support communities' participation, consultations and other social activities from the Sub-project identification to completion stage. PMDFC ESM wing will also monitor the subproject activities to ensure the project remains compliant as per World Bank and national/provincial policies and regulations. Therefore, regular reports will be submitted to the Word Bank accordingly.

7.2.3. The Contractor

The Contractor will be responsible for on-field implementation of the ESMP and environmental protection liabilities under the Punjab Environmental Protection Act (Amendment 2012) and World Bank's Environmental and Social Core Principles for PforR financing. He will also be responsible for compliance of ESMP provisions keeping in view his

contract with the MC Khanewal. The Contractor will train his crews in all aspects for implementation of the ESMP.

Contractors have to comply with the following responsibilities:

- Observation of timings and make a schedule that the surrounding communities should not affect from noise pollution, air emissions and disturbances in their routine work
- Usage of machinery/equipment's producing negligible/low noise.
- Ensure health, safety and protective measures including safety equipment, safe drinking water, first aid boxes etc. to the workforce as per nature of their jobs.
- Water sprinkling to avoid air pollution.
- Indicate alternate routes and provide indicators on suitable places during work timings.
- Local labor should be preferred to work.
- Child labor is strictly prohibited as per labor law. All labor should be more than 14 year of age individually.
- Minimize livelihood disturbance of hawkers and shopkeepers
- Proper disposal of wastes and garbage.
- Health, safety and protective measures for the labor.
- Notice board of emergency numbers should be placed on proper place
- Contractors shall also provide safety equipment's i.e., PPEs, safe drinking water, first aid boxes etc. to the workforce as per nature of their jobs. By ensuring all these mitigation measures; not only their company profile shall boost up but also enable them to qualify and win the future Sub-projects.

7.2.4. Supervisory Consultant

Compliance of ESMP all attributes will be ensured by Resident Supervision Consultant.

7.2.5. Monitoring Mechanism

The ESFPs will carry out the monitoring at the field level on a continuous basis. The DPO ESM will perform periodic monitoring during their site visits. Two complementary methodology approaches are being applied to monitor the proposed actions under the ESMP:

- **Compliance monitoring;** which checks whether the actions proposed by the ESMP have been carried out by visual observation, photographic documentation and the use of checklists prepared for the ESMP;
- **Effects monitoring;** which records the consequences of program activities on the biophysical and social environment; as applicable, these effects are repeatedly measured by applying selected indicators.

The plan also defines the monitoring mechanism and identifies a set of verifiable monitoring parameters to ensure that all proposed mitigation measures laid down in the ESMP are completely and effectively implemented.

Monitoring will be carried out to ensure that the mitigation plans are regularly and effectively implemented. It will be performed at two levels. At the PMDFC, the environmental team will do ESMP compliance monitoring to ensure that the mitigation plans are being effectively implemented. At Contractor's level, the Environmental & Social monitoring checklist will be filled on weekly basis.

7.3. Reports

The Contractor will submit weekly compliance monitoring checklist and PMDFC ESM Wing will submit quarterly and annual monitoring reports as well as a final report of the Sub-project based on safeguard implementation status. The monitoring reports will also include process and outcome of consultations with the Project Affected Persons if any. The distribution of periodic reports is given below:

Distribution of Periodic Reports Report	Prepared by	Reviewed by	Distribution
Weekly	Contractor	PMDFC DPO ESSs	PD, The Engineer
Quarterly	PMDFC DPO ESSs	PMDFC SPO ESSs	PD, The Engineer, The World Bank
Annual	PMDFC DPO ESSs	PMDFC SPO ESSs	PD, The Engineer, The World Bank
Final	PMDFC DPO ESSs	PMDFC SPO ESSs	PD, The Engineer, The World Bank

7.4. Inclusion of ESMP In Bidding/ Contract Documents

The present ESMP has been included in the bidding/ contract documents and their implementation will be a contractual binding for the Contractors. In addition, the Contractor's guidelines prepared by PMDFC/ safeguards procedures will also be made part of contracts.

7.5. Environmental and Social Non-Compliance

Any environmental and social non-compliance during first half of the reporting month will be considered as a "minor deviation". In case the non-compliance attains the status of "non-mitigation" during the second half of the reporting month, it would be considered a "moderate non-compliance". In case non-compliance continues in the second month, it will fall in the category of "undone" and as such would be considered as a major non-compliance and eventually leading to serious action including the suspension of Contractor's payment or any other penalty as may be considered appropriate with the recommendation of the DPO ESSs/Engineer. No payment will be made to Contractor against non-compliance and no arrears will be paid thereof.

7.6. Environmental and Social Management and Monitoring Plan

The impacts, mitigation measures, monitoring indicators, frequency and responsibility has been discussed in Environmental and Social Management and Monitoring Plan (ESMMP).

Table 4: Environmental & Social Management & Monitoring Plan

Sub-project: Improvement of Three Roads of MC Khanewal

Proposed Sub-project activities	Potential Env/Soc Impacts	Magnitude of Impact	Mitigation Measures	Mitigation Implementation Responsibility	Monitoring Indicators	Monitoring Frequency	Monitoring Responsibility
Design Phase							
	Conflict on design	Moderate	To avoid conflicts at design phase public consultations was conducted, in this subproject no conflict was raised during public consultation	MC ESFPs	Minutes of meeting records, attendance sheets and pictures	Design E&S Consultants	ESM team of PMDFC
Construction Phase							
Dismantling, Excavation fine aggregate, base coarse and cleaning & grabbing)	a) Environmental Issues: <ul style="list-style-type: none"> Dust which may affect visibility, community and labor health Noise from machineries/ equipment Waste may be generated due these activities Safety hazards to labor and nearby resident population. 	High	<ul style="list-style-type: none"> Excavated material will be disposed within 24 hours at the designated place of MC Khanewal Updated and tuned machinery will be used to control noise. Water sprinkling will be carried out at consecutive intervals as per instructions. Avoiding construction activities during nights. Removal of excess matter/ debris from the site within 24 hours. Provide PPEs Provide appropriate signage near the construction activities to sensitize the communities and minimize accidents. 	Contractor	Visual/ Photographic record, Public consultation, Environment Quality Analysis reports, GRM Complaints record	<ul style="list-style-type: none"> Daily site visit during construction phase Fortnightly/Weekly Once during the construction phase 	<ul style="list-style-type: none"> ESFPs DPO ESM Supervision Consultants E&S team

	<ul style="list-style-type: none"> • Worse House Keeping b) Social Issues: • Excavated material may cause disturbance in mobility • Temporary blockage of road may restrict mobility • Conflict with public and public complaints • Economic losses • Livelihood's loss. • Temporary loss of structures and private property • Economic loss of permanent and mobile vendors due to obstruction of passage • Presence of Physical Cultural Resources (PCRs) of Archeological importance • Air and dust pollution • Noise pollution 		<ul style="list-style-type: none"> • Public must be informed about project major activities, duration of scheme, time and schedule, anticipated impacts and their proposed Mitigation Measures. The contact Nos. of focal person of Grievance Redress Committee will be displayed at different locations and residents will also be informed about it. • Construction work will be scheduled in such a way that business of the shopkeepers will not be affected. • Temporary accessibility to the shops may be disturbed for 4/5 days only for which contractor will be instructed to execute that part of work in parts, moreover, there is already open space available outside the shops for accessibility • Contractor will ensure that work should be executed in portions to avoid the temporary disturbances in the accessibility and placement of the temporary vendors • Contractor will make sure that labor must not damage the property and structures of the communities (although no such structure was observed during the screening survey) and in case of damage compensation will be provided as per entitlements. • If there will be any PCR found during excavation; Contractor will follow guidelines of chance find procedure. 				
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			<ul style="list-style-type: none"> • Air quality will be analyzed by the contractor from EPD certified Lab at pre, during and after execution stage of the work. • Noise quality will be analyzed by the contractor from EPD certified Lab at pre, during and after execution of the work 				
Construction material storage, handling and use	<p>Environmental Issues:</p> <ul style="list-style-type: none"> ○ Ground water may be contaminated due to the any oil spillages from machinery. ○ Health risk to workers and local inhabitants. ○ Poor Housekeeping <p>Social Issues:</p> <ul style="list-style-type: none"> ○ Land acquisition for storage of construction material ○ Accidents/Injuries expected if neglected ○ Blockage of passage for pedestrians ○ Haphazard arrangement of 	Medium to negligible	<ul style="list-style-type: none"> • Construction material will be covered to ensure safe passage between the destinations during transportation. • Materials will not be loaded to a higher level than the side and tail boards and shall be covered with a good quality tarpaulin; • At subproject site there is vacant space along the roads other than RoW. This will no cause of hindrance of traffic flow or business activities. Anyhow, if land may need to be acquired for temporary storage of machinery & materials contractor will be liable to compensate the land owner accordingly through agreement/negotiations/voluntarily. • Contractor will lay/utilize construction materials as per work requirement from his storage site. • Contractor will use night vision reflective signboards/ reflective tapes to cordon off the area during construction activities. 	Contractor	Visual/Pictures	<ul style="list-style-type: none"> • Daily site visit during construction phase • Fortnightly/Weekly • Once during the construction phase 	<ul style="list-style-type: none"> • ESFPs • DPO ESM • Supervision Consultants • E&S team

	construction material						
Labor Camp (if established by Contractor)	<ul style="list-style-type: none"> ○ Health impacts due to absence of housing and sanitation facilities in labor camp. ○ Security of labor ○ Unhygienic conditions 	Medium	<ul style="list-style-type: none"> • For the execution of this sub-project, 30-40 number of workers/laborers will be required to work for almost 2 months on each road and contractor will be instructed (will be included in his term of reference and in the form of EHS SOPs implementation), to prefer the local labor to be engaged, for which labor camp will not be required to be established. Anyhow, for temporary labor site, following mitigation measures will be provided • Contractor will ensure provision of appropriate housing, water supply, and sanitation facilities to construction labor. • Good housekeeping will be ensured inside campsite • Labor will be provided with quality food. • During winter hot water will be provided for bathing and likewise as per the weather condition. • Accommodation will be ensured by the Contractor. • It's better to accommodate labor in Containers Camps/houses with all amenities. • Contractor will submit Campsite Management Plan and approve from DPO-ESSs before the execution of work. 	Contractor	Visual/Pictures	<ul style="list-style-type: none"> • Daily site visit during construction phase • Fortnightly/Weekly • Once during the construction phase 	<ul style="list-style-type: none"> • ESFPs • DPO ESM • Supervision Consultants • E&S team

<p>Vehicle Movements</p>	<ul style="list-style-type: none"> • Traffic congestion • Conflicts • Vehicle emissions 	<p>High</p>	<ul style="list-style-type: none"> ○ Sign boards and posters will also be displayed at Sub-project site and adjacent areas as well. Inform the residents about timing, schedule and construction work duration. ○ Work will be done in portions so that the alternate road may be used safely and vehicles movement will not be disturbed. ○ Contractor will submit Traffic Management Plan (if required) and it will be approved by the MC and displayed at site before the execution of work and communicated to the locals in a timely manner. ○ Vehicle emissions testing will be ensured (Hand plater, Compactor) once during execution of work 	<p>Contractor</p>	<p>Visual/ Pictures, Vehicle emission tests reports, GRM Complaints record</p>	<ul style="list-style-type: none"> • Daily site visit during construction phase • Fortnightly/Weekly • Once during the construction phase 	<ul style="list-style-type: none"> • ESFPs • DPO ESM • Supervision Consultants E&S team
<p>Site Safety Issues</p>	<ul style="list-style-type: none"> • Accidents 	<p>High</p>	<p>Contractor will ensure site safety using safety cautions (night vision), boards, flagmen, cordon tapes for smooth flow of traffic and pedestrians during the construction phase of the Sub-Project.</p>	<p>Contractor</p>	<p>Visual/ Pictures</p>	<ul style="list-style-type: none"> • Daily site visit during construction phase • Fortnightly/Weekly • Once during the construction phase 	<ul style="list-style-type: none"> • ESFPs • DPO ESM • Supervision Consultants E&S team
<p>Public access</p>	<p>Problems for pedestrians. Normal mode of transport may be disturbed during Sub-project execution.</p>	<p>Medium</p>	<ul style="list-style-type: none"> • Work will be done in parts. one side of road will be in use for traffic flow. In case of provision of alternate route this will be ensure that ensure that the alternate access route must consider the safety aspects for all kind of pedestrian i.e. women, children, disabled. 	<p>Contractor</p>	<p>Visual/ Pictures</p>	<ul style="list-style-type: none"> • Daily site visit during construction phase • Fortnightly/Weekly 	<ul style="list-style-type: none"> • ESFPs • DPO ESM • Supervision Consultants E&S team

			<ul style="list-style-type: none"> • Cordon off the construction zone. • In front of hospitals and schools, contractor will ensure the completion of work expedite to avoid any hindrance to doctors, patients, teachers and students. 			<ul style="list-style-type: none"> • Once during the construction phase 	
Occupational Health & Safety	<ul style="list-style-type: none"> • Injuries to workers/LTI 	High	<ul style="list-style-type: none"> • Contractor will follow PMDFC designed Environment, Health and Safety SOPs for Labor/Workers for all activities on the site and these SOPs will be the part of his term of reference and contractual agreement. • Workers will be trained by the PMDFC ESM team and guided to follow SOPs and will be provided with necessary PPEs (Safety Helmets, Safety Shoes, Gloves, Chemical Masks etc.) wherever required. • First aid will be provided onsite • Careful monitoring will also be carried out. 	Contractor	Visual/Pictures	<ul style="list-style-type: none"> • Daily site visit during construction phase • Fortnightly/Weekly • Once during the construction phase 	<ul style="list-style-type: none"> • ESFPs • DPO ESM • Supervision Consultants E&S team
Laying of coarse base, gravel, sub base	<ul style="list-style-type: none"> • Injuries to workers 	High	<ul style="list-style-type: none"> • Contractor will provide Safety Shoes, Hand Gloves, Safety Helmet, Reflective Vest to all the labor. 	Contractor	Visual/Pictures	<ul style="list-style-type: none"> • Daily site visit during construction phase • Fortnightly/Weekly • Once during the construction phase 	<ul style="list-style-type: none"> • ESFPs • DPO ESM • Supervision Consultants E&S team
Impact on flora	<ul style="list-style-type: none"> • Cutting of tress 	Negligible	<ul style="list-style-type: none"> • One tree is within RoW therefore, avoid that tree cutting the four electric poles will be shifted 3ft back from its original 	Contractor	Visual/Pictures	<ul style="list-style-type: none"> • Daily site visit during construction phase 	<ul style="list-style-type: none"> • ESFPs • DPO ESM

			position. These poles are exact opposite to that tree.(figure 25)			<ul style="list-style-type: none"> Fortnightly/Weekly Once during the construction phase 	<ul style="list-style-type: none"> Supervision Consultants E&S team
Impact on Livelihood	<ul style="list-style-type: none"> 04 vendors are within RoW 04 vendors including one cobbler, one flower seller, one food staller 4th bottle seller 	High	<ul style="list-style-type: none"> Flower seller will be relocated to there is space in graveyard just behind is current place figure 20 is attached where he can settle his business on construction phase. Other 03 vendors will be shifted to right side of road just opposite to their current location, during public consultation they were agreed to move. They have to relocate for 1-2 weeks. (figure 21 showing places for 03 vendors) 	Contractor	Visual/Pictures	<ul style="list-style-type: none"> Daily site visit during construction phase Fortnightly/Weekly Once during the construction phase 	<ul style="list-style-type: none"> ESFPs DPO ESM Supervision Consultants E&S team
Damage to Public Infrastructure/utilities	<ul style="list-style-type: none"> Accidents/Incidents/Injuries Structural loss Social Conflicts 	moderate	<ul style="list-style-type: none"> Contractor will ensure no damage to public utilities or structures. Contractor will provide compensation for the damages to entitles accordingly. On road 01 there is one community owned ramp is within RoW. This will not (where shoulder is to be designed) structure is already in such a condition that this will not impact on road design and no need to dismantle.(Figure 22) One mosque's structure washroom is within RoW at left side of road, however to avoid dismantling of the structure the road will be widened from right side as there is enough RoW. (Figure 23) 	Contractor	Visual/Pictures	<ul style="list-style-type: none"> Daily site visit during construction phase Fortnightly/Weekly Once during the construction phase 	<ul style="list-style-type: none"> ESFPs DPO ESM Supervision Consultants E&S team
Sexual Harassment-Labor Influx-Child Labor	<ul style="list-style-type: none"> Social Conflicts 	Low	<ul style="list-style-type: none"> Contractor will give behavioral training to the workforce. Contractor will hire local labor for unskilled works. 	Contractor	Visual/Pictures/Reported/Complai	<ul style="list-style-type: none"> Daily site visit during construction phase 	<ul style="list-style-type: none"> ESFPs DPO ESM

			<ul style="list-style-type: none"> No child labor is allowed onsite below 14 years. GRM at site level will be ensured to report in case of any such incident 		ns by public during visit	<ul style="list-style-type: none"> Fortnightly/Weekly Once during the construction phase 	<ul style="list-style-type: none"> Supervision Consultants E&S team
CoViD-19 SOPs implementation	<ul style="list-style-type: none"> Spread of Corona among the labor 	Low	<ul style="list-style-type: none"> Contractor will provide face masks to the labor on daily basis to reduce Corona impact. Contractor will follow CoViD-19 guidelines during construction works (Annex-III) 	Contractor	Visual/Pictures	<ul style="list-style-type: none"> Daily site visit during construction phase Fortnightly/Weekly Once during the construction phase 	<ul style="list-style-type: none"> ESFPs DPO ESM Supervision Consultants E&S team
Operational Phase							
Road Maintenance-Road Furniture	<ul style="list-style-type: none"> Accidents Complains 	Low	<ul style="list-style-type: none"> MC will maintain road lighting system for night vision. Road surface will be repaired/maintained by MC. Road furniture will be maintained by MC. 	Contractor	Visual/Pictures		<ul style="list-style-type: none"> MC Officials

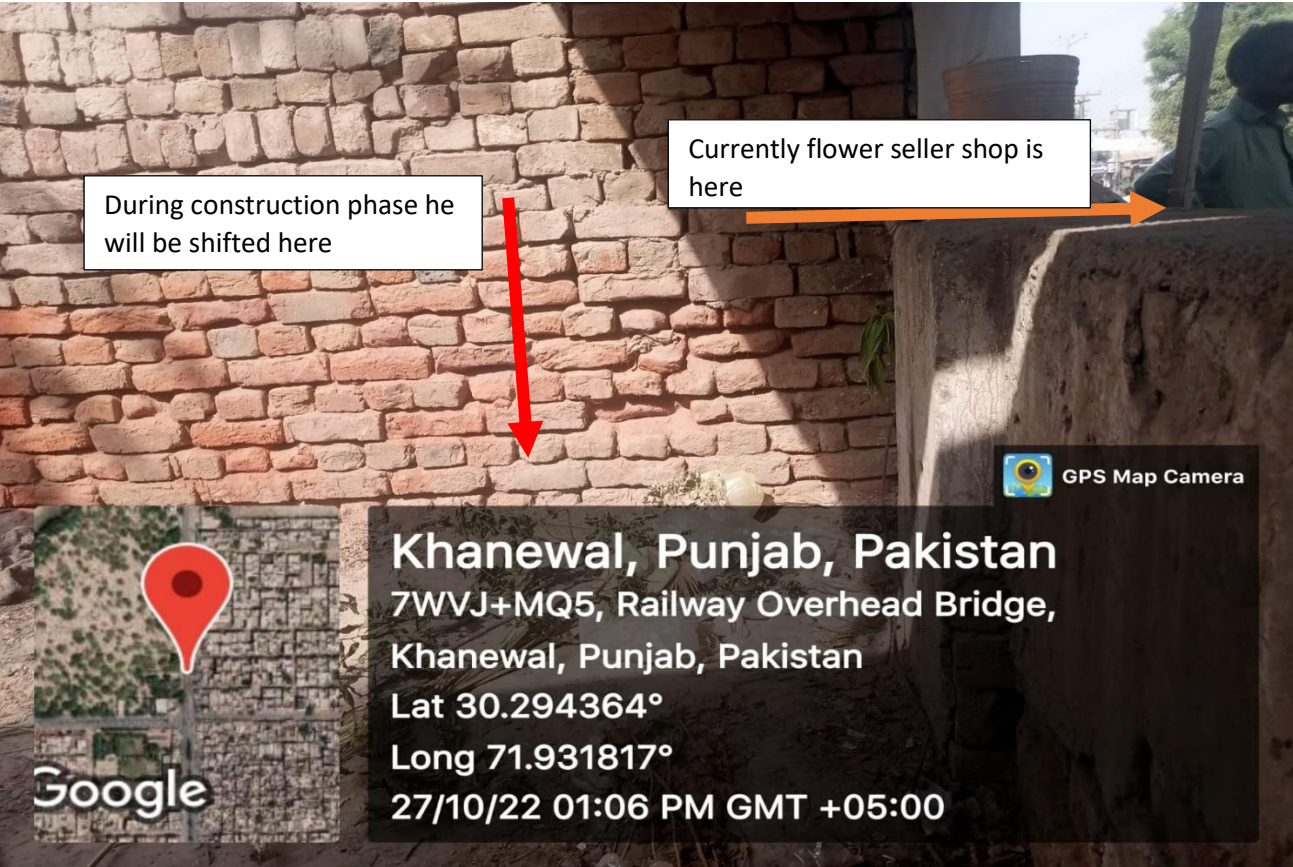


Figure 20: proposed location for flower seller

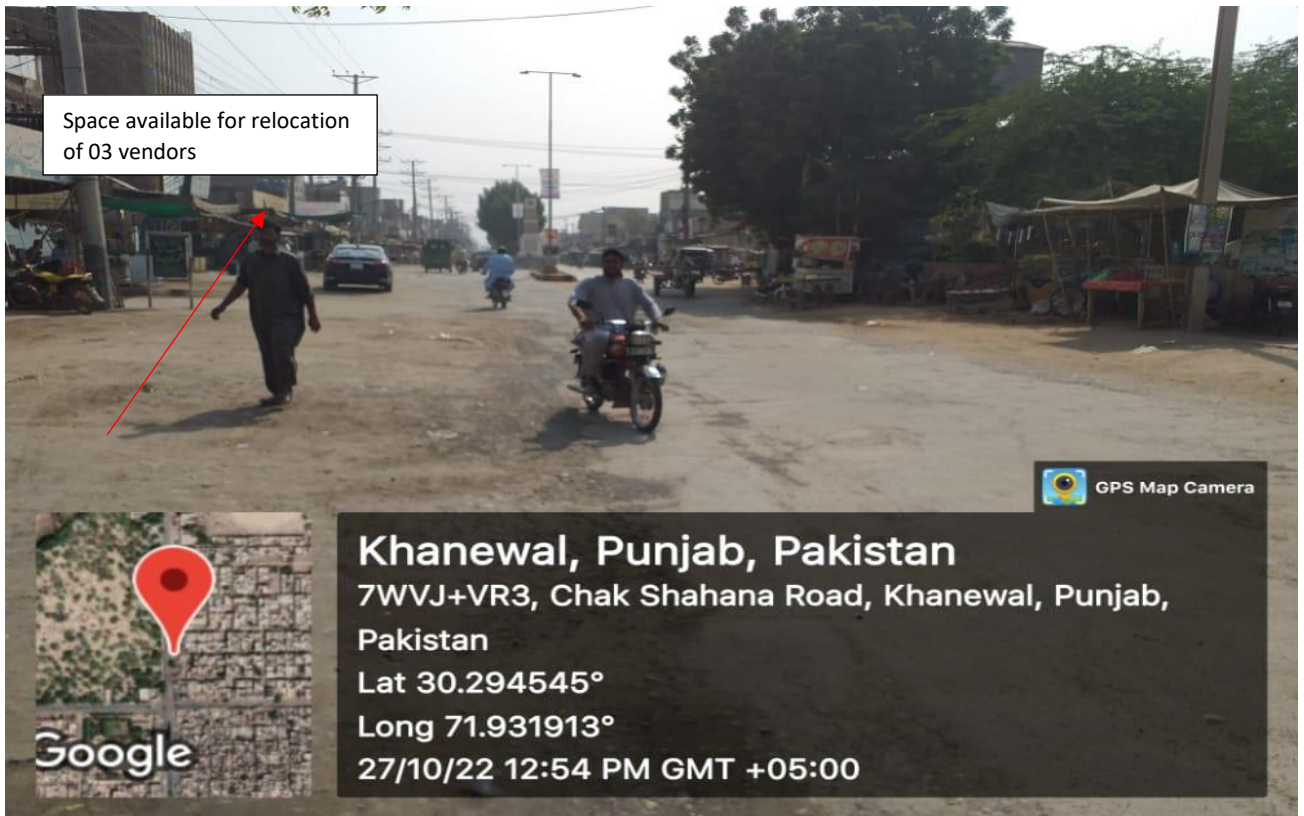


Figure 21: Figures showing places for relocation



Figure 23: structure adjust with design without demolish

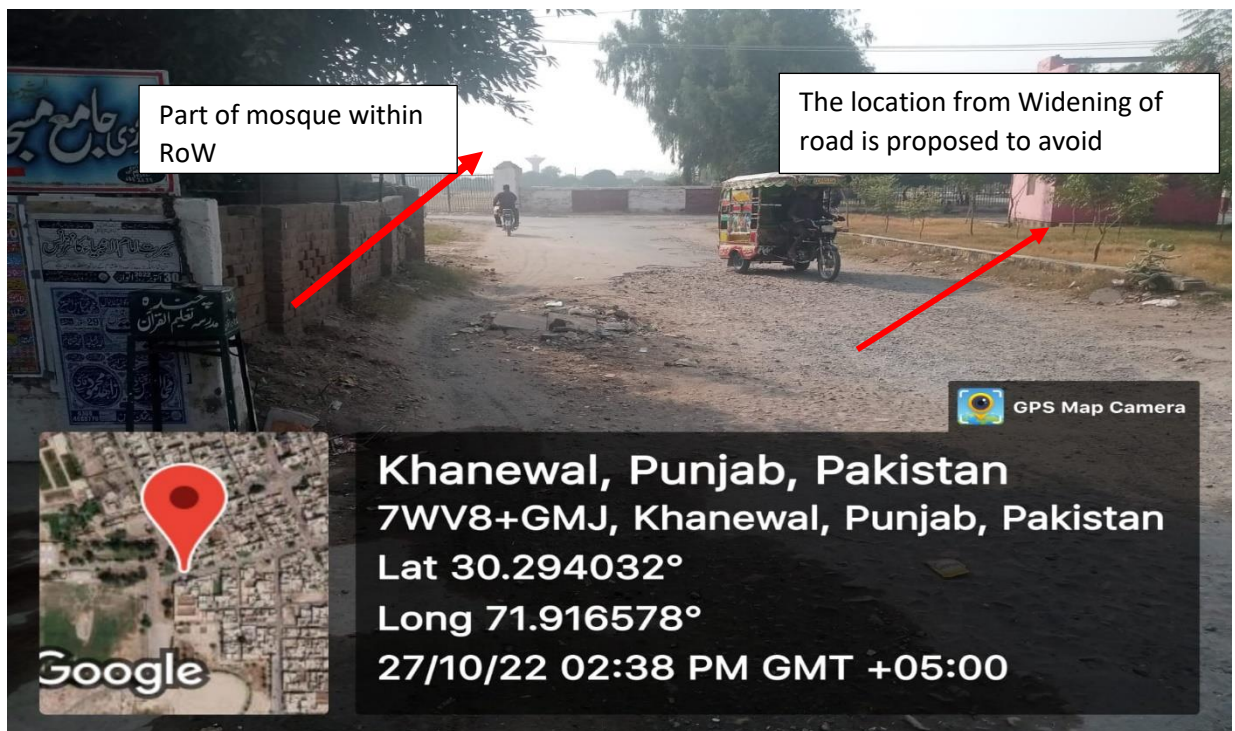


Figure 24: location of RoW where widening is proposed



Figure 25 Shifting of Four poles and tree (avoid to cut)



7.7. ESMP Implementation Budget

Sub-Project: Rehabilitation of three roads at MC Khanewal

Table 5: Environmental Implementation Budget

Sr No	Description	Unit	Quantity	Unit Rate (Rs.)	Amount Rs.
	Labor Safety				
1	Face Masks (3 PLY)	Nos	40	700	28,000
2	Safety Gum Shoes	Nos	40	1,350.00	54,000
3	Hand Gloves	Nos	40	245	9,800
4	First Aid Box (Including essential Medicine)		3	5000	15,000
5	Safety Hard Helmets MSA	Nos	40	2,000.00	80,000
6	Safety Goggles	Nos	40	550	22,000
7	Reflective Safety Vests	Nos	40	550	22,000
8	Infrared Thermometer (Benetech GM-2200 OR equivalent)	Nos	2	45,000.00	90,000
				Sub Total	320,800
	Working Site Safety				
1	Reflective Safety Signs Boards	Nos	15	10,000.00	150,000
2	Reflective Safety PVC Cones (18 inch)	Nos	25	1,200.00	30,000
3	Road Guiding Portable Delineators with	Nos	25	1,500.00	37,500
4	Reflective Safety Barricading Tape	Nos	55	1,500.00	82,500
5	Emergency Portable Light	Nos	8	5,000.00	40,000
6	Solid Waste Collection Drums	Nos	6	5,000.00	30,000
7	Fire Extinguishers DCP	Nos	6	7,000.00	42,000
				Sub Total	412,000
	Others				
1	Pole Hanging Waste Bins	Nos.	16	10,000	160,000
2	Water Sprinkling (Dust Abatement)	Lump sum	1	200,000	200,000
3	Uprooting and replantation Plantation	Lump sum	4	10,000	10,000
4	Environmental Analytical Assessments (Ambient Air Quality Noise analysis Testing, Vehicular Emissions Testing/Generators, Testing)	Lump sum	1	450,000	450,000
5	Hiring of Environmentalist (03 Months Budget)	Lump sum	1	250,000	250,000
6	Labor management	Lump sum	1	200,000	200,000
7	Training	Lump sum		100000	100000
				Sub Total	1,370,000
	Total Amount (Rs)				1,652,800

Section 8

CAPACITY BUILDING

8.1. General

A comprehensive program will be followed to strengthen the technical and institutional capacities of the executing agency (MC Khanewal), contractors, and laborers.

Table 9: Training / Awareness and Sensitization Plan

Components	Audience	Level	Modality	Frequency	Responsibility
ESMF Site Specific requirements and E&S Management and Mitigation Plan	MO-1 and MC field staff ²	Training	Briefing Presentations Mock Activities	Before execution of sub-project and time to time instructions	PMDFC ESM team
ESMP Implementation and Monitoring Plan	MO-1 MO-P MC field staff	Training	Briefing Presentations Mock Activities		
	Contractor	Awareness and sensitization	Briefing	At the time of Contract signing and before execution	DPO-ESM ESFPs
	Labor	Awareness and sensitization	Briefing	Before execution and time to time during execution	DPO-ESM ESFPs
EHS SOPs for Labor/Workers (including women workers)	Contractor	Awareness and sensitization	Briefing and Illustrations	Before execution and time to time during execution	DPO-ESM ESFPs
	Labor/workers	Awareness and sensitization on SOPs Training on Use of PPEs	Presentations Illustrations Mock activities Resource material	Before execution and time to time during execution	DPO-ESM ESFPs
GRM	Contractor	Awareness and sensitization	Briefing	Before execution and time to time during execution	DPO-ESM ESFPs
	Labor/workers	Awareness and sensitization	Briefing and resource material	Before execution and time to time during execution	DPO-ESM ESFPs
	Public/communities	Awareness	Briefing during public consultation Resource material	Before and during execution	DPO-ESM ESFPs

² For ESFPs and MC field staff, PMDFC will organize time to time trainings and a training/ capacity building program has been designed in this regard

Annexure i: Environment & Social Screening Checklist

Environmental & Social Screening Checklist

<p>Instructions:</p> <p>Environmental and Social Focal Persons (ESFPs)³ nominated by the MCs for PCP environmental and social management, will use this checklist in field for environmental and social screening and categorization of each and every sub-project proposed to be executed under the Program.</p> <p>Deputy Program Officers-Environmental and Social Management deputed by PMDFC in regional offices will technically assist and support the ESFPs/MCs in filling in of this Checklist</p> <p>It is to be attached with the main document⁴ of sub-projects at planning stage and will be duly signed by the relevant ESFP and endorsed by the respective DPO-ESM</p> <p>This checklist focuses on environmental issues and social concerns. To ensure that social dimensions are adequately considered, Involuntary Resettlement Screening Checklist will also be used</p> <p>(iii) The purpose of this E&S Screening Checklists is to identify potential “Negative” impacts of environmental and social attributes or to enhance the existing environmental & social benefits. Use the “remarks” section to discuss any anticipated mitigation measures.</p>		
Name of ESFP: Zain Ali MOI&S, Ejaz Pahore MOP		
Name of MC: Khanewal		
Sub-Project Sector: Roads		
Sub-Project Title: Improvement of three roads of MC Khanewal		
Sub- Project Categorization:	E-1	S-1
	E-2	S-2
	E-3	S-3
Date of Screening: revised on 27-10-2022		
<p>Anticipated Project Activities</p> <ul style="list-style-type: none"> ● Dismantling and removing road metalling. ● Dismantling dry brick masonry. ● Excavation ● Providing and laying sub-base course of stone ● Water Bound Macadam ● Carpeting ● Paint For Traffic Lanes ● Installation of Kerb Stone ● Providing and laying Tuff pavers ● Providing & fixing Cat Eyes of size 4"x4"x3/4" ● Gully Grating Chamber ● Providing and fixing RPC Manhole Cover 		

³ In all MCs, ESFPs are notified by Local government; MO (I&S) are focal persons for environmental sector and MO(P) are focal persons for social sectors.

⁴ It is meant as PC-I and/or engineering estimates of sub-project

<ul style="list-style-type: none">• RCC Foundation for Poles	
Estimated Cost of Subprojects 231.90 million/- PKR	
Completion Time/Duration: 06 months maximum.	
Estimated Labor for Subproject 15-20 approx.	

1. Dualization of road SP-Chowk to Jaswant Nagar Chowk 0.97km			
Screening Questions	Yes	No	Remarks
A. Project Siting Is the Sub-Project area adjacent to or within any of the following:			
Environmentally sensitive areas?			
Legally protected Area		✓	No legally protected area lies in the sub-project area
Any surface water body (river, canal, stream, lake, wetland) within 250 meter of the proposed sub project ⁵		✓	No surface water body present in sub-project area
Estuarine		✓	No estuarine present in sub-project area
Special area for protecting biodiversity		✓	No such area found near sub-project site
Buffer zone of protected area		✓	No buffer zone of environmentally protected area present near sub-project site
Mangroves Forest		✓	No mangroves forest present in sub-project area
Man-made forest /game reserve, orchid /crops or any other area of environmental importance		✓	Man-made forest /game reserve, orchid /crops or any other area of environmental importance
Socially sensitive /important areas/communities/people?			
PCRs and or any site of cultural/religious importance (Graveyard, Shrine, Mosque, Church, <i>Gordwarah</i> , Temple, Fort, archeological/historical site) within 100 m of the proposed subproject ⁶	✓		03 shrines are present but these are outside of RoW. One church is also present. anyhow, no impact is envisaged on it.
Sensitive receptors (Schools, colleges, hospitals and clinics) within 100 meter of the proposed sub project ⁷		✓	No sensitive receptors like schools, colleges hospitals & clinic is present within 100 meter of subproject site
Any graveyard of local community (Muslims or Christians)	✓		One Muslim Graveyard "Markazi Qabarastan" is present. However, its boundary wall is 20ft away from the RoW and no such impact is envisaged
Any demographic or socio-economic aspects of the sub-project area that are already vulnerable (e.g., high incidence of marginalized populations, rural-urban migrants, illegal settlements, squatters, ethnic minorities, people with disabilities, people in old age, socially isolated segments ⁸ of the society and women or children)?		✓	No demographically or socio-economically vulnerable aspects of the sub-project were observed
Already existing infrastructure ⁹ (including public amenities) which may be required to dismantle or may be affected temporarily by any means?		✓	04 electric poles to be shifted to 3 ft back from its original position
B. Potential Environmental Impacts Will the Sub-Project cause...			

1. Dualization of road SP-Chowk to Jaswant Nagar Chowk 0.97km			
Screening Questions	Yes	No	Remarks
1. Disturbance to habitats/biodiversity of environmentally sensitive or protected areas?		✓	No environmentally sensitive or protected area present in the sub-project area
2. Cutting of trees?		✓	Although there are numerous trees along the road but outside the RoW. One tree is within RoW therefore, MC has decided to avoid that tree cutting the four poles that are exact opposite to that tree will be relocate 3ft back.
3. Disruption to habitats/biodiversity of surrounding ecosystem/environment?		✓	No Impact on Disruption to habitats/biodiversity of surrounding ecosystem/environment?
4. Generation of wastewater during construction or operation?		✓	No generation of waste water during construction phase is expected because there is no need of labor camp.
5. Pollution of surface water/ground water due to wastewater discharge from construction site or due to direct/indirect disposal of waste water?		✓	There is no surface body found in subproject area but, no wastewater will be disposed of in nearby surface water body. NO labor camp will be established due to limited scope of work. 75% labor will be local.
6. Alteration of surface water hydrology of waterways resulting in increased sediment in streams/rivers or due to increased soil erosion at construction site?		✓	This impact is not anticipated. Strict monitoring of solid waste management will be done.
7. Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction?		✓	NO labor camp will be established due to limited scope of work. 75% labor will be local.
8. Over pumping of ground water, leading to salinization and ground subsidence?		✓	No over pumping will be involved. Authorized bore holes will be installed.
9. Serious contamination of soil due to construction works?		✓	Sub-project activities do not involve use of chemicals or lubricants, only earth material, sand and cement will be used, so no serious contamination of soil is anticipated

⁵ Ibid.

⁶ According to Environmental Assessment Guidelines adopted by Punjab EPA

⁷ Ibid.

⁸ due to caste, creed, religion or gender e.g. transgender

⁹ Sewerage /Drainage system, Water supply lines, tube-wells, WAPDA/Telephone transmission lines/electric poles, Railway tracks, Gas pipelines, Roads, Shops/Plazas, Banks, Industry, Disposal stations etc.

1. Dualization of road SP-Chowk to Jaswant Nagar Chowk 0.97km			
Screening Questions	Yes	No	Remarks
10. Aggravation of solid waste problems in the area?		✓	No aggravation of solid waste problems in the area is anticipated. The waste construction material will be collected and disposed at designated place recommended by supervision engineer at regular interval of time.
11. Generation of hazardous waste?		✓	No hazardous chemicals will be used in project activities
12. Increased air pollution due to sub-project construction and operation?	✓		The subproject interventions may be caused air pollution, however regular water sprinkling will be done and Air quality will be analyzed. The vehicles and construction machinery will be well tuned. Substandard fuel will not be used.
13. Noise and vibration due to sub-project construction or operation?	✓		It will ensure that noise will be within permissible limits. Noise and vibration will be generated due to construction activities and vehicles. It will be ensured that excessive horn will not be operate. Silencer will be used by vehicles. PPEs use by labor will be ensured.
14. Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents due to solid/liquid?	✓		This impact can be arisen if water ponding will be done at construction site therefore this will be ensured that no water ponding will be occurred during construction phase. solid waste management will do according EMP.
15. Use of chemicals during construction?		✓	Paints, lubricants can be used during construction phase but I safe storage and use of these chemicals will be ensure at site.
C: Potential Social Impacts			
Will the Sub-Project cause...			
1. Impairment of historical/cultural areas; disfiguration of landscape or potential loss/damage to Physical Cultural Resources (PCRs)?		✓	No historical/ cultural areas or PCRs present in the sub-project area, therefore No impact sis envisaged.
2. Displacement or involuntary resettlement of people? (Physical displacement and/or economic displacement) (If "Yes", please also fill Involuntary Resettlement Screening Checklist)		✓	There are 04 mobile vendors to be affected during construction activity, they are found at left side of road, it is recommended that during construction phase they will be relocate to right side of road there is

1. Dualization of road SP-Chowk to Jaswant Nagar Chowk 0.97km			
Screening Questions	Yes	No	Remarks
			enough space available there. During public consultation they were asked and told them to relocate that place they were agreed. This relocation will not be impact on their income.
3. Disproportionate impacts on the poor, women and children and or other vulnerable groups ¹⁰ (mentioned above)?		✓	Sub-project will not cause any impact on any of the vulnerable groups
4. Temporary impediments in movements of people/transport and animals?	✓		This impact is anticipated but work will be done parts at the time of construction one side of road will be in use.
5. Large population influx during sub-project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?		✓	Local labor will be hired who will return to their houses after day's work and the sub-project will not cause burden on social infrastructure and services
6. Social conflicts if workers from other areas are hired?	✓		To avoid social conflicts local labor will be hired
7. Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation?	✓		There may be safety and health issues during material transportation. Contractor will be required to provide PPEs and implement HSE plan at site to avoid such hazards .
8. Risks to community health and safety due to the transport, storage, and use and/or disposal of materials such as explosives, fuel and other chemicals during construction and operation?	✓		There may be safety issues during material transportation and construction activities. Health and safety SOPs will have to be implemented
9. Community safety risks due to both accidental and natural causes, especially where the structural elements or components of the project are accessible to members of the affected community or where their failure could result in injury to the community throughout project construction, operation and decommissioning?	✓		There may be safety issues during material transportation and Construction activities. Health and safety SOPs will have to be implemented
10. Any impact on sensitive receptors (mentioned above)	✓		There are 04 mobile vendors to be affected during construction activity, they are found at left side of road, it is recommended that during construction phase they will be relocate to right side of road 9 opposite) there is enough space available there. During public

¹⁰ Women, Children, Women headed households, People in old age, people having disabilities, socially isolated community groups and or people living below the poverty line

1. Dualization of road SP-Chowk to Jaswant Nagar Chowk 0.97km			
Screening Questions	Yes	No	Remarks
			consultation they were asked and told them to relocate that lace they were agreed. This relocation will not be impact on their income.
11. Any impact of negative nature on already existing infrastructure including public amenities		✓	04 electric poles to be shifted to 3 ft back from its original position

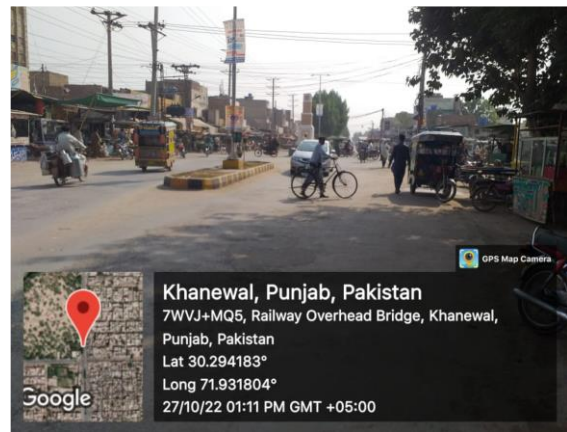


Figure 1: Road 01. Jaswant Nagar Chowk start point



Figure 26: The poles that will be shifted are the ones for avoiding the tree cutting

1. Involuntary Resettlement Checklist Dualization of road SP-Chowk to Jaswant Nagar Chowk 0.97km				
SECTION 1	Yes	No	Expected	Remarks
Does the project require land acquisition? Yes/No		✓		
If yes, then describe the type of land being acquired from the categories below:				
Has any AED been conducted at the proposed location by the government ¹¹ ?		✓		
Land (Quantify and describe types of land being acquired in "remarks column").		✓		
Government and LG owned land free of occupation (agriculture or settlement)	✓			
Government or state-owned land (other than LG) free of occupation (agriculture or settlement)		✓		
Private land		✓		
Residential		✓		
Commercial		✓		
Agricultural		✓		
Communal		✓		
Others (specify in "remarks").		✓		
Name of owner/owners and type of ownership document if available.		✓		
If land is being acquired, describe any structures constructed on it		✓		
Land-based assets:		✓		
Residential structures		✓		
Commercial structures (specify in "remarks")		✓		
Community structures (specify in "remarks")		✓		
Agriculture structures (specify in "remarks")		✓		
Public utilities (specify in "remarks")		✓		
Others (specify in "remarks")		✓		
If agricultural land is being acquired, specify the following:		✓		
Agriculture related impacts		✓		
Crops and vegetables (specify types and cropping area in "remarks").		✓		

¹¹ The sub-projects have to avoid all such lands where any government led AED has been conducted since 2018 and such land will be considered as ineligible expenditure.

1. Involuntary Resettlement Checklist Dualization of road SP-Chowk to Jaswant Nagar Chowk 0.97km				
SECTION 1	Yes	No	Expected	Remarks
Trees (specify number and types in "remarks").		✓		
Others (specify in "remarks").		✓		
Affected Persons (APs)		✓		
Will any people be displaced from the land when acquired? Yes/No		✓		
Number of APs		✓		
Males		✓		
Females		✓		
Titled land owners		✓		
Tenants and sharecroppers		✓		
Leaseholders		✓		
Agriculture wage laborers		✓		
Encroachers and squatters (specify in remarks column)		✓		
Vulnerable APs (e.g. women headed households, minors and aged, orphans, disabled persons and those below the poverty line). Specify the number and vulnerability in "remarks".		✓		
Others (specify in "remarks")		✓		
How will people be affected?		✓		

Environment and Social Screening Checklist

2. Resurfacing of SP Chowk to Railway Station chowk to underpass 1.9

Screening Questions	Yes	No	Remarks
A. Project Siting Is the Sub-Project area adjacent to or within any of the following:			
Environmentally sensitive areas?			
Legally protected Area		✓	No legally protected area lies in the sub-project area
Any surface water body (river, canal, stream, lake, wetland) within 250 meter of the proposed sub project ¹²		✓	Small Water course used to watering the garden and trees in government offices.
Estuarine		✓	No estuarine present in sub-project area
Special area for protecting biodiversity		✓	No such area found near sub-project site
Buffer zone of protected area		✓	No buffer zone of environmentally protected area present near sub-project site
Mangroves Forest		✓	No mangroves forest present in sub-project area
Man-made forest /game reserve, orchid /crops or any other area of environmental importance		✓	Man-made forest /game reserve, orchid /crops or any other area of environmental importance
Socially sensitive /important areas/communities/people?			
PCRs and or any site of cultural/religious importance (Graveyard, Shrine, Mosque, Church, <i>Gordwarah</i> , Temple, Fort, archeological/historical site) within 100 m of the proposed subproject ¹³	✓		One shrine is present & 01 Muslim graveyard.
Sensitive receptors (Schools, colleges, hospitals and clinics) within 100 meter of the proposed sub project ¹⁴		✓	No observed at project site
Any graveyard of local community (Muslims or Christians)	✓		One Muslim Graveyard is present.
Any demographic or socio-economic aspects of the sub-project area that are already vulnerable (e.g., high incidence of marginalized populations, rural-urban migrants, illegal settlements, squatters, ethnic minorities, people with disabilities, people in old age, socially isolated segments ¹⁵ of the society and women or children)?		✓	No demographically or socio-economically vulnerable aspects of the sub-project were observed
Already existing infrastructure ¹⁶ (including public amenities) which may be required to dismantle or may be affected temporarily by any means ?	✓		No existing infrastructure are within RoW which may be required to dismantle or may be affected temporarily by any means
B. Potential Environmental Impacts Will the Sub-Project cause...			

¹² Ibid.

Environment and Social Screening Checklist			
2. Resurfacing of SP Chowk to Railway Station chowk to underpass 1.9			
Screening Questions	Yes	No	Remarks
16. Disturbance to habitats/biodiversity of environmentally sensitive or protected areas?		✓	No environmentally sensitive or protected area present in the sub-project area
17. Cutting of trees?		✓	There are numerous trees but outside the RoW.
18. Disruption to habitats/biodiversity of surrounding ecosystem/environment?		✓	No Impact on Disruption to habitats/biodiversity of surrounding ecosystem/environment?
19. Generation of wastewater during construction or operation?		✓	No generation of waste water during construction phase is expected because there is no need of labor camp.
20. Pollution of surface water/ground water due to wastewater discharge from construction site or due to direct/indirect disposal of waste water?		✓	No wastewater will be disposed of in nearby surface water body.
21. Alteration of surface water hydrology of waterways resulting in increased sediment in streams/rivers or due to increased soil erosion at construction site?		✓	Not anticipated. Strict monitoring of will be done.
22. Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction?		✓	No labor camp is envisaged.
23. Over pumping of ground water, leading to salinization and ground subsidence?		✓	No over pumping will be involved.
24. Serious contamination of soil due to construction works?		✓	Sub-project activities do not involve use of chemicals or lubricants, only earth material, sand and cement will be used, so no serious contamination of soil is anticipated
25. Aggravation of solid waste problems in the area?		✓	No aggravation of solid waste problems in the area is anticipated. The waste construction material will be collected and disposed at designated place recommended by supervision engineer.
26. Generation of hazardous waste?		✓	No hazardous chemicals will be used in project activities

¹³ According to Environmental Assessment Guidelines adopted by Punjab EPA

¹⁴ Ibid.

¹⁵ due to caste, creed, religion or gender e.g. transgender

¹⁶ Sewerage /Drainage system, Water supply lines, tube-wells, WAPDA/Telephone transmission lines/electric poles, Railway tracks, Gas pipelines, Roads, Shops/Plazas, Banks, Industry, Disposal stations etc.

Environment and Social Screening Checklist			
2. Resurfacing of SP Chowk to Railway Station chowk to underpass 1.9			
Screening Questions	Yes	No	Remarks
27. Increased air pollution due to sub-project construction and operation?	✓		The subproject interventions may be caused air pollution, however regular water sprinkling will be done and Air quality will be analyzed.
28. Noise and vibration due to sub-project construction or operation?	✓		Noise and vibration will be generated due to construction activities and vehicles. PPEs use by labor will be ensured.
29. Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents due to solid/liquid?	✓		This impact can be arisen if water ponding will be done at construction site therefore this will be ensured that no water ponding will be occurred during construction phase. solid waste management will do according EMP.
30. Use of chemicals during construction?		✓	No chemicals will be used
C: Potential Social Impacts			
Will the Sub-Project cause...			
12. Impairment of historical/cultural areas; disfiguration of landscape or potential loss/damage to Physical Cultural Resources (PCRs)?		✓	One shrine is present & 01 Muslim graveyard. However, no impact sis envisaged.
13. Displacement or involuntary resettlement of people? (physical displacement and/or economic displacement) (If "Yes", please also fill Involuntary Resettlement Screening Checklist)		✓	No one will be required to be displaced or resettled due to sub-project interventions
14. Disproportionate impacts on the poor, women and children and or other vulnerable groups ¹⁷ (mentioned above)?		✓	Sub-project will not cause any impact on any of the vulnerable groups
15. Temporary impediments in movements of people/transport and animals?	✓		This impact is anticipated but work will be done parts at the time of construction one side of road will be in use. Moreover, detailed mitigation measure will be provided in the ESMP
16. Large population influx during sub-project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?		✓	Local labor will be hired who will return to their houses after day's work and the sub-project will not cause burden on social infrastructure and services

¹⁷ Women, Children, Women headed households, People in old age, people having disabilities, socially isolated community groups and or people living below the poverty line

Environment and Social Screening Checklist			
2. Resurfacing of SP Chowk to Railway Station chowk to underpass 1.9			
Screening Questions	Yes	No	Remarks
17. Social conflicts if workers from other areas are hired?	✓		To avoid social conflicts local labor will be hired
18. Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation?	✓		There may be safety and health issues during material transportation and pipe boring. Contractor will be required to provide PPEs and implement HSE plan at site to avoid such hazards. ESMP will be developed to provided mitigation measures.
19. Risks to community health and safety due to the transport, storage, and use and/or disposal of materials such as explosives, fuel and other chemicals during construction and operation?	✓		There may be safety issues during material transportation and construction activities. Health and safety SOPs will have to be implemented
20. Community safety risks due to both accidental and natural causes, especially where the structural elements or components of the project are accessible to members of the affected community or where their failure could result in injury to the community throughout project construction, operation and decommissioning?	✓		There may be safety issues during material transportation and Construction activities. Health and safety SOPs will have to be implemented
21. Any impact on sensitive receptors (mentioned above)	✓		During screening survey it was observed no school, college was present with 100 m of subproject area.
22. Any impact of negative nature on already existing infrastructure including public amenities		✓	One 80 ft local resident owned ramp is within RoW (where shoulder is to be designed) while this ramp structure will be covered with the tuff pavers which are already the part of design of this sub-project and no need to dismantle the ramp.

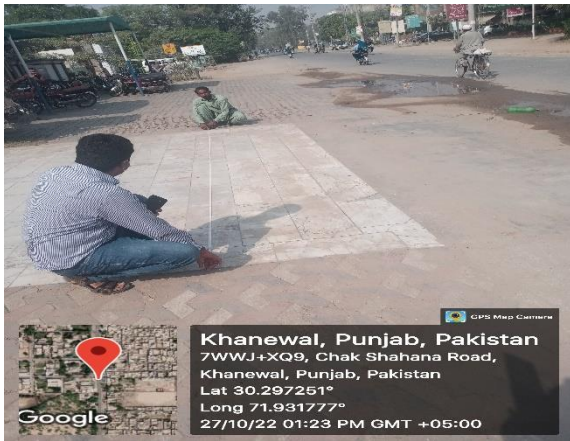


Figure 28: Ramp within RoW

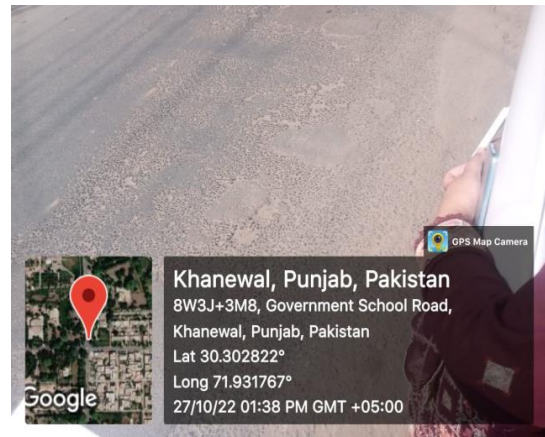


Figure 27: Condition of Road 02

Involuntary Resettlement Checklist				
2. Resurfacing of SP Chowk to Railway Station chowk to underpass 1.9				
SECTION 1	Yes	No	Expected	Remarks
Does the project require land acquisition? Yes/No		✓		
If yes, then describe the type of land being acquired from the categories below:				
Has any AED been conducted at the proposed location by the government ¹⁸ ?		✓		
Land (Quantify and describe types of land being acquired in "remarks column".		✓		
Government and LG owned land free of occupation (agriculture or settlement)	✓			
Government or state-owned land (other than LG) free of occupation (agriculture or settlement)		✓		
Private land		✓		
Residential		✓		
Commercial		✓		
Agricultural		✓		
Communal		✓		
Others (specify in "remarks").		✓		
Name of owner/owners and type of ownership document if available.		✓		
If land is being acquired, describe any structures constructed on it		✓		
Land-based assets:		✓		
Residential structures		✓		One 80 ft local resident owned ramp is within RoW (where shoulder is to be designed) while this ramp structure will be covered with the tuff pavers which are already the part of design of this sub-project and no need to dismantle the ramp.

¹⁸ The sub-projects have to avoid all such lands where any government led AED has been conducted since 2018 and such land will be considered as ineligible expenditure.

Involuntary Resettlement Checklist				
2. Resurfacing of SP Chowk to Railway Station chowk to underpass 1.9				
SECTION 1	Yes	No	Expected	Remarks
Commercial structures (specify in “remarks”)		✓		
Community structures (specify in “remarks”)		✓		
Agriculture structures (specify in “remarks”)		✓		
Public utilities (specify in “remarks”)		✓		
Others (specify in “remarks”)		✓		
If agricultural land is being acquired, specify the following:		✓		
Agriculture related impacts		✓		
Crops and vegetables (specify types and cropping area in “remarks”).		✓		
Trees (specify number and types in “remarks”).		✓		
Others (specify in “remarks”).		✓		
Affected Persons (APs)		✓		
Will any people be displaced from the land when acquired? Yes/No		✓		
Number of APs		✓		
Males		✓		
Females		✓		
Titled landowners		✓		
Tenants and sharecroppers		✓		
Leaseholders		✓		
Agriculture wage laborers		✓		
Encroachers and squatters (specify in remarks column)		✓		
Vulnerable APs (e.g., women headed households, minors and aged, orphans, disabled persons and those below the poverty line). Specify the number and vulnerability in “remarks”.		✓		
Others (specify in “remarks”)		✓		
How will people be affected?		✓		

Environment and Social Screening Checklist

3. Widening of Football Chowk to Stadium Road

Screening Questions	Yes	No	Remarks
A. Project Siting Is the Sub-Project area adjacent to or within any of the following:			
Environmentally sensitive areas?			
Legally protected Area		✓	No legally protected area lies in the sub-project area
Any surface water body (river, canal, stream, lake, wetland) within 250 meter of the proposed sub project ¹⁹		✓	No surface water body is present at subproject area.
Estuarine		✓	No estuarine present in sub-project area
Special area for protecting biodiversity		✓	No such area found near sub-project site
Buffer zone of protected area		✓	No buffer zone of environmentally protected area present near sub-project site
Mangroves Forest		✓	No mangroves forest present in sub-project area
Man-made forest /game reserve, orchid /crops or any other area of environmental importance		✓	Man-made forest /game reserve, orchid /crops or any other area of environmental importance
Socially sensitive /important areas/communities/ people?			
PCRs and or any site of cultural/religious importance (Graveyard, Shrine, Mosque, Church, <i>Gordwarah</i> , Temple, Fort, archeological/historical site) within 100 m of the proposed subproject ²⁰	✓		One mosque is present and its washroom exists at 2ft of ROW however it will be covered in the tough paver and no need to dismantle the washroom
Sensitive receptors (Schools, colleges, hospitals and clinics) within 100 meter of the proposed sub project ²¹	✓		02 schools and 04 hospitals are present however they are away from the ROW and to avoid temporary hinderance in their mobility, mitigation measures will be provided in the ESMP
Any graveyard of local community (Muslims or Christians)		✓	No graveyard is present.
Any demographic or socio-economic aspects of the sub-project area that are already vulnerable (e.g., high incidence of marginalized populations, rural-urban migrants, illegal settlements, squatters, ethnic minorities, people with disabilities, people in old age, socially isolated segments ²² of the society and women or children)?		✓	No demographically or socio-economically vulnerable aspects of the sub-project were observed

¹⁹ Ibid.

Environment and Social Screening Checklist			
3. Widening of Football Chowk to Stadium Road			
Screening Questions	Yes	No	Remarks
Already existing infrastructure ²³ (including public amenities) which may be required to dismantle or may be affected temporarily by any means?		✓	There is no such existing infrastructure (including public amenities) which may be required to dismantle or may be affected temporarily by any means.
B. Potential Environmental Impacts			
Will the Sub-Project cause...			
Disturbance to habitats/biodiversity of environmentally sensitive or protected areas?		✓	No environmentally sensitive or protected area present in the sub-project area
Cutting of trees?		✓	No tree cutting is involved.
Disruption to habitats/biodiversity of surrounding ecosystem/environment?		✓	No Impact on Disruption to habitats/biodiversity of surrounding ecosystem/environment?
Generation of wastewater during construction or operation?		✓	No generation of waste water during construction phase is expected because there is no need of labor camp.
Pollution of surface water/ground water due to wastewater discharge from construction site or due to direct/indirect disposal of waste water?		✓	There is no surface body found in subproject area anyhow, no wastewater will be disposed of in nearby surface water body.
Alteration of surface water hydrology of waterways resulting in increased sediment in streams/streams or due to increased soil erosion at construction site?		✓	Not anticipated. Strict monitoring of will be done.
Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction?		✓	No labor camp is envisaged.
Over pumping of ground water, leading to salinization and ground subsidence?		✓	No over pumping will be involved.
Serious contamination of soil due to construction works?		✓	Sub-project activities do not involve use of chemicals or lubricants, only earth material, sand and cement will be used, so no serious contamination of soil is anticipated

²⁰ According to Environmental Assessment Guidelines adopted by Punjab EPA

²¹ Ibid.

²² due to caste, creed, religion or gender e.g. transgender

²³ Sewerage /Drainage system, Water supply lines, tube-wells, WAPDA/Telephone transmission lines/electric poles, Railway tracks, Gas pipelines, Roads, Shops/Plazas, Banks, Industry, Disposal stations etc.

Environment and Social Screening Checklist			
3. Widening of Football Chowk to Stadium Road			
Screening Questions	Yes	No	Remarks
Aggravation of solid waste problems in the area?		✓	No aggravation of solid waste problems in the area is anticipated. The waste construction material will be collected and disposed at designated place recommended by supervision engineer. At the end of this 200 ft away road there is open land already used for waste disposal.
Generation of hazardous waste?		✓	No hazardous chemicals will be used in project activities
Increased air pollution due to sub-project construction and operation?	✓		The subproject interventions may be caused air pollution, however regular water sprinkling will be done and Air quality will be analyzed.
Noise and vibration due to sub-project construction or operation?	✓		Noise and vibration will be generated due to construction activities and vehicles. PPEs use by labor will be ensured.
Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents due to solid/liquid?	✓		This impact can be arisen if water ponding will be done at construction site therefore this will be ensured that no water ponding will be occurred during construction phase. solid waste management will do according EMP.
Use of chemicals during construction?		✓	No chemicals will be used
C: Potential Social Impacts			
Will the Sub-Project cause...			
Impairment of historical/cultural areas; disfiguration of landscape or potential loss/damage to Physical Cultural Resources (PCRs)?		✓	No historical/ cultural areas or PCRs present in the sub-project area, therefore No impact sis envisaged.
Displacement or involuntary resettlement of people? (physical displacement and/or economic displacement) (If "Yes", please also fill Involuntary Resettlement Screening Checklist)		✓	No one will be required to be displaced or resettled due to sub-project interventions
Disproportionate impacts on the poor, women and children and or other vulnerable groups ²⁴ (mentioned above)?		✓	Sub-project will not cause any impact on any of the vulnerable groups
Temporary impediments in movements of people/transport and animals?	✓		This impact is anticipated but work will be done parts at the time of

²⁴ Women, Children, Women headed households, People in old age, people having disabilities, socially isolated community groups and or people living below the poverty line

Environment and Social Screening Checklist			
3. Widening of Football Chowk to Stadium Road			
Screening Questions	Yes	No	Remarks
			construction one side of road will be in use.
Large population influx during sub-project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?		✓	Local labor will be hired who will return to their houses after day's work and the sub-project will not cause burden on social infrastructure and services
Social conflicts if workers from other areas are hired?	✓		To avoid social conflicts local labor will be hired
Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation?	✓		There may be safety and health issues during material transportation and pipe boring. Contractor will be required to provide PPEs and implement HSE plan at site to avoid such hazards
Risks to community health and safety due to the transport, storage, and use and/or disposal of materials such as explosives, fuel and other chemicals during construction and operation?	✓		There may be safety issues during material transportation and construction activities. Health and safety SOPs will have to be implemented
Community safety risks due to both accidental and natural causes, especially where the structural elements or components of the project are accessible to members of the affected community or where their failure could result in injury to the community throughout project construction, operation and decommissioning?	✓		There may be safety issues during material transportation and Construction activities. Health and safety SOPs will have to be implemented
Any impact on sensitive receptors (mentioned above)	✓		Impact on sensitive receptors like schools and hospitals may be envisaged but it will be mitigated through effective implementation of EMP.
Any impact of negative nature on already existing infrastructure including public amenities		✓	Mosque washroom area 100ft is with in RoW. At this point there is enough space is available at opposite shoulder of road so there is no need to dismantle the that structure.



Figure 30 Condition and RoW of Road 03



Figure 29: Mosque at Road 03

Involuntary Resettlement Checklist				
3. Widening of Football Chowk to Stadium Road				
SECTION 1	Yes	No	Expected	Remarks
Does the project require land acquisition? Yes/No		✓		
If yes, then describe the type of land being acquired from the categories below:				
Has any AED been conducted at the proposed location by the government ²⁵ ? Yes/NO		✓		
Land (Quantify and describe types of land being acquired in “remarks column”).		✓		
Government and LG owned land free of occupation (agriculture or settlement)	✓			
Government or state-owned land (other than LG) free of occupation (agriculture or settlement)		✓		
Private land		✓		
Residential		✓		
Commercial		✓		
Agricultural		✓		
Communal		✓		
Others (specify in “remarks”).		✓		

²⁵ The sub-projects have to avoid all such lands where any government led AED has been conducted and such lands will be considered as ineligible expenditures.

Involuntary Resettlement Checklist				
3. Widening of Football Chowk to Stadium Road				
SECTION 1	Yes	No	Expected	Remarks
Name of owner/owners and type of ownership document if available.		✓		
If land is being acquired, describe any structures constructed on it		✓		
Land-based assets:		✓		
Residential structures		✓		
Commercial structures (specify in “remarks”)		✓		
Community structures (specify in “remarks”)		✓		
Agriculture structures (specify in “remarks”)		✓		
Public utilities (specify in “remarks”)		✓		
Others (specify in “remarks”)		✓		
If agricultural land is being acquired, specify the following:		✓		
Agriculture related impacts		✓		
Crops and vegetables (specify types and cropping area in “remarks”).		✓		
Trees (specify number and types in “remarks”).		✓		
Others (specify in “remarks”).		✓		
Affected Persons (APs)		✓		
Will any people be displaced from the land when acquired? Yes/No		✓		
Number of APs		✓		
Males		✓		
Females		✓		
Titled land owners		✓		
Tenants and sharecroppers		✓		
Leaseholders		✓		
Agriculture wage laborers		✓		
Encroachers and squatters (specify in remarks column)		✓		
Vulnerable APs (e.g. women headed households, minors and aged, orphans, disabled persons and those below the poverty line). Specify the number and vulnerability in “remarks”.		✓		

Involuntary Resettlement Checklist				
3. Widening of Football Chowk to Stadium Road				
SECTION 1	Yes	No	Expected	Remarks
Others (specify in "remarks")		✓		
How will people be affected?		✓		

Prepared By: MOI&S, MOP

Endorsed By: PO ESM

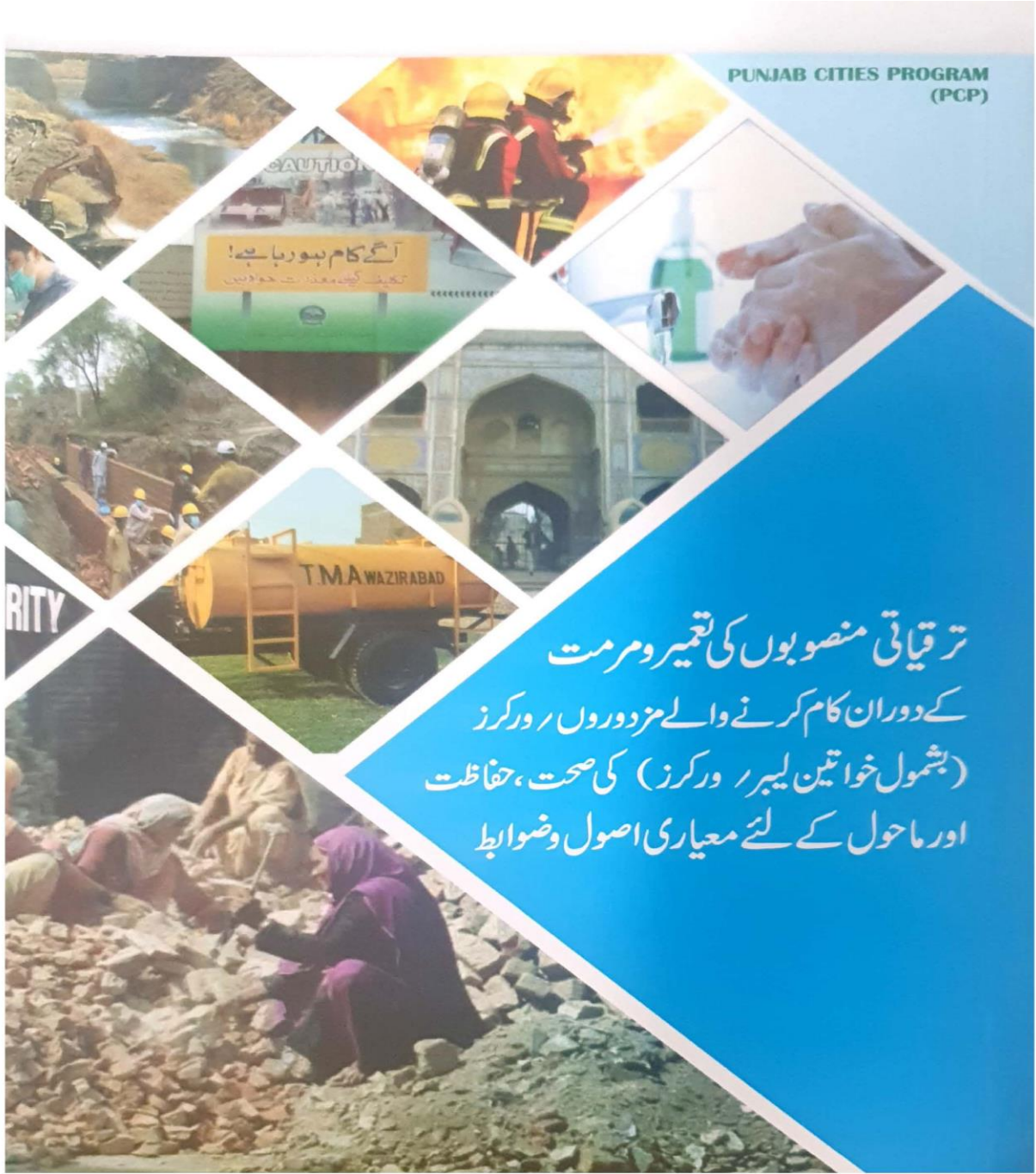
Name: Zain Ali MOI&S, Ejaz Pahore MOP

Name: Tehmina Kiran

Date: 27-10-22

Date: 27-10-22

Annexure ii: EHS SOPs for Labors/Workers (Including Women Labor/worker) for Construction of Development Project, (URDU)



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حق اشاعت

جملہ حقوق محفوظ ہیں۔

اس اشاعت کا کوئی بھی حصہ پی ایم ڈی ایف سی (PMDFC) کی پیشگی اجازت کے بغیر کسی بھی شکل میں الیکٹرانکس، مکینیکل، فوٹوکاپی، ریکارڈنگ یا کسی اور طرح سے دوبارہ بنایا یا منتقل نہیں کیا جاسکتا۔



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پیش لفظ

لوکل گورنمنٹ اینڈ کمیونٹی ڈویلپمنٹ ڈیپارٹمنٹ اور پنجاب میونسپل ڈویلپمنٹ فنڈ کمپنی (PMDFC) نے ورلڈ بینک کے اشتراک سے پنجاب سٹیٹس پروگرام (PCP) کا کامیابی سے اجرا کر دیا ہے۔ اس منصوبے کے تحت صوبہ پنجاب کے 16 چھوٹے شہروں (MCs) بشمول بہاولنگر، بورنیوالا، خانیوال، کوٹ ادو، وہاڑی، گوجرہ، جھنگ، کمالیہ، اوکاڑا، ڈسکہ، حافظ آباد، جہلم، کاموکی، مردانہ اور راولپنڈی میں ترقیاتی کاموں پر کامیابی سے کام جاری ہے۔ ان ترقیاتی منصوبوں میں ویسٹ مینجمنٹ، پانی کی فراہمی، نکاسی آب، سڑکیں، سڑکیں کی مرمت، کمیونٹی پارکس کی بحالی اور قدرتی آفات کی روک تھام کے منصوبہ جات شامل ہیں۔

پنجاب سٹیٹس پروگرام (PCP) کے منصوبہ جات کی تکمیل کے دوران سماجی اور ماحولیاتی مسائل کی جانچ پڑتال اور اس کے حل کے لئے انوائرنمنٹل اینڈ سوشل سیف گارڈز (ESSs) ٹیم نے انوائرنمنٹل اینڈ سوشل مینجمنٹ فریم ورک (ESMF) بنایا ہے۔ مختلف منصوبہ جات اسی فریم ورک کی رو سے پایہ تکمیل تک پہنچ رہے ہیں۔

تعمیراتی اور ترقیاتی کاموں کی تکمیل میں تعمیراتی جگہوں پر کام کرنے والے مزدوروں رلیبر (بشمول خواتین) کی صحت اور کام کرنے کے دوران حفاظت بہت اہمیت رکھتی ہے۔ اس اہم مسئلہ کو ملحوظ خاطر رکھتے ہوئے، پی ایم ڈی ایف سی کے زیر اہتمام پنجاب سٹیٹس پروگرام کی انوائرنمنٹل اینڈ سوشل مینجمنٹ ٹیم نے "ترقیاتی منصوبوں کی تعمیر و مرمت کے دوران کام کرنے والے مزدوروں، ورکرز (بشمول خواتین لیبر ورکرز) کی صحت، حفاظت اور ماحول کیلئے بنیادی اصول و ضوابط" مرتب کیے ہیں تاکہ متعلقہ میونسپل کمیٹی/کارپوریشنز (MCs) کے عہدیداران اور ٹھیکیداران کو آگاہی فراہم کی جائے۔



اغراض و مقاصد

۱۔ مجوزہ معیاری اصول و ضوابط پنجاب سیٹیز پروگرام (PCP) کے تحت پنجاب میونسپل ڈویلپمنٹ فنڈ کمپنی (PMDFC) کے ماہرین ماحولیات نے پروگرام ڈائریکٹر (PCP) اور ڈپٹی پروگرام ڈائریکٹر (PCP) کی زیر نگرانی تشکیل دیئے ہیں۔

۲۔ شہری ترقی کے ترقیاتی منصوبہ جات کی تعمیر و مرمت میں مزدور ورکرز بنیادی کردار ادا کرتے ہیں۔ ان (SOPs) کا بنیادی مقصد مزدور ورکرز (بشمول خواتین لیبر ورکرز) کو تعمیراتی جگہوں (Construction sites) اور لیبر کیمپس میں ماحولیاتی اور سماجی تحفظ فراہم کرنا اور صحت، ماحولیات اور کسی خطرناک صورتحال سے بچنے کے لئے حفاظت فراہم کرنا ہے۔

۳۔ یہ SOPs (PCP) پنجاب سیٹیز پروگرام کے تحت 16 شہروں کی میونسپل کمیٹیز/کارپوریشنز میں تعمیر و مرمت کے تمام پراجیکٹس پر لاگو ہوں گے۔

۴۔ یہ SOPs مزدوروں کو کام کرنے والوں کو دیہاڑی دار (بشمول خواتین) پر بلا تخصیص لاگو ہوں گے۔

۵۔ ان SOPs کو موثر اور یقینی بنانے کے لئے انھیں ٹھیکیداروں کے کنٹریکٹ کا حصہ بنانا اور ان پر عمل درآمد کرنا میونسپل کمیٹیز/کارپوریشنز کی ذمہ داری ہے۔ جسے پی ایم ڈی ایف سی کی متعلقہ پروگرام ٹیم یقینی بنائے گی۔

پیغام

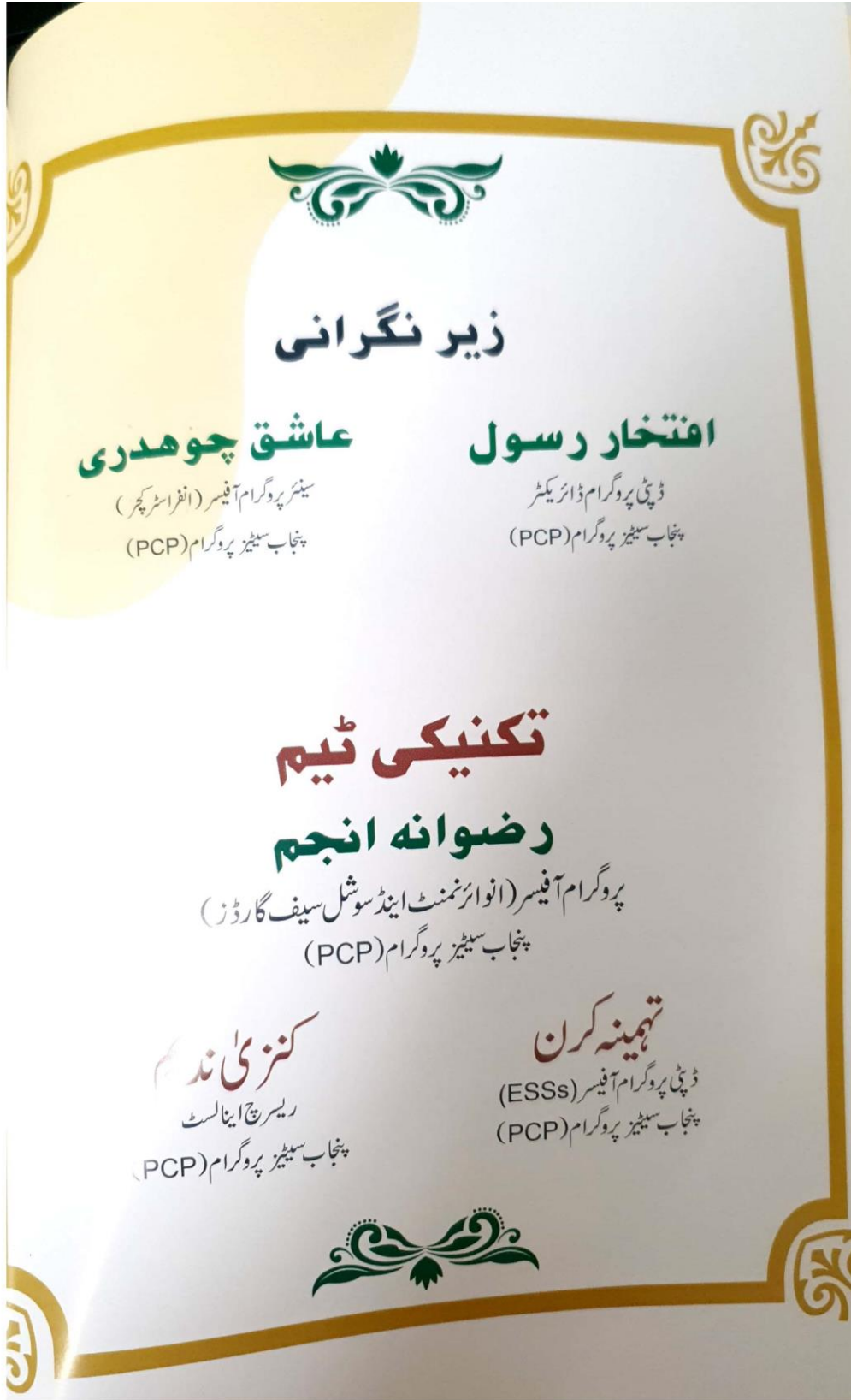


پاکستان کی ترقی میں تعمیراتی کاموں کے دوران کام کرنے والا مزدور طبقہ نہایت اہمیت کا حامل ہے اور انکے صحت و تندرستی سے متعلق مسائل کا مؤثر حل انتہائی ضروری ہے۔ "ترقیاتی منصوبوں کی تعمیر و مرمت کے دوران کام کرنے والے مزدوروں رورکرز (بشمول خواتین لیبر رورکرز) کی صحت، حفاظت اور ماحول کیلئے بنیادی اصول و ضوابط" کی اشاعت و ترویج اور ان پر بروقت عمل درآمد بے حد ضروری ہے جس سے اس طبقے کے بنیادی حقوق کا تحفظ یقینی بنایا جاسکے گا اور اس طرح اس طبقے کی کارکردگی میں بھی بہتری نظر آئے گی۔ ان اصولوں کے تحت ہر ٹھیکیدار کو رورکرز کی صحت اور حفاظت کی ذمہ داری دی گئی ہے۔ مزدور تعمیراتی کاموں کے دوران خطرات کے مطابق ذاتی حفاظتی سامان بھی استعمال کریں گے جس سے دوران کام حادثات میں بھی نمایاں کمی نظر آئے گی۔ ماحولیات اور صحت کے اصولوں کو مد نظر رکھتے ہوئے ہر سطح پر ہم اس بات کو یقینی بنانے کی کوشش کریں گے کہ ہماری پالیسیاں اور طرز عمل فعال ہوں۔ ماحولیات، صحت اور حفاظت (EHS) کے اصولوں کو اپنانے میں کسی بھی قسم کا سمجھوتہ نہیں کیا جائے گا۔ میں امید کرتا ہوں کہ ان اصول و ضوابط کی روشنی میں مزدور رورکرز (بشمول خواتین لیبر) کے حقوق کی پاسداری کو ایک نیا رخ ملے گا اور حکومتی عہدیداران اور ٹھیکیداران بھی اپنی ذمہ داریوں کا احساس کریں گے۔ اور اس سلسلے میں پی ایم ڈی ایف سی اور پنجاب سٹیٹیز پروگرام کی انوائرنمنٹ اینڈ سوشل سیف گارڈز (ESSs) ٹیم بلاشبہ مبارکباد کی مستحق ہے اور یہ توقع کی جاسکتی ہے کہ وہ مستقبل میں ان قواعد و ضوابط کی نگرانی کے لئے بھرپور اقدامات کریں گے۔

محمد عامر نذیر

پروگرام ڈائریکٹر
پنجاب سٹیٹیز پروگرام (PCP)

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(۱) لیبر کیمپس کے لئے معیاری اصول و ضوابط

سرگرمیاں

۱. مزدور / لیبر کیلئے عارضی کیمپ / رہائش گاہ کے انتظام و قیام کے لئے جگہ کا انتخاب

مسائل

- ◆ مقامی آبادی کے مسائل پر اضافی بوجھ
- ◆ مقامی آبادی سے تنازعات کا خدشہ
- ◆ سماجی، مذہبی، اور سیورٹی کے مسائل۔

حفاظتی اقدامات


ٹھیکیدار لیبر کیمپس کے قیام کے وقت مندرجہ ذیل باتوں کا خیال رکھے گا :

- ◆ کیمپس ایسی جگہوں پر لگائے جائیں جو ماحولیاتی، مذہبی، سماجی اور ثقافتی نقطہ نظر سے قابل قبول ہوں۔
- ◆ مقامی آبادی کے ساتھ کسی تنازعہ سے بچنے کے لیے آبادی سے دور جگہ کا انتخاب کیا جائے
- ◆ لیبر کیمپ کی جگہ اور سہولیات سے متعلق ایک تفصیلی نقشہ تیار کر کے متعلقہ میونسپل کمیٹی / کارپوریشن میں جمع کرایا جائے۔
- ◆ دیگر مقامی ادارے جیسے صحت، سیورٹی وغیرہ کو لیبر کیمپ کے مقام اور مدت کے بارے میں مطلع کیا جائے تاکہ کسی ناگہانی صورتحال سے بچا جاسکے۔
- ◆ لیبر کیمپس کے قیام کیلئے عارضی جگہ زمین کا حصول زمین کے مالک کی مرضی، طے کردہ کرایہ اور باقاعدہ تحریری معاہدے کی صورت میں کیا جائے۔
- ◆ لیبر کیمپس سے ملحقہ بنیادی سہولتوں جیسے پینے کا پانی اور نکاسی آب کے انتظامات سے ماحولیاتی آلودگی میں اضافہ نہ ہو



پی ایم ڈی ایف سی ۲

انوائرنمنٹ اینڈ سوشل سیف گارڈز ٹیم



سرگرمیاں

۲. لیبر کیمپ میں مہیا کی جانے والی سہولیات

مسائل

- ◆ مناسب انفراسٹرکچر کی کمی
- ◆ بنیادی ضروریات اور سہولیات جیسے پانی اور بجلی کی فراہمی، صفائی ستھرائی کی سہولیات اور نکاسی آب کی فراہمی

حفاظتی اقدامات

تھیکیدار کیمپ سائٹس پر درج ذیل باتوں کا خیال رکھے گا:


- ◆ ہوادار اور صاف ستھری رہائش گاہ
- ◆ عارضی کمروں کیلئے ایسے میٹرل کا استعمال جو جلد آگ نہ پکڑیں۔
- ◆ نہانے، دھونے اور پانی پینے کیلئے صاف اور مناسب پانی کی فراہمی۔
- ◆ تمام مزدوروں کیلئے مناسب جگہ کی موجودگی اور محفوظ ماحولیاتی معیار۔
- ◆ صاف ستھرے واش رومز اور نکاسی آب کا مناسب انتظام۔
- ◆ خواتین لیبر کیلئے پردے اور پرائیویسی کا انتظام اور الگ کمروں کا قیام مزید براں خواتین لیبر کی موجودگی کی صورت میں اُنکے لیے علیحدہ ٹوائلٹس رومز کا انتظام۔
- ◆ بین الاقوامی معیار کے مطابق ہر دس افراد کیلئے مطلوبہ ٹوائلٹ کی سہولت کی تعداد ایک ہے۔
- ◆ اگر لیبر کیمپ طویل مدت کیلئے لگایا جانا ہو تو بارشوں، سیلاب کے پانی سے بچنے کیلئے مناسب انتظامات کا ہونا اور نکاسی آب کی فراہمی بے حد ضروری ہے۔
- ◆ ٹوائلٹس اور عارضی رہائش گاہوں میں بجلی کی فراہمی کو یقینی بنایا جائے۔

سرگرمیاں

۳. لیبر کیمپ سے پیدا ہونے والا سالد اور لیکونڈ ویسٹ

مسائل

- ◆ تغفن اور بدبو
- ◆ صحت کے لئے نقصان
- ◆ ماحولیات کے لئے نقصان
- ◆ مقامی آبادی کے لئے نقصان
- ◆ بیماریاں پیدا کرنے والے بیکٹیریا اور مچھروں کا ذریعہ



انوائٹرنمنٹ اینڈ سوشل سیف گارڈ ٹیم

پی ایم ڈی ایف سی

حفاظتی اقدامات

- ◆ روزمرہ پیدا ہونے والے کوڑا کرکٹ اور کچن کے کوڑا کرکٹ کے لیے الگ الگ کوڑا دانوں کا انتظام
- ◆ میونسپل کمیٹی رکارپوریشن کی جانب سے منتخب کردہ جگہ پر روزانہ کی بنیاد پر کوڑے کو اٹھانے اور تلف کرنے کا مناسب انتظام۔
- ◆ عارضی ٹرانسلس سے پیدا شدہ فضلے اور ریکولڈو ایسٹ کو حفظان صحت کے اصولوں کے مطابق ٹھکانے لگانے کا انتظام۔
- ◆ فضلے کو ٹھکانے لگانے کے لیے رہائش گاہ سے کم از کم 500 میٹر دور جگہ کا انتخاب کیا جائے جس کے ارد گرد لوگوں کی رہائش نہ ہو۔
- ◆ عارضی ٹرانسلس سے پیدا شدہ فضلے کو ٹھکانے لگانے کے لیے منتخب کردہ جگہ کے ارد گرد باڑا لگائی جائے یا درخت لگا دے جائیں تاکہ بچے اور دیگر رہائشی داخل نہ ہوں اور مچھر اور بدبو بھی پیدا نہ ہو۔

سرگرمیاں

۴۔ کھانا پکانے کے لیے ایندھن کی فراہمی


مسائل

- ◆ گیس اور دیگر ایندھن سے چلنے والے چولہوں کے پھٹنے کا اندیشہ
- ◆ ایندھن کے لیے لکڑی کے حصول کے لیے درختوں کی کٹائی

حفاظتی اقدامات

تھیکیدار کیمپ سائٹس پر درج ذیل سہولیات مہیا کرے گا۔

- ◆ لیبر کیمپس میں کھانا پکانے، کمروں کو گرم رکھنے نیز سردیوں میں نہانے اور دھونے کے لیے گرم پانی کے لیے ایندھن کی لکڑی یا دیگر بایو گیس استعمال کرنے کی حوصلہ شکنی کریں اور ایندھن کیلئے درختوں کی کٹائی نہ کریں۔
- ◆ درختوں اور ارد گرد جنگلات کی حفاظت کیلئے مزدوروں، لیبر کو آگاہی دی جائے۔
- ◆ کھانا پکانے کے لیے قدرتی گیس یا مٹی کے تیل کے محفوظ چولہے استعمال کیے جائیں۔





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چوتھوں
جائے
کس
میں
خفا
میں

سرگرمیاں
5. جانوروں / پرندوں کا شکار خرید و فروخت

مسائل
♦ جنگلی حیات کو خطرات
♦ ماحولیاتی وسائل کو خطرات

حفاظتی اقدامات
♦ لیبر مزدوروں کو گاہی فراہم کی جائے کیونکہ ارد گرد موجود کسی بھی قسم کی جنگلی حیات کو نقصان پہنچانا، ان کے گھونسلوں پر پناہ گاہوں میں کوئی مداخلت کرنا، شکار کرنا یا جانوروں / پرندوں کو قید کرنا اور خرید و فروخت کرنا، پنجاب وائلڈ لائف (پروفیکشن، پریزرویشن، کنزرویشن اینڈ مینجمنٹ ایکٹ 1974) کے مطابق ممنوع اور سرقابل تعزیر جرم ہے۔

سرگرمیاں
6. حفظان صحت کے اصول

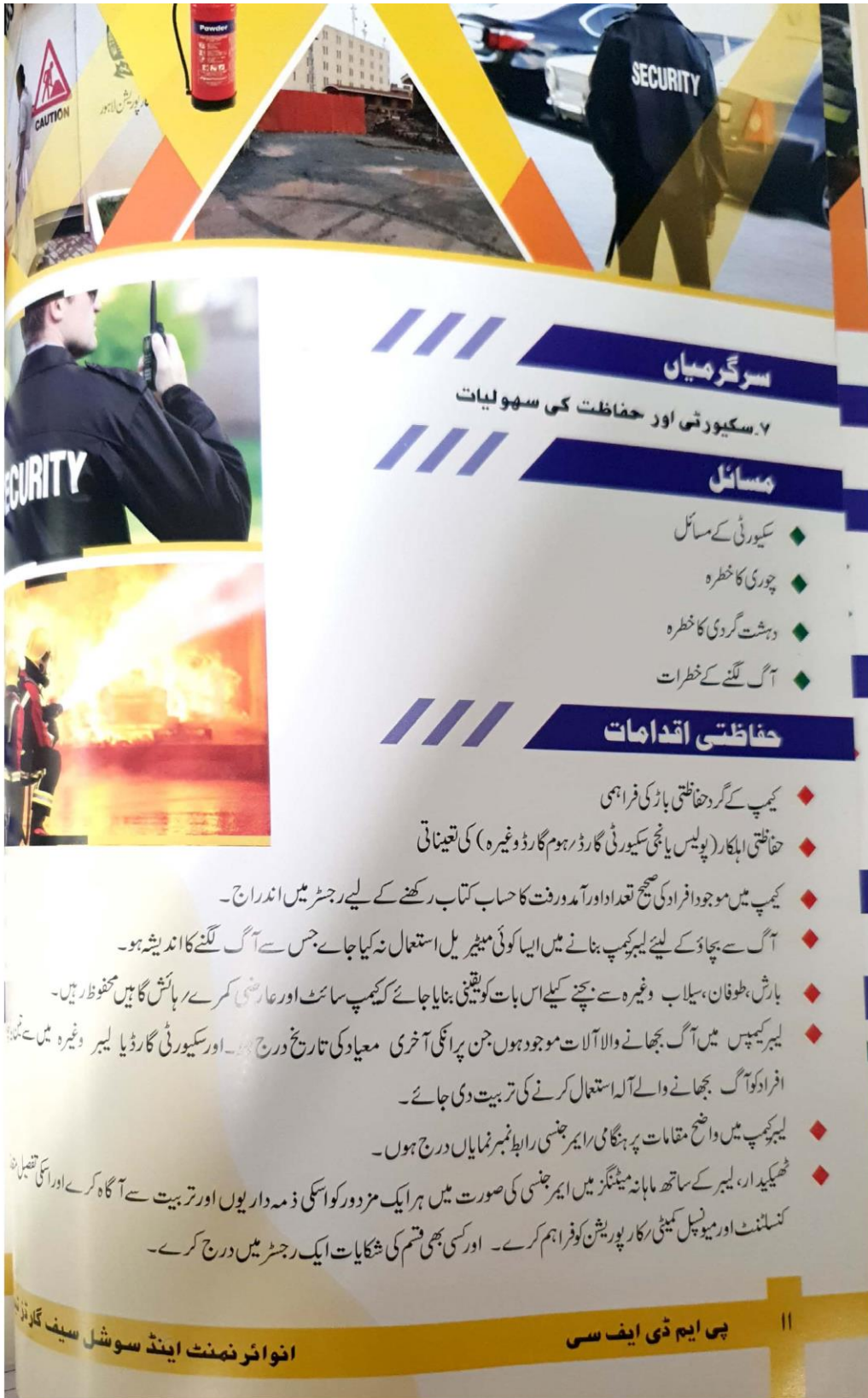
مسائل
♦ حفظان صحت کے رہنما اصولوں پر عملدرآمد کرنے کی صورت میں مختلف بیماریاں مثلاً کرونا وائرس، بلیمبر، ایچ آئی وی ایڈز اور دیگر انفیکشنز کے پھیلنے کا خوف

حفاظتی اقدامات
تھیکیدار لیبر کیمپس میں درج ذیل انتظامات مہیا کرے گا:
♦ لیبر کیمپس میں صحت و صفائی کی مناسب سہولیات کی فراہمی
♦ بیرونی علاقوں سے آنے والے مزدوروں کی صحت کی ابتدائی سکریننگ

9 پی ایم ڈی ایف سی
انوائٹمنٹ اینڈ سوشل سیف گارڈز ٹیم

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- ◆ چوبیس گھنٹے لیبر کیسپس میں پرفرسٹ ایڈکس کی سہولت موجود ہو۔ کیسپ سائنس میں ابتدائی طبی امداد سے متعلقہ دواؤں کا موجود ہونا یقینی بنایا جائے۔ اور طویل المدتی کیسپ کی صورت میں کسی ڈپنسر رڈ اکثر کیسپ میں موجود ہونا چاہیے۔
- ◆ کسی ایمرجنسی کے دوران مزدوروں کے لیے ایبولینس کی سہولت فراہم کی جائے اور ایمرجنسی سروسز 1122 یا 15 پر کال کرنے کے لیے ٹیلیفون نمونہ کی سہولت مہیا کی جائے۔
- ◆ حفظانِ صحت کے بہترین اصولوں، صفائی ستھرائی اور صحت کی دیکھ بھال کے امور کیلئے مزدوروں/لیبر کو تربیت فراہم کی جائے جس میں تمام مزدوروں کی شرکت کو یقینی بنایا جائے۔
- ◆ جنسی طور پر منتقل ہونے والی بیماریوں اور ایڈز وغیرہ کے بارے میں مزدوروں کو مکمل معلومات فراہم کی جائیں اور ان بیماریوں سے بچنے کے لیے حفاظتی اصول اپنانے پر زور دیا جائے۔
- ◆ مچھروں اور دیگر بیکٹیریا کو پیدا ہونے سے روکنے کیلئے حفاظتی سپرے لازمی کرائے جائیں۔
- ◆ کروٹا سے بچنے کے لیے ابتدائی سکریننگ یقینی بنائیں اور بار بار ہاتھ دھونے پر زور دیں اور علامات ظاہر ہونے پر فوری طور پر دیگر مزدوروں سے آئسولیشن کے مکمل اصولوں پر سختی سے عمل کیا جائے۔
- ◆ لیبر کیسپس کے اندر مناسب مقامات پر حفظانِ صحت کے اصولوں سے متعلقہ پیغامات اور طریقے ڈسپلے کیے جائیں اور تربیتی پروگرام کا اہتمام کیا جائے۔
- ◆ قریبی ڈسپینسری/ہسپتال/کلینک/ہسپتال کے رابطہ نمبر وغیرہ واضح مقامات پر آویزاں کئے جائیں۔



سرگرمیاں
۷. سکیورٹی اور حفاظت کی سہولیات

مسائل

- ◆ سکیورٹی کے مسائل
- ◆ چوری کا خطرہ
- ◆ دہشت گردی کا خطرہ
- ◆ آگ لگنے کے خطرات

حفاظتی اقدامات

- ◆ کیپ کے گرد حفاظتی باڑی فراہمی
- ◆ حفاظتی الہکار (پولیس یا نجی سکیورٹی گارڈز، ہوم گارڈ وغیرہ) کی تعیناتی
- ◆ کیپ میں موجود افراد کی صحیح تعداد اور آمدورفت کا حساب کتاب رکھنے کے لیے رجسٹر میں اندراج۔
- ◆ آگ سے بچاؤ کے لیے لیبر کیپ بنانے میں ایسا کوئی میٹیریل استعمال نہ کیا جائے جس سے آگ لگنے کا اندیشہ ہو۔
- ◆ بارش، طوفان، سیلاب وغیرہ سے بچنے کیلئے اس بات کو یقینی بنایا جائے کہ کیپ سائٹ اور عارضی کمرے رہائش گاہیں محفوظ رہیں۔
- ◆ لیبر کیپس میں آگ بجھانے والی آلات موجود ہوں جن پر انکی آخری معیاد کی تاریخ درج ہو۔ اور سکیورٹی گارڈ یا لیبر وغیرہ میں سے نمونہ افراد کو آگ بجھانے والے آلہ استعمال کرنے کی تربیت دی جائے۔
- ◆ لیبر کیپ میں واضح مقامات پر ہنگامی ایمر جنسی رابطہ نمبر نمایاں درج ہوں۔
- ◆ ٹھیکیدار، لیبر کے ساتھ ماہانہ میٹنگز میں ایمر جنسی کی صورت میں ہر ایک مزدور کو اسکی ذمہ داریوں اور تربیت سے آگاہ کرے اور اسکی تفصیلات کنسلٹنٹ اور میونسپل کمیٹی/کارپوریشن کو فراہم کرے۔ اور کسی بھی قسم کی شکایات ایک رجسٹر میں درج کرے۔

انوائٹمنٹ اینڈ سوشل سیف کنٹرول

پی ایم ڈی ایف سی

۱۱

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سرگرمیاں

۸. حفظان صحت کے اصولوں پر مبنی خوراک (Food Safety)

مسائل

- ◆ نوڈ پوائزنگ کا خدشہ
- ◆ بیماری کا ڈر

حفاظتی اقدامات

- ◆ مزدوروں کو صاف ستھرے اور تازہ کھانے کی فراہمی کو یقینی بنایا جائے۔

سرگرمیاں

۹. مذہبی و سماجی میل جول

مسائل

- ◆ مذہبی عبادات میں رکاوٹ
- ◆ سماجی تعلقات میں دشواری
- ◆ سماجی، ثقافتی اور مذہبی خیالات میں شدت پسندی یا لڑائی جھگڑا وغیرہ

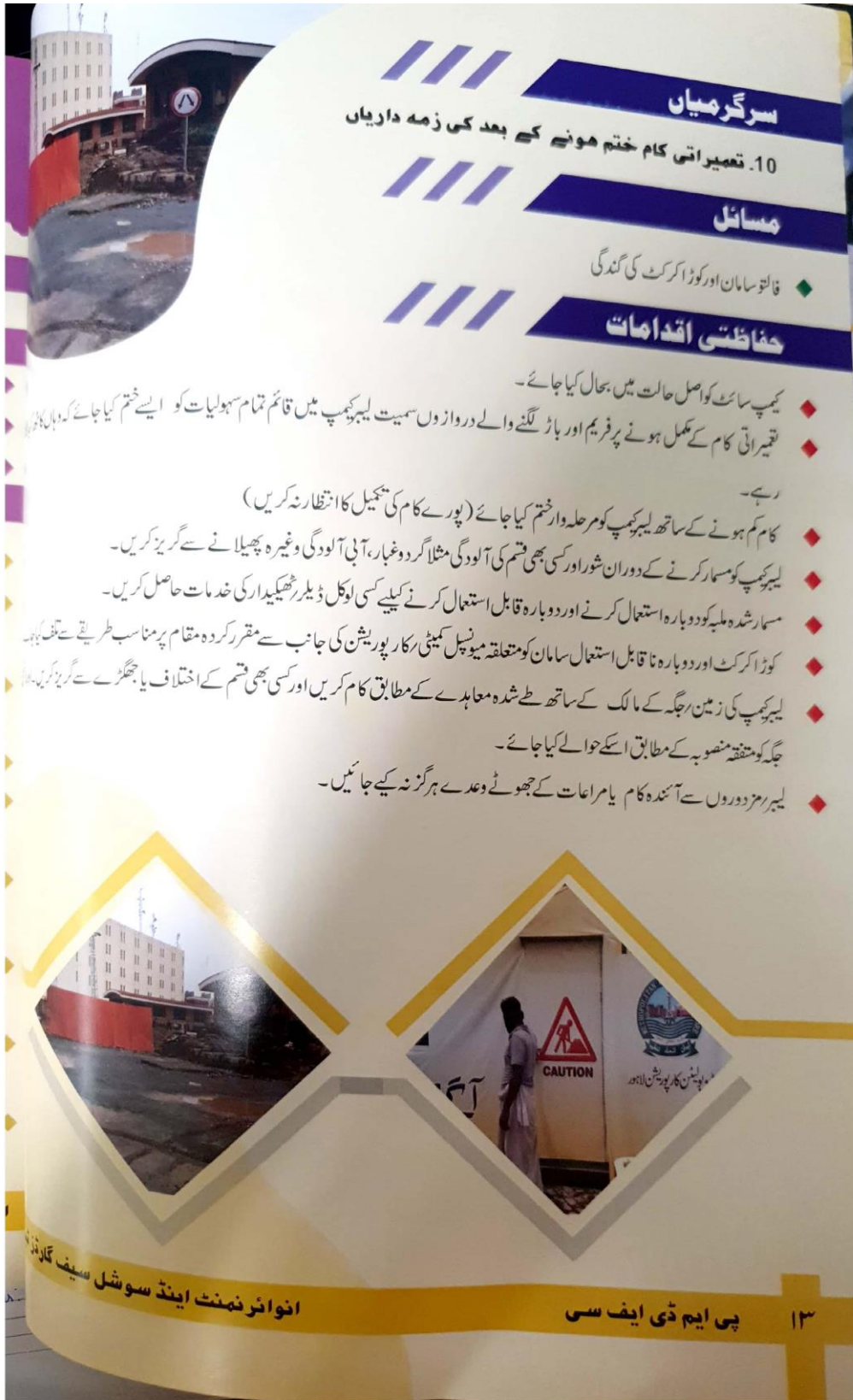
حفاظتی اقدامات

- ◆ مزدوروں ریلیبر کو ان کے مذہب اور فرقے کے مطابق مذہبی عبادات کی سہولیات فراہم کرنا۔
- ◆ خواتین لیبر کی موجودگی کی صورت میں ان کے لیے علیحدہ وضو، نماز اور پردے کا اہتمام کیا جائے۔
- ◆ تمام مزدوروں کی مذہبی، ثقافتی یا فرقے کی وابستگی سے قطع نظر غیر متعصبانہ اور برابری کا سلوک کیا جائے۔
- ◆ مزدوروں کو تعمیراتی کام کے دوران نماز میں شرکت کرنے یا دیگر عبادات کی اجازت دی جائے اور اس سلسلے میں مذہبی اور سیورٹی امور کے ذمہ دار مقامی حکام کو تعمیراتی کاموں کے آغاز سے پہلے باضابطہ طور پر آگاہ کیا جائے تاکہ صحت عامہ، معاشرتی اور حفاظتی امور پر موثر نگرانی برقرار رہ سکے۔

انوائسمنٹ اینڈ سوشل سیف گارڈز ٹیم

پی ایم ڈی ایف سی ۱۲

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سرگرمیاں

۱. تمام قسم کے تعمیراتی سرگرمیاں اور کام

مسائل

- انجریز اور چوٹیں وغیرہ
- نامناسب دیکھ بھال اور بروقت امداد نہ ملنےک باعث ہلاکت
- دہشت گردی اور سکیورٹی سے متعلق خطرات

حفاظتی اقدامات

- تمام مزدوروں/لیبر سے مقامی رہین الاقوامی معیار کے مطابق مناسب حفاظتی اور قانونی ضوابط کی پیروی کروائی جائے۔
- کام کی جگہ پر ارد گرد کے علاقوں میں موجود دہشت گردی اور سکیورٹی کے خطرات کے مطابق حکمت عملی کی بروقت تیاری اور ایک محفوظ و صحت مند ماحول مہیا کیا جائے۔
- مزدوروں/لیبر کیلئے ذاتی حفاظت کے سامان (PPEs) کی فراہمی مثلاً حفاظتی جوتے، ہیلمٹ، ماسک، دستانے، حفاظتی لباس، چشمے، چبرے اور کان کی حفاظت کے سامان وغیرہ کی فراہمی
- تمام مزدوروں/لیبر کو ذاتی حفاظت کے ساز و سامان کے بارے میں مکمل آگاہی اور استعمال کے طریقے کار کے بارے تربیت کا انتظام۔
- اگر تعمیراتی کام ایک ماہ سے زائد عرصہ کیلئے جاری رہنا ہو تو تمام مدت کے لیے صحت، صفائی اور تربیت یافتہ ماحولیات کی تعیناتی کی جائے جو مزدوروں کی صحت، صفائی اور ماحولیات کے امور کی نگرانی کرے اور انھیں تربیت و آگاہی فراہم کرے۔
- تعمیراتی کاموں کے دوران کسی چوٹ لگنے/انجریز کی صورت میں مزدور/لیبر کے علاج معالجے کی سہولت مہیا کرنا اور بروقت ہسپتال/ڈسپنسری وغیرہ پہنچانا ٹھیکیدار کی ذمہ داری ہے۔
- مزید برآں دوران تعمیراتی کام کی وجہ سے لگنے والی چوٹ/انجریز کے نتیجے میں ہلاکت ہو جانے کی وجہ سے مزدور/لیبر کی انشورنس اور اس کی بروقت ادائیگی کو یقینی بنایا جائے۔
- ایمرجنسی رابطہ نمبر مثلاً 1122 یا 15 اور دیگر قریبی ہسپتالوں/ڈسپنسری وغیرہ کے نمبر تعمیراتی جگہوں پر واضح درج ہونے چاہیں اور کال کی سہولت فراہم کی جائے۔
- شہری ترقی کے تعمیراتی منصوبہ جات کے آغاز سے قبل صحت، مذہبی امور اور شہری تحفظ/سکیورٹی فراہم کرنے والے مقامی اداروں کو آگاہ رکھا جا۔ اور اس سلسلے میں متعلقہ میونسپل کمیٹی/کارپوریشن کے تعاون سے موثر حکمت عملی تشکیل دی جائے۔

سرگرمیاں


۲. تمام قسم کی تعمیراتی سرگرمیاں اور کنسٹرکشن کے کام

مسائل

- ◆ 15 سال سے کم عمر بچوں کی صحت اور تعلیم کا نقصان
- ◆ 18 سال اور اس سے کم عمر بچوں کی صحت کا نقصان
- ◆ حاملہ مزدور عورتوں کی صحت سے متعلقہ خطرات

حفاظتی اقدامات

- ◆ دی پنجاب رسٹرکشن آن ایمپلائمنٹ آف چلڈرن ایکٹ 2016 کے مطابق 15 سال سے کم عمر بچوں کو مزدوری یا کسی سرگرمی کے لیے کام پر نہیں رکھا جاسکتا۔
- ◆ ویسٹ پاکستان میٹرنٹی ہینڈ آرڈیننس 1958 کے مطابق حاملہ خواتین یا ایسی خواتین جنہوں نے چھ ہفتے قبل سچے کو جنم دیا ہو، کو مزدوری یا کسی سرگرمی کے لیے کام پر نہیں رکھا جاسکتا۔
- ◆ دی پنجاب رسٹرکشن آن ایمپلائمنٹ آف چلڈرن ایکٹ 2016 کے مطابق 18 سال اور اس سے کم عمر کے بچوں کو محنت مزدوری کے ایسے کام کے لیے نہیں رکھا جاسکتا جن میں صحت کو نقصان پہنچنے یا چوٹ لگنے یا کسی کیمیائی زہریلے مادے سے نقصان پہنچنے یا جہاں ہڈی ٹوٹنے کا اندیشہ ہو۔



پی ایم ڈی ایف سی ۱۵

انوائرنمنٹ اینڈ سوشل سیف گارڈز ٹیم



سرگرمیاں

۳. دوران تعمیر حادثات کا پیش آنا

مسائل

- ◆ فوری طبی امداد کی کمی
- ◆ اردگرد کے علاقوں میں ابتدائی طبی سہولیات اور صحت عامہ کا فقدان

حفاظتی اقدامات



- ◆ تعمیراتی جگہ پر فرسٹ ایڈ باکس کی موجودگی کو یقینی بنایا جائے اور فرسٹ ایڈ باکس میں تمام ضروری ادویات اور طبی امداد کا ضروری سامان موجود ہو۔
- ◆ تعمیراتی کاموں کے دوران پیش آنے والے حادثات بیماریوں اور واقعات کا مکمل ریکارڈ رکھا جائے۔ اسی طرح حادثات کی نوعیت و وجوہات کا مکمل ریکارڈ موجود ہو۔
- ◆ مزدوروں کی صحت و سیورٹی سے متعلق ممکنہ خطرات کی بروقت نشاندہی کی جائے خاص کر وہ خطرات جو جان لیوا ثابت ہو سکتے ہیں۔ اور ضروری حفاظتی اقدامات بروقت کئے جائیں۔
- ◆ تعمیراتی کاموں سے متعلق مشینری چلانے والے ڈرائیوروں کو دوران ڈرائیونگ قواعد و ضوابط پر سختی سے عملدرآمد کرانے کے لئے آگاہی فراہم کی جائے۔
- ◆ تعمیراتی علاقوں اور سڑکوں کے ساتھ ساتھ روشنی کا معقول انتظام ہو۔



پی ایم ڈی ایف سی ۱۶

انوائرنمنٹ اینڈ سوشل سیف گارڈز ٹیم

سرگرمیاں

۴. تعمیراتی مقامات پر پانی اور صفائی ستھرائی کی سہولیات اور سالڈ ویسٹ مینجمنٹ

مسائل

- ◆ صحت کو خطرہ
- ◆ ارد گرد علاقے کے لوگوں کے لئے ناگواری کا باعث
- ◆ چھسروں اور دیگر بیکٹیریا کی افزائش نسل کا ذریعہ

حفاظتی اقدامات

- ◆ تعمیراتی جگہوں پر تمام مزدوروں کے لئے پینے کے لئے صاف ستھرا پانی مہیا کیا جائے۔
- ◆ اگر تقریباً 25 مزدور ایک مہینہ کے لئے سارا دن کام کر رہے ہوں تو ان کے لیے تعمیراتی جگہوں پر پورٹ ایبل ٹوائلٹ کا انتظام کیا جائے جو مقامی ڈرنیج سسٹم سے ملحق ہوں اور مقامی ڈرنیج سسٹم کی غیر موجودگی میں مقامی ندی نالوں وغیرہ سے کم از کم 6 میٹر کے فاصلے پر ہوں۔ مزید برآں پورٹ ایبل ٹوائلٹس کی صفائی ستھرائی کو روزانہ کی بنیاد پر یقینی بنایا جائے۔
- ◆ تعمیراتی کاموں کے دوران کھدائی سے حاصل شدہ گارا، مٹی، ریت، کنکریٹ وغیرہ کو تعمیراتی جگہ پر ایک دن سے زائد مدت کے لئے کھلانہ نہیں دیا جائے۔ اور روزانہ کی بنیاد پر متعلقہ میونسپل کمیٹی کارپوریشن کی جانب سے مقرر کردہ جگہ پر مناسب طریقے سے ٹھکانے لگایا جائے۔

۷۱ پی ایم ڈی ایف سی

انوائسمنٹ اینڈ سوشل سیف گارڈز

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سرگرمیاں

کورونا وائرس کی وبا کے دوران حفاظتی تدابیر

حفاظتی اقدامات











گورنمنٹ آف پنجاب اور ورلڈ بینک کی ہدایات کے مطابق کرونا کی وبا کے دوران درج ذیل حفاظتی اقدامات کی پابندی کروانا کنٹریکٹر کی ذمہ داری ہے :

- ◆ کرونا وائرس کی وبا کے دنوں میں کنسٹرکشن سائٹ پر ہاتھ دھونے کیلئے پانی (پورٹ ایبل ہینڈ واشنگ کی سہولت) اور صابن مہیا کیا جائے اور لیبر کو بار بار صابن سے ہاتھ دھونے کی تلقین کی جائے۔
- ◆ لیبر کمپس میں اور کنسٹرکشن سائٹ پر سوشل ڈسٹینسنگ (6m کا فاصلہ) کے اصولوں کو مدنظر رکھا جائے۔
- ◆ کرونا وائرس کی وبا کے دوران اس بات کا خاص خیال رکھا جائے کہ اگر کنسٹرکشن سائٹ پر آبادی میں وبا پھیلی ہوئی ہے تو آبادی اور مقامی لوگوں سے دور رہیں اور کسی قسم کا میل جول نہ رکھیں۔ اسی طرح اگر کوئی مزدور وبا کے علاقے سے روزانہ کی بنیاد پر آ رہا ہے تو اسے باقی لوگوں/مزدوروں سے میل جول سے دور رکھا جائے۔
- ◆ اگر کسی مریض میں وائرس کی علامات (خشک کھانسی، نزلہ، زکام، بخار وغیرہ) پائی جائیں تو اسے فوراً دوسرے مزدوروں سے آئسولیٹ کر دیا جائے اور ٹیسٹ کروانے کیلئے کہا جائے۔
- ◆ وبا کے دوران کنسٹرکشن سائٹ پر دیگر PPEs کے ساتھ ساتھ مزدوروں کو ماسک لازمی استعمال کرایا جائے۔












انوائٹرنمنٹ اینڈ سوشل سیف گارڈز ٹیم

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تعمیراتی کاموں کے دوران خطرات / حادثات سے بچنے کیلئے سامان برائے ذاتی حفاظت کا خلاصہ			
تعمیراتی کام	مقصد	تجویز کردہ سامان برائے ذاتی حفاظت	تصویروں
اڑنے والے ذرات کا استعمال جیسے پھلی ہوئی دھات مائع ٹیکسیکل، گیس، اور بخارات، روشنی کی شعاعیں۔	آنکھوں اور چہرے کی حفاظت / تحفظ	حفاظتی عینکیں	
ایسے تمام کام جن میں گرنے کا خطرہ ہو، بلندی پر کام کرنا، تعمیراتی کام کو سنبھالنے اور دوسری جگہ پر منتقل کرنے والے کام۔	سر کی حفاظت / تحفظ	اوپر اور اطراف سے نقصان سے بچاؤ کیلئے پلاسٹک کے ہیلمٹ	
کھدائی / شور پیدا کرنے والے کام یا بھاری مشینری استعمال کرنے کی وجہ سے شور۔	سماعت کی حفاظت / تحفظ	سماعت کی حفاظت کے آلہ جات جیسے کن پوٹ یا ایئر پلگ	
تمام تعمیراتی کام جن میں چیزوں کا گرنا یا گھمانا، ٹوکیلی اشیاء شامل ہوں۔ گلانے والا یا گرم مائع، پکڑے کے ڈھیر سے پکڑا اٹھانا۔	پلوں کی حفاظت / تحفظ	بلنے اور گرنے والی اشیاء، مائع اور کیمیائی مواد سے بچاؤ کیلئے حفاظتی جوتے یا بوٹ	
جسمانی صحت کیلئے نقصان دہ سامان جیسے پکڑے کو سنبھالنا، ایسے کام جس میں کاٹ یا گہرے زخم لگنے کا اندیشہ ہو، ارتعاش، بہت زیادہ درجہ حرارت۔	ہاتھوں کی حفاظت / تحفظ	ربڑ یا مصنوعی مواد (نیورو پین)، چمڑا، سٹیل، غیر موصل مواد سے بنے گلووز	
دھول، دھند، شعلے، گیس، دھواں، بخارات	تحفظ تنفس	ایک جگہ سے دوسری جگہ لے جانے والے یا ایک ہی جگہ پڑے مواد کی فراہمی تعمیراتی جگہ پر بچاؤ کا سامان	
آکسیجن کی کمی		چہرے کے ماسک جن میں دھول ہٹانے اور ہوا کو صاف رکھنے کیلئے (کیمیائی مواد، دھند، بخارات اور گیسوں سے) مناسب فلٹر لگے ہوں	
تمام کام جن میں شدید درجہ حرارت، نقصان دہ مواد، حیاتیاتی ایجنٹ، چھوٹے یا گہرے زخم لگنے کا اندیشہ ہو	جسم / ٹانگوں کی حفاظت / تحفظ	مناسب میٹرل سے بنے غیر موصل کپڑے، اسپرن وغیرہ	
تمام تعمیراتی کام جو 4 فٹ یا اس سے زیادہ کی اونچائی پر کے جانے ہوں بشمول سٹریٹ لائٹس وغیرہ	اونچائی پر کام کرتے ہوئے حفاظت	ہیلمٹ، حفاظتی عینکیں، ہارن کے گلووز اور بڑے کے بوٹ	
تمام تعمیراتی کام جو 4 فٹ یا اس سے زائد اونچائی پر مسلسل ایک دن کیلئے کیے جانے ہوں	اونچائی پر کام کرتے ہوئے حفاظت	اسٹیکر، ہیلمٹ، رسی، کینیکٹر، سہلے، ہارن جگہ اور ایک ساتھی فرد	

Summary of Recommended Personal Protective Equipment According to Hazard

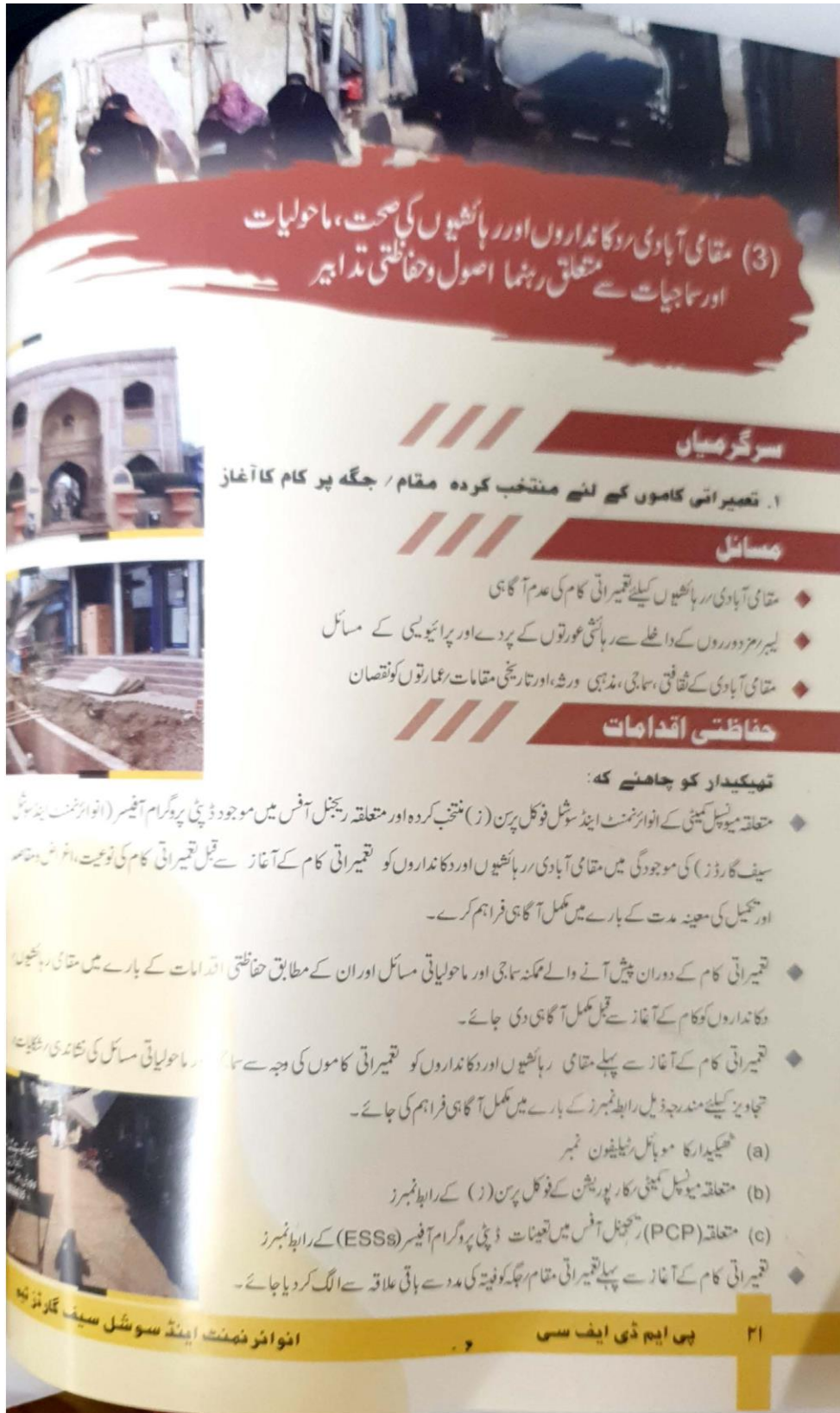
Objective	Workplace Hazards	Suggested PPE	Pictures
Eye and face protection	Flying particles, molten metal, liquid chemicals, gases or vapors, light radiation.	Safety Glasses with side-shields, protective shades, etc.	
Head protection	Falling objects, inadequate height clearance, and overhead power cords.	Plastic Helmets with top and side impact protection.	
Hearing protection	Noise, ultra-sound.	Hearing protectors (ear plugs or ear muffs).	
Foot protection	Falling or rolling objects, pointed objects. Corrosive or hot liquids.	Safety shoes and boots for protection against moving & falling objects, liquids and chemicals.	
Hand protection	Hazardous materials, cuts or lacerations, vibrations, extreme temperatures.	Gloves made of rubber or synthetic materials (Neoprene), leather, steel, insulating materials, etc.	
Respiratory protection	Dust, fogs, fumes, mists, gases, smokes, vapors.	Facemasks with appropriate filters for dust removal and air purification (chemicals, mists, vapors and gases). Single or multi-gas personal monitors, if available.	 
	Oxygen deficiency	Portable or supplied air (fixed	
Body/leg protection	Extreme temperatures, hazardous materials, biological agents, cutting and	Insulating clothing, body suits, aprons etc.	
Working at *height	Rehabilitation Projects	Helmet, Safety glasses,	
	New Construction Projects	Anchor, belt, lanyard,	

*In general, use of PPEs is required for any height of 4 ft or more. Ref: OSHA standards

پی ایم ڈی ایف سی

وائرنمنٹ اینڈ سوشل سیف گارڈز ٹیم

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تعمیراتی جگہ پر واضح بورڈ نصب کر دیئے جائیں، جن پر درج ذیل پیغامات احکامات لکھے ہوں:

(a) تعمیراتی کام کی نوعیت

(b) ٹریک میں رکاوٹ کی صورت میں متبادل راستے کا نشان اور عارضی رکاوٹ کا پیغام

(c) الیکٹریسی اور شکایت کیلئے رابطہ نمبرز

(d) PMDFC کی جانب سے جاری کردہ سماجی و ماحولیاتی پیغامات پڑنی پوسٹرز۔

تعمیراتی کام کی جگہ کے ارد گرد 100 میٹر تک کی حدود میں موجود ثقافتی، سماجی، مذہبی ورثہ، تاریخی عمارتوں اور مذہبی مقامات جیسے قبرستان، مساجد، مندر، گرجا گھروں وغیرہ کو کسی قسم کا نقصان نہ پہنچایا جائے اور ان کی حدود میں کوڑا کرکٹ ڈالنے یا فالتو پانی چھوڑنے سے گریز کیا جائے۔ مزید برآں کھدائی کے دوران کسی نئے آثار قدیمہ ملنے کی صورت میں متعلقہ مقامی محکمے سے رجوع کیا جائے اور کھدائی کا کام بند کر کے تعمیراتی کام روک دیا جائے۔

سرگرمیاں

2- کھدائی کی جگہ اور اس سے متعلقہ کام اور خالوں کی صفائی اور اس سے حاصل شدہ بھل وغیرہ

مسائل



کھدائی سے حاصل شدہ مٹی رکنکر کے ڈھیر (Debris) سے رہائشیوں کی آمدورفت اور ٹریفک میں رکاوٹ

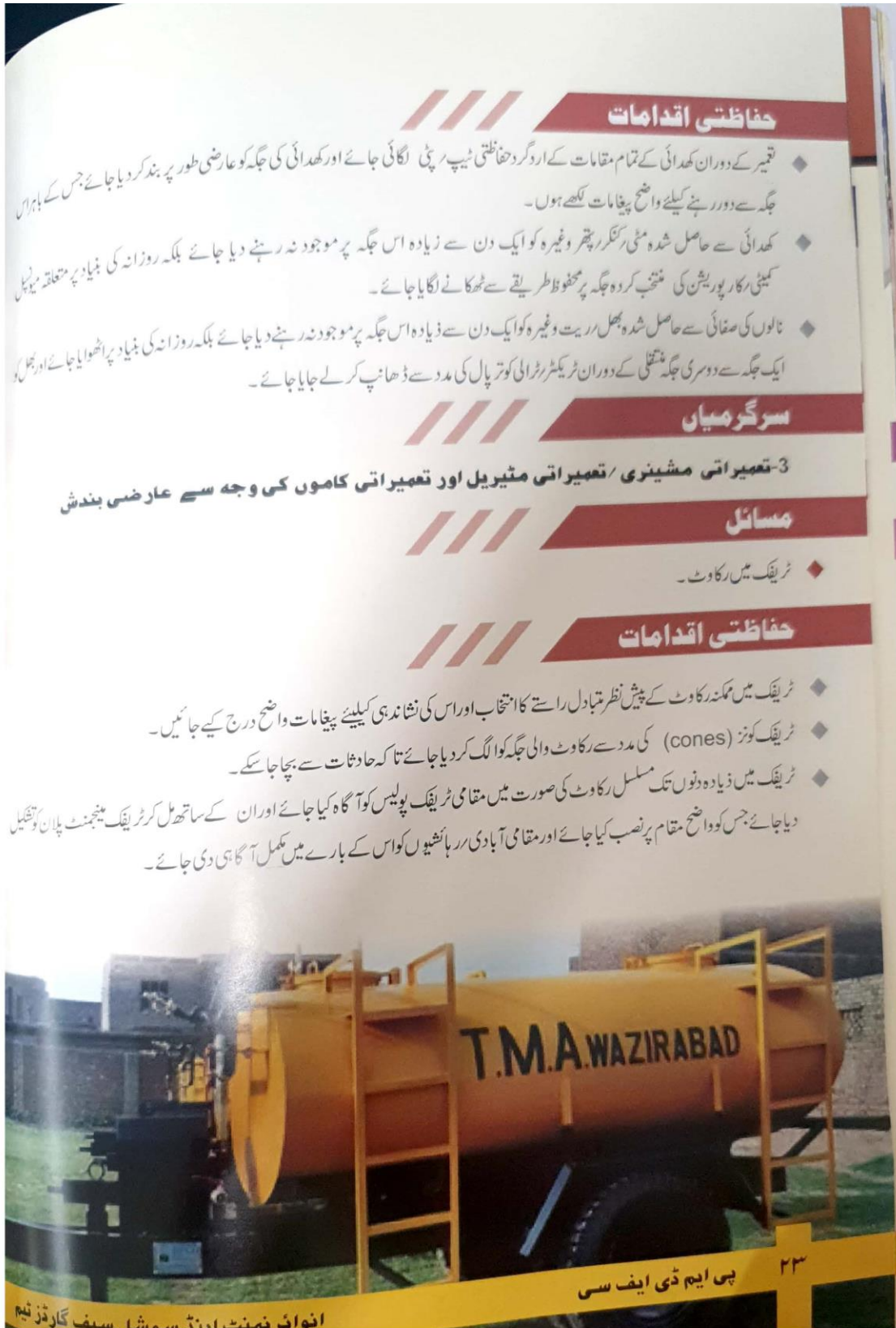
مقامی رہائشیوں کیلئے ناگواری کا باعث

چھڑوں اور دیگر بیماری پھیلانے والے جراثیم کی افزائش کا ذریعہ

کھدائی کی جگہ پر گرنے اور حادثات کے خطرات

پی ایم ڈی ایف سی ۳۲

انوائسمنٹ اینڈ سوشل سیف گارڈز ٹیم



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سرگرمیاں


4- تعمیراتی کاموں کی وجہ سے راستوں میں عارضی رکاوٹ اور زمین کا عارضی حصول

مسائل

- ◆ روزمرہ معمولات اور کاموں میں رکاوٹ
- ◆ رہائشی خواتین کیلئے آنے جانے میں رکاوٹ
- ◆ دکانداروں کے دکانوں کے آگے رکاوٹیں اور گاہوں کیلئے مشکلات
- ◆ مستقل و عارضی سائز لگا کر بیچنے والے چھوٹے بڑے مستقل دکانداروں کا گاہک کم ہوجانے کی وجہ سے مالی نقصان

حفاظتی اقدامات

- ◆ تعمیراتی علاقے میں ارد گرد موجود تمام چھوٹی بڑی دکانوں، ٹھیلوں، عارضی خوانچہ فروشوں اور گھروں کا مکمل سروے (تعداد اور مالی حیثیت وغیرہ) اور ان پر ممکنہ سماجی اور ماحولیاتی اثرات کا جائزہ لے کر ایک تفصیلی رپورٹ اور متعلقہ پلان میونسپل کمیٹی رکارپوریشن کے دفتر میں موجود ہونی چاہئے جو کہ فوکل پرسنز، متعلقہ علاقائی آفس میں موجود ڈپٹی پروگرام آفیسر (ESSs) کے ساتھ تعمیراتی کاموں کی مالیت کا اندازہ لگائے وقت تیار جائیگی۔ اس رپورٹ اور پلان میں موجود سماجی اور ماحولیاتی مسائل کے حل کیلئے مختص رقم اور ان کا صحیح طریقے سے استعمال ٹھیکیدار کے کنٹریکٹ حصہ ہوگا۔
- ◆ رہائشیوں کیلئے آنے جانے اور دکانوں، گھروں تک رسائی کے لیے متبادل راستے مہیا کرنا ٹھیکیدار کی ذمہ داری ہے۔
- ◆ دکانوں، تھڑوں، ٹھیلوں وغیرہ کے باہر کسی بھی قسم کے نقصان یا توڑ پھوڑ کی صورت میں ٹھیکیدار طے شدہ ضوابط کے مطابق اس کی قیمت متاثرہ لوگوں ادا کرے گا۔
- ◆ لیبر ریزرو کو تربیت دی جائے کہ وہ ارد گرد رہائشی عورتوں اور بچوں کے آنے جانے میں کوئی رکاوٹ نہ بنیں اور رہائشیوں کے ساتھ بلا ضرورت کو میل جول نہ رکھیں۔
- ◆ تعمیراتی کیمپ لگانے، تعمیراتی کام کرنے، مشینری اور تعمیراتی سامان رکھنے کے لیے عارضی طور پر حاصل کی گئی زمین کا کرایہ مالک مکان کو وقت پر ادا کی جائے گا۔ اور تحریری معاہدے کی صورت میں ٹھیکیدار تمام قواعد و ضوابط کا پابند ہوگا۔
- ◆ تعمیراتی کاموں کیلئے عارضی زمین حاصل کرنے کے لئے مقامی رہائشیوں سے مشاورت اور دنوں کے حساب سے کرایہ اور اس کا مکمل طریقہ کار وضع کر کے باقاعدہ لکھا جائے گا۔ اور خلاف ورزی کی صورت میں ٹھیکیدار ذمہ دار ہوگا۔



سرگرمیاں
5. تعمیراتی کام اور ہیوی مشینری کا استعمال

مسائل

- ◆ شور و غل
- ◆ پانی کی آلودگی
- ◆ ہوائی آلودگی
- ◆ دیگر ماحولیاتی مسائل

حفاظتی اقدامات

- ◆ تعمیراتی علاقے میں موجود ہسپتالوں، سکولوں رکالوجوں وغیرہ اور رہائشی گھروں رکالوجوں کی تمام تفصیلات کی رپورٹ متعلقہ میونسپل کمیٹی کے دفتر میں موجود ہونی چاہئے جو کہ ٹھیکیدار کے کنٹریکٹ کا حصہ ہوگی۔ اور ٹھیکیدار ان تفصیلات کے مطابق ایسا پلان ترتیب دے گا جس سے ارد گردی کے رہائشیوں اور رکالوجوں کو کم سے کم پریشانی کا سامنا کرنا پڑے مثلاً زیادہ شور پیدا کرنے والے کام دن کے اس حصے میں کئے جائیں جب ہسپتالوں، اور سکولوں رکالوجوں وغیرہ کے مصروف اوقات کار نہ ہوں اور ایسے کام جن کی وجہ سے راستوں کی عارضی بندش ضروری ہوں وہ رات کو کئے جائیں جب رہائشیوں کی آمدورفت نہ ہو۔
- ◆ تعمیراتی کاموں کے دوران پیدا شدہ فاضل پانی یا پورٹیل ٹوائلٹس کا پانی فضلہ وغیرہ کا محفوظ اور مناسب طریقے سے ٹھکانے لگانے کا بندوبست کیا جائے اور فاضل پانی کو پینے کے صاف پانی کے ساتھ شامل ہونے سے بچانے کا ہر ممکن قدم اٹھایا جائے۔
- ◆ واٹر سپلائی کی سکیموں یا ایسی تمام کام جن کی وجہ سے رہائشیوں کو پانی یا سیوریج وغیرہ میں عارضی بندش کا سامنا کرنا پڑ سکتا ہو۔ ایسے تمام کاموں کے آغاز سے پہلے رہائشیوں کو پیشگی اطلاع دی جائے اور متبادل انتظامات کا خاطر خواہ انتظام کیا جائے۔
- ◆ تعمیراتی کاموں کی وجہ سے درختوں کی کٹائی سے ہر حال میں گریز کیا جائے اور ناگزیر صورت حال میں ایک درخت کی کٹائی کے متبادل کے طور پر چار درخت لگانا ضروری ہیں۔
- ◆ تعمیراتی جگہ پر پیدا ہونے والے کوڑا کرکٹ کو ٹھکانے لگانے کیلئے ڈسٹ بن لگائے جائیں اور ان کو روزانہ کی بنیاد پر متعلقہ میونسپل کمیٹی کی طرف سے مقرر کردہ مقام پر ٹھکانے لگایا جائے۔
- ◆ کوڑا کرکٹ اور فاضل پانی ارد گرد موجود فصلوں اور ندی نالوں میں پھینکنے سے گریز کریں۔
- ◆ گرد و غبار اور ہوائی آلودگی کی صورت میں پانی کا باقاعدہ چھڑکاؤ کریں۔
- ◆ تعمیراتی کام کی مدت اور نوعیت کے مطابق کام کے آغاز سے پہلے، کام کے دوران اور کام کے بعد شہری آلودگی، ہوائی آلودگی اور آبی آلودگی کے نمونہ جات حاصل کر کے ان کی جانچ پڑتال کرانا ٹھیکیدار کی ذمہ داری ہے۔ اس سلسلے میں ریجنل آفس میں موجود ڈپٹی پروگرام آفیسر (ESS) سے مزید رہنمائی حاصل کریں۔
- ◆ تعمیراتی کام مکمل ہو جانے کے بعد علاقے کی صفائی ستھرائی اور ماحولیاتی خوبصورتی کا خاص خیال رکھیں اور پہلے سے بہتر حالت میں چھوڑیں۔

* سرگرمیوں کو آف پاکستان کے سولہویں نمبر 25 برطانوی 2009 جوائنٹ آف فار کینال وواٹیلوٹک پراجیکٹ لاہور تعمیراتی کاموں کے دوران ہر ایک درخت کی کٹائی کے متبادل چار درخت لگانے ہائیکے۔

پی ایم ڈی ایف سی ۲۵
انوائٹمنٹ اینڈ سوشل سیف گارڈن ٹیم

Annexure iii: COVID-19 Pandemic and Health Safety Measures

Given the unprecedented nature of the COVID-19 pandemic, contractors are bound to take all necessary precautions to maintain the health and safety related measures at site and to ensure suitable arrangements regarding hygiene requirements for the prevention of pandemic.

Following are the measures that should be implemented at the construction site to avoid the spread of Covid-19:

Activities	Adaptive Measures
Pre- Execution Phase	
A. Profile preparation	<ul style="list-style-type: none"> • Detail profile of project workforce • Enlist the names, addresses and contact # • Breakdown of the workforce (workers from local communities and those who have on site accommodation) • Assigning the task against each person • Schedule the key activities and their duration at site
B. Initial Screening	<ul style="list-style-type: none"> • All enlisted workforce should go through initial screening process • Ensuring the availability of Thermogun at site • Record keeping against initial screening • Identifying all workers who are initially at more risk of contracting Covid-19
During Execution Phase	
A. Preliminary Screening	<p>Regular Screening:</p> <ul style="list-style-type: none"> • Regular screening by using Thermogun on daily basis before starting civil work at site • Checking and recording temperatures of workers and other people entering the site or requiring self-reporting prior to or on entering the site. • If a worker has symptoms of COVID-19 (e.g. fever, dry cough, fatigue) the worker should be removed immediately from work activities and isolated on designated site. • Co-workers (i.e. workers with whom the sick worker was in close contact) should be required to stop work, and to quarantine themselves for 14 days, even if they have no symptoms. <p>Sequential Screening: Concerned DHQ medical staff is requested for screening at regular intervals. List should also be shared with DHQ for avoiding future inconvenience or hire health safety officer on weekly basis.</p>
B. Special Arrangements regarding PPEs	<ul style="list-style-type: none"> • Ensuring availability of handwashing facilities (sanitizers/soaps) at site • Presence of closed waste bins at key places throughout site, including at entrances/exits to work areas (toilet, canteen or food distribution, or provision of drinking water; in worker accommodation; at waste stations; at stores; and in common spaces). • Special arrangements regarding PPEs and sanitation at site • Record keeping of stock availability on daily basis
C. Restricted Movement/ Demobilization of staff	<ul style="list-style-type: none"> • Encourage employees to wash their hands at least for 20 seconds with soap and stay at least one meter away from people who are coughing or sneezing

	<ul style="list-style-type: none"> • Breakdown of workers who reside at home (i.e. workers from the communities), workers who lodge within the local communities and workers in on-site accommodation. Workers accommodated on site should be required to minimize contact with people near the site, and in certain cases be prohibited from leaving the site for the duration of their contract, so that contact with local communities is avoided. • Workers from local communities, who return home daily, weekly or monthly, will be more difficult to manage. They should be subject to health checks at entry to the site (as set out above) and at some point, circumstances may make it necessary to require them to either use accommodation on site or not to come to work. • All workers should be provided separate accommodation.
D. Training sessions	<ul style="list-style-type: none"> • Health and safety training for Contractor's Personnel (which include project workers and all personnel that the Contractor uses on site, including staff and other employees of the Contractor and Subcontractors and any other personnel assisting the Contractor in carrying out project activities. • Sessions related to safety procedures, use of construction PPEs, occupational health and safety issues, and code of conduct specially privacy issues including social distancing. • Arranging daily briefings with workforce, reminding workers to self-monitor for possible symptoms (fever, cough) and to report to their supervisor or the COVID-19 focal point if they have symptoms or are feeling unwell. • Placing posters and sign boards around the site in local languages. • Appointing one person on daily basis among the workforce who will serve as trainer for conducting awareness session and encouraging the rest to take preventive measures.
E. Operationalization of Grievance Redress Mechanism	<ul style="list-style-type: none"> • Effective implementation of GRM at site • Encouraging to report any COVID-19 related health issue and concerns about the health of their co-workers and other staff as well. • In case of unavailability of the PPEs at site, grievance would be lodged directly to PMU.
F. Role of PMU	<ul style="list-style-type: none"> • PMU is required to arrange regular meetings with Contractors and workforce to monitor all procedural implementation of COVID-19 prevention related mechanism. • Arrange meeting with concerned DHQs for immediate support and guidance in case of emergency. <p>During inspection visit by PMU Staff, if a worker is found to has symptoms of COVID-19, the worker should be removed immediately from work activities and isolated on designated site.</p>
Post Execution Phase	
A. Post Screening	<ul style="list-style-type: none"> • Screening should be done at the end of the day on daily basis, if a worker is found to have any symptoms of COVOD-19, he should be immediately reported to concerned health department.
B. Cleaning and waste disposal	<ul style="list-style-type: none"> • All waste (PPEs and sanitation related) shall be disposed properly at designated sites.

Annexure iv: Public Consultation Form

Punjab Cities Program (PCP) Public Consultation Form

PUBLIC CONSULTATION FORM

Instructions:
Public Consultation must be done in the radius of 2 km. from the sub-project site.
Public Consultation with women is compulsory in all the projects.

1- Title of the sub-project
Dualization of Road from SP Chowk to Jaswant Nagar.

2- Location of the sub-project
SP- Chowk.

3- Name of the person interviewed CNIC #
Jamil

4- Occupation of the person
Vendor


5- Remarks regarding the proposed sub-project

- 2-3 months time of doing business -
- Bottle seller
- Daily Income 200/300
- No issues with the subproject.
- Alternative site should be provided

Signature of interviewer Signature of person interviewed

Jamil 27/10/22

Page 1 of 1



PUBLIC CONSULTATION FORM

Instructions:

Public Consultation must be done in the radius of 2 km. from the sub-project site.
Public Consultation with women is compulsory in all the projects.

1- Title of the sub-project

Qualization of road from SP-Chowk to Jaswant Nagar.

2- Location of the sub-project

SP. Chowk

3- Name of the person interviewed

CNIC #

Khashif

4- Occupation of the person

flower shop keeper

5- Remarks regarding the proposed sub-project

- Problem in shifting
- Daily income 400-
- Alternative location should
- 1 year time span of selling flower

Signature of interviewer

Signature of person interviewed

[Handwritten signature]
27-11

Page 1 of 1



Punjab Cities Program (PCP) Public Consultation Form

PUBLIC CONSULTATION FORM

Instructions:
Public Consultation must be done in the radius of 2 km. from the sub-project site.
Public Consultation with women is compulsory in all the projects.

1- Title of the sub-project
Dualization of head from SP Chok to Jaswant Nagar.

2- Location of the sub-project
SP - Chok.

3- Name of the person interviewed CNIC #
Manawar

4- Occupation of the person
Cobbler.


5- Remarks regarding the proposed sub-project

- 3 years time span for the occupied space for business.
- Shop rent problem before that
- Alternative location will be provided.
- Daily income 600/-

Signature of interviewer *Ty L.*
29/10/22

Signature of person interviewed
Leis

Page 1 of 1



Punjab Cities Program (PCP) Public Consultation Form

PUBLIC CONSULTATION FORM

Instructions:
Public Consultation must be done in the radius of 2 km. from the sub-project site.
Public Consultation with women is compulsory in all the projects.

1- Title of the sub-project
Dualization of road from SP-Chowk to Jasmant Nagar

2- Location of the sub-project
SP-Chowk

3- Name of the person interviewed CNIC #
Afzal

4- Occupation of the person
food stall

5- Remarks regarding the proposed sub-project

- locals
- 3/4 months time duration
- ~~site~~ - canteen
- Alternative site should be provided
- 700-1000 daily income

Signature of interviewer *Tylo*

Signature of person interviewed *Afzal*

PMDFC Page 1 of 1

Punjab Cities Program (PCP) Public Consultation Form

PUBLIC CONSULTATION FORM

Instructions:
Public Consultation must be done in the radius of 2 km. from the sub-project site.
Public Consultation with women is compulsory in all the projects.

1- Title of the sub-project
Widening of road from football chawk to stadium road

2- Location of the sub-project
football chawk.

3- Name of the person interviewed CNIC #
Dr. Shahid

4- Occupation of the person
Doctor.


5- Remarks regarding the proposed sub-project

- Timing 11am - 10pm.
- Car Parking issue have been raised.
- 70-80 patients.

Signature of interviewer 22/10/22

Signature of person interviewed

Page 1 of 1



Punjab Cities Program (PCP) Public Consultation Form

PUBLIC CONSULTATION FORM

Instructions:
Public Consultation must be done in the radius of 2 km. from the sub-project site.
Public Consultation with women is compulsory in all the projects.

1- Title of the sub-project
Widening of roads from football chawk to stadium road

2- Location of the sub-project
football chawk

3- Name of the person interviewed CNIC #
M. Usman

4- Occupation of the person
Autos shop


5- Remarks regarding the proposed sub-project

- Customers Accessibility - Time management
- Air pollution - water sprinkling
- Traffic
- Appreciated the GRM process.

Signature of interviewer Signature of person interviewed

[Signature] *[Signature]*
27/10/22 27-10-22

Page 1 of 1



Punjab Cities Program (PCP) Public Consultation Form

PUBLIC CONSULTATION FORM

Instructions:
Public Consultation must be done in the radius of 2 km. from the sub-project site.
Public Consultation with women is compulsory in all the projects.

1- Title of the sub-project
widening of road from football chowk to Stadium Road

2- Location of the sub-project
City Care Medical Centre.

3- Name of the person interviewed CNIC #
Dr- Humail

4- Occupation of the person
Doctor.

5- Remarks regarding the proposed sub-project

- 24/7 timing of hospital.
- Parking Issues
- SOPs - H&S must be followed
- 100'
- Sunday - Surgery.
- 2pm band OPD patients ka rush hoga ha.
- 3/4 working days to complete the construction work in front of hospital.

Signature of interviewer 27/12/20
Signature of person interviewed

PMDFC Page 1 of 1

Sr. No	Name	Designation	Department
Technical Discussion			
1.	Iftikhar Bangash	Chief Officer	MC Khanewal
2.	Shahbaz Ali	Sub Engineer	MC Khanewal
3.	Mr. Ammar Waraich	DPO-ID	PMDFC
4.	Mr. Ghulam Murtaza	PO ID	PMDFC
5.	Tehmina Kiran	PO-ESM	PMDFC
Communities Consultation			
6.	Mr. Jamil	Vendor	Khanewal
7.	Mr. Kashif	Flower Seller	Khanewal
8.	Mr. Munwar	cobbler	Khanewal
9.	Mr. Afzal	Food stall onwer	Khanewal
10.	Dr. Shahid	Doctor	Khanewal
11.	Dr. Humail	Doctor	Khanewal
12.	M. Usman	Auto shop	Khanewal

Annexure v: List of Persons Consulted

Annexure vi: Personal Protective Equipment According to Hazard²⁶

Objective	Workplace Hazards	Suggested PPE
Eye and face protection	Flying particles, molten metal, liquid chemicals, gases or vapors, light radiation.	Safety Glasses with side-shields, protective shades, etc.
Head protection	Falling objects, inadequate height clearance, and overhead power cords.	Plastic Helmets with top and side impact protection.
Hearing protection	Noise, ultra-sound.	Hearing protectors (ear plugs or ear muffs).
Foot protection	Falling or rolling objects, pointed objects. Corrosive or hot liquids.	Safety shoes and boots for protection against moving & falling objects, liquids and chemicals.
Hand protection	Hazardous materials, cuts or lacerations, vibrations, extreme temperatures.	Gloves made of rubber or synthetic materials (Neoprene), leather, steel, insulating materials, etc.
Respiratory protection	Dust, fogs, fumes, mists, gases, smokes, vapors.	Facemasks with appropriate filters for dust removal and air purification (chemicals, mists, vapors and gases). Single or multi-gas personal monitors, if available.
	Oxygen deficiency	Portable or supplied air (fixed lines). On-site rescue equipment.
Body/leg protection	Extreme temperatures, hazardous materials, biological agents, cutting and laceration.	Insulating clothing, body suits, aprons etc. of appropriate materials.

²⁶ Source: IFC Environmental, Health, and Safety (EHS) Guidelines

Annexure vii Chance Find Procedures

Chance find procedures which will be used during this Project are as follows:

- Stop the construction activities in the area of the chance find;
- Delineate the discovered site or area;
- Secure the site to prevent any damage or loss of removable objects. In cases of removable antiquities or sensitive remains, a night guard shall be present until the responsible local authorities and the Ministry in charge of Department of Archaeology take over;
- Notify the supervisory Engineer who in turn will notify the responsible local authorities and the Ministry immediately (within 24 hours or less);
- Responsible local authorities and the Ministry in charge of Department of Archaeology would oversee protecting and preserving the site before deciding on subsequent appropriate procedures. This would require a preliminary evaluation of the findings to be performed by the archaeologists of the Department of Archaeology and Museums (within 72 hours). The significance and importance of the findings should be assessed according to the various criteria relevant to cultural heritage; those include the aesthetic, historic, scientific or research, social and economic values;
- Decisions on how to handle the finding shall be taken by the responsible authorities and the Ministry in charge of Department of Archaeology. This could include changes in the layout (such as when finding an irremovable remain of cultural or archaeological importance) conservation, preservation, restoration and salvage;
- Implementation for the authority decision concerning the management of the finding shall be communicated in writing by the Ministry in charge of Department of Archaeology; and
- Construction work could resume only after permission is given from the responsible local authorities and the Ministry in charge of Department of Archaeology concerning safeguard of the heritage.

These procedures will be referred to as standard provisions in construction contracts, when applicable. During project supervision, the Site Engineer will monitor the above regulations relating to the treatment of any chance find encountered are observed.

