

## ENVIRONMENTAL AND SOCIAL SCREENING CHECKLIST

### Instructions:

Environmental and Social Focal Persons (ESFPs) nominated by the MCs for PCP environmental and social management, will use this checklist in field to support the environmental and social screening and categorization of each and every sub-project proposed to be executed under the Program.

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

It is to be attached with the main document of sub-projects at planning stage and will be duly signed by the relevant ESFP and endorsed by the respective DPO-ESM

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

(iii) Answer the questions assuming the “without mitigation” case. The purpose is to identify potential impacts. Use the “remarks” section to discuss any anticipated mitigation measures

**Name of Enumerator/ESFP:** MOI & S

**Name of City/MC/LG:** MC Jaranwala

**Sub-Project Sector:** Solid Waste Management

**Sub-Project Title:** Parking Area Development for Solid Waste Machinery.

<b>Sub- Project Categorization:</b>	<b>E-1</b>	<input type="checkbox"/>	<b>S-1</b>	<input type="checkbox"/>
	<b>E-2</b>	<input type="checkbox"/>	<b>S-2</b>	<input type="checkbox"/>
	<b>E-3</b>	<input checked="" type="checkbox"/>	<b>S-3</b>	<input checked="" type="checkbox"/>

**Date of Screening:** 16/06/2022

### Anticipated Project Activities:

- Boundary wall and gate
- Sheds for vehicles with trusses and Aluzinc sheeting at the top
- Office room with toilet
- Workshop
- Washing ramp
- Sitting room for staff with toilets
- Parking aprons
- Guard room
- Generator pad
- Water supply and drainage system
- Approach road Tuff Paver

**Estimated Cost of Sub-Project:** 26.527 Million PKR

**Approx. Completion Time:** 02 Months

**Estimated Labor for Sub-Project:** 10-15

Screening Questions	Yes	No	Remarks
<b>A. Project Siting</b>			
Is the Sub-Project area adjacent to or within any of the following?			
<b>Environmentally sensitive areas?</b>			
Cultural heritage site		✓	No cultural heritage site observed within 250 meters of periphery of Sub-Project.
Legally protected Area (core zone or buffer zone)		✓	No legally protected area exists within 250 meters of radius of Sub-Project.
Any surface water body (river, canal, stream, lake, wetland) within 250 meters of proposed project?		✓	A water body observed nearby Sub-Project location.
Mangrove Forest		✓	No mangrove forest observed.
Estuarine		✓	No estuarine exists in Sub-Project proposed scope of work.
Special area for protecting biodiversity		✓	No protected area/buffer zone lies within peripheral zone of Sub-Project.
Buffer zone of protected area		✓	
Man-made forest /game reserve, orchid/crops or any other area of environmental importance	✓		06 trees observed within jurisdiction of Sub-project but no cutting of trees required as per design.
<b>Socially sensitive/Important areas/communities/people?</b>			
PCRs and or any site of cultural/religious importance (Graveyard, Shrine, Mosque, Church, Gordwarah, Temple, Fort, archeological/historical site) within 100 m of the proposed subproject		✓	No PCRs exists within 100 meters of periphery of Sub-Project which will be negatively impacted due to any work activities.
Sensitive receptors (Schools, colleges, hospitals and clinics) within 100 meters of the proposed sub project		✓	No such socially sensitive receptors observed nearby location of Sub-Project.
Any graveyard of local community (Muslims or Christians)		✓	No graveyard observed.
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 of the society and women or children)?		✓	No such aspects get triggered due to any Sub-Project interventions.
Already existing infrastructure (including public amenities) which may be required to dismantle or may be affected temporarily by any means?		✓	No dismantling to any public infrastructure envisaged as working activities will be inside disposal station premises.
<b>B. Potential Environmental Impacts</b>			
Will the Sub-Project cause...			
1. Disturbance to habitats/biodiversity of environmentally sensitive or protected areas?		✓	

2. Cutting of trees?		✓	No trees cutting required as per scope of work under Sub-Project.
3. Disruption to habitats/biodiversity of surrounding ecosystem/environment?		✓	No disruption to any habitat/ecosystem due to any Sub-Project activities.
4. Generation of wastewater during construction or operation?	✓		Wastewater will be generated during operational phase from washing pit and will be discharged directly into nearby sewerage system.
5. Pollution of surface water/ground water due to wastewater discharge from construction site or due to direct/indirect disposal of waste water?		✓	No such impact anticipated.
6. Alteration of surface water hydrology of waterways resulting in increased sediment in streams/rivers or due to increased soil erosion at construction site?		✓	No alteration of any waterway involved in the scope of Sub-Project.
7. Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction?		✓	No workers-based camp will be required to be established as per limited work activities under Sub-Project.
8. Over pumping of ground water, leading to salinization and ground subsidence?		✓	No over pumping of ground water required under Sub-Project interventions.
9. Serious contamination of soil due to construction works?		✓	No such impact expected.
10. Aggravation of solid waste problems in the area?		✓	Negligible impact projected.
11. Generation of solid waste/hazardous waste?		✓	
12. Increased air pollution due to sub-project construction and operation?	✓		Negligible impact due to limited work activities.
13. Noise and vibration due to sub-project construction or operation?		✓	No such impact expected.
14. Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents due to solid/liquid?		✓	No such impact expected.
15. Use of chemicals during construction?		✓	No usage of hazardous chemicals envisaged after review of proposed work activities.

### **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 damage to any PCRs required under scope of Sub-Project.
2. Displacement or involuntary resettlement of people? (Physical displacement and/or economic displacement)		✓	No displacement/ any sort of resettlement/ economic loss envisaged due to any Sub-Project interventions.

3. Disproportionate impacts on the poor, women and children and or other vulnerable groups <sup>1</sup> (mentioned above)?		✓	No such impact expected.
4. Temporary impediments in movements of people/transport and animals?	✓		There will be temporary hindrance in the movement of traffic and pedestrians.
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)?		✓	No such impact expected.
6. Social conflicts if workers from other areas are hired?		✓	Local labor will be preferred to avoid such conflicts.
7. Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation?	✓		OHS risks needs to be addressed during the construction phase.
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?		✓	No such impact expected.
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?		✓	No such impact expected.
10. Any impact on sensitive receptors (mentioned above)		✓	No such impact expected
11. Any impact of negative nature on already existing infrastructure including public amenities		✓	No public amenity will be negatively impact due to Sub-Project interventions.

**Prepared By:**

**Name:** M. Sadam Hussain

**Designation:** MOI & S

**Organization:** Municipal Committee, Jaranwala

**Signature:**

**Endorsed By:**

**Name:** Asif Gillani

**Designation:** Deputy Program Officer ESSs

**Organization:** PMDFC

**Signature:**



<sup>1</sup> Women, Children, Women headed households, People in old age, people having disabilities, socially isolated community groups and or people living below the poverty line

## INVOLUNTARY RESETTLEMENT SCREENING CHECKLIST

**Name of City/MC/LG:** MC Jaranwala

**Sub-Project Sector:** Solid Waste Management

**Sub-Project Title:** Parking Area Development for Solid Waste Machinery

**Sub- Project Categorization:** S-1 ☐ S-2 ☐ S-3 ☒

**Date of Screening:** 16/06/2022

SECTION 1	Yes	No	Expected	Remarks
Does the project require land acquisition? Yes/No		✓		MC owns the 6 Kanals 15 Marlas land will be capitalized under Sub-Project.
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 <sup>1</sup> ? Yes/No		✓		No AED has been conducted on the proposed location by MC.
Land (Quantify and describe types of land being acquired in “remarks column”.				N/A
Government and LG owned land free of occupation (agriculture or settlement)	✓			Sub-project site under possession of MC and free from all sorts of settlements.
Government or state-owned land (other than LG) free of occupation (agriculture or settlement)		✓		N/A
Private land		✓		N/A
Residential		✓		N/A
Commercial		✓		N/A
Agricultural		✓		N/A
Communal		✓		N/A
Others (specify in “remarks”).		✓		N/A
Name of owner/owners and type of ownership document if available.	✓			MC owns the land for Sub-Project.
If land is being acquired, describe any structures constructed on it		✓		No land needs to be acquired under Sub-Project.
Land-based assets:		✓		
Residential structures		✓		N/A
Commercial structures (specify in “remarks”)		✓		N/A
Community structures (specify in “remarks”)		✓		N/A
Agriculture structures (specify in “remarks”)		✓		N/A

<sup>1</sup> The sub-projects have to avoid all locations where any government led AED has been conducted.

Public utilities (specify in “remarks”)		✓		No public utility will be damaged due to any work activity.
Others (specify in “remarks”)		✓		
If agricultural land is being acquired, specify the following:		✓		No agriculture land required under Sub-Project.
Agriculture related impacts		✓		N/A
Crops and vegetables (specify types and cropping area in “remarks”).		✓		N/A
Trees (specify number and types in “remarks”).		✓		N/A
Others (specify in “remarks”).		✓		N/A
Affected Persons (APs)		✓		No APs as per scope of work and its impacts.
Will any people be displaced from the land when acquired? Yes/No		✓		No displacement of any people required under Sub-Project.
Number of APs		✓		No APs as per scope of work and its impacts.
Males		✓		N/A
Females		✓		N/A
Titled landowners		✓		N/A
Tenants and sharecroppers		✓		N/A
Leaseholders		✓		N/A
Agriculture wage laborers		✓		N/A
Encroachers and squatters (specify in remarks column)		✓		No encroachment on the Sub-project site.
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”.		✓		No Vulnerable APs recorded as per Sub-Project interventions.
Others (specify in “remarks”)		✓		
How will people be affected?		✓		There will no negative impact of Sub-Project interventions.

**Prepared By:**

**Name:**

**Designation:** MOP, MC Jaranwala

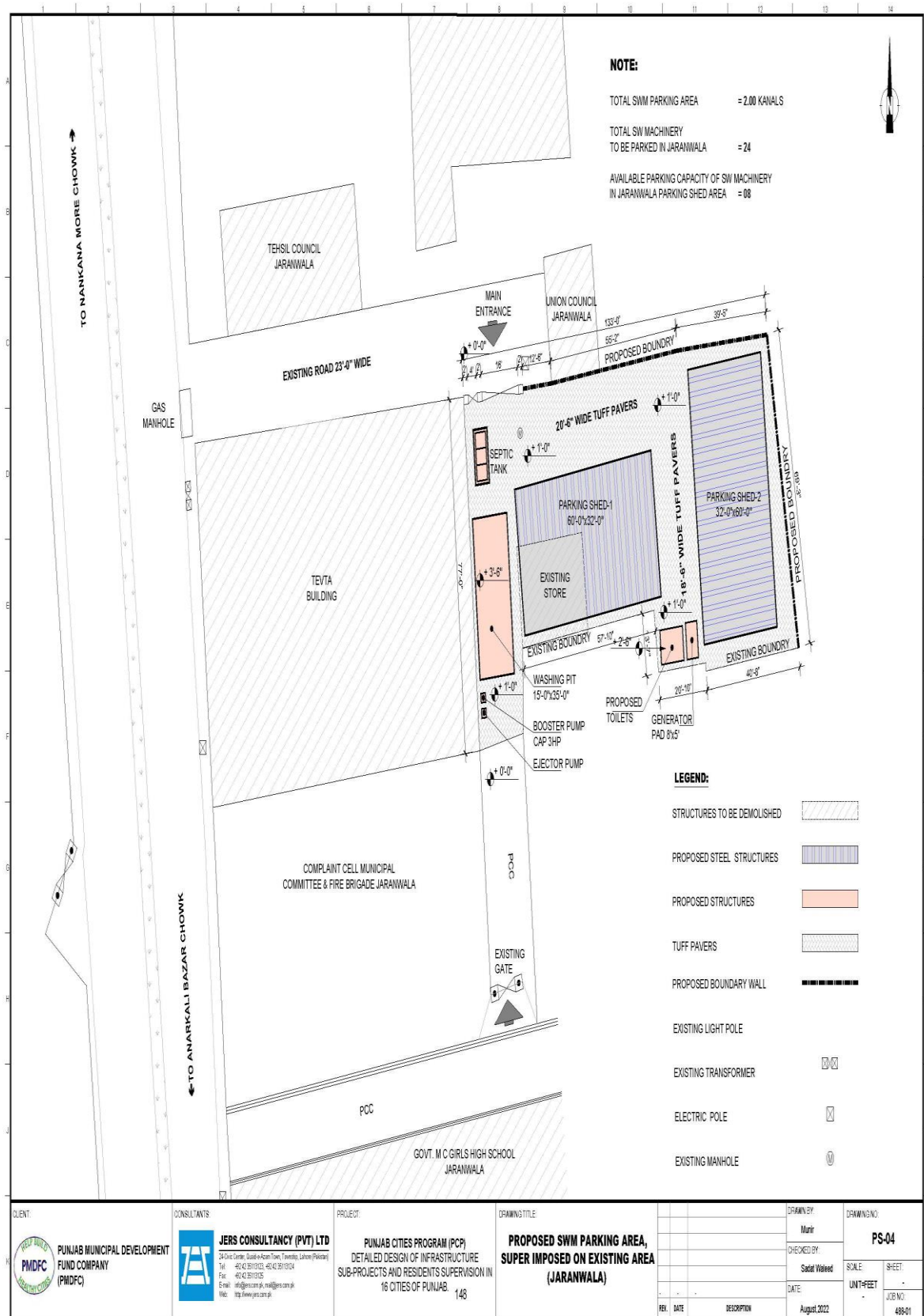
**Endorsed By:**

**Name:** Asif Gillani

**Designation:** Deputy Program Officer ESSs PMDFC



# Sub-Project Layout





## Pictures







<b>Environment Management &amp; Mitigation Cost</b> <b>Parking Shed MC Jaranwala</b>					
<b>Sr. no</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit rate</b>	<b>Amount (Rs)</b>
	Face Masks (3 PLY)	Nos	10.0	700./RS	7000.
	Safety Gum Shoes	Nos	15.0	1350./RS	20,250
	Hand Gloves	Nos	15.0	245./RS	3675
	*First Aid Box (Including essential Medicine)	Nos	1.0	5000./RS	5000
	*Safety Hard Helmets MSA	Nos	15.0	2000./RS	30,000
	Safety Goggles	Nos	15.0	550./RS	8250
	*Reflective Safety Vests	Nos	15.0	550./RS	8250
	<b>Sub-Total</b>				<b>82,425</b>
	*Reflective Safety Signs Boards	Nos	2.0	10,000./RS	20,000
	*Reflective Safety Barricading Tape	Nos	2.0	1500./RS	3000
	*Fire Extinguishers DCP	Nos	1.0	7000./RS	7000
	<b>Sub-Total</b>				<b>30,000</b>
	<b>Total amount</b>				<b>112,425</b>

## Environmental & Social Management & Monitoring Plan

### Parking Shed at MC Jaranwala

Sr. no	Activity	Environmental / social impact	Intensity of impact  Low/medium/high	Mitigation/ Remediation	Mitigation Implementation Responsibility	Monitoring Indicators	Monitoring Frequency	Monitoring Responsibility
<b>Design phase</b>								
1	Planning	Land acquisition and resettlement	low	This proposed site for parking shed is MC owned land. There is no illegal settlements inside disposal station.	MC ESFPs	Verification by MC		PMDFC
<b>Construction phase</b>								
2	Construction material storage, handling and use	<b>Environmental Issues:</b> <ul style="list-style-type: none"> <li>○ Ground water may be contaminated due to the any oil spillages from machinery.</li> <li>○ Health risk to workers and local inhabitants.</li> <li>○ Poor Housekeeping</li> </ul>	Medium to negligible	<ul style="list-style-type: none"> <li>• Construction material will be covered to ensure safe passage between the destinations during transportation.</li> <li>• Materials will not be loaded to a higher level than the side and tail boards and shall be covered with a good quality tarpaulin;</li> <li>• At subproject site there will be vacant space after clearance of site for safe and temporary storage of material Anyhow, if land may need to be acquired for temporary storage of machinery &amp; materials contractor will be liable to compensate the land</li> </ul>	Contractor	Visual/ Pictures	<ul style="list-style-type: none"> <li>• Daily site visit during construction phase</li> <li>• Fortnightly/ Weekly Once during the construction phase</li> </ul>	<ul style="list-style-type: none"> <li>• ESFPs</li> <li>• DPO ESM Supervision Consultants E&amp;S team</li> </ul>

Sr. no	Activity	Environmental / social impact	Intensity of impact  Low/medium/high	Mitigation/ Remediation	Mitigation Implementation Responsibility	Monitoring Indicators	Monitoring Frequency	Monitoring Responsibility
		<b>Social Issues:</b> Land acquisition for storage of construction material		owner accordingly through agreement/ negotiations/voluntarily. <ul style="list-style-type: none"> <li>• Contractor will lay/utilize construction materials as per work requirement from his storage site.</li> <li>• Contractor will use night vision reflective signboards/ reflective tapes to cordon off the area during construction activities.</li> </ul>				
3	Labor Camp (if established by Contractor)	Health impacts due to absence of housing and sanitation facilities in labor camp	Medium	<ul style="list-style-type: none"> <li>• Only 10-15 local labor will be hired by the contractor.</li> <li>• There will be no need to establish the labor camp or house rent.</li> <li>• In case, there is need to accommodate the Environmental, Health &amp; Safety SOPs for labor will be followed. Contractor will submit Campsite Management Plan and approve from DPO-ESSs before the execution of work.</li> </ul>	Contractor	Visual/ Pictures	<ul style="list-style-type: none"> <li>• Daily site visit during construction phase</li> <li>• Fortnightly/ Weekly</li> <li>• Once during the construction phase</li> </ul>	<ul style="list-style-type: none"> <li>• ESFPs</li> <li>• DPO ESM</li> <li>• Supervision Consultants E&amp;S team</li> </ul>
4	Vehicle Movement	<ul style="list-style-type: none"> <li>• Traffic congestion</li> <li>• Conflicts</li> <li>• Vehicle emissions</li> </ul>	Negligible	<ul style="list-style-type: none"> <li>• 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.</li> </ul>	Contractor	Visual/ Pictures, Vehicle emission tests reports,	<ul style="list-style-type: none"> <li>• Daily site visit during construction phase</li> <li>• Fortnightly/ Weekly</li> </ul>	<ul style="list-style-type: none"> <li>• ESFPs</li> <li>• DPO ESM</li> <li>• Supervision Consultants E&amp;S team</li> </ul>

Sr. no	Activity	Environmental / social impact	Intensity of impact  Low/medium/high	Mitigation/ Remediation	Mitigation Implementation Responsibility	Monitoring Indicators	Monitoring Frequency	Monitoring Responsibility
						GRM <sup>2</sup> Complaints record	• Once during the construction phase	
5	Cutting of Trees	<ul style="list-style-type: none"> <li>Aesthetic impact</li> </ul>	High	<ul style="list-style-type: none"> <li>No trees need to be cutted as per design.</li> </ul>	Contractor  Supervision Consultants E&S team	Visual/ Pictures	<ul style="list-style-type: none"> <li>Once during the construction phase</li> </ul>	<ul style="list-style-type: none"> <li>ESFPs</li> <li>DPO ESM</li> <li>Supervision Consultants E&amp;S team</li> </ul>
6	Construction activity and Vehicle	Noise pollution/ due to construction vehicle  Air Pollution due to dust	Moderate	<ul style="list-style-type: none"> <li>Labor will be exposed to noise &amp; air pollution.</li> <li>Contractor will ensure the use of well-tuned machinery and skilled labor</li> <li>Providing Personal Protective measures to labors.</li> <li>Water sprinkling will be done on regular basis.</li> </ul>	Contractor	Visual/ Pictures	Once during the construction phase	<ul style="list-style-type: none"> <li>ESFPs</li> <li>DPO ESM</li> <li>Supervision Consultants E&amp;S team</li> </ul>
7	Construction waste	waste generation due to construction activities	Moderate	<ul style="list-style-type: none"> <li>Waste will be removed from site on alternate days.</li> <li>At project site one area within boundary will be used as</li> </ul>	Contractor	Visual/ Pictures	Once during the construction phase	<ul style="list-style-type: none"> <li>ESFPs</li> <li>DPO ESM</li> </ul>

<sup>2</sup> GRM for subproject implementation will cater to all subproject beneficiaries. The GRM mechanism is based on two-tier grievance redress committees—at MC Jaranwala, PMDFC/LG&CDD level. At construction site number of GRC members will be display.

Sr. no	Activity	Environmental / social impact	Intensity of impact  Low/medium/high	Mitigation/ Remediation	Mitigation Implementation Responsibility	Monitoring Indicators	Monitoring Frequency	Monitoring Responsibility
				collection and transfer point of waste. • Waste bins will be hanged at site at different location.				Supervision Consultants E&S team
		Contamination of nearby water body	Moderate to Negligible	• Labor will be trained not to dispose of construction material in any surface water body. This training will be conducted before start of construction phase. Time to time training on waste management will be imparted.	Contractor	Visual/ Pictures	Once during the construction phase	• ESFPs • DPO ESM Supervision Consultants E&S team
8		Temporary blockage of road may restrict mobility	Negligible	• No blockage will be anticipated during construction phase as the work will be done in boundary of site.	Contractor	Visual/ Pictures	Once during the construction phase	• ESFPs • DPO ESM Supervision Consultants E&S team
9		Economic loss of permanent and mobile vendors due to obstruction of passage	Negligible	• There is no Economic loss of permanent and mobile vendors due to no obstruction of passage is anticipated during execution of subproject.	Contractor	Visual/ Pictures	Once during the construction phase	• ESFPs • DPO ESM Supervision Consultants E&S team
10		Temporary loss of structures and private property	Negligible	• No temporary loss of structures and private property will be envisaged.	Contractor			



Sr. no	Activity	Environmental / social impact	Intensity of impact  Low/medium/high	Mitigation/ Remediation	Mitigation Implementation Responsibility	Monitoring Indicators	Monitoring Frequency	Monitoring Responsibility
11		Conflicts with public	Negligible	<ul style="list-style-type: none"> <li>• Labors should be trained for healthy team work</li> <li>• All conflicts will be resolved as per law if produce.</li> </ul>	Contractor			
12	Occupational Health & Safety	<ul style="list-style-type: none"> <li>• Injuries to workers/LTI</li> </ul>	High	<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• First aid will be provided onsite</li> <li>• Careful monitoring will also be carried out.</li> </ul>	Contractor	Visual/ Pictures	<ul style="list-style-type: none"> <li>• Daily site visit during construction phase</li> <li>• Fortnightly/ Weekly Once during the construction phase</li> </ul>	<ul style="list-style-type: none"> <li>• ESFPs</li> <li>• DPO ESM Supervision Consultants E&amp;S team</li> </ul>
13	Sexual Harassment- Labor Influx- Child Labor	Social Conflicts	Low	<ul style="list-style-type: none"> <li>• Contractor will give behavioral training to the workforce.</li> <li>• Contractor will hire local labor for un-skilled works.</li> <li>• No child labor is allowed onsite below 14 years.</li> </ul>	Contractor	Visual/ Pictures/Report ed/Complains by public during visit	<ul style="list-style-type: none"> <li>• Daily site visit during construction phase</li> <li>• Fortnightly/ Weekly</li> <li>• Once during the</li> </ul>	<ul style="list-style-type: none"> <li>• ESFPs</li> <li>• DPO ESM Supervision Consultants E&amp;S team</li> </ul>

Sr. no	Activity	Environmental / social impact	Intensity of impact Low/medium/high	Mitigation/ Remediation	Mitigation Implementation Responsibility	Monitoring Indicators	Monitoring Frequency	Monitoring Responsibility
				<ul style="list-style-type: none"> <li>GRM at site level will be ensured to report in case of any such incident</li> </ul>			construction phase	
14	COVID-19 SOPs implementation	<ul style="list-style-type: none"> <li>Spread of Corona among the labor</li> </ul>	Low	<ul style="list-style-type: none"> <li>Contractor will provide face masks to the labor on daily basis to reduce Corona impact.</li> <li>Contractor will follow CoViD-19 guidelines during construction works</li> </ul>	Contractor	Visual/Pictures	<ul style="list-style-type: none"> <li>Daily site visit during construction phase</li> <li>Fortnightly/ Weekly Once during the construction phase</li> </ul>	<ul style="list-style-type: none"> <li>ESFPs</li> <li>DPO ESM Supervision Consultants E&amp;S team</li> </ul>
<b>Operational Phase</b>								
15	<b>Washing Vehicles</b>	Wastewater Generation	Medium	<ul style="list-style-type: none"> <li>The cleaning facility must be properly designed, with the necessary slope so that washing water is correctly collected and, therefore, it is not missed around and causes problems (flooding, odour, nuisance to neighbours, etc.).</li> <li>It is recommended to close or delimit the washing area with</li> </ul>	MC	-	Regular	MC officials

Sr. no	Activity	Environmental / social impact	Intensity of impact  Low/medium/high	Mitigation/ Remediation	Mitigation Implementation Responsibility	Monitoring Indicators	Monitoring Frequency	Monitoring Responsibility
				<p>walls to prevent spray and stuck dirt getting out of the washing area.</p> <ul style="list-style-type: none"> <li>• The washing area must be far from cleaning products storage area to avoid chemical products runoff.</li> <li>• Avoid washing vehicles out of the area specially designed for it, and it also prevents wastewater discharge into surface water or soil.</li> <li>• Build suitable drainage systems in the workshop to avoid flooding of wastewater</li> <li>• Set up wastewater intercepting facilities (such as kerb or collection channels) around workshops to avoid egress wastewater.</li> <li>• Do not allow the overflow of wastewater</li> </ul>				

<b>Sr. no</b>	<b>Activity</b>	<b>Environmental / social impact</b>	<b>Intensity of impact  Low/medium/high</b>	<b>Mitigation/ Remediation</b>	<b>Mitigation Implementation Responsibility</b>	<b>Monitoring Indicators</b>	<b>Monitoring Frequency</b>	<b>Monitoring Responsibility</b>
16	Water Consumption & Conservation	Impact on water quantity	medium	<ul style="list-style-type: none"> <li>• Pressure lances must be replaced by washing brushes when cleaning the ground, thus decreasing water consumption.</li> <li>• Use buckets to carry water and towels to wash cars</li> <li>• Do not allow water to run continuously from taps and spray.</li> <li>• Users must be informed about how much water is saved when washing the car in efficient facilities.</li> <li>• Environmental benefits derived from proper management of water must be announced.</li> </ul>	MC	-	Regular	MC officials

**Environment Health & Safety Cost in PC-I**

PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB					
DETAILED COST ESTIMATE					
ENVIRONMENTAL HEALTH & SAFETY COST					
Sr No	Description	Unit	Quantity	Unit Rate (Rs.)	Amount Rs.
	<b>Labor Safety</b>				
1	Face Masks (3 PLY) Box	Nos	10.00	700.00	7,000
2	Safety Gum Shoes	Nos	15.00	1,350.00	20,250
3	Hand Gloves	Nos	15.00	245.00	3,675
4	First Aid Box (Including essential Medicine)	Nos	1.00	5,000.00	5,000
5	Safety Hard Helmets MSA	Nos	15.00	2,000.00	30,000
6	Safety Goggles	Nos	15.00	550.00	8,250
7	Reflective Safety Vests	Nos	15.00	550.00	8,250
				<b>Sub Total</b>	<b>82,425</b>
	<b>Working Site Safety</b>				
1	Reflective Safety Signs Boards	Nos	2.00	10,000.00	20,000
2	Reflective Safety Barricading Tape	Nos	2.00	1,500.00	3,000
3	Fire Extinguishers DCP	Nos	1.00	7,000.00	7,000
				<b>Sub Total</b>	<b>30,000</b>
	<b>Total Amount (Rs)</b>				<b>112,425</b>