

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: Shahrukh Arif MOI & S, M. Asad MOP

Name of City/MC/LG: MC Gojra

Sub-Project Sector: Roads of Gojra

Sub-Project Title: Rehabilitation of Samundri, Hussain and Ansar Colony Road

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

Date of Screening: 16-11-2022

Anticipated Project Activities:

- Geometric improvement Scarification of road
- Rehabilitation of Existing Pavement Structure
- Base-Sub-Base Overlay
- Asphalt Pavement
- Tuff Pavement on Shoulders
- Pavement Marking
- Signage/Direction Boards
- Road Lights/Street lighting
- Improvement of drainage system

Estimated Cost of Sub-Project as per PC-1: 48.46 (PKR million)

Approx. Completion Time: 02 Months

Estimated Labor for Sub-Project: 20-25

Screening Questions	Yes	No	Remarks
A. Project Siting			
Is the Sub-Project area adjacent to or within any of the following?			
Environmentally sensitive areas?			
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?		✓	No surface 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 or 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		✓	No forest/crops/orchids etc. observed within jurisdiction of Sub-project.
Socially sensitive/Important areas/communities/people?			
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. However, 01 Masjid exists within 100 meters of sub-project that will not be negatively impacted due to any work activities.
Sensitive receptors (Schools, colleges, hospitals and clinics) within 100 meters of the proposed sub project		✓	There are two educational institutes such as Elite and Allied School observed within 100 meters of location of Sub-Project but these facilities will not be affected proposed 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)?		✓	It's a small scale project regarding rehabilitation of existing road surface. Hence, no demographically or socio-economically vulnerable aspects of the sub-project were observed.
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.
B. Potential Environmental Impacts			
Will the Sub-Project cause...			
1. Disturbance to habitats/biodiversity of environmentally sensitive or protected areas?		✓	The proposed project site doesn't have any environmentally sensitive or protected areas.
2. Cutting of trees?		✓	No cutting of trees 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?		✓	No wastewater generation envisaged as per scope of work during construction as well as operational phase.
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 is 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 labor camps are required to be established as per limited work activities under Sub-Project.
8. Over pumping of ground water, leading to salinization and ground subsidence?		✓	Over pumping of ground water is not required for this sub project.
9. Serious contamination of soil due to construction works?		✓	No such impact is expected.
10. Aggravation of solid waste problems in the area?	✓		Negligible impact projected and need mitigation plan during construction phase. Designated waste site will be proposed. Generated waste is to be collected at regular interval from the site.
11. Generation of hazardous waste?			
12. Increased air pollution due to sub-project construction and operation?	✓		Suspended dust particles during execution phase might pollute the surrounding air. Hence, water sprinkling at the site is proposed.
13. Noise and vibration due to sub-project construction or operation?	✓		Minor impact of noise and vibration owing to movement of heavy vehicles is envisaged during execution phase.
14. Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents due to solid/liquid?		✓	No such impact is anticipated as probability of liquid waste is low. However, waste bins at the site would be placed for storage of organic waste if any.
15. Use of chemicals during construction?		✓	In the light of sub-project scope, no hazardous chemical will be used during execution phase.
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 significant displacement/ any sort of resettlement/ economic loss is envisaged due to any Sub-Project interventions. Access to business activities might temporarily be affected during execution phase.
3. Disproportionate impacts on the poor, women and children and or other vulnerable groups ¹ (mentioned above)?		✓	No Disproportionate impacts on the poor, women and children and or other vulnerable groups are anticipated during execution phase

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

4. Temporary impediments in movements of people/transport and animals?	✓		There will be temporary hindrance in the movement of traffic and pedestrians during execution phase of the project. Nearby shop owners have been informed during public consultation phase.
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)?		✓	It's a small scale time framework project so population influx or increased burden on social infrastructure and services will not be effected.
6. Social conflicts if workers from other areas are hired?		✓	Preference will be given locals for work to avoid any conflict.
7. Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation?	✓		Measures would be taken to address or alleviate the probability of OHS risk during execution phase through administrative controls. However, stringent SOPs regarding actualization of PPEs during execution phase will be implemented at the proposed project site.
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?		✓	Likelihood of such risks and hazards is low as per the scope of the project.
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?	✓		To avoid unfortunate events, site safety should be implemented in true spirit in the form of signages, reflective tapes awareness boards by the contractors and so on.
10. Any impact on sensitive receptors (mentioned above)		✓	No significant impact is anticipated during execution phase. However, water sprinkling would be ensured to tackle the suspended dust particles.
11. Any impact of negative nature on already existing infrastructure including public amenities	✓		There is no significant impact expected to any public infrastructure owing to project activities. Access to business would be temporarily disturbed; already informed during public consultation phase. In the long run, this project is in the favor of local community and they are willing to corporate and wanted MC to get this project completed in a timely manner.

Prepared By:

Name: Haider Ali

Designation: Consultant

Signature:

Date: 16-11-2022

Endorsed By:

Name: Asif Gillani

Designation: Deputy Program Officer ESSs

Signature:

Date:

INVOLUNTARY RESETTLEMENT SCREENING CHECKLIST

Name of City/MC/LG: MC Gojra

Sub-Project Sector: Roads

Sub-Project Title: Rehabilitation of Samundri, Hussain and Ansar Colony Road

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

Date of Screening: 16-11-2022

SECTION 1	Yes	No	Expected	Remarks
Does the project require land acquisition? Yes/No		✓		No land will be required for the execution of 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 ¹ ? 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”).				Not applicable
Government and LG owned land free of occupation (agriculture or settlement)	✓			Sub-project site under possession of MC and free from all sort of settlements.
Government or state-owned land (other than LG) free of occupation (agriculture or settlement)		✓		Not Applicable
Private land		✓		
Residential		✓		
Commercial		✓		
Agricultural		✓		
Communal		✓		
Others (specify in “remarks”).		✓		
Name of owner/owners and type of ownership document if available.	✓			MC Gojra 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		✓		
Not Applicable Commercial structures (specify in “remarks”)		✓		
Community structures (specify in “remarks”)		✓		
Agriculture structures (specify in “remarks”)		✓		
Public utilities (specify in “remarks”)		✓		No public utilities and structures would be damaged during execution phase
Others (specify in “remarks”)		✓		Not Applicable
If agricultural land is being acquired, specify the following:		✓		No agriculture land required under Sub-Project.
Agriculture related impacts		✓		Not Applicable
Crops and vegetables (specify types and cropping area in “remarks”).		✓		
Trees (specify number and types in “remarks”).		✓		

SECTION 1	Yes	No	Expected	Remarks
Others (specify in “remarks”).		✓		
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 & Females		✓		Not Applicable
Titled landowners		✓		
Tenants and sharecroppers		✓		
Leaseholders		✓		
Agriculture wage laborers		✓		
Encroachers and squatters (specify in remarks column)		✓		Displayed portable items outside the shops can be moved and for that no compensation is required. This aspect has been discussed during public consultation phase.
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”)		✓		Not Applicable
How will people be affected?		✓		

Prepared By:

Name: Haider Ali

Designation: Consultant

Signature:

Date: 16-11-2022

Endorsed By:

Name: Asif Gillani

Designation: Deputy Program Officer ESSs

Signature:

Date:

¹ The sub-projects have to avoid all locations where any government led AED has been conducted

Pictures of Project Siting



ENVIRONMENTAL AND SOCIAL SCREENING CHECKLIST

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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: Shahrukh Arif MOI & S, M. Asad MOP

Name of City/MC/LG: MC Gojra

Sub-Project Sector: Roads of Gojra

Sub-Project Title: Rehabilitation of Cheemni Peer Road

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

Date of Screening: 16-11-2022

Anticipated Project Activities:

- Geometric improvement
- Scarification of road
- Base-Sub-Base Overlay
- Asphalt Pavement
- Tuff Pavement on Shoulders
- Pavement Marking
- Signage/Direction Boards
- Road Lights/Street lighting

Estimated Cost of Sub-Project as per PC-1: 29.619 (PKR million)

Approx. Completion Time: 02 Months

Estimated Labor for Sub-Project: 20-25

Screening Questions	Yes	No	Remarks
A. Project Siting			
Is the Sub-Project area adjacent to or within any of the following?			
Environmentally sensitive areas?			
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?		✓	No surface 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 or 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		✓	No forest/crops/orchids etc. observed within jurisdiction of Sub-project.
Socially sensitive/Important areas/communities/people?			
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		✓	There are two educational institutes such as Darul Islam School and Allied School observed within 100 meters of location of Sub-Project that are outside of construction limits.
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)?		✓	It's a small-scale project regarding rehabilitation of existing road surface. Hence, no demographically or socio-economically vulnerable aspects of the sub-project were observed.
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.
B. Potential Environmental Impacts			
Will the Sub-Project cause:			
16. Disturbance to habitats/biodiversity of environmentally sensitive or protected areas?		✓	The proposed project site doesn't have any environmentally sensitive or protected areas.
17. Cutting of trees?		✓	No cutting of trees required as per scope of work under Sub-Project.
18. Disruption to habitats/biodiversity of surrounding ecosystem/environment?		✓	No disruption to any habitat/ecosystem due to any Sub-Project activities.
19. Generation of wastewater during construction or operation?		✓	No wastewater generation envisaged as per scope of work during construction as well as operational phase.

20. 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 is anticipated.
21. 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.
22. Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction?		✓	No labor camps are required to be established as per limited work activities under Sub-Project.
23. Over pumping of ground water, leading to salinization and ground subsidence?		✓	Over pumping of ground water is not required for this sub project.
24. Serious contamination of soil due to construction works?		✓	No such impact is expected.
25. Aggravation of solid waste problems in the area?	✓		Negligible impact projected and need mitigation plan during construction phase. Designated waste site will be proposed. Generated waste is to be collected at regular interval from the site.
26. Generation of hazardous waste?			
27. Increased air pollution due to sub-project construction and operation?	✓		Suspended dust particles during execution phase might pollute the surrounding air. Hence, water sprinkling at the site is proposed.
28. Noise and vibration due to sub-project construction or operation?	✓		Minor impact of noise and vibration owing to movement of heavy vehicles is envisaged during execution phase.
29. Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents due to solid/liquid?		✓	No such impact is anticipated as probability of liquid waste is low. However, waste bins at the site would be placed for storage of organic waste if any.
30. Use of chemicals during construction?		✓	In the light of sub-project scope, no hazardous chemical will be used during execution phase.
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 significant displacement/ any sort of resettlement/ economic loss is envisaged due to any Sub-Project interventions. Access to business activities might temporarily be affected during execution phase.
3. Disproportionate impacts on the poor, women and children and or other vulnerable groups ² (mentioned above)?		✓	No Disproportionate impacts on the poor, women and children and or other vulnerable groups are anticipated during execution phase
4. Temporary impediments in movements of people/transport and animals?	✓		There will be temporary hindrance in the movement of traffic and pedestrians during execution phase of the project. Nearby shop owners have been informed during public consultation phase.

² Women, Children, Women headed households, People in old age, people having disabilities, socially isolated community groups and or people living below the poverty line

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)?	✓	It's a small scale time framework project so population influx or increased burden on social infrastructure and services will not be effected.
6. Social conflicts if workers from other areas are hired?	✓	Preference will be given locals for work to avoid any conflict.
7. Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation?	✓	Measures would be taken to address or alleviate the probability of OHS risk during execution phase through administrative controls. However, stringent SOPs regarding actualization of PPEs during execution phase will be implemented at the proposed project site.
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?	✓	Likelihood of such risks and hazards is low as per the scope of the project.
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?	✓	To avoid unfortunate events, site safety should be implemented in true spirit in the form of signages, reflective tapes awareness boards by the contractors and so on.
10. Any impact on sensitive receptors (mentioned above)	✓	No significant impact is anticipated during execution phase. However, water sprinkling would be ensured to tackle the suspended dust particles.
11. Any impact of negative nature on already existing infrastructure including public amenities	✓	There is no significant impact expected to any public infrastructure owing to project activities. Access to business would be temporarily disturbed; already informed during public consultation phase. In the long run, this project is in the favor of local community and they are willing to corporate and wanted MC to get this project completed in a timely manner.

Prepared By:

Name: Haider Ali

Designation: Consultant

Signature:

Date: 16-11-2022

Endorsed By:

Name: Asif Gillani

Designation: Deputy Program Officer ESSs

Signature:

Date:

INVOLUNTARY RESETTLEMENT SCREENING CHECKLIST

Name of City/MC/LG: MC Gojra

Sub-Project Sector: Roads

Sub-Project Title: Rehabilitation of Cheemni Peer Road

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

Date of Screening: 16-11-2022

SECTION 1	Yes	No	Expected	Remarks
Does the project require land acquisition? Yes/No		✓		No land will be required for the execution of 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 ¹ ? 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”).				Not applicable
Government and LG owned land free of occupation (agriculture or settlement)	✓			Sub-project site under possession of MC and free from all sort of settlements.
Government or state-owned land (other than LG) free of occupation (agriculture or settlement)		✓		Not Applicable
Private land		✓		
Residential		✓		
Commercial		✓		
Agricultural		✓		
Communal		✓		
Others (specify in “remarks”).		✓		
Name of owner/owners and type of ownership document if available.	✓			MC Gojra 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:		✓		Not Applicable
Residential structures		✓		
Commercial structures (specify in “remarks”)		✓		
Community structures (specify in “remarks”)		✓		
Agriculture structures (specify in “remarks”)		✓		
Public utilities (specify in “remarks”)		✓		No public utilities and structures would be damaged during execution phase
Others (specify in “remarks”)		✓		Not Applicable
If agricultural land is being acquired, specify the following:		✓		No agriculture land required under Sub-Project.
Agriculture related impacts		✓		Not Applicable
Crops and vegetables (specify types and cropping area in “remarks”).		✓		

SECTION 1	Yes	No	Expected	Remarks
Trees (specify number and types in “remarks”).		✓		
Others (specify in “remarks”).		✓		
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 & Females		✓		Not Applicable
Titled landowners		✓		
Tenants and sharecroppers		✓		
Leaseholders		✓		
Agriculture wage laborers		✓		
Encroachers and squatters (specify in remarks column)		✓		Displayed portable items outside the shops can be moved and for that no compensation is required. This aspect has been discussed during public consultation phase.
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”)		✓		Not Applicable
How will people be affected?		✓		

Prepared By:

Name: Haider Ali

Designation: Consultant

Signature:



Date: 16-11-2022

Endorsed By:

Name: Asif Gillani

Designation: Deputy Program Officer ESSs

Signature:

Date:

¹ The sub-projects have to avoid all locations where any government led AED has been conducted

Pictures of Project Siting



ENVIRONMENTAL MITIGATION & MANAGEMENT COST

Sr no	Description	Unit	Quantity	Unit Rate (Rs.)	Amount Rs
A.	Labor Safety				
1	Face Masks (3 PLY)	Nos	10	700	7000
2	Safety Gum Shoes	Nos	10	1350	13500
3	Hand Gloves (Hi-Performance Polyurethane)	Nos	10	245	2450
4	First Aid Box (Including essential Medicine)	Nos	1	5000	5000
5	Safety Hard Helmets MSA	Nos	10	2000	20000
6	Safety Goggles	Nos	10	550	5500
7	Reflective Safety Vests	Nos	10	550	5500
8	Infrared Thermometer (Benetech GM-2200 OR equivalent)	Nos	1	45,000.00	45000
				Sub -Total	103,950
B.	Working Site Safety				
1	Reflective Safety Signs Boards	Nos	2	10,000.00	20,000
2	Reflective Safety PVC Cones (18 inch)	Nos	05	1,200.00	6000
	Road Guiding Potable Delineators with chain	Nos	03	1,500.00	4500
	Reflective Safety Barricading Tape	Nos	03	1,500.00	4500
3	Emergency Portable Light	Nos	1	5,000.00	5000
4	Solid Waste Collection Container (8 x 5 x 5)	Nos	1	5,000.00	5,000
	Fire Extinguishers DCP	Nos	2	7,000.00	14,000
				Sub -Total	59,000
D.	Others				
1	Pole Hanging Waste Bins	Nos.	2	10,000	20,000
2	Water Sprinkling (Dust Abatement)	L.S	1	100,000	200,000
	Environmental Analytical Assessment (Noise quality testing)	L.S	8	1000	8,000
	Environmental Analytical Assessment (Water quality testing)	L.S	2	22000	44000
	Environmental Analytical Assessment (Air quality testing)	L.S	2	85000	170,000
	Labor campsite management	L.S	1	100,000	200,000
				Sub-Total	642,000
	Total Amount (Rs)				804,950

ENVIRONMENTAL MITIGATION & MANAGEMENT PLAN							
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	Negligible	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. Worse House Keeping b) Social Issues:	High	<ul style="list-style-type: none"> Excavated material will be disposed within 24 hours at the designated place of MC Gojra. 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. Public must be informed about project major activities, duration of scheme, time and schedule, anticipated impacts 	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"> • 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 		<p>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.</p> <ul style="list-style-type: none"> ○ Construction work will be scheduled in such a way that business of the shopkeepers will not be affected. ○ 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. 				
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. 	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 	Contractor	Visual/Pictures	<ul style="list-style-type: none"> • Daily site visit during construction phase 	<ul style="list-style-type: none"> • ESFPs • DPO ESM • Supervision Consul

	<ul style="list-style-type: none"> 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 construction material 		<p>shall be covered with a good quality tarpaulin; Contractor will lay/utilize construction materials as per work requirement from his storage site.</p> <ul style="list-style-type: none"> Contractor will use night vision reflective signboards/ reflective tapes to cordon off the area during construction activities. 			<ul style="list-style-type: none"> Fortnightly/Weekly Once during the construction phase 	<p>tants E&S team</p>
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, 15/16 number of workers/laborers will be required to work for almost 25 days 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. 	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

			<ul style="list-style-type: none"> • 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. 				
Vehicle Movements	<ul style="list-style-type: none"> • Traffic congestion • Conflicts • Vehicle emissions 	High	<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 	Contractor	Visual/ Pictures, Vehicle emission tests 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
Site Safety Issues	<ul style="list-style-type: none"> • Accidents 	High	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.	Contractor	Visual/ Pictures	<ul style="list-style-type: none"> • Daily site visit during construction phase 	<ul style="list-style-type: none"> • ESFPs • DPO ESM • Supervision

						<ul style="list-style-type: none"> Fortnightly/Weekly Once during the construction phase 	Consultants E&S team
Public access	Problems for pedestrians. Normal mode of transport may be disturbed during Sub-project execution.	Medium	<ul style="list-style-type: none"> If it required to provide an alternated access route, contractor will ensure that the alternate access route must consider the safety aspects for all kind of pedestrian i.e. women, children, disabled. Cordon off the construction zone. 	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
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,	<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 	<ul style="list-style-type: none"> ESFPs DPO ESM

gravel, sub base						<ul style="list-style-type: none"> constructi on phase • Fortnightl y/Weekly • Once during the constructi on phase 	<ul style="list-style-type: none"> • Superv ision Consul tants E&S team
Damage to Public Infrastructure/utilities	nts/Incidents/Injuries ral loss Conflicts	High	<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. 	Contractor	Visual/ Pictures	<ul style="list-style-type: none"> • Daily site visit during constructi on phase • Fortnightl y/Weekly • Once during the constructi on phase 	<ul style="list-style-type: none"> • ESFPs • DPO ESM • Superv ision Consul tants 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. • No child labor is allowed onsite below 14 years. • GRM at site level will be ensured to report in case of any such incident 	Contractor	Visual/ Pictures/Repo rted/Complai ns by public during visit	<ul style="list-style-type: none"> • Daily site visit during constructi on phase • Fortnightl y/Weekly • Once during the constructi on phase 	<ul style="list-style-type: none"> • ESFPs • DPO ESM • Superv ision Consul tants E&S team
CoViD-19 SOPs	<ul style="list-style-type: none"> • Spread of Corona 	Low	<ul style="list-style-type: none"> • Contractor will provide face masks to the labor on daily basis to reduce Corona impact. 	Contractor	Visual/ Pictures	<ul style="list-style-type: none"> • Daily site visit during 	<ul style="list-style-type: none"> • ESFPs • DPO ESM

implementati on	among the labor		<ul style="list-style-type: none"> Contractor will follow CoViD-19 guidelines during construction works 			constructi on phase <ul style="list-style-type: none"> Fortnightl y/Weekly Once during the constructi on phase 	<ul style="list-style-type: none"> Superv ision Consul tants 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"> 	<ul style="list-style-type: none"> MC Officia ls