



Local Government & Community Development Department

Punjab Cities Program Improvement and Rehabilitation of P2- Mission and Mongi Road & Chowks in DC T.T Singh Unit Gojra

PC-I

Estimated Cost PKR 152.62 Million

January 2023

District Council Toba Tek Singh
Unit Gojra



JERS CONSULTANCY (PVT) LTD

(Formerly Jers Engineering Consultants)

24-Civic Center, Quid-e-Azam Town, Township, Lahore (Pakistan)

Tel: +92 42 35113123, +92 42 35113124

Fax: +92 42 35113125

E-mail: info@jers.com.pk, mail@jers.com.pk

Web: <http://www.jers.com.pk>



Punjab Cities Program
PC-I Form for Improvement of P2-Mission & Mongi Road & Chowks
Project in Gojra City

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PC-I FORM
for
Improvement & Rehabilitation of P2-Mission and Mongi Road & Chowks
Project in Gojra City

Project Serial Number

Sector : **Local Government & Community Development Department**

Sub Sector: **Social**

1. Name of the project	Punjab Cities Program Improvement & Rehabilitation of P2-Mission and Mongi Road & Chowks Project in Gojra city	
2.Location	Gojra was given the status of a Tehsil Headquarter and affiliated with newly established district Toba Tek Singh in 1982.The town of Gojra is located at 72°-41' East and 31°-9' North. The city is located at 50 km from Faisalabad, 170 km from Lahore and 32 km north of Toba Tek Singh. Location map of the city is attached in Annexure-A	
3. Authorities responsible for		
i- Sponsoring	Government of the Punjab (through World Bank funding)	
ii- Execution	District Council Toba Tek Singh Unit Gojra	
iii- Operation and Maintenance	District Council Toba Tek Singh Unit Gojra	
iv-Concerned Provincial Department	Local Government and Community Development Department Punjab	
4a.Plan Provision		
i. If the project is included in medium term/five year plan, specify actual allocation	Punjab Cities Program (PCP) is a World Bank funded Program with a total cost of USD 236.00 million and comprises of below mentioned components.	
	Total loan from World Bank	USD 200.00 million
	Component-1 Infrastructure development (PforR)	USD 180.00 million USD
	Component-2 Technical Assistance	USD 20.00 million
	MCs share (20% of PforR component) equivalent to:	USD 36.00 million
	Total Program cost	USD 236.00 million

	Component-2 i-e Technical Assistance component of Program costing USD 20.00 million is meant for management cost of the Program and capacity building of Municipal Units & Government Departments and is included in the medium term/ five-year plan and has been funded now in ADP 2022-23 - under General Serial No-1769 with allocation of PKR 1329.90 million as foreign component.
ii- If not included in the current plan, what warrants its inclusion and how it is now proposed to be accommodated	Not applicable
iii If the project is proposed to be financed out of block provision indicate.	The Project is being financed by World Bank as Donor along with 20% co-financing from the Program Units and is not proposed to be financed out of block allocation.
4b- Provision in the current year PSDP/ADP	PKR.1329.90 million under ADP 2022-23 General Serial No 1769 for Component-2 of the Program i-e Technical Assistance as described above.
5. Project objectives and its relationship with sector objectives	<p><u>Sector Objectives</u></p> <p>The sector objectives include:</p> <ol style="list-style-type: none"> 1. Provision of efficient and effective municipality services to the masses. 2. Community development through improving basic infrastructure. 3. Clean and green environment for better living standards. 4. Effective use of land through master planning of urban areas. 5. Social uplifting and cohesion through provision of public open spaces and play grounds. 6. Ease in mobility and communication. 7. Cost efficient Solid Waste Management through waste to energy initiatives. 8. Capacity building of Local Governments. 9. Efficient Road network to make areas easily accessible <p><u>Objectives of the Project</u></p> <p>The Project aims at improvement of infrastructure of municipal services such as roads, chowks, cross roads, street lights, parks and parking shed for SWM machinery for improved communication and recreational facilities.</p> <p>Scope of the work for this particular project includes the rehabilitation and improvement of existing roads, chowks and drainage system along with the construction of new drainage system where needed. However,</p>

	<p>the cleaning and de-silting of existing drains and pipes will be arranged by MC Gojra from their own resources.</p> <p>The Project has the following objectives;</p> <ol style="list-style-type: none"> 1. Improvement of service delivery level of the municipal services in the sector of communication. 2. Better travelling facilities for the commuters. 3. Reduction in road accidents. 4. Saving in travelling and repair cost of the vehicles. 5. Reduction in annual maintenance charges of roads and parks 6. Better lit roads and streets adding to security of people travelling at night. 7. Improvement in environments of the city making them livable. 8. Improvement in local and province economy. 9. Improvement in the economic growth potential of the city. <p>Hence, the objectives of the project are in line with the sector objectives mentioned at Sr. No-1, 2, 3, 5 and 6 above and the project forms integral part of the concerned sector.</p>
<p>6. Description, justification, technical parameters and technology transfer aspects</p>	
<p>i. Present Condition</p>	<p>As per PLGA-12019 Urban Local Governments (ULGs) are basically and wholly responsible for delivery of the municipal services with a service delivery level which should satisfy the consumers and citizen. Unfortunately, the prevalent conditions of the service delivery are not encouraging in the city.</p> <p>The major reason of unsatisfactory service delivery is the lack of proper maintenance of the municipal infrastructure in all sectors causing consumer dissatisfaction at one end and degradation of the infrastructure on the other end apart from very low revenue recovery as the consumers are reluctant to pay because of deteriorated service delivery.</p> <p>The roads infrastructure has been damaged and degraded because of lack of repairs and upgradation due to shortage of money and constrained municipal budgets. If these roads & chowks are not improved at this stage, then this infrastructure will be further damaged / degraded giving financial loss to the public as well as private sectors and the growth potential of the city will be adversely affected. Damaged roads will increase the operational expenditure of the vehicles apart from wasting time and giving rise to public frustration and mental agony.</p> <p>The only way to keep the infrastructure in operational and functional condition for better travelling and recreational facilities to the inhabitants</p>

	of the city and the surrounding areas, is to improve the roads, chowks and important cross roads		
ii. Description of the subproject-	The project comprises of improvement of 01 Nos damaged roads with total length of 1.57 Km and 03 Nos chowks in the city. Detail of these roads has been given in the table below.		
iii Detail of civil works, equipment & machinery and other physical facilities	The detail of roads and chowks to be improved, rehabilitated or constructed in the city, is given below		
	Improvement and construction of roads		
	S. N.	Name of road	From-To Detail of works involved
	1	P2-Mission Road & Mongi road	Mission Chowk Via Railway Crossing Chowk to Takia Phomin Sian Chowk <ul style="list-style-type: none"> • Geometric Improvement • Rehabilitation of Existing Pavement Structure • Pavement Marking • Street Lighting • Improvement of drainage system
	• Chowks or Cross Roads		
	S. N.	Name of Chowk	
1	Mission Chowk	<ul style="list-style-type: none"> • Geometric Improvement of intersection • Channelization of traffic flow • Rehabilitation of Existing Pavement Structure • Pavement Marking • Street Lighting • Aesthetic improvement of chowk 	
2	Phattak Chowk-1	<ul style="list-style-type: none"> • Geometric Improvement of intersection • Channelization of traffic flow • Rehabilitation of Existing Pavement Structure • Pavement Marking • Street Lighting • Aesthetic improvement of chowk 	
3	Phattak Chowk-2	<ul style="list-style-type: none"> • Geometric Improvement of intersection • Channelization of traffic flow • Rehabilitation of Existing Pavement Structure • Pavement Marking • Street Lighting • Aesthetic improvement of chowk. 	

<p>iv Indicate governess issues of the sector relevant to the project and strategy to resolve them</p>	<ul style="list-style-type: none"> • DC T.T Singh Unit Gojra is facing acute shortage of staff. The smooth sailing of the Punjab Cities Program can only be assured when the required staff is available with Unit. • The Repair and maintenance of the municipal services is not up to the mark in such Unit. Trainings will be imparted by PMDFC to the officers as well as the field staff under the Program but practicing the interventions and method/procedures learnt in these trainings is the actual requirement in which Units are lacking at present. Hence inculcating the mind set for good repair and maintenance is the major requirement for improving the service delivery level. 																											
<p>7- Capital Cost of Project</p>	<p>The summary of the works included in the project is given below;</p> <table border="1" data-bbox="544 725 1489 1227"> <thead> <tr> <th>S. No</th> <th>Name of road</th> <th>Cost (PKR million)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P2-Mission Road & Mongi road</td> <td>96.73</td> </tr> <tr> <td>2</td> <td>Drainage System</td> <td>27.92</td> </tr> <tr> <td>3</td> <td>Electrical Works</td> <td>17.48</td> </tr> <tr> <td>4</td> <td>Environment And Social Mitigation Cost</td> <td>0.49</td> </tr> <tr> <td></td> <td style="text-align: right;">Total</td> <td>142.64</td> </tr> <tr> <td>5</td> <td>Contingencies @2%</td> <td>2.85</td> </tr> <tr> <td>6</td> <td>Punjab Sales Tax @5%</td> <td>7.13</td> </tr> <tr> <td></td> <td style="text-align: right;">Grand Total</td> <td>152.62</td> </tr> </tbody> </table> <p>See Annexure-B for details</p>	S. No	Name of road	Cost (PKR million)	1	P2-Mission Road & Mongi road	96.73	2	Drainage System	27.92	3	Electrical Works	17.48	4	Environment And Social Mitigation Cost	0.49		Total	142.64	5	Contingencies @2%	2.85	6	Punjab Sales Tax @5%	7.13		Grand Total	152.62
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<p>i- Indicate date of estimation of the project cost</p>	<p>The project estimates have been framed during the month of August 2022.</p>																											
<p>ii- Basis of determining the estimates be provided.</p>	<p>The cost estimates have been framed on the basis of bill of quantities actually required at site and unit rates from the Market Rate System (MRS) issued by the Government of Punjab (District Toba Tek Singh 1st biannual of year 2023). For items not available in the MRS, the same have been analyzed as per prevailing market rates.</p>																											

<p>iii- Provide year wise estimation of physical activities</p>	<p>The physical and financial requirements, year wise are included in the following table:</p> <table border="1" data-bbox="544 275 1441 546"> <thead> <tr> <th>S. #</th> <th>Name of road / chowk</th> <th>Year 2022-2023</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P2-Mission Road & Mongi road</td> <td>100%</td> </tr> <tr> <td>2</td> <td>Mission Chowk</td> <td>100%</td> </tr> <tr> <td>3</td> <td>Phattak Chowk-1</td> <td>100%</td> </tr> <tr> <td>4</td> <td>Phattak Chowk-2</td> <td>100%</td> </tr> </tbody> </table>	S. #	Name of road / chowk	Year 2022-2023	1	P2-Mission Road & Mongi road	100%	2	Mission Chowk	100%	3	Phattak Chowk-1	100%	4	Phattak Chowk-2	100%																					
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<p>iv- Phasing of capital cost on the basis of each item of work.</p>	<p>The phasing of capital cost of the project is included in the following table: (All figures are in million rupees)</p> <table border="1" data-bbox="544 730 1490 1256"> <thead> <tr> <th>S. #</th> <th>Items of Road/chowk</th> <th>Total (PKR million)</th> <th>Year 2022-2023 (100%)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Mission Road & Mongi road</td> <td>96.73</td> <td>96.73</td> </tr> <tr> <td>2</td> <td>Drainage System</td> <td>27.92</td> <td>27.92</td> </tr> <tr> <td>3</td> <td>Electrical Works</td> <td>17.48</td> <td>17.48</td> </tr> <tr> <td>4</td> <td>Environment and Social Mitigation Cost</td> <td>0.49</td> <td>0.49</td> </tr> <tr> <td></td> <td>Total</td> <td>142.64</td> <td>142.64</td> </tr> <tr> <td>5</td> <td>Contingencies @2%</td> <td>2.85</td> <td>2.85</td> </tr> <tr> <td>6</td> <td>Punjab Sales Tax @5%</td> <td>7.13</td> <td>7.13</td> </tr> <tr> <td></td> <td>Grand Total</td> <td>152.62</td> <td>152.62</td> </tr> </tbody> </table>	S. #	Items of Road/chowk	Total (PKR million)	Year 2022-2023 (100%)	1	Mission Road & Mongi road	96.73	96.73	2	Drainage System	27.92	27.92	3	Electrical Works	17.48	17.48	4	Environment and Social Mitigation Cost	0.49	0.49		Total	142.64	142.64	5	Contingencies @2%	2.85	2.85	6	Punjab Sales Tax @5%	7.13	7.13		Grand Total	152.62	152.62
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<p>8-Annual recurrent cost after completion of the project and source of financing</p>	<p>The roads & chowks are already being repaired and maintained by the DC T.T Singh Unit Gojra out of its own financial resources. No additional cost will be required after completion of the improvement and upgradation of the roads and chowks, rather the repairs cost will be reduced for the initial years. However, the efficiency of the infrastructure and service delivery level will be improved after completion of the project.</p>																																				
<p>9- Demand & Supply Analysis</p> <p>i- Existing Capacity of services</p>	<p>Existing supply level</p> <ul style="list-style-type: none"> Existing geometry of the roads and chowk is not well enough to sustain the smooth traffic flow. Existing pavement structure of the roads and chowk is deteriorated which needs the rehabilitation to bear the traffic loading and better riding quality. DC T.T Singh Unit Gojra is unable to render satisfactory service to the entire area of the city because of degraded infrastructure wherein some rehabilitation and improvement are direly needed but could not be able to accomplish them because of low revenue recovery and funding constraints. Very few areas are reasonably served but others are deprived of the required level of the service. This is resulting in low credibility of the municipal services and citizen dissatisfaction. 																																				

	<p>Further the infrastructure has not been developed and extended keeping in pace with the growth of population mainly due to migration from rural areas to urban areas. The market prices of the materials and labor have also increased drastically during the last decade which increased the O&M cost of services. This has further degraded the situation and the service delivery level is further deteriorating.</p>
ii- Projected Demand for 10 years	<ul style="list-style-type: none"> • Traffic is increasing day by day in Gojra city. Projected traffic of 1 project roads for 10 year is 153 million. Project roads of Unit Gojra needs to be improved to save the travel time and better riding quality. • The municipal services require radical improvement to enhance the efficiency of the service to increase service delivery to a satisfactory level. For this purpose, the existing infrastructure will have to be improved. • Many shortcomings, problems and bottlenecks have been observed in the existing infrastructure which could not be addressed by MC due to funding constraints and now have been proposed to be addressed by rehabilitation of defective and outlived components of all the municipal services infrastructure.
iii- Capacity of other similar projects being implemented in public/private sector	<p>No other project of this nature is being implemented in public as well as private sector because of funding constrains in the Unit.</p>
iv- Supply and Demand gaps	<p>The nature of supply and demand gap has been explained in the preceding paras which concludes;</p> <ul style="list-style-type: none"> • 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 and chowk. • The existing infrastructure has poor efficiency resulting in unsatisfactory service delivery level. • The O&M cost of the infrastructure services is very high because of low efficiency and high market rates while there in a large gap between the O&M expenditure and the revenue recovery. • Large subsidies are being injected by Municipal Units to the keep the services in operation • Numerous public complaints are the talk of the day. • Unsatisfactory municipal delivery is not encouraging the city to become engines of economic growth and hence the GDP of our city is much lower than the peers in the developing world.

	Hence there is a large gap between the supply and demand which is to be bridged by improvement in the infrastructure and its management.																
v-Designed capacity and output of the project	<p>1. Table showing Name of roads, From and to reaches, length, ROW, metaled width and type of pavement of each road and total length is given below:</p> <table border="1" data-bbox="544 443 1489 734"> <thead> <tr> <th>Sr. #</th> <th>Road Name</th> <th>From and To</th> <th>Pavement Type</th> <th>ROW</th> <th>Carriageway Type</th> <th>Metaled Width</th> <th>Length (km)</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Mission Road & Mongi road</td> <td>Mission chowk to Takla Phomin Sian chowk</td> <td>Asphalt Concrete</td> <td>59 ft single (Varies) 78 ft dual varies</td> <td>Single and Dual with Median</td> <td>25 ft single (varies) 60 ft dual varies</td> <td>1.57 km</td> </tr> </tbody> </table> <p>2. 3 chowks Mission Chowk, station chowk 1, station chowk 2, connecting with P1-Gojra Toba Road. Mission Road & Mongi road, Sammundri Road Hussain & Ansar Colony Road and Chemni Peer road.</p> <p>3. Roads and chowk are designed for 10-year life.</p> <p>4. These roads will carry out the 153.97 Million traffic cumulatively for 10 years.</p> <p>5. Improvement of these roads and chowk will decrease the travel time of commuters which will ultimately improve the economy of city.</p>	Sr. #	Road Name	From and To	Pavement Type	ROW	Carriageway Type	Metaled Width	Length (km)	2	Mission Road & Mongi road	Mission chowk to Takla Phomin Sian chowk	Asphalt Concrete	59 ft single (Varies) 78 ft dual varies	Single and Dual with Median	25 ft single (varies) 60 ft dual varies	1.57 km
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<p>10. Financial Plan</p> <p>Sources of financing</p> <p><u>Debt</u></p> <p>a) Indicate the local and foreign debt Loan</p>	<p>Below given loan for the Punjab Cities Program has been funded by World Bank for 16 PCP cities in Punjab.</p> <table border="1" data-bbox="544 1283 1476 1630"> <tr> <td>Total loan to Government of Pakistan/Punjab</td> <td>USD 200 million</td> </tr> <tr> <td>Component-1 for Infrastructure Development</td> <td>USD 180 million</td> </tr> <tr> <td>Component-2 for Investment Project Financing For capacity building of MCs & three Govt. organization and program management.</td> <td>USD 20 million</td> </tr> <tr> <td>20% share of Municipalities is equivalent to</td> <td>USD 36 million</td> </tr> <tr> <td>Total funds available for Infrastructure Development</td> <td>USD 216 million</td> </tr> </table> <p>This project will be funded under this financing.</p>	Total loan to Government of Pakistan/Punjab	USD 200 million	Component-1 for Infrastructure Development	USD 180 million	Component-2 for Investment Project Financing For capacity building of MCs & three Govt. organization and program management.	USD 20 million	20% share of Municipalities is equivalent to	USD 36 million	Total funds available for Infrastructure Development	USD 216 million						
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b) Equity	<p>A. Loan/grant to MC The amount of loan converted to grant to Gojra Unit will be PKR. (122.10) million. The financing of the project will be as given below:</p> <table border="1" data-bbox="558 358 1465 577"> <tr> <td data-bbox="558 358 1090 443">Grant to Unit for the year 2022-2023 (80% of cost of PC-I)</td> <td data-bbox="1090 358 1465 443">PKR 122.10 million</td> </tr> <tr> <td data-bbox="558 443 1090 528">20% Co-finance by MC (20% of the cost of PC-I)</td> <td data-bbox="1090 443 1465 528">PKR 30.52 million</td> </tr> <tr> <td data-bbox="558 528 1090 577">Total available funds</td> <td data-bbox="1090 528 1465 577">PKR 152.62 million</td> </tr> </table> <p>B. Project Cost PKR 152.62 million</p> <p>*The loan is from World Bank to Government of Pakistan/Punjab which will trickle down to Gojra Unit as grant.</p>	Grant to Unit for the year 2022-2023 (80% of cost of PC-I)	PKR 122.10 million	20% Co-finance by MC (20% of the cost of PC-I)	PKR 30.52 million	Total available funds	PKR 152.62 million
Grant to Unit for the year 2022-2023 (80% of cost of PC-I)	PKR 122.10 million						
20% Co-finance by MC (20% of the cost of PC-I)	PKR 30.52 million						
Total available funds	PKR 152.62 million						
c) Grants	No grant is being given by Government of Punjab out of ADP funds. The World Bank loan to Government of Pakistan/Punjab will trickle down as grant to unit Gojra from Government of Punjab.						
d) Weighted cost of capital	Nil						
11-Project benefits and analysis							
i. Financial: Income to the project with assumption	<ul style="list-style-type: none"> • The project comprises of improvement of roads, chowks and cross roads in the city. • Gojra Unit has no plan to levy user charges /toll tax on the roads as these are internal roads of city and levying of toll tax is not feasible. • However, it is an infrastructure sector project but the capital cost of the project is not intended to be recovered. The unit will meet the cost of repair and maintenance out of its own resources. The project economic analysis is given as Annexure-C. 						
ii. Social benefits to the target group	<p>The completion of the project will result in:</p> <ul style="list-style-type: none"> • Up gradation of the infrastructure. • Enhanced life of the roads and chowks. • Reduction in travelling time of the commuters. • Reduction of road accidents. • Reduction in consumption of POL resulting in saving of the foreign exchange. • Reduction in the operation and maintenance cost of the vehicles. • Improvement in the environment of the city; • Minimized public mental tension and frustration • Improved local economy • Improvement of city growth potential 						

iii.Environmental Impact negative/positive	<p>Construction/Rehabilitation of Roads and Chowks and their subsequent long-term use lead to many changes in the environment. There will be some negative impacts during rehabilitation of the Roads and Chowks in the form of noise of the machinery, dismantling of the existing roads, dust pollution, nuisance caused by higher traffic, risked caused by animal intersecting routes or consequences of any crossing water courses etc. Therefore, it is recommended to develop variant solutions in order to choose the one that would be least harmful to the environment, and then to incorporate them in an Environmental and Social Management Framework. However, the impacts will be temporary and there will be no negative impacts after completion of the project, rather, positive impacts, because of improvement in environments of the city, will be observed and present traffic hazards and jams will be eliminated. Hence overall positive impacts will be experienced due to execution and operation of the sub-projects.</p> <p>To facilitate the selection of an optimal solution and for the inclusion of Safe Operating Procedures for Construction workers/labors; assessment indicators or an Environmental Screening Checklists have been developed which is attached as Annexure E (A) of this PC-1. The checklist focuses on Environmental Issues and social concerns and ensure that all environmental and social dimensions are adequately considered. Based on. The Environment, Health and Safety SOPs for labor/workers are provided as Annexure E (B).</p> <p>E&S Screening Involuntary resettlement checklists and Environment & Social Mitigation plan will be the part of bidding documents</p>						
iv. Quantifiable project outputs	<p>The quantifiable project out puts have been given above in Sr. No-9 (V). The social benefits to the citizen have been described at Sr. No-11(ii).</p>						
v. Unit cost analysis	<p>The unit cost analysis is produced below;</p> <table border="1" data-bbox="555 1377 1473 1512"> <tr> <td>Project capital cost</td> <td>PKR 152.62 million</td> </tr> <tr> <td>Population of the city in year 2023</td> <td>276,925 persons</td> </tr> <tr> <td>Unit capital cost per capita</td> <td>PKR 551.15</td> </tr> </table> <ul style="list-style-type: none"> • Unit R&M cost: – The Repair & maintenance cost is already being borne by Gojra Unit and there will be no increase in this cost. Due to improvement of the infrastructure R&M cost will reduce for at least 5 years after completion of the project. 	Project capital cost	PKR 152.62 million	Population of the city in year 2023	276,925 persons	Unit capital cost per capita	PKR 551.15
Project capital cost	PKR 152.62 million						
Population of the city in year 2023	276,925 persons						
Unit capital cost per capita	PKR 551.15						
vi. Employment generation (direct and indirect)	<p><u>Employment Analysis</u></p> <p>Direct Employment</p> <p><i>a) Planning and Design of projects</i></p> <p>The planning and design of the project has been entrusted to local consultants who have appointed staff and experts in road and related disciplines along with their support staff. The consultants will also appoint their staff for resident supervision of the project to verify and certify the items of works to be executed under this PC-I.</p>						

	<p>b) Execution of the Project</p> <p><i>a) PMDFC</i> PMDFC has the project monitoring and supervisory role and the company has enough experts and staff to complete this assignment. PMDFC has already deployed under mentioned staff for these projects:</p> <ul style="list-style-type: none"> • Civil Engineers • Accounts, administration and audit personnel • Urban planners • GIS experts • Support staff like computer operators, vehicle drivers, office boys and guards. • Procurement experts • Communication experts • Environmental and social experts • Contract management experts <p><i>b) Consultants</i> PMDFC has employed consultants for detailed design and resident supervision of the projects who will deploy their staff for execution of the project.</p> <p><i>c) Municipality</i> Gojra Unit has regular staff like engineers, sub engineers and other administrative & accounts keeping staff which will be responsible for execution of the project and contract management. No additional staff will be needed for execution of this project</p> <p><i>d) Contractor</i> The contractor responsible for execution of the sub project will employ skilled and un-skilled labor on this work.</p> <p>Indirect Employment Indirect employment for production of material such as cement, steel, stone metal, bitumen, bricks etc. will be generated.</p>
vii. Impacts of delays on project cost and viability	<p>The impact of delay in project implementation will;</p> <ul style="list-style-type: none"> • Result in increased project cost due to escalation in cost of material and labor. • Delay the benefits to the target group • Result in further deterioration of the infrastructure and the service delivery level.
12-Implementation Schedule	

a) Indicate starting and completion date of the project	The project is anticipated to commence by March 2023 and to be completed by June 2023 with project implementation period of 4 months.
b) Item wise/year wise schedule in line chart	The Gantt chart has been attached at Annexure-D
13- Management Structure and manpower requirements	
i. Administrative arrangements for the implementation of the project	<p>ii. Planning & design of the project The project has been designed by the consultants employed by PMDFC and will also carry out the resident supervision of the project.</p> <p>iii. Preparation of cost estimation The cost estimates have been prepared by the design consultants by actual measurements are required at site. The execution of the items of works included in these estimates /PC-I will be certified by these consultants.</p> <p>iv. Execution of the project</p> <ul style="list-style-type: none"> • The project will be executed by DC T.T Singh Unit Gojra and supervised by the Consultants appointed by PMDFC in resident supervision mode. The technical staff & experts in PMDFC will oversee, co-ordinate and collaborate in the project planning, design and implementation through their experts in head office located in Lahore and regional offices. The reporting of progress to LG & CDD & World bank and troubleshooting will also be responsibility of PMDFC. • MO (I&S) of the Unit has been designated as Project Manager /Engineer in Charge of the project. The supervision of the works will also be carried out by these municipal officers along with their support engineering staff. All supervisory staff is available with unit Gojra • The procurement of works and goods will be done by Procurement Committee of Gojra Unit as per PPRA Rules. <p>v. Verification of quantities included in PC-Is and Resident Supervision of the works by consultants The works will be supervised by Supervision Consultants in resident supervision mode by assuring the quantity and quality of works. The consultants will verify the items of work and their quantities contained in the PC-Is and cost estimates initially and then the quantities and quality of works included in the contractor claims at the stage of payments. Payments will be made by the Unit after these contractor</p>

	<p>claims have been entered in the measurement books by the Project Manager/Engineer in Charge and pre audited as per LG Works Rules.</p>																
<p>ii- The manpower requirements by skills during execution and operation of the project and; The job description, qualification, experience, age and salary of each post</p>	<p>a) PMDFC experts and staff For rendering assistance in implementation of infrastructure projects in 16 MCs, PMDFC has the experts and staff in the required fields. In order to facilitate the Program Units, three regional offices have been established by PMDFC at Gujranwala, Faisalabad and Multan/Khanewal.</p> <p>b) Resident Supervision Consultants The project will be supervised by consultants. The tentative staff to be employed/deployed by the consultants for the certification of quantities of works and resident supervision of the project is given below.</p> <table border="1" data-bbox="544 752 1489 1361"> <thead> <tr> <th data-bbox="544 752 584 819">S #</th> <th data-bbox="584 752 852 819">Personnel</th> <th data-bbox="852 752 954 819">Nos</th> <th data-bbox="954 752 1489 819">Qualification</th> </tr> </thead> <tbody> <tr> <td data-bbox="544 819 584 1133">1</td> <td data-bbox="584 819 852 1133">Chief Resident Engineer/Team Leader</td> <td data-bbox="852 819 954 1133">01</td> <td data-bbox="954 819 1489 1133">BSc;/BE in Civil engineering from HEC approved University with minimum 20 years' professional experience and 5 years' experience on similar assignment or MSC; Civil Engineering/Public Health Engineering/Environmental Engineering with Bachelor in Civil Engineering and minimum 15 years, experience, with 5 years on similar assignments on urban planning, designing and construction supervision assignment.</td> </tr> <tr> <td data-bbox="544 1133 584 1263">2</td> <td data-bbox="584 1133 852 1263">Assistant Resident Engineer</td> <td data-bbox="852 1133 954 1263">01</td> <td data-bbox="954 1133 1489 1263">Bachelor Degree in Civil engineering with minimum 8 years' experience in site supervision and execution for projects of similar nature</td> </tr> <tr> <td data-bbox="544 1263 584 1361">3</td> <td data-bbox="584 1263 852 1361">Site Inspectors</td> <td data-bbox="852 1263 954 1361">01</td> <td data-bbox="954 1263 1489 1361">DAE in Civil with minimum 10 years' experience in site supervision for projects of similar nature</td> </tr> </tbody> </table> <p>c) Contractor's Technical staff, skilled & non skilled labor The contractors will employ the supervisory technical staff and skilled & non skilled labor for execution of works. The works will be supervised by experienced Engineers and sub engineers and the number of slots for engineers and skilled and non-skilled will depend upon the type and quantity of work and its period of completion.</p> <p>d) Repair & maintenance of the project MC has its own regular staff which has been deployed for repair and maintenance of the municipal services infrastructure. However, it has been observed that the existing staff is not adequate to repair and maintain the services in a manner which can give good service delivery. Hence it is proposed to;</p> <ul style="list-style-type: none"> • Fill up the presently vacant slots 	S #	Personnel	Nos	Qualification	1	Chief Resident Engineer/Team Leader	01	BSc;/BE in Civil engineering from HEC approved University with minimum 20 years' professional experience and 5 years' experience on similar assignment or MSC; Civil Engineering/Public Health Engineering/Environmental Engineering with Bachelor in Civil Engineering and minimum 15 years, experience, with 5 years on similar assignments on urban planning, designing and construction supervision assignment.	2	Assistant Resident Engineer	01	Bachelor Degree in Civil engineering with minimum 8 years' experience in site supervision and execution for projects of similar nature	3	Site Inspectors	01	DAE in Civil with minimum 10 years' experience in site supervision for projects of similar nature
S #	Personnel	Nos	Qualification														
1	Chief Resident Engineer/Team Leader	01	BSc;/BE in Civil engineering from HEC approved University with minimum 20 years' professional experience and 5 years' experience on similar assignment or MSC; Civil Engineering/Public Health Engineering/Environmental Engineering with Bachelor in Civil Engineering and minimum 15 years, experience, with 5 years on similar assignments on urban planning, designing and construction supervision assignment.														
2	Assistant Resident Engineer	01	Bachelor Degree in Civil engineering with minimum 8 years' experience in site supervision and execution for projects of similar nature														
3	Site Inspectors	01	DAE in Civil with minimum 10 years' experience in site supervision for projects of similar nature														

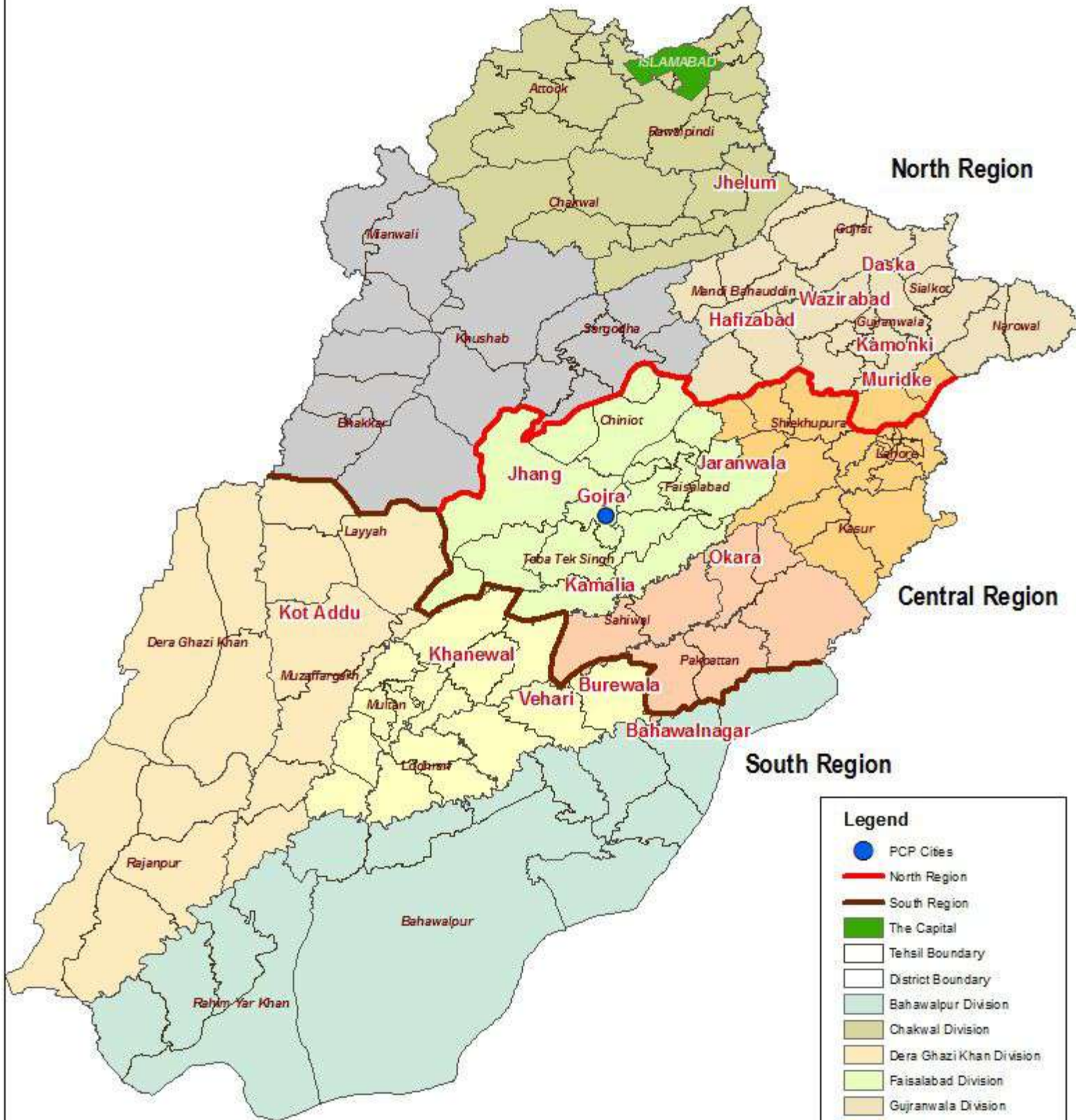
	<ul style="list-style-type: none"> Recruit additional staff as per need of the infrastructure after obtaining the sanctions from the competent authorities.
14-Additional projects /decisions required to optimize the investment being undertaken	<p>1) Shortage & frequent transfers of Provincially appointed staff MC is facing shortage in provincially appointed and locally appointed cadres. This will seriously affect the pace of progress of the program and the implementation of the infrastructure projects may be delayed. Provincial Government should fill up the vacant staff immediately for optimizing the investments in MC.</p> <p>2) Repair & Maintenance (R&M) staff The R&M staff is also deficient and this is adversely affecting the service delivery level. Number of slots are vacant but MC is not allowed to recruit the persons to fill these slots due to ban on recruitments. Further the sanctioned strength of the field staff is much lesser than the actual requirement because with the increase in population and extension of services, additionally required staff has not been sanctioned by the competent authorities. Both of the above issues need to be addressed for optimal utilization of the investments and giving targeted benefits to the resident population of these cities.</p>
15-Certificate	Certified that the project proposal has been prepared on the basis of guidelines provided by the Planning Commission for the preparation of PC-I for social sectors projects.

Prepared by	JERS Consultancy (Pvt) Ltd	Signatures	
Checked by	Municipal Officer (Infrastructure) DC T.T Singh Unit Gojra	Signatures	
	Chief Officer DC T.T Singh Unit Gojra	Signatures	
	Administrator District Unit T.T Singh Unit Gojra	Signatures	
Vetted by	Senior Program Officer PMDFC	Signatures	

Annexure-A
Location Map

Location Map (Punjab Cities Program)

ANNEXURE - A



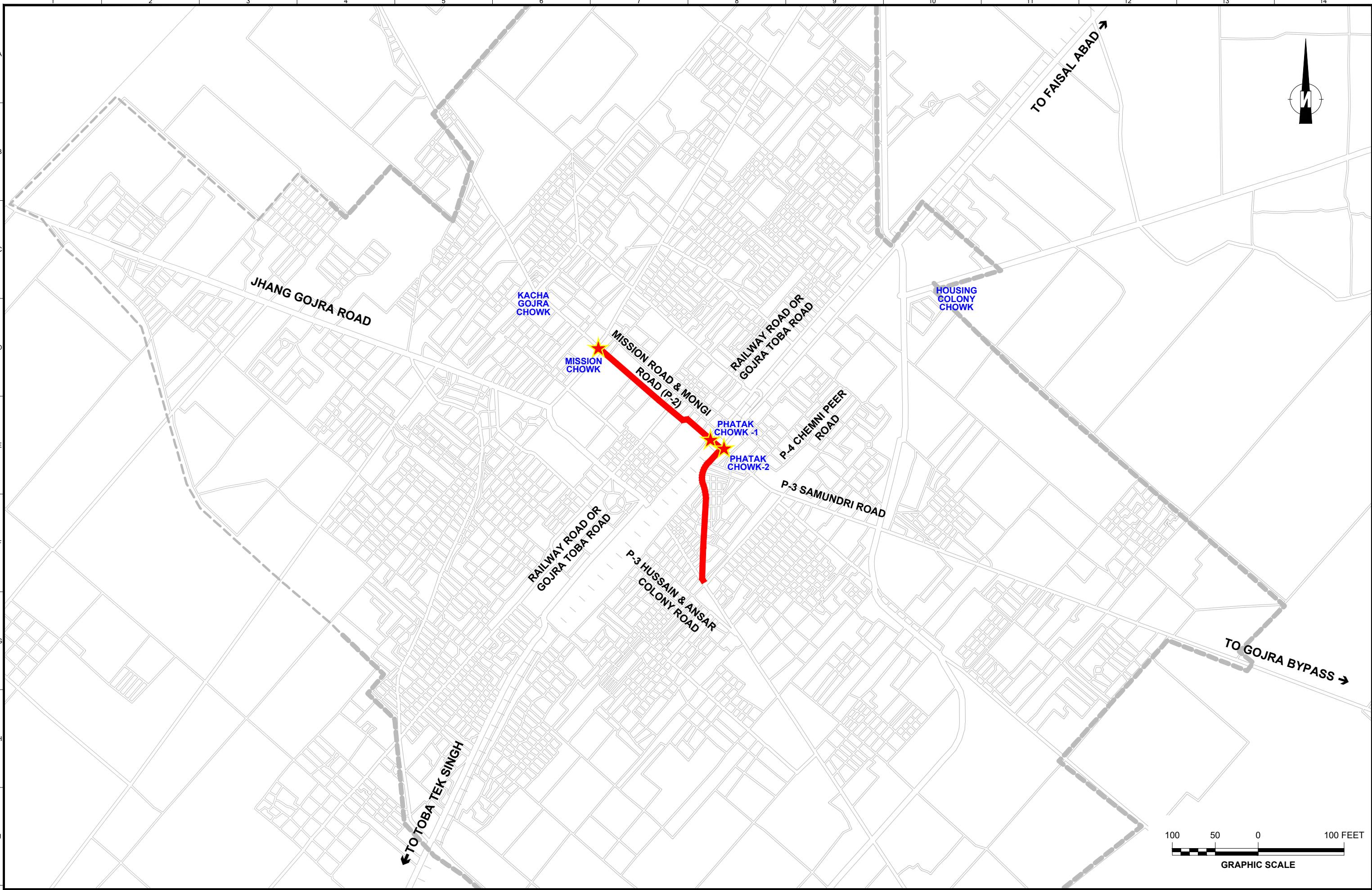
Legend

- PCP Cities
- North Region
- South Region
- The Capital
- Tehsil Boundary
- District Boundary
- Bahawalpur Division
- Chakwal Division
- Dera Ghazi Khan Division
- Faisalabad Division
- Gujranwala Division
- Lahore Division
- Multan Division
- Sahiwal Division
- Sargodha Division



0 45 90 180 Kilometers





CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

JERS CONSULTANCY (PVT) LTD
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
 Tel: +92 42 35113123, +92 42 35113124
 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

PROJECT:

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB.**

DRAWING TITLE:

**PROJECT KEY PLAN
 (GOJRA)**

REV.	DATE	DESCRIPTION

DRAWN BY: Hassan	DRAWING NO: TS-01
CHECKED BY: Umar Hayat	SCALE: 1"=1500'
DATE: DEC, 2022	SHEET: -
	JOB NO: 488-01

Annexure-B
Cost Estimate

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

ROAD WORKS

DC T.T SINGH UNIT GOJRA

DETAILED COST ESTIMATE

SUMMARY

Sr. No.	Description	Amount (Rs.)
1	ROAD WORKS	96,738,993
2	STORMWATER DRAINAGE SYSTEM	27,924,480
3	ELECTRICAL WORKS	17,487,059
4	ENVIRONMENT AND SOCIAL MITIGATION COST	494,060
	Total Amount (Rs.)	142,644,592
	Contingencies @ 2%	2,852,892
	PRA Charges @ 5%	7,132,230
	Total Amount. Rs.	152,629,713

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

INFRASTRUCTURE WORK

DC T.T SINGH UNIT GOJRA

DETAILED COST ESTIMATE

SUMMARY

Sr. No.	Description	Amount (Rs.)
1	ROAD WORKS	
1.2	P-2 MISSION & MONGI ROAD (1.57 Km)	96,738,993
	1) Total Amount. Rs.	96,738,993
2	STORMWATER DRAINAGE SYSTEM	
2.2	P-2 MISSION & MONGI ROAD	27,924,480
	2) Total Amount. Rs.	27,924,480
3	ELECTRICAL WORKS	
3.2	P-2 MISSION & MONGI ROAD	17,487,059
	3) Total Amount. Rs.	17,487,059
4	ENVIRONMENT AND SOCIAL MITIGATION COST	494,060
	Total Amount (Rs.) "1+2+3+4"	142,644,592
	Say Millions	142.64

ROAD WORKS

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

P-2 MISSION & MONGI ROAD

ROADS NETWORK

Sr. No	1st BI-Annual-2023 (Jan to Jun) T. Tek Singh	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		ROAD WORK				
		Dismantling				
1	4/29	Dismantling brick or flagged flooring without concrete foundation.	100Cft	84.00	942.50	79,170
2	N.S	Dismantling / Demolishing of existing kerb stone as directed by Engineer's Incharge, Complete in all respect	Rft	3,000.00	27.72	83,160
3	N.S	Dismantling / Demolishing of existing Tuff Paver as directed by Engineer's Incharge, Complete in all respect	Sft	11,200.00	10.40	116,480
		Scarifying				
4	18/11	Scarifying old road surface including removal of debris within 1 chain (30 m).	100Sft	1,681.25	462.00	776,738
		Excavation				
5	3/7	Earthwork excavation in open cutting upto 5'-0" (1.5 m) depth for storm water channels, drains, sullage drains in open areas, roads, streets, lanes, including under pinning of walls and shoring to protect existing works, shuttering and timbering the trenches, dressed to designed level and dimensions, trimming, removal of surface water from trenches, back filling and surplus excavated material disposed of and dressed within 50 ft. (15 m) lead:-				
		i) ordinary	1000Cft	52.07	9,852.50	513,020
		Compaction of Earthwork				
6	3/5	Compaction of earthwork with power road roller, including ploughing, mixing, moistening earth to optimum moisture content in layers, etc. complete. i) 95% to 100% maximum modified AASHO dry density.	1000Cft	46.60	9,963.35	464,292

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

P-2 MISSION & MONGI ROAD

ROADS NETWORK

Sr. No	1st BI-Annual-2023 (Jan to Jun) T. Tek Singh	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		Sub Base Course				
7	18/3/a/ (i) + 1/1	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	307.54	14,979.75	4,606,872
		Water Bound Macadam				
8	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	1,204.07	22,483.43	27,071,618
		Prime Coat				
9	18/6	Providing and laying bituminous priming coat, using 10 lbs. kerosene oil and 10 lbs. binder per 100 Sft. or 0.5 Kg kerosene and 0.5 Kg binder per square metre.	100Sft	1,688.75	1,968.15	3,323,713
10	18/7	Providing and laying bituminous tack coat, using 10 lbs. of bitumen per 100 Sft (0.49 Kg of bitumen per sq.m.)	100Sft	1,081.50	1,033.85	1,118,109

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

P-2 MISSION & MONGI ROAD

ROADS NETWORK

Sr. No	1st BI-Annual-2023 (Jan to Jun) T. Tek Singh	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		Carpeting				
		ABC				
11	18/10/a + 1/1	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (2 inch thick) (iii) 4% Bitumen	Per inch thickness per 100Sft.	1,081.50	13,829.32	14,956,410
		AWC				
12	18/10/a + 1/1	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (2 inch thick) (iv) 4.5% Bitumen	Per inch thickness per 100Sft.	607.25	14,747.92	8,955,674
13	18/10/a + 1/1	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (1.50 inch thick) (iv) 4.5% Bitumen	Per inch thickness per 100Sft.	1,081.50	11,060.94	11,962,407
		Paint For Traffic Lanes				
14	13/36	Painting Traffic Lane Marking of specified width (1.5mm thick), with Thermoplastic (TP) Paint including Glass Beads, complete in all respect, as approved and directed by Engineer incharge.				
		ii) 6" wide	Rft	17,125.00	59.20	1,013,800
		Kerb Stone				
15	6/52/b	Providing and fixing precast Edge Kerb Stone (4" to 6" thick), of 3500 PSI Compressive Strength, embeded in PCC 1:2:4 over lean concrete 1:4:8 etc. complete in all respect.				
		b) With Painting				
		(i) 14" high	P.Rft	500.00	535.05	267,525
		Paint for Existing Kerb Stone				
		Painting old surfaces:-				
16	13/4	f) Painting small detached articles, not exceeding one square foot (Sq.m) of painted surface:-				
		i) first coat	100Nos.	20.00	1,466.95	29,339
		ii) each subsequent coat	100Nos.	20.00	1,189.45	23,789

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

P-2 MISSION & MONGI ROAD

ROADS NETWORK

Sr. No	1st BI-Annual-2023 (Jan to Jun) T. Tek Singh	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		Tuff Paver				
17	10/41	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. complete in all respect. (50% Grey / 50% Coloured)				
		c) 80-mm thick	Sft	93,193.75	197.40	18,396,446
		Road Edging				
18	18/5	Providing and laying road edging of 3" (75 mm) wide and 9" (225 mm) deep brick on end, complete in all respects.	Rft	9,700.00	54.75	531,075
		P.C.C (Between Asphalt and Tuff Paver)				
19	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(f) Ratio 1: 2: 4	100Cft	16.01	38,723.50	619,963
		Cat Eyes				
20	18/28	Providing & fixing Cat Eyes of size 4"x4"x3/4" duly casted with specified material having plastic strip containing mini retro-reflective glass beads of color white /red/ yellow having specifid reflections, quality & shape i/c the cost of self built in 12mm dia x120mm long steel zinc plate dnail, fixing to road with epoxy/ hammering with separate nail				
		b) Aluminium Alloy				
		(1) Dual-Directional				
		(ii) 43x2=86 Glass beads a side	Each	712.00	747.70	532,362
		(B) Uni-Directional				
		(ii) 43 Glass beads a side	Each	800.00	585.70	468,560
21	18/25/a	Providing, fabrication and fixing pole mounted Direction Board/ road delineator of any shape and size, with specified Sheet and thickness, supported with G.I Channel, (excluding the cost of vertical post and painting) etc complete in all respect.				
		(a) G.I Sheet 14 SWG				
		CIRCULAR/TRIANGULAR				
		3 ft size	P. Sft	60.00	997.20	59,832

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

P-2 MISSION & MONGI ROAD

ROADS NETWORK

Sr. No	1st BI-Annual-2023 (Jan to Jun) T. Tek Singh	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
22	18/27/b	Providing, fabrication and fixing Vertical Post comprising of medium quality G.I Pipe of specified diameter, including the cost of clamping arrangements, top cover, hold fasts embedded in PCC 1:2:4 etc, complete in all respect				
		(b) 3 inch diameter	Rft	110.00	1,538.20	169,202
23	13/42/a	Lettering and printing of signage /direction boards/ road delineators of any colour by machine i/c cost of Digital Lettering, Lamination & pasting etc complete in all respect.				
		a) High Intensity Prismatic (HIP) Tape	P. Sft	60.00	1,203.95	72,237
22	3/32	Turfing slopes of banks or lawns with grass sods including ploughing, laying, setting and watering (Turf got from within a distance of 5 miles (8 Km.) and maintenance for 15 days).	100 Sft	150.00	1,848.00	277,200
23	N.S	Rehabilitation of existing monument (Existing Kerb Stone Replacement, Tiles Replacement and Paint Works)	Provisional Sum	1.00	250,000.00	250,000
		Total Amount Rs.				96,738,993
		DRAINAGE SYSTEM				
		Dismantling				
1	4/19/c	c) Dismantling cement concrete 1:2:4 plain.	100Cft	0.65	12,196.80	7,904
2	4/13	Dismantling brick work in lime or cement mortar.	100Cft	28.13	4,712.40	132,536

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

P-2 MISSION & MONGI ROAD

ROADS NETWORK

Sr. No	1st BI-Annual-2023 (Jan to Jun) T. Tek Singh	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		Excavation				
3	3/7/i	Earthwork excavation in open cutting upto 5'-0" (1.5 m) depth for storm water channels, drains, sullage drains in open areas, roads, streets, lanes, including under pinning of walls and shoring to protect existing works, shuttering and timbering the trenches, dressed to designed level and dimensions, trimming, removal of surface water from trenches, back filling and surplus excavated material disposed of and dressed within 50 ft. (15 m) lead:- i) in ordinary soil.	1000Cft	67.00	9,852.50	660,118
		P.C.C				
4	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (i) Ratio 1: 4: 8 (f) Ratio 1: 2: 4	100Cft 100Cft	53.13 156.00	29,723.50 38,723.50	1,579,210 6,040,866
		Brick Work				
5	7/7/i	Pacca brick work other than building upto 10ft. (3 m) Cement, sand mortar:- Ratio 1:3	100Cft	206.80	33,467.90	6,921,030
6	7/10	Extra for pacca brick work in steining of wells or any other circular masonry.	100Cft	1.30	2,881.20	3,734
		Plaster				
7	11/8/b	Cement plaster 1:3 upto 20' (6.00 m) height:- b) ½" (13 mm) thick	100Sft	227.46	3,639.10	827,736
		R.C.C Work				
8	6/6/a/i/3	Providing and laying reinforced cement concrete (i/c pre-stressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, i/c forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, complete				

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

P-2 MISSION & MONGI ROAD

ROADS NETWORK

Sr. No	1st BI-Annual-2023 (Jan to Jun) T. Tek Singh	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		a).(i) Reinforced cement concrete in roof slab, beams, columns, lintels, girders and other structural members laid in situ or pre-cast laid in position, or pre-stressed members cast in situ, complete in all respect. Type C (nominal mix 1:2:4)	P Cft	6,097.00	583.25	3,556,075
		Steel				
9	6/12/b	Fabrication of mild steel reinforcement for cement concrete, i/c cutting, bending, laying in position, making joints and fastening, i/c cost of bending wire and labour charges for bending of steel reinforcement (also includes removal of rust from deformed bars)				
		(b) Deformed bars (Grade-40)	100Kg	186.73	31,554.70	5,892,167
		Gully Grating Chamber				
10	21/8	Constructing standard gully grating chamber, 3'x2½' (900x750 mm), with chinaware trap as per PHED Drawing STD/PD No. 3 of 1977, complete in all respects.	Each	26.00	17,047.40	443,232
11	7/30	Supplying and filling sand under floor; or plugging in wells.	100Cft	13.00	2,982.00	38,766
		uPVC Pipe				
12	19/47	Providing, fixing, testing and commissioning of μ-PVC (Unplasticized polyvinyl Chloride) Nikasi /waste pipe make of dadex / Popular / Beta/ BBJ plain / socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.				
		Type (SDR 41/SN-4)				
		(vii) 8"(200 mm)	Rft	520.00	455.00	236,600

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

P-2 MISSION & MONGI ROAD

ROADS NETWORK

Sr. No	1st BI-Annual-2023 (Jan to Jun) T. Tek Singh	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		Kerb Stone				
13	6/52/b	Providing and fixing precast Edge Kerb Stone (4" to 6" thick), of 3500 PSI Compressive Strength, embedded in PCC 1:2:4 over lean concrete 1:4:8 etc. complete in all respect.				
		b) With Painting				
		(i) 14" high	P.Rft	2,500.00	535.05	1,337,625
		RPC Manhole Cover				
14	N.S	Providing and fixing RPC Manhole Cover Manufactured with 100% Reinforced Plastic Composite Material, 650 mm dia with clear opening size 600 mm (24" dia) and RPC manhole frame having dia meter 790 mm (Complete) (Certified under ISO 9001-2015)	Each	20.00	11,844.00	236,880
		Manhole Cover				
15	MR	Old/existing Manhole cover and Frame complete set shift to MC store.	Set	20.00	500.00	10,000
		Total Amount (Rs)				27,924,480
		ELECTRICAL WORKS				
		Scheduled Items (A)				
		Excavation				
1	3/21	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	%oCft	15.48	11,658.25	180,470

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DETAILED COST ESTIMATE

P-2 MISSION & MONGI ROAD

ROADS NETWORK

Sr. No	1st BI-Annual-2023 (Jan to Jun) T. Tek Singh	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		RCC Foundation for Poles				
2	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-				
		(3) Type C (nominal mix 1: 2: 4)	Cft	1,104.00	473.85	523,130
		Steel Work				
3	6/12/b	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-				
		(b) Deformed bars (Grade-40)	100Kg	27.60	31,554.70	870,910
4	24/6	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches:-				
		i) 50 mm i/d	Rft	5,750.00	177.75	1,022,063
5	24/12	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits /PVC pipe/G.I. wire/ trenches, etc (rate for cable only):-				
		ii) 6 mm sq (7/0.044")	Rft	920.00	119.20	109,664

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ROADS NETWORK

Sr. No	1st BI-Annual-2023 (Jan to Jun) T. Tek Singh	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
6	24/13	Supply and erection of copper conductor cables for service connection, in pre-laid pipe/G.I. wire / trenches, etc. (rate for cable only):-				
		b) PVC insulated, PVC sheathed 3 core, 600/1000 volt cable:-				
		iii) 7/0.74 mm (7/0.029")	Rft	1,840.00	114.25	210,220
		c) PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable:-				
		vi) 10 mm (7/0.052")	Rft	5,750.00	525.75	3,023,063
		vii) 16 mm (7/0.064")	Rft	100.00	694.80	69,480
7	24/68	Supplying, installation testing and commissioning of Octagonal shape electric street light pole, made of hot dipped 4.5 mm thick (7 SWG) galvanized steel ,tapered from 225 mm at bottom to 100 mm at top,with 1500 mmx60 mm dia. arm for luminaire installation, duly G.I.welded with 470x470x20 mm base plate with the help of 4 no triangular stiffeners 100x350x20 mm of GI sheet,with built in junction box with shutter,i/c the cost of nuts & J-rag bolts, duly fixed in pre-laid concrete foundation, foundation will be paid additionally as approved and directed by the Engineer Incharge.				
		a) Single Arm				
		(i) 10 mtr height	Each	29.00	116,325.30	3,373,434
		b) Double Arm				
		(i) 10 mtr height	Each	17.00	120,141.30	2,042,402

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DETAILED COST ESTIMATE

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ROADS NETWORK

Sr. No	1st BI-Annual-2023 (Jan to Jun) T. Tek Singh	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
8	24/69/c	Supplying, installation and commissioning of LED Cobra-head Luminaries of specified wattage and lumens conforming to IP 66 & IK 08 or above Philips/ Osram/ Thorn or equivalent with corrosion resistant die casted Aluminum housing, silicon gasket in special groove, UV stable & scratch resistant synthetic materials, thermally hardened glass complete with LED Chip (Philips Lumiled/Cree/Nichia/Osram make or equivalent), programmable LED driver (Harvard/ TCI/ Lumotech/ Philips/ VOSSLOH Schwabe/Lightech make or equivalent), minimum 10kV surge protection rating i/c the cost of all accessories/ components required for proper operation, fully flexible for future upgradation and easy replacements for maintenance purposes, bucket elevator charges as approved and directed by the Engineer Incharge.				
		c) 120 Lm/Watt				
		(v) 90 Watt with 10800 Lumens	Each	29.00	52,598.60	1,525,359
		(viii) 150 Watt with 18000 lumens	Each	34.00	62,198.60	2,114,752
9	24/77	Supply and erection of electric energy meter, including meter testing fee, etc.				
		b) three phase, 4 wires:				
		ii) 3x50 Amp, 400 volts	Each	1.00	15,843.30	15,843

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P-2 MISSION & MONGI ROAD

ROADS NETWORK

Sr. No	1st BI-Annual-2023 (Jan to Jun) T. Tek Singh	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
10	24/105/iii	Supply, insatllation, commissioning and testing of oil cooled type, Step down Power Transformer of specified rating,11/0.415 kV, i/c the cost of lifting hooks, thermometers, LT & HT bushing 5-steps, tap changer, imported double float buchholz relay, 2 earthing terminals, roller wheels, connecting terminals for cables M.S box on transformer in order to cover complete L.T side, all necessary materials required for connections on H.T & L.T side, rated voltage 11000/415/240 V impedance 6.25% or as specified by WAPDA/IEC system earth: Delta / Star, neutral solidly earthed, i/c Wapda testing charges,complete in all respects made of PEL, Siemens, as approved and directed by the Engineer Incharge				
		(iii) 25 KVA	Each	1.00	581,485.15	581,485
11	24/70	Earthing of iron clad/aluminum switches, etc. with G.I. wire No. 8 SWG in G.I. pipe 15 mm (½") dia, recessed or on surface of wall and floor, complete with 1.5 metre long G.I. pipe, 50 mm (2") dia with reducing socket 4 to 5 metre below ground level, and 2 metre away from building plinth.	Job	49.00	10,199.15	499,758
Sub Total Scheduled Items: (A)						16,162,033

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DETAILED COST ESTIMATE

P-2 MISSION & MONGI ROAD

ROADS NETWORK

Sr. No	1st BI-Annual-2023 (Jan to Jun) T. Tek Singh	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
Non Schedule		Part-B				
12	N.S	Fabrication, Supply, testing and commissioning of following Light control panels (LCP), floor standing weather proof, IP 65 Rated of appropriate size, made of MS Sheet 16 SWG with hinged door, handle, catcher, 2 coats of antirust and powder coated paint of approved colour, AC3 megnatic contactor, photocell for automatic operation of lights, CBs, Hand/Off/Auto switch, push button and all necessary accessories complete in all respects. LCP shall be manufactured as per specifications, single line diagram complete in all respect up to the satisfaction of Engineer incharge.				
	(a)	LCP-3 Phase	No.	1.00	325,026	325,026
13	N.S	Shifting of 4 Nos. Wapda Electric Poles	Job			600,000
14	N.S	Electric Connection Charges	Each	1.00	400,000	400,000
		Total Cost (Part B)			Rs.	1,325,026
		Grand Total (Part A + Part B)			Rs.	17,487,059
		Grand Total Amount Rs.				142,150,532

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P-2 MISSION & MONGI ROAD
CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	Dismantling						
1	Dismantling brick or flagged flooring without concrete foundation.						
		2	600	7.00		8,400	Sft
						Total.	84.00
							Sft
2	Dismantling / Demolishing of existing kerb stone as directed by Engineer's Incharge, Complete in all respect						
		2	1,500			3,000	Rft
						Total.	3,000
							Rft
3	Dismantling / Demolishing of existing Tuff Paver as directed by Engineer's Incharge, Complete in all respect						
		1	1,400	8.00		11,200	Sft
						Total.	11,200
							Sft
	Scarifying						
4	Scarifying old road surface including removal of debris within 1 chain (30 m).						
	RD 0+000 to 1+500	1	1,500	64.00		96,000	Sft
	RD 1+500 to 1+800	1	300	40.50		12,150	Sft
	RD 2+700 to 3+100	1	400	36.00		14,400	Sft
	RD 3+100 to 4+000	1	900	21.00		18,900	Sft
	RD 4+000 to 5+000	1	1,000	14.00		14,000	Sft
	RD 5+000 to 5+150	1	150	24.50		3,675	Sft
	Chowk	2	150	30.00		9,000	Sft
						Total	168,125
							Sft
						Total.	1,681.25
							%Sft

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P-2 MISSION & MONGI ROAD
CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	Excavation						
5	Earthwork excavation in open cutting upto 5'-0" (1.5 m) depth for storm water channels, drains, sullage drains in open areas, roads, streets, lanes, including under pinning of walls and shoring to protect existing works, shuttering and timbering the trenches, dressed to designed level and dimensions, trimming, removal of surface water from trenches, back filling and surplus excavated material disposed of and dressed within 50 ft. (15 m) lead:-						
	For Tuff Paver Shoulders						
	RD 0+000 to 1+500	1	1,500	15.00	0.50	11,250	Cft
	RD 1+500 to 1+800	1	300	19.00	0.50	2,850	Cft
	RD 1+800 to 2+400	1	500	11.00	1.25	6,875	Cft
	RD 2+400 to 2+500	1	100	9.00	1.25	1,125	Cft
	RD 2+600 to 2+700	1	100	9.00	1.25	1,125	Cft
	RD 2+700 to 3+100	1	400	16.75	0.50	3,350	Cft
	RD 3+100 to 4+000	1	900	23.50	0.50	10,575	Cft
	RD 4+000 to 5+000	1	1,000	24.50	0.50	12,250	Cft
	RD 5+000 to 5+150	1	150	35.63	0.50	2,672	Cft
						Total	52,072 Cft
						Total.	52.07 %Cft
	Compaction of Earthwork						
6	Compaction of earthwork with power road roller, including ploughing, mixing, moistening earth to optimum moisture content in layers, etc. complete. i) 95% to 100% maximum modified AASHO dry density.						
	For Tuff Paver Shoulders						
	RD 0+000 to 1+500	1	1,500	15.00	0.50	11,250	Cft
	RD 1+500 to 1+800	1	300	19.00	0.50	2,850	Cft
	RD 1+800 to 2+400	1	500	11.00	0.50	2,750	Cft
	RD 2+400 to 2+500	1	100	9.00	0.50	450	Cft
	RD 2+600 to 2+700	1	100	9.00	0.50	450	Cft
	RD 2+700 to 3+100	1	400	16.75	0.50	3,350	Cft
	RD 3+100 to 4+000	1	900	23.50	0.50	10,575	Cft
	RD 4+000 to 5+000	1	1,000	24.50	0.50	12,250	Cft
	RD 5+000 to 5+150	1	150	35.63	0.50	2,672	Cft
						Total	46,597 Cft
						Total.	46.60 %Cft

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P-2 MISSION & MONGI ROAD
CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
Sub Base Course							
7	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sargodha quarry to site, actual compacted depth shall be considered for payment)						
For Tuff Paver Shoulders							
	RD 0+000 to 1+500	1	1,500	15.00	0.33	7,425	Cft
	RD 1+500 to 1+800	1	300	19.00	0.33	1,881	Cft
	RD 1+800 to 2+400	1	500	11.00	0.33	1,815	Cft
	RD 2+400 to 2+500	1	100	9.00	0.33	297	Cft
	RD 2+600 to 2+700	1	100	9.00	0.33	297	Cft
	RD 2+700 to 3+100	1	400	16.75	0.33	2,211	Cft
	RD 3+100 to 4+000	1	900	23.50	0.33	6,980	Cft
	RD 4+000 to 5+000	1	1,000	24.50	0.33	8,085	Cft
	RD 5+000 to 5+150	1	150	35.63	0.33	1,763	Cft
					Total	30,754	Cft
					Total.	307.54	%Cft
Water Bound Macadam							
8	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sargodha quarry to site, actual compacted depth shall be considered for payment)						
Crushed stone aggregate from approved quarry							
For Road							
	RD 0+000 to 1+500	1	1,500	64.00	0.50	48,000	Cft
	RD 1+500 to 1+800	1	300	40.50	0.50	6,075	Cft

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P-2 MISSION & MONGI ROAD
CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	RD 2+700 to 3+100	1	400	36.00	0.50	7,200	Cft
	RD 3+100 to 4+000	1	900	21.00	0.50	9,450	Cft
	RD 4+000 to 5+000	1	1,000	14.00	0.50	7,000	Cft
	RD 5+000 to 5+150	1	150	24.50	0.50	1,838	Cft
	Leveling Layer	1	400	40.00	0.33	5,280	Cft
	Chowk	2	150	30.00	0.50	4,500	Cft
	For Tuff Paver						
	RD 0+000 to 1+500	1	1,500	15.00	0.33	7,500	Cft
	RD 1+500 to 1+800	1	300	19.00	0.33	1,900	Cft
	RD 1+800 to 2+400	1	500	11.00	0.33	1,833	Cft
	RD 2+400 to 2+500	1	100	9.00	0.33	300	Cft
	RD 2+600 to 2+700	1	100	9.00	0.33	300	Cft
	RD 2+700 to 3+100	1	400	16.75	0.33	2,233	Cft
	RD 3+100 to 4+000	1	900	23.50	0.33	7,050	Cft
	RD 4+000 to 5+000	1	1,000	24.50	0.33	8,167	Cft
	RD 5+000 to 5+150	1	150	35.63	0.33	1,781	Cft
					Total	120,407	Cft
					Total.	1,204.07	%Cft
	Prime Coat						
9	Providing and laying bituminous priming coat, using 10 lbs. kerosene oil and 10 lbs. binder per 100 Sft. or 0.5 Kg kerosene and 0.5 Kg binder per square metre.						
	RD 0+000 to 1+500	1	1,500	64.00		96,000	Sft
	RD 1+500 to 1+800	1	300	40.50		12,150	Sft
	RD 2+700 to 3+100	1	400	36.00		14,400	Sft
	RD 3+100 to 4+000	1	900	21.00		18,900	Sft
	RD 4+000 to 5+000	1	1,000	14.00		14,000	Sft
	RD 5+000 to 5+150	1	150	24.50		3,675	Sft
	Chowk	2	150	30.00		9,000	Sft
	Approach Roads	2	25	15.00		750	Sft
					Total	168,875	Sft
					Total.	1,688.75	%Sft
10	Providing and laying bituminous tack coat, using 10 lbs. of bitumen per 100 Sft (0.49 Kg of bitumen per sq.m.)						
	RD 0+000 to 1+500	1	1,500	64.00		96,000	Sft
	RD 1+500 to 1+800	1	300	40.50		12,150	Sft

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**P-2 MISSION & MONGI ROAD
CALCULATION OF QUANTITIES**

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
					Total	108,150	Sft
					Total.	1,081.50	%Sft
	Carpeting						
	ABC						
11	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (2 inch thick) (iii) 4% Bitumen						
	RD 0+000 to 1+500	1	1,500	64.00		96,000	Sft
	RD 1+500 to 1+800	1	300	40.50		12,150	Sft
					Total	108,150	Sft
					Total.	1,081.50	%Sft
	AWC						
12	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (2 inch thick) (iv) 4.5% Bitumen						
	RD 2+700 to 3+100	1	400	36.00		14,400	Sft
	RD 3+100 to 4+000	1	900	21.00		18,900	Sft
	RD 4+000 to 5+000	1	1,000	14.00		14,000	Sft
	RD 5+000 to 5+150	1	150	24.50		3,675	Sft
	Chowk	2	150	30.00		9,000	Sft
	Approach Roads	2	25	15.00		750	Sft
					Total	60,725	Sft
					Total.	607.25	%Sft

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P-2 MISSION & MONGI ROAD
CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
13	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (1.50 inch thick) (iv) 4.5% Bitumen						
	RD 0+000 to 1+500	1	1,500	64.00		96,000	Sft
	RD 1+500 to 1+800	1	300	40.50		12,150	Sft
					Total	108,150	Sft
					Total.	1,081.50	%Sft
	Paint For Traffic Lanes						
14	Painting Traffic Lane Marking of specified width (1.5mm thick), with Thermoplastic (TP) Paint including Glass Beads, complete in all respect, as approved and directed by Engineer incharge.						
	RD 0+000 to 1+500	5	1,500			7,500	Rft
	RD 1+500 to 1+800	2.5	300			750	Rft
	RD 1+800 to 2+400	5	500			2,500	Rft
	RD 2+400 to 2+500	2.5	100			250	Rft
	RD 2+700 to 3+100	2.5	400			1,000	Rft
	RD 3+100 to 4+000	2.5	900			2,250	Rft
	RD 4+000 to 5+000	2.5	1,000			2,500	Rft
	RD 5+000 to 5+150	2.5	150			375	Rft
					Total.	17,125	Rft
15	Providing and fixing precast Edge Kerb Stone (4" to 6" thick), of 3500 PSI Compressive Strength, embedded in PCC 1:2:4 over lean concrete 1:4:8 etc. complete in all respect.						
	b) With Painting						
	(i) 14" high						
	RD 2+400 to 2+500	1	500			500	Rft
					Total.	500	Rft
	Paint for Existing Kerb Stone						
16	Painting old surfaces:-						
	f) Painting small detached articles, not exceeding one square foot (Sq.m) of painted surface:-						
	i) first coat						
	ii) each subsequent coat						

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**P-2 MISSION & MONGI ROAD
CALCULATION OF QUANTITIES**

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.	
	RD 0+000 to 1+500	1	1,500			1,500	Nos	
	RD 1+800 to 2+400	1	500			500	Nos	
						Total	20.00	%Nos.
	Tuff Paver							
17	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. complete in all respect. (50% Grey / 50% Coloured)							
	c) 80-mm thick							
	RD 0+000 to 1+500	1	1,500	15.00		22,500	Sft	
	RD 1+500 to 1+800	1	300	19.00		5,700	Sft	
	RD 1+800 to 2+400	1	500	11.00		5,500	Sft	
	RD 2+400 to 2+500	1	100	9.00		900	Sft	
	RD 2+600 to 2+700	1	100	9.00		900	Sft	
	RD 2+700 to 3+100	1	400	16.75		6,700	Sft	
	RD 3+100 to 4+000	1	900	23.50		21,150	Sft	
	RD 4+000 to 5+000	1	1,000	24.50		24,500	Sft	
	RD 5+000 to 5+150	1	150	35.63		5,344	Sft	
						Total.	93,194	Sft
	Road Edging							
18	Providing and laying road edging of 3" (75 mm) wide and 9" (225 mm) deep brick on end, complete in all respects.							
	RD 0+000 to 1+500	2	1,500			3,000	Rft	
	RD 1+500 to 1+800	2	300			600	Rft	
	RD 1+800 to 2+400	2	500			1,000	Rft	
	RD 2+400 to 2+500	2	100			200	Rft	
	RD 2+700 to 3+100	2	400			800	Rft	
	RD 3+100 to 4+000	2	900			1,800	Rft	
	RD 4+000 to 5+000	2	1,000			2,000	Rft	
	RD 5+000 to 5+150	2	150			300	Rft	
						Total.	9,700	Rft

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**P-2 MISSION & MONGI ROAD
CALCULATION OF QUANTITIES**

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	P.C.C (Between Asphalt and Tuff Paver)						
19	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone (f) Ratio 1: 2: 4						
	RD 0+000 to 1+500	2	1,500	0.33	0.50	495	Cft
	RD 1+500 to 1+800	2	300	0.33	0.50	99	Cft
	RD 1+800 to 2+400	2	500	0.33	0.50	165	Cft
	RD 2+400 to 2+500	2	100	0.33	0.50	33	Cft
	RD 2+700 to 3+100	2	400	0.33	0.50	132	Cft
	RD 3+100 to 4+000	2	900	0.33	0.50	297	Cft
	RD 4+000 to 5+000	2	1,000	0.33	0.50	330	Cft
	RD 5+000 to 5+150	2	150	0.33	0.50	50	Cft
					Total	1,601	Cft
					Total.	16.01	%Cft
	Cat Eyes						
20	Providing & fixing Cat Eyes of size 4"x4"x3/4" duly casted with specified material having plastic strip containing mini retro-reflective glass beads of color white /red/ yellow having specifid reflections, quality & shape i/c the cost of self built in 12mm dia x120mm long steel zinc plate dnail, fixing to road with epoxy/ hammering with separate nail complete.						
	b) Aluminium Alloy						
	(1) Dual-Directional						
	(ii) 43x2=86 Glass beads a side	712				712	Each
	(B) Uni-Directional						
	(ii) 43 Glass beads a side	800				800	Each
21	Providing, fabrication and fixing pole mounted Direction Board/ road delineator of any shape and size, with specified Sheet and thickness, supported with G.I Channel, (excluding the cost of vertical post and painting) etc complete in all respect.						
	(a) G.I Sheet 14 SWG						
	CIRCULAR/TRIANGULAR						
	3 ft size	10	3.00	2.00		60	Sft

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB

P-2 MISSION & MONGI ROAD
CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
22	Providing, fabrication and fixing Vertical Post comprising of medium quality G.I Pipe of specified diameter, including the cost of clamping arrangements, top cover, hold fasts embedded in PCC 1:2:4 etc, complete in all respect						
	(b) 3 inch diameter	10	11			110	Rft
23	Lettering and printing of signage /direction boards/ road delineators of any colour by machine i/c cost of Digital Lettering, Lamination & pasting etc complete in all respect.						
	a) High Intensity Prismatic (HIP) Tape					60	Sft
22	Turfing slopes of banks or lawns with grass sods including ploughing, laying, setting and watering (Turf got from within a distance of 5 miles (8 Km.) and maintenance for 15 days).						
	RD 0+000 to 1+500	1	1,500	10.00		15,000	Sft
					Total	150.00	%Sft
DRAINAGE SYSTEM							
Dismantling							
1	c) Dismantling cement concrete 1:2:4 plain.						
	Manhole Neck	20	8.64	0.75	0.50	64.80	Cft
					Total	0.65	%Cft
2	Dismantling brick work in lime or cement mortar.						
		2	1,250	0.75	1.50	2,812.50	Cft
					Total	28.13	%Cft

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**P-2 MISSION & MONGI ROAD
CALCULATION OF QUANTITIES**

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
Excavation							
3	Earthwork excavation in open cutting upto 5'-0" (1.5 m) depth for storm water channels, drains, sullage drains in open areas, roads, streets, lanes, including under pinning of walls and shoring to protect existing works, shuttering and timbering the trenches, dressed to designed level and dimensions, trimming, removal of surface water from trenches, back filling and surplus excavated material disposed of and dressed within 50 ft. (15 m) lead:- i) in ordinary soil.						
	Pipe Laying	26	20.00	2.50	2.50	3,250	Cft
	1'-6" wide drain	1	5,000	4.25	3.00	63,750	Cft
					Total	67,000	Cft
					Total	67.00	%Cft
P.C.C							
4	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone)						
	(i) Ratio 1: 4: 8						
	1'-6" wide drain	1	5,000	4.25	0.25	5,313	Cft
					Total	5,313	Cft
					Total	53.13	%Cft
	(f) Ratio 1: 2: 4						
	1'-6" wide drain	1	5,000	4.25	0.50	10,625	Cft
	Benching	1	5,000	1.50	0.25	1,875	Cft
	Topping	2	5,000	0.75	0.17	1,250	Cft
	Pipe Laying	26	10	1.50	1.50	585	Cft
	For manhole neck	20	8.64	0.75	0.50	65	Cft
	Drain	1	2,400	2.00	0.25	1,200	Cft
					Total	15,600	Cft
					Total	156.00	%Cft

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SUPERVISION IN 16 CITIES OF PUNJAB

P-2 MISSION & MONGI ROAD
CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.	
5	Pacca brick work other than building upto 10ft. (3 m) Cement, sand mortar:- Ratio 1:3							
	1'-6" wide drain	2	5,000	1.125	1.00	11,250	Cft	
		2	5,000	0.75	1.00	7,500	Cft	
	For manhole neck	20	8.64	0.75	1.00	130	Cft	
	Drain	2	2,400	0.75	0.50	1,800	Cft	
					Total	20,680	Cft	
					Total	206.80	%Cft	
6	Extra for pacca brick work in steining of wells or any other circular masonry.					Total	1.30	%Cft
7	Cement plaster 1:3 upto 20' (6.00 m) height:-							
	b) ½" (13 mm) thick							
	1'-6" wide drain	2	5,000		2.00	20,000	Sft	
	For manhole neck (26 x 2 = 52)	40	8.64		1.00	346	Sft	
	Drain	2	2,400		0.50	2,400	Sft	
					Total	22,746	Sft	
					Total	227.46	%Sft	
	R.C.C Work							
8	Providing and laying reinforced cement concrete (i/c pre-stressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, i/c forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, complete							
	a).(i) Reinforced cement concrete in roof slab, beams, columns, lintels, girders and other structural members laid in situ or pre-cast laid in position, or pre-stressed members cast in situ, complete in all respect. Type C (nominal mix 1:2:4)							
	1'-6" wide drain	0.4	5,000	3.50	0.67	4,690.00	Cft	
	Drain	0.25	2,400	3.50	0.67	1,407.00	Cft	
					Total	6,097.00	Cft	

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SUPERVISION IN 16 CITIES OF PUNJAB

P-2 MISSION & MONGI ROAD
CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
Steel							
9	Fabrication of mild steel reinforcement for cement concrete, i/c cutting, bending, laying in position, making joints and fastening, i/c cost of bending wire and labour charges for bending of steel reinforcement (also includes removal of rust from deformed bars)						
	Concrete Qty		6,097	Cft @	6.75	41,155	lbs/cft
						18,673	kg
					Total	186.73	Kg
Gully Grating Chamber							
10	Constructing standard gully grating chamber, 3'x2½' (900x750 mm), with chinaware trap as per PHED Drawing STD/PD No. 3 of 1977, complete in all respects.	26				26.00	Each
11	Supplying and filling sand under floor; or plugging in wells.	26	20.00	2.50	1.00	13.00	%Cft
uPVC Pipe							
12	Providing, fixing, testing and commissioning of u-PVC (Unplasticized polyvinyl Chloride) Nikasi /waste pipe make of dadex / Popular / Beta/ BBJ plain / socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge						
	Type (SDR 41/SN-4)						
	(vii) 8"(200 mm)	26	20.00			520	Rft
Kerb Stone							
13	Providing and fixing precast Edge Kerb Stone (4" to 6" thick), of 3500 PSI Compressive Strength, embedded in PCC 1:2:4 over lean concrete 1:4:8 etc. complete in all respect.						
	b) With Painting	0.5	5,000			2,500	Rft

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P-2 MISSION & MONGI ROAD
CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
RPC Manhole Cover							
14	Providing and fixing RPC Manhole Cover Manufactured with 100% Reinforced Plastic Composite Material, 650 mm dia with clear opening size 600 mm (24" dia) and RPC manhole frame having dia meter 790 mm (Complete) (Certified under ISO 9001-2015)	20				20	Each
ELECTRICAL WORKS							
Scheduled Items (A)							
Excavation							
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	a) By Manual						
	ii) in ordinary soil.						
	For pipe 50mm dia from TR to LCP and LCP to	1	5,750	1.00	2.50	14,375	Cft
	Light Poles	46	2.00	2.00	6.00	1,104	Cft
					Total	15,479	Cft
					Total	15.48	%oCft
RCC Foundation for Poles							
2	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
	(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-						
	(3) Type C (nominal mix 1: 2: 4)						
	Light Poles	46	2.00	2.00	6.00	1,104	Cft
					Total	1,104.00	Cft

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**P-2 MISSION & MONGI ROAD
CALCULATION OF QUANTITIES**

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	Steel Work						
3	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-						
	('c) Deformed bars (Grade-40)		2.50Kg/Cft			2,760	Kg
						Total	27.60
							Kg
4	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches:-						
	i) 50 mm i/d						
	From LCP to Pole and pole to pole (Up + Down)	46	125.00			5,750	Rft
5	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in pre-laid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):-						
	ii) 6 mm sq (7/0.044")						
	For two nos. Earthing lead	46	20.00			920	Rft
6	Supply and erection of copper conductor cables for service connection, in pre-laid pipe/G.I. wire / trenches, etc. (rate for cable only):-						
	b) PVC insulated, PVC sheathed 3 core, 660/1100 volt cable:-						
	iii) 7/0.74 mm (7/0.029")						
	From Terminal Box to light fixture on pole (P+N+E)	46	40.00			1,840	Rft
	c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-						
	vi) 10 mm (7/0.052")	46	125.00			5,750	Rft
	vii) 16 mm (7/0.064")	1	100.00			100	Rft

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P-2 MISSION & MONGI ROAD
CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
7	Supplying, installation testing and commissioning of Octagonal shape electric street light pole, made of hot dipped 4.5 mm thick (7 SWG) galvanized steel ,tapered from 225 mm at bottom to 100 mm at top,with 1500 mmx60 mm dia. arm for luminaire installation, duly G.I.welded with 470x470x20 mm base plate with the help of 4 no triangular stiffeners 100x350x20 mm of GI sheet,with built in junction box with shutter,i/c the cost of nuts & J-rag bolts, duly fixed in prelaid concrete foundation, foundation will be paid additionally as approved and directed by the Engineer Incharge.						
	a) Single Arm						
	(i) 10 mtr height	29				29	Nos
	b) Double Arm						
	(i) 10 mtr height	17				17	Nos
8	Supplying, installation and commissioning of LED Cobra-head Luminaries of specified wattage and lumens conforming to IP 65, Philips/ Osram /Thorn with corrosion resistant die casted aluminum housing, silicon gas kit, thermally hardened glass complete with LED drivers, surge protection i/c the cost of all accessories components required for proper operation , fully flexible for future upgradation and easy replacements for maintenance purposes, bucket elevator charges as approved and directed by the Engineer Incharge.						
	c) 120 Lm/Watt						
	(v) 90 Watt with 10800 Lumens	29				29	Nos
	(v) 90 Watt with 10800 Lumens	34				34	Nos
9	Supply and erection of electric energy meter, including meter testing fee, etc.						
	b) three phase, 4 wires:						
	ii) 3x50 Amp, 400 volts	1				1.00	Nos

PUNJAB CITIES PROGRAM (PCP)
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P-2 MISSION & MONGI ROAD
CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
10	Supply, insatllation, commissioning and testing of oil cooled type, Step down Power Transformer of specified rating,11/0.415 kV, i/c the cost of lifting hooks, thermometers, LT & HT bushing 5-steps, tap changer, imported double float buchholz relay, 2 earthing terminals, roller wheels, connecting terminals for cables M.S box on transformer in order to cover complete L.T side, all necessary materials required for connections on H.T & L.T side, rated voltage 11000/415/240 V impedance 6.25% or as specified by WAPDA/IEC system earth: Delta / Star, neutral solidly earthed, i/c Wapda testing charges,complete in all respects made of PEL, Siemens, as approved and directed by the Engineer Incharge						
	(iii) 25 KVA	1				1.00	Nos.
11	Earthing of iron clad/aluminum switches, etc. with G.I. wire No. 8 SWG in G.I. pipe 15 mm (½") dia, recessed or on surface of wall and floor, complete with 1.5 metre long G.I. pipe, 50 mm (2") dia with reducing socket 4 to 5 metre below ground level, and 2 metre away from building plinth.						
		49				49.00	No.
12	Fabrication, Supply, testing and commissioning of following Light control panels (LCP), floor standing weather proof, IP 65 Rated of appropriate size, made of MS Sheet 16 SWG with hinged door, handle, catcher, 2 coats of antirust and powder coated paint of approved colour, AC3 megnatic contactor, photocell for automatic operation of lights, CBs, Hand/Off/Auto switch, push button and all necessary accessories complete in all respects. LCP shall be manufactured as per specifications, single line diagram complete in all respect up to the satisfaction of Engineer incharge.						
	LCP-3 Phase	1				1.00	Nos.
13	Shifting of 4 Nos. Wapda Electric Poles						
14	Electric Connection Charges	1				1.00	Each

ENVIRONMENTAL HEALTH SAFETY BUDGET

PUNJAB CITIES PROGRAM (PCP)
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DETAILED COST ESTIMATE

ENVIRONMENT AND SOCIAL MITIGATION COST

Sr No	Description	Unit	Quantity	Unit Rate (Rs.)	Amount Rs.
	Labor Safety				
1	Face Masks (3 PLY)	Nos	20.00	700.00	14,000
2	Safety Gum Shoes	Nos	8.00	1,350.00	10,800
3	Hand Gloves	Nos	8.00	245.00	1,960
4	First Aid Box (Including essential Medicine)	Nos	1.00	5,000.00	5,000
5	Safety Hard Helmets MSA	Nos	9.00	2,000.00	18,000
6	Safety Goggles	Nos	8.00	550.00	4,400
7	Reflective Safety Vests	Nos	8.00	550.00	4,400
8	Ear Plugs	Nos	8.00	500.00	4,000
				Sub Total	62,560
	Working Site Safety				
1	Reflective Safety Signs Boards	Nos	3.00	10,000.00	30,000
2	Reflective Safety PVC Cones (18 inch)	Nos	20.00	1,200.00	24,000
3	Road Guiding Portable Delineators with Chain	Nos	6.00	1,500.00	9,000
4	Reflective Safety Barricading Tape	Nos	51.00	1,500.00	76,500
5	Emergency Portable Light	Nos	3.00	5,000.00	15,000
6	Solid Waste Collection Drums	Nos	6.00	5,000.00	30,000
7	Fire Extinguishers DCP	Nos	1.00	7,000.00	7,000
				Sub Total	191,500
	Others				
1	Pole Hanging Waste Bins	Nos.	4.00	10,000	40,000
2	Water Sprinkling (Dust Abatement)	L.S	1.00	100,000	100,000
	BCC Campaign and waste collection system	L.S	1.00	100,000	100,000
				Sub Total	240,000
	Total Amount (Rs)				494,060

RATE ANALYSIS

PUNJAB CITIES PROGRAM (PCP)
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Rate Analysis Road- 2

Description							
Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sargodha quarry to site, actual compacted depth shall be considered for payment)							
Crush Stone							125 KM
Sr. No.	1st BI-Annual-2023 (Jan to Jun) T. Tek Singh	Description	Unit	Lead (Km)	Qty	Rate (Rs)	Amount (Rs)
1		Material					
	18-3 a(i)	i) Pit run or bed run gravel.	100 Cft	1	1	6,503.25	6,503.25
2		Carriage					
	1/1	1st KM	100 Cft	1	1.20	305.40	366.48
		2nd KM	100 Cft	1	1.20	145.65	174.78
		3rd KM	100 Cft	1	1.20	114.10	136.92
		4th KM	100 Cft	1	1.20	81.20	97.44
		5th KM	100 Cft	1	1.20	75.85	91.02
		6th KM	100 Cft	1	1.20	74.60	89.52
		7th KM	100 Cft	1	1.20	69.60	83.52
		8th KM	100 Cft	1	1.20	68.85	82.62
		9th KM	100 Cft	1	1.20	64.75	77.70
		10th KM	100 Cft	1	1.20	60.75	72.90
		From 11 km to 200 km	100 Cft	115	1.20	52.20	7,203.60
		Total.					14,979.75
		Total Amount per 100 Cft					14,979.75
		Total Cost for Per Cft					149.80

PUNJAB CITIES PROGRAM (PCP)
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Rate Analysis Road - 3

Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sargodha quarry to site, actual compacted depth shall be considered for payment)

							125 KM
Sr. No.	1st BI-Annual-2023 (Jan to Jun) T. Tek Singh	Description	Unit	Lead (Km)	Qty	Rate (Rs)	Amount (Rs.)
1	18/4(a)	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Sargodha quarry to site, actual compacted depth shall be considered for payment)	100 Cft		1	13,865.65	13,865.65
2	1/1	Carriage of 100 cft of all materials like stone aggregate spawl kanker lime surkhi etc or 150 cft of timber by truck or by any other means owned by the contractor.					
		1st KM	100 Cft	1	1.22	305.40	372.59
		2nd KM	100 Cft	1	1.22	145.65	177.69
		3rd KM	100 Cft	1	1.22	114.10	139.20
		4th KM	100 Cft	1	1.22	81.20	99.06
		5th KM	100 Cft	1	1.22	75.85	92.54
		6th KM	100 Cft	1	1.22	74.60	91.01
		7th KM	100 Cft	1	1.22	69.60	84.91
		8th KM	100 Cft	1	1.22	68.85	84.00
		9th KM	100 Cft	1	1.22	64.75	79.00
		10th KM	100 Cft	1	1.22	60.75	74.12
		From 11 km to 200 km	100 Cft	115	1.22	52.20	7,323.66
		Total.					22,483.43
		Total Amount per 100 Cft					22,483.43
		Total Cost for Per Cft					224.83

**PUNJAB CITIES PROGRAM (PCP)
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Rate Analysis Road - 4

ABC

Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (2 inch thick)
(iii) 4% Bitumen

							125 Km
Sr. No.	1st BI-Annual-2023 (Jan to Jun) T. Tek Singh	Description	Unit	Lead (Km)	Qty	Rate (Rs)	Amount (Rs.)
1	18/10/a	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (2 inch thick) (iii) 4% Bitumen	per inch thickness per 100Sft.		1.00	12,951.30	12,951.30
2	1/1	Carriage of 100 cft of all materials like stone aggregate spawl kanker lime surkhi etc or 150 cft of timber by truck or by any other means owned by the contractor.					
		1st KM	100 Cft	1	0.1243	305.40	37.96
		2nd KM	100 Cft	1	0.1243	145.65	18.10
		3rd KM	100 Cft	1	0.1243	114.10	14.18
		4th KM	100 Cft	1	0.1243	81.20	10.09
		5th KM	100 Cft	1	0.1243	75.85	9.43
		6th KM	100 Cft	1	0.1243	74.60	9.27
		7th KM	100 Cft	1	0.1243	69.60	8.65
		8th KM	100 Cft	1	0.1243	68.85	8.56
		9th KM	100 Cft	1	0.1243	64.75	8.05
		10th KM	100 Cft	1	0.1243	60.75	7.55
		From 11 km to 200 km	100 Cft	115	0.1243	52.20	746.17
		Total.					13,829.32
		Total Amount per 100 Sft					13,829.32
		Total Cost for Per Sft					138.29

**PUNJAB CITIES PROGRAM (PCP)
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Rate Analysis Road - 5

AWC

Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (2 inch thick)

(iv) 4.5% Bitumen

							125 Km
Sr. No.	1st BI-Annual-2023 (Jan to Jun) T. Tek Singh	Description	Unit	Lead (Km)	Qty	Rate (Rs)	Amount (Rs.)
1	18/10/a	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (2 inch thick) (iv) 4.5% Bitumen	Per inch thickness per 100Sft.		1.00	13,869.90	13,869.90
2	1/1	Carriage of 100 cft of all materials like stone aggregate spawl kanker lime surkhi etc or 150 cft of timber by truck or by any other means owned by the contractor.					
		1st KM	100 Cft	1	0.1243	305.40	37.96
		2nd KM	100 Cft	1	0.1243	145.65	18.10
		3rd KM	100 Cft	1	0.1243	114.10	14.18
		4th KM	100 Cft	1	0.1243	81.20	10.09
		5th KM	100 Cft	1	0.1243	75.85	9.43
		6th KM	100 Cft	1	0.1243	74.60	9.27
		7th KM	100 Cft	1	0.1243	69.60	8.65
		8th KM	100 Cft	1	0.1243	68.85	8.56
		9th KM	100 Cft	1	0.1243	64.75	8.05
		10th KM	100 Cft	1	0.1243	60.75	7.55
		From 11 km to 200 km	100 Cft	115	0.1243	52.20	746.17
		Total.					14,747.92
		Total Amount per 100 Sft					14,747.92
		Total Cost for Per Sft					147.48

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

Rate Analysis Road - 5A

AWC

Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (1.50 inch thick)

(iv) 4.5% Bitumen

							125 Km
Sr. No.	1st BI-Annual-2023 (Jan to Jun) T. Tek Singh	Description	Unit	Lead (Km)	Qty	Rate (Rs)	Amount (Rs.)
1	18/10/a	Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. (1.50 inch thick) (iv) 4.5% Bitumen	Per inch thickness per 100Sft.		1.00	10,402.43	10,402.43
2	1/1	Carriage of 100 cft of all materials like stone aggregate spawl kanker lime surkhi etc or 150 cft of timber by truck or by any other means owned by the contractor.					
		1st KM	100 Cft	1	0.0932	305.40	28.47
		2nd KM	100 Cft	1	0.0932	145.65	13.58
		3rd KM	100 Cft	1	0.0932	114.10	10.64
		4th KM	100 Cft	1	0.0932	81.20	7.57
		5th KM	100 Cft	1	0.0932	75.85	7.07
		6th KM	100 Cft	1	0.0932	74.60	6.95
		7th KM	100 Cft	1	0.0932	69.60	6.49
		8th KM	100 Cft	1	0.0932	68.85	6.42
		9th KM	100 Cft	1	0.0932	64.75	6.04
		10th KM	100 Cft	1	0.0932	60.75	5.66
		From 11 km to 200 km	100 Cft	115	0.0932	52.20	559.63
			Total.				
		Total Amount per 100 Sft					11,060.94
		Total Cost for Per Sft					110.61

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

Rate Analysis Road - 6

Description									
Dismantling / Demolishing of existing Tuff Paver as directed by Engineer's Incharge, Complete in all respect									
Dismantling of Tuff Paver								Unit.	100 Sft
Sr. No.	Ref Input Rate	Detail			Unit Rate (British System) per 100 Sft				
				Qty	Rate Per Unit		Amount (Rs.)		
<u>LABOUR</u>									
2	LB-015	Cooly un-skilled			0.75	Nos.	1,050.00	per day	787.50
								Total.	787.50
		Sundries		10	%			78.75	
								Total Rs.	866.25
		Contractor's Profit		20	%			173.25	
		Total						1,039.50	
<u>ITEM RATES</u>									
		Composite rate per 100 Sft						Rs.	1,039.50
		Composite rate per Sft						Rs.	10.40

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

Rate Analysis Road - 7

Description									
Dismantling / Demolishing of existing kerb stone as directed by Engineer's Incharge, Complete in all respect									
Dismantling Kerb stone								Unit.	100 Rft
Sr. No.	Ref Input Rate	Detail			Unit Rate (British System) per 100 Rft				
					Qty	Rate Per Unit	Amount (Rs.)		
		<u>LABOUR</u>							
2	LB-015	Cooly un-skilled			2.00	Nos.	1,050.00	per day	2,100.00
								Total.	2,100.00
		Sundries			10	%			210.00
							Total Rs.		2,310.00
		Contractor's Profit			20	%			462.00
		Total							2,772.00
		<u>ITEM RATES</u>							
		Composite rate per 100 Rft						Rs.	2,772.00
		Composite rate per Rft						Rs.	27.72

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

Rate Analysis Road - 8

Description

Providing and fixing RPC Manhole Cover Manufactured with 100% Reinforced Plastic Composite Material, 650 mm dia with clear opening size 600 mm (24" dia) and RPC manhole frame having dia meter 790 mm (Complete) (Certified under ISO 9001-2015)

Manhole Cover

Unit. Each

Sr. No.	Ref Input Rate	Detail	Unit Rate (British System) per Each					
			Qty	Rate Per Unit	Amount (Rs.)			
	Page No112							
1	A	RPC Manhole Cover	1.00	No	8400	No	8,400.00	
		Carriage					700	
							Total Rs.	9,100.00
		<u>LABOUR</u>						
2	LB-024	Skilled Cooly	0.50	Nos.	1,400.00	per day	700.00	
							Total.	700.00
		Sundries	10	%				70.00
							Total Rs.	770.00
							Total (1+2)	9,870.00
		Contractor's Profit	20	%				1,974.00
		Total						11,844
		<u>ITEM RATES</u>						
		Composite rate Set					Rs.	11,844

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

Rate Analysis Road - 9

Description

Fabrication, Supply, testing and commissioning of following Light control panels (LCP), floor standing weather proof, IP 65 Rated of appropriate size, made of MS Sheet 16 SWG with hinged door, handle, catcher, 2 coats of antirust and powder coated paint of approved colour, AC3 magnetic contactor, photocell for automatic operation of lights, CBs, Hand/Off/Auto switch, push button and all necessary accessories complete in all respects. LCP shall be manufactured as per specifications, single line diagram complete in all respect up to the satisfaction of Engineer incharge.

LCP								Unit.	Each

Sr. No.	Ref Input Rate	Detail	Unit Rate (British System) per Each						
			Qty		Rate Per Unit		Amount (Rs.)		
1	MR	LCP	1.00	No	270,855	No.	270,855		
							Total		270,855
		Contractor's Profit	20	%					54,171
		Total							325,026
		<u>ITEM RATES</u>							
		Composite rate Set						Rs.	325,026


Cost for PPEs from different Sources

1. Face Masks (3PLY)

affordable.pk [Need Help](#)

[KIDS Fashion](#) [Women Fashion](#) [Men Fashion](#) [Beauty & Grooming](#) [Shop By Brand](#) [Combo And De](#)

Home / Women / Beauty & Health / Face MakeUp / Other Face Makeup




Surgical Mask Box 3-Ply (50 Pcs)

★★★★★ 0.00 Ratings | 0 Reviews

Rs.700.00 ~~Rs.1,100.00~~ 36% off

20 g

[QUICK BUY](#) [ADD TO CART](#)

[ORDER ON WHATSAPP](#) 

Customer Service +92 305 4444684

2. Safety Gum Shoes



WELCOME BLACK-YELLOW
SAFETY GUMBOOTS

Imported Black 100 % Water Proof PVC Industrial Purpose Super Safety Gum Boots.

★★★★★ 1 Ratings | 10 Answered Questions  

Brand: No Brand | [More Men from No Brand](#)

Rs. 1,349

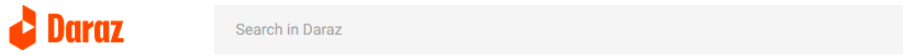
Promotions [Spend Rs. 18,000 get Rs. 800 off](#)

Color Family Black 

Size EU

Quantity


3. Hand Gloves



Search in Daraz

Categories ▾

Tools DIY & Outdoor > Protective Clothing & Equipme... > Safety Gloves > Nitrile gloves XL



INGCO
PAKISTAN

SIZE XL

THE BEST PROTECTION AGAINST OILS, GREASE, ACIDS, ALKALIS, AND OTHER LIQUIDS

PACKED BY POLY BAG

CE EN388 4121X

Nitrile gloves XL

★★★★★ 58 Ratings | 5 Answered Questions

Brand: Ingco | More Protective Clothing & Equipment from Ingco

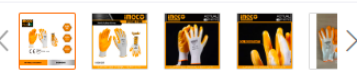
Rs. 245
Rs. 325 -25%

Promotions **Spend Rs. 18,000 get Rs. 800 off**

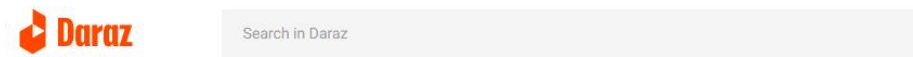
Color family White

Size XL

NITRILE GLOVES **HGNG01**




4. Safety Hard helmets



Search in Daraz

Categories ▾

Motors > Automotive > Auto Parts & Spares > Ignition & Electrical > Plates with Sensors > Construction Safety Helmets, Electrical



Construction Safety Helmets, Electrical Engineering Helmets, Labor Helmets, High Quality Male and Female Work Hats

☆☆☆☆ No Ratings

Brand: No Brand | More Automotive from No Brand

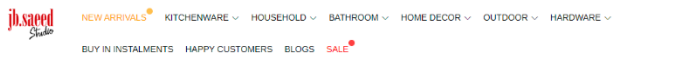
Free Shipping

Rs. 1,886
Rs. 1,887 -0.1%

Promotions **Spend Rs. 18,000 get Rs. 800 off**


Quantity Only 1 items left

5. Safety Goggles



NEW ARRIVALS KITCHENWARE HOUSEHOLD BATHROOM HOME DECOR OUTDOOR HARDWARE

BUY IN INSTALMENTS HAPPY CUSTOMERS BLOGS SALE



TOTAL
The World's Total System
SAFETY GOGGLES

☆☆☆☆ No reviews

Rs. 550.00
*Prices are inclusive of Tax

Designer: Total
SKU: TSP304

Quantity

ADD TO CART


BUY IT NOW

ADD TO WISHLIST

Product Specification:

- Conforms to ANSI Z87.1 and CE EN166
- Full-view full-slice structure prevents UV and withstands impact
- Fit to wearing the corrective glasses, also can be used as visitors glasses
- Can defend against splash particles in the round
- Packed by double blister

6. Reflective Safety Vest



PRESCOTT PSBV101 LARGE REFLECTION VEST

PRODUCT VIEWS: 658
STOCK AVAILABILITY: **In Stock**
MODEL: BEHR-2587

PRESCOTT
PRESCOTT

Rs540/-

1

★★★★★ Based on 1 reviews. Write a review

f t p e +

7. Infrared Thermometer



BENETECH GM-2200 INFRARED THERMOMETER

PRODUCT VIEWS: 904
STOCK AVAILABILITY: **In Stock**
MODEL: CPCB-10216

BENETECH
精智仪器仪表
BENETECH

Rs40,000/-

1

★★★★★ Based on 1 reviews. Write a review

f t p e +

8. Fire Extinguishers

HOT



DCP FIRE EXTINGUISHERS, FIRE EXTINGUISHERS, FIRE FIG...
DCP Fire Extinguisher 12 Kg China
★★★★★
Rs4,200.00



DCP FIRE EXTINGUISHERS, FIRE EXTINGUISHERS, FIRE FIG...
DCP Fire Extinguisher 6 kg NAFFCO
★★★★★
Rs6,500.00



DCP FIRE EXTINGUISHERS, FIRE EXTINGUISHERS, FIRE FIG...
6 KG DCP Fire Extinguisher Bavaria ...
★★★★★
Rs6,800.00

9. PVC Cones and Delineators



★★★★★
ROAD SAFETY PVC TRAFFIC CONES
PKR 950.00



10. Delineators with Chain



★★★★★
ROAD GUIDING PORTABLE DELINEATORS
PKR 1200.00



★★★★★
SAFETY TRAFFIC CHAIN
PKR 3700.00



Annexure-C
Project Economic Analysis

FINANCIAL ANALYSIS ROAD NETWORK

TABLE - 9.1

AVERAGE OPERATING SPEEDS

Km/Hr

WITHOUT PROJECT CONDITION

Years	Cars/Jeeps	Hiace Wagon/ Pickup	Coaster/ Mini Buses	Buses	Trucks	Trucks	Trucks 5-AXLE & 6-AXLE
					2-AXLE	3-AXLE & 4- AXLE	
Base Year(2022)	25	20	20	15	15	15	15
2029	20	15	15	10	10	10	10
2037	15	10	10	10	10	10	10

WITH PROJECT CONDITION

Years	Cars/Jeeps	Hiace Wagon/ Pickup	Coaster/ Mini Buses	Buses	Trucks	Trucks	Trucks 5-AXLE & 6-AXLE
					2-AXLE	3-AXLE & 4- AXLE	
Base Year(2022)	25	20	20	15	15	15	15
2029	20	15	15	10	10	10	10
2037	15	10	10	10	10	10	10

**TABLE - 9.3
VEHICLE OPERATING COSTS
FOR POOR ROAD CONDITIONS
WITHOUT PROJECT**

SPEEDS	MOTOR CYCLE	RICKSHAW	CAR	WAGON	MINI-BUS	BUS	TRUCK 2-AXLE	Rs/Km	
								TRUCK 3-AXLE & 4-AXLE	TRUCK 5-AXLE & 6-AXLE
10	4.94	6.86	56.39	57.04	68.24	97.79	103.44	109.08	114.72
15	4.21	5.89	47.21	47.89	57.70	82.34	86.88	92.52	98.16
20	3.80	5.35	42.43	43.08	52.15	74.07	75.86	81.50	87.14
25	3.53	5.00	39.47	40.32	48.67	68.87	67.55	73.19	78.83
30	3.35	4.76	37.48	38.27	46.28	65.37	61.01	66.65	72.29
35	3.23	4.60	36.09	36.79	44.55	63.00	55.82	61.46	67.10
40	3.16	4.51	35.10	35.70	43.28	61.46	51.79	57.43	63.07
45	3.12	4.47	34.42	34.89	42.35	60.58	48.80	54.44	60.08
50	3.12	4.47	33.99	34.31	41.69	60.28	46.78	52.42	58.07
55	3.16	4.53	33.76	33.91	41.26	60.48	45.70	51.34	56.98
60	3.22	4.64	33.71	33.68	41.03	61.14	45.52	51.16	56.80
65	3.30	4.77	33.82	33.58	40.98	62.24	46.22	51.86	57.50
70	3.42	4.95	34.09	33.62	41.09	63.76	47.80	53.44	59.08
75	3.56	5.18	34.49	33.77	41.36	65.68	50.23	55.87	61.51
80	3.73	5.42	35.02	34.04	41.76	67.99	53.51	59.15	64.79
85	3.93	5.73	35.68	34.41	42.31	70.68	57.63	63.28	68.92

**TABLE- 9.4
FOR GOOD ROAD CONDITIONS
WITH PROJECT**

SPEEDS	MOTOR CYCLE	RICKSHAW	CAR	WAGON	MINI-BUS	BUS	Rs/Km		
							TRUCK 2-AXLE	TRUCK 3-AXLE & 4- AXLE	TRUCK 5-AXLE & 6- AXLE
10	3.71	5.12	35.59	34.99	41.42	61.63	65.14	69.34	73.54
15	3.08	4.29	28.49	28.17	33.56	50.94	54.02	58.23	62.43
20	2.73	3.83	24.80	24.60	29.44	45.22	46.71	50.92	55.12
25	2.50	3.53	22.53	22.35	26.84	41.60	41.22	45.42	49.62
30	2.35	3.33	21.00	20.80	25.05	39.13	36.87	41.08	45.28
35	2.25	3.19	19.92	19.67	23.75	37.40	33.40	37.60	41.80
40	2.19	3.11	19.16	18.83	22.77	36.21	30.65	34.85	39.06
45	2.15	3.07	18.62	18.20	22.05	35.43	28.55	32.76	36.96
50	2.15	3.08	18.26	17.73	21.51	35.01	27.06	31.26	35.46
55	2.17	3.12	18.06	17.39	21.13	34.89	26.13	30.33	34.54
60	2.21	3.19	17.99	17.17	20.88	35.05	25.76	29.96	34.16
65	2.28	3.30	18.04	17.06	20.76	35.48	25.92	30.12	34.32
70	2.37	3.44	18.19	17.03	20.74	36.14	26.61	30.81	35.01
75	2.49	3.61	18.45	17.09	20.83	37.04	27.82	32.02	36.22
80	2.62	3.81	18.80	17.23	21.01	38.17	29.54	33.74	37.94
85	2.77	4.04	19.24	17.44	21.29	39.52	31.77	35.98	40.18
90	2.95	4.31	19.77	17.73	21.65	41.08	31.77	35.98	40.18

**TABLE - 9.5
VALUE OF TRAVEL TIME**

DESCRIPTION	MOTORCYCLE	CAR	WAGON	COASTER/ FLYING COACH	TRUCK	BUS
<u>TRAVEL TIME VALUE OF PASSENGERS/OCCUPANTS</u>						
Average Income of Passenger (Rs./Month)	40,000	60,000	30,000	22,000	35,000	30,000
Average Income of Passenger (Rs./Annum)	480,000	720,000	360,000	264,000	420,000	360,000
Working Hours /Annum	2424	2424	2424	2424	2424	2424
Rate of passenger Rs./Hour	198	297	149	109	173	149
No. of Occupants	2.00	5.00	16.00	29.00	2.00	45.00
Travel Time Value of occupants---in financial terms (Rs./Hour)	396.04	1485.15	2376.24	3158.42	346.53	6683.17
Travel Time Value of occupants---in economic terms (Rs./Hour) 25%	99.01	371.29	594.06	789.60	86.63	1670.79

NOTE:- 'The value of travel time in a number of studies have been estimated at 25% to 33% of the wage rate due to lack of information on the split of work and non-work travel among passengers and the 'proportion of non-wage earners among passengers.

TABLE - 9.6
Gojra (1.57 km)
ANNUAL VEHICLE OPERATING COST
WITHOUT PROJECT

(Million Rs.)

Years	Voc/Km (Rs.)	Traffic Volume ADT	Distance Annual Km	Total Cost Million Rs.
Motor Cycles\Rickshaw				
Base Year(2022)	4.26	3200	573	7.82
2029	4.57	5440	573	14.26
2037	5.05	9792	573	28.34
Cars				
Base Year(2022)	39.47	540	573	12.22
2029	42.43	918	573	22.32
2037	47.21	1652	573	44.70
Wagons				
Base Year(2022)	43.08	5	573	0.12
2029	47.89	8	573	0.22
2037	57.04	15	573	0.48
Bus				
Base Year(2022)	82.34	3	573	0.13
2029	97.79	5	573	0.25
2037	97.79	8	573	0.46
T.Trolley + Trucks 2-AXLE				
Base Year(2022)	86.88	12	573	0.61
2029	103.44	21	573	1.23
2037	103.44	37	573	2.22
Trucks 3-AXLE & 4-AXLE				
Base Year(2022)	92.52	0	573	-
2029	109.08	0	573	-
2037	109.08	0	573	-
Trucks 5-AXLE & 6-AXLE				
Base Year(2022)	98.16	0	573	-
2029	114.72	0	573	-
2037	114.72	0	573	-
TOTAL				
Base Year(2022)				20.89
2029				38.29
2037				76.19

Note : "VOC" means Vehicle Operating Cost

TABLE - 9.7
Gojra (1.57 km)
ANNUAL VEHICLE OPERATING COST
WITH PROJECT

(Million Rs.)

Years	Voc/Km (Rs.)	Traffic Volume ADT	Distance Annual Km	Total Cost Million Rs.
Motor Cycles\Rickshaw				
Base Year(2022)	2.65	3200	573	4.86
2029	2.72	5440	573	8.48
2037	2.84	9792	573	15.95
Cars				
Base Year(2022)	19.16	540	573	5.93
2029	19.92	918	573	10.48
2037	21.00	1652	573	19.89
Wagons				
Base Year(2022)	18.83	5	573	0.05
2029	19.67	8	573	0.09
2037	20.80	15	573	0.17
Bus				
Base Year(2022)	36.21	3	573	0.06
2029	37.40	5	573	0.10
2037	39.13	8	573	0.18
T.Trolley + Trucks 2-Axle				
Base Year(2022)	22.77	12	573	0.16
2029	23.75	21	573	0.28
2037	25.05	37	573	0.54
Trucks 3-AXLE & 4-AXLE				
Base Year(2022)	34.85	0	573	-
2029	37.60	0	573	-
2037	41.08	0	573	-
Trucks 5-AXLE & 6-AXLE				
Base Year(2022)	39.06	0	573	-
2029	41.80	0	573	-
2037	45.28	0	573	-
TOTAL				
Base Year(2022)				11.05
2029				19.43
2037				36.73

Note : "VOC" means Vehicle Operating Cost

TABLE - 9.8
Gojra (1.57 km)

(Million Rs.)

YEARS	VEHICLE OPERATING COSTS		SAVINGS
	WITHOUT PROJECT	WITH PROJECT	
Base Year(2022)	20.89	11.05	9.84
2029	38.29	19.43	18.86
2037	76.19	36.73	39.47
		TOTAL	68.16

TABLE - 9.9
Gojra (1.57 km)
ANNUAL VALUE OF TRAVEL TIME COST
WITHOUT PROJECT

(Million Rs.)				
Years	VOT	Traffic Volume ADT	Distance Annual (Km)	Total Cost Million Rs.
	Rs/km			
Motor Cycles\Rickshaw				
Base Year(2022)	3.96	3200	573	7.26
2029	4.95	5440	573	15.43
2037	6.60	9792	573	37.04
Cars				
Base Year(2022)	14.85	540	573	4.60
2029	18.56	918	573	9.77
2037	24.75	1652	573	23.44
Wagons				
Base Year(2022)	29.70	5	573	0.08
2029	39.60	8	573	0.18
2037	59.41	15	573	0.50
Bus				
Base Year(2022)	39.48	3	573	0.06
2029	52.64	5	573	0.14
2037	78.96	8	573	0.37
T.Trolley + Trucks 2-Axle				
Base Year(2022)	5.78	12	573	0.04
2029	8.66	21	573	0.10
2037	8.66	37	573	0.19
Trucks 3-AXLE & 4-AXLE				
Base Year(2022)	5.78	0	573	-
2029	8.66	0	573	-
2037	8.66	0	573	-
Trucks 5-AXLE & 6-AXLE				
Base Year(2022)	5.78	0	573	-
2029	8.66	0	573	-
2037	8.66	0	573	-
TOTAL				
Base Year(2022)				12
2029				26
2037				62

Note : "VOT" means value of Travel Cost

TABLE - 9.10
Gojra (1.57 km)
ANNUAL VALUE OF TRAVEL TIME COST
WITH PROJECT

(Million Rs.)				
Years	VOT	Traffic Volume ADT	Distance Annual (Km)	Total Cost Million Rs.
	Rs/km			
Motor Cycles\Rickshaw				
Base Year(2022)	2.65	3200	573	4.86
2029	2.72	5440	573	8.48
2037	2.84	9792	573	15.95
Cars				
Base Year(2022)	19.16	540	573	5.93
2029	19.92	918	573	10.48
2037	21.00	1652	573	19.89
Wagons				
Base Year(2022)	18.83	5	573	0.05
2029	19.67	8	573	0.09
2037	20.80	15	573	0.17
Bus				
Base Year(2022)	36.21	3	573	0.06
2029	37.40	5	573	0.10
2037	39.13	8	573	0.18
T.Trolley + Trucks 2-Axle				
Base Year(2022)	22.77	12	573	0.16
2029	23.75	21	573	0.28
2037	25.05	37	573	0.54
Trucks 3-AXLE & 4-AXLE				
Base Year(2022)	34.85	0	573	-
2029	37.60	0	573	-
2037	41.08	0	573	-
Trucks 5-AXLE & 6-AXLE				
Base Year(2022)	39.06	0	573	-
2029	41.80	0	573	-
2037	45.28	0	573	-
TOTAL				
Base Year(2022)				11.05
2029				19.43
2037				36.73

TABLE - 9.11
Gojra (1.57 km)

(Million Rs.)

YEARS	ANNUAL VALUE OF TRAVEL TIME COST (VOTT)		SAVINGS
	WITHOUT PROJECT	WITH PROJECT	
Base Year(2022)	12.04	11.05	0.99
2029	25.62	19.43	6.19
2037	61.53	36.73	24.80
		TOTAL	31.98

TABLE - 9.12
Gojra (1.57 km)
TOTAL PROJECT BENEFITS

(Million Rs.)

YEARS	SAVINGS		TOTAL SAVINGS
	VOC	VOTT	
Base Year(2022)	9.84	0.99	10.82
2029	18.86	6.19	25.05
2037	39.47	24.80	64.27
	TOTAL		100

TABLE - 9.13
Gojra (1.57 km)
Calculation of Economic Internal Rate of Return

Million Rs.								
Years	PROJECT ECONOMIC COSTS			Project Economic Benefits	Net Benefits Pattern at Economic Prices			
	Investment	O & M	Total Costs		(a)	(b)	(c)	(d)
1	142	0.00	132.87	0.00	-132.87	-132.87	-146.16	-146.16
2		0.66	0.66	10.82	10.16	9.08	10.09	9.01
3		0.66	0.66	12.45	11.78	10.54	11.72	10.47
4		0.66	0.66	14.32	13.65	12.22	13.59	12.15
5		0.66	0.66	16.46	15.80	14.15	15.73	14.09
6		0.66	0.66	18.93	18.27	16.38	18.20	16.31
7		0.66	0.66	21.77	21.11	18.93	21.04	18.86
8		0.66	0.66	25.04	24.37	21.87	24.31	21.80
9		0.66	0.66	28.79	28.13	25.25	28.06	25.18
10		0.66	0.66	33.11	32.45	29.14	32.38	29.07
11		0.66	0.66	34.77	34.10	30.63	34.04	30.56
12		0.66	0.66	36.51	35.84	32.19	35.78	32.13
13		0.66	0.66	38.33	37.67	33.84	37.60	33.77
14		0.66	0.66	40.25	39.59	35.56	39.52	35.49
15		0.66	0.66	42.26	41.60	37.37	41.53	37.31
Total :	132.87	9.30	142.17	1331.38	231.66	194.27	217.44	180.06
DISCOUNT RATES		PRESENT WORTH OF COST		Present Worth of Benefit	NET PRESENT WORTH			
10 %	120.79	125.24	207.35	27.22	11.97	14.69	-0.55	
12 %	118.63	122.57	161.97	8.07	-4.99	-4.19	-17.25	
18 %	112.60	115.42	87.53	-29.57	-38.15	-41.11	-49.70	
20 %	110.73	113.28	73.80	-37.63	-45.20	-48.96	-56.52	
ECONOMIC INTERNAL RATE OF RETURN 12% DR					13.00	11.36	11.52	9.94
BENEFIT COST / RATIO AT 12 % D.R				1.32				

* A factor of 0.9 has been used for Capital Cost and O&M Cost in the Economics Terms.

(a) Base Case assuming 10 Years period of analysis.

(b) Benefits decreased by 10 %

(c) Cost over-run by 10 %

(d) Benefit reduction and cost over-run both occurring simultaneously.

Annexure-D
Gant Chart

TENTATIVE PROJECT IMPLEMENTATION SCHEDULE FOR Improvement of P2-Mission & Mongi Road & Chowks

In GOJRA CITY

YEAR (2022-2023)

Road	March-23				April-23				May-23				Jun-23			
P2-(Mission & Mongi Road), CP1,CP2 &CP3																

Annexure-E
**Environment and Social Mitigation and
Management Plan**

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 Mission & Mongi Road near Railway Chowk, Toba Tek Singh 1.57 km

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:

- Base-Sub-Base Overlay
- Asphalt Pavement
- Tuff Pavement on Shoulders
- Signage/Direction Boards
- Median Development
- R&M of existing green belts
- Road Lights

Estimated Cost of Sub-Project as per PC-1: 142.17 (PKR million)

Approx. Completion Time: 03 Months

Estimated Labor for Sub-Project: 25-30

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	✓		Some educational institutes, one church, bishop house as shown hereunder were observed within 100 m at the proposed project site but outside of construction limits and project activity will not have any significant impact on these facilities. <ul style="list-style-type: none"> Govt. Post Graduate College Govt. MC School Divisional Model School Saint John's Cathedral School & Church
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?	✓		The land belongs to MC and all sub-project activities will be carried out there. Similarly, existing road is to be rehabilitated hence, portable items of the shopkeeper will be relocated temporarily and no significant dismantling is 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
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 cooperate 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:

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

INVOLUNTARY RESETTLEMENT SCREENING CHECKLIST

Name of City/MC/LG: MC Gojra M. Asad MOP

Sub-Project Sector: Roads

Sub-Project Title: Rehabilitation of Mission & Mongi Road 1.57 km

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. Shops for commercial activities over there also belong to MC Gojra. Not Applicable
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.	✓			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.

SECTION 1	Yes	No	Expected	Remarks
Agriculture related impacts		✓		Not Applicable
Crops and vegetables (specify types and cropping area in “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?		✓		Construction of storm water drain can temporarily disturb the business activities. This aspect has been covered and communicated to the public during public consultation phase. businesses.

Prepared By:

Name: Haider Ali

Designation: Consultant

Signature:



Date: 16-11-2022

Endorsed By:

Name: Asif Gillani

Designation: Deputy Program Officer ESSs

Signature:

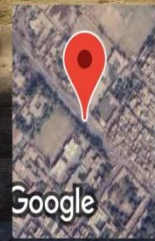
Date:

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

Pictures of Project Siting



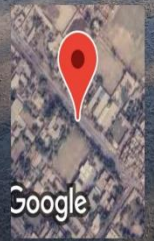
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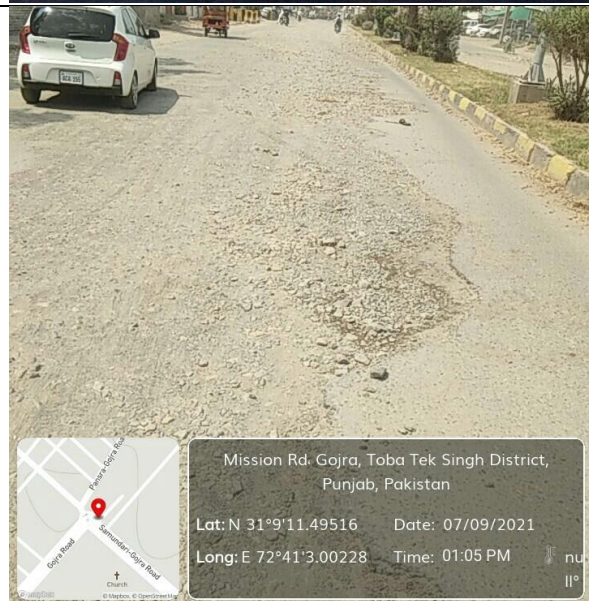
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 Punjab, Pakistan
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GPS Map Camera



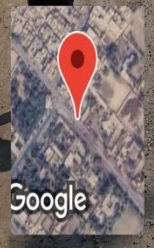
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 Punjab, Pakistan
 Lat 31.151454°
 Long 72.686083°
 16/11/22 11:55 AM GMT +05:00



Mission Rd. Gojra, Toba Tek Singh District,
 Punjab, Pakistan
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 Long: E 72°41'3.00228 Time: 01:05 PM



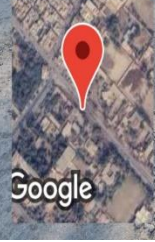
GPS Map Camera



Gojra, Punjab, Pakistan
 5M3M+5R3, Mission Rd, Gojra, Toba Tek Singh
 District, Punjab, Pakistan
 Lat 31.152842°
 Long 72.684515°
 16/11/22 11:36 AM GMT +05:00



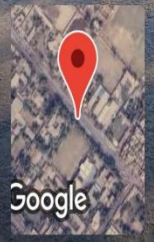
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Gojra, Punjab, Pakistan
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 District, Punjab, Pakistan
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 Long 72.684704°
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GPS Map Camera



Gojra, Punjab, Pakistan
 5M2P+MG4, Gojra, Toba Tek Singh District,
 Punjab, Pakistan
 Lat 31.151454°
 Long 72.686083°
 16/11/22 11:55 AM GMT +05:00



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.

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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: Chowks

Sub-Project Title: Beautification of Mission Chowk

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 of intersection
- Channelization of traffic flow
- Rehabilitation of Existing Pavement Structure
- Pavement Marking
- Street Lighting
- Aesthetic improvement of chowk

Estimated Cost of Sub-Project: 141.17 (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	✓		One Masjid exists within 100 meters of periphery of Sub-Project which 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		✓	No such sensitive receptors observed nearby 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 chowk. 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?		✓	Negligible impact envisaged.
28. Noise and vibration due to sub-project construction or operation?		✓	Negligible impact envisaged
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.
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.
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.
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.

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

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	✓		No negative impact on any existing infrastructure envisaged.

Prepared By:

Name: Haider Ali

Designation: Individual Consultant, PCP

Signature:



Endorsed By:

Name: Asif Gillani

Designation: Deputy Program Officer ESSs PMDFC

Signature:



INVOLUNTARY RESETTLEMENT SCREENING CHECKLIST

Name of City/MC/LG: MC Gojra M. Asad MOP

Sub-Project Sector: Chowks

Sub-Project Title: Beautification of Mission Chowk

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)	✓			Not Applicable
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.	✓			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”).		✓		
Trees (specify number and types in “remarks”).		✓		
Others (specify in “remarks”).		✓		

SECTION 1	Yes	No	Expected	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)		✓		No encroachment in chowk under scope of work.
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?	✓			Rehabilitation of chowk can temporarily disturb the business activities.

Prepared By:

Name: Haider Ali

Designation: Individual Consultant PCP

Signature:




Endorsed By:

Name: Asif Gillani

Designation: Deputy Program Officer ESSs PMDFC

Signature:



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

Pictures of Project Siting



GPS Map Camera



Gojra, Punjab, Pakistan
5M3M+9H5, Gojra, Toba Tek Singh District,
Punjab, Pakistan
Lat 31.153341°
Long 72.684024°
25/11/22 11:31 AM GMT +05:00



GPS Map Camera



Gojra, Punjab, Pakistan
5M3M+9H5, Gojra, Toba Tek Singh District,
Punjab, Pakistan
Lat 31.153271°
Long 72.684072°
25/11/22 11:34 AM GMT +05:00

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: Chowks

Sub-Project Title: Beautification of Railway Phattak Chowk - I

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 of intersection
- Channelization of traffic flow
- Rehabilitation of Existing Pavement Structure
- Pavement Marking
- Street Lighting
- Aesthetic improvement of chowk

Estimated Cost of Sub-Project: 142.17 (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		✓	No such sensitive receptors observed nearby 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 chowk. 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:			
31. Disturbance to habitats/biodiversity of environmentally sensitive or protected areas?		✓	The proposed project site doesn't have any environmentally sensitive or protected areas.
32. Cutting of trees?		✓	No cutting of trees required as per scope of work under Sub-Project.
33. Disruption to habitats/biodiversity of surrounding ecosystem/environment?		✓	No disruption to any habitat/ecosystem due to any Sub-Project activities.
34. Generation of wastewater during construction or operation?		✓	No wastewater generation envisaged as per scope of work during construction as well as operational phase.
35. 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.
36. 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.
37. 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.
38. Over pumping of ground water, leading to salinization and ground subsidence?		✓	Over pumping of ground water is not required for this sub project.

39. Serious contamination of soil due to construction works?		✓	No such impact is expected.
40. 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.
41. Generation of hazardous waste?			
42. Increased air pollution due to sub-project construction and operation?		✓	Negligible impact envisaged.
43. Noise and vibration due to sub-project construction or operation?		✓	Negligible impact envisaged
44. Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents due to solid/liquid?		✓	No such impact is anticipated.
45. 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.
3. Disproportionate impacts on the poor, women and children and or other vulnerable groups ³ (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.
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.

³ Women, Children, Women headed households, People in old age, people having disabilities, socially isolated community groups and or people living below the poverty line

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	✓		No negative impact on any existing infrastructure envisaged.

Prepared By:

Name: Haider Ali

Designation: Individual Consultant, PCP

Signature:



Endorsed By:

Name: Asif Gillani

Designation: Deputy Program Officer ESSs PMDFC

Signature:



INVOLUNTARY RESETTLEMENT SCREENING CHECKLIST

Name of City/MC/LG: MC Gojra M Asad MOP

Sub-Project Sector: Chowks

Sub-Project Title: Beautification of Railway Phattak Chowk - I

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)	✓			Not Applicable
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.	✓			MC Gojra owns the land for Sub-Project.
If land is being acquired, describe any structures constructed on it		✓		Not Applicable
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”)		✓		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:		✓		Not Applicable
Agriculture related impacts		✓		
Crops and vegetables (specify types and cropping area in “remarks”).		✓		
Trees (specify number and types in “remarks”).		✓		
Others (specify in “remarks”).		✓		

SECTION 1	Yes	No	Expected	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)		✓		No encroachment in chowk under scope of work.
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?	✓			Rehabilitation of chowk can temporarily disturb the business activities.

Prepared By:

Name: Haider Ali

Designation: Individual Consultant PCP

Signature:

Endorsed By:

Name: Asif Gillani

Designation: Deputy Program Officer ESSs PMDFC

Signature:

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

Pictures of Project Siting



GPS Map Camera

Gojra, Punjab, Pakistan

Shop# 38 Jamia charaghia, Gojra, Toba Tek

Singh District, Punjab, Pakistan

Lat 31.14915°

Long 72.689696°

25/11/22 11:39 AM GMT +05:00

Google

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: Chowks

Sub-Project Title: Beautification of Railway Phattak Chowk - II

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 of intersection
- Channelization of traffic flow
- Rehabilitation of Existing Pavement Structure
- Pavement Marking
- Street Lighting
- Aesthetic improvement of chowk

Estimated Cost of Sub-Project: 142.17 (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		✓	No such sensitive receptors observed nearby 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 chowk. 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:			
46. Disturbance to habitats/biodiversity of environmentally sensitive or protected areas?		✓	The proposed project site doesn't have any environmentally sensitive or protected areas.
47. Cutting of trees?		✓	No cutting of trees required as per scope of work under Sub-Project.
48. Disruption to habitats/biodiversity of surrounding ecosystem/environment?		✓	No disruption to any habitat/ecosystem due to any Sub-Project activities.
49. Generation of wastewater during construction or operation?		✓	No wastewater generation envisaged as per scope of work during construction as well as operational phase.
50. 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.
51. 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.
52. 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.
53. Over pumping of ground water, leading to salinization and ground subsidence?		✓	Over pumping of ground water is not required for this sub project.

54. Serious contamination of soil due to construction works?		✓	No such impact is expected.
55. 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.
56. Generation of hazardous waste?			
57. Increased air pollution due to sub-project construction and operation?		✓	Negligible impact envisaged.
58. Noise and vibration due to sub-project construction or operation?		✓	Negligible impact envisaged
59. Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents due to solid/liquid?		✓	No such impact is anticipated.
60. 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.
3. Disproportionate impacts on the poor, women and children and or other vulnerable groups ⁴ (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.
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.

⁴ Women, Children, Women headed households, People in old age, people having disabilities, socially isolated community groups and or people living below the poverty line

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	✓		No negative impact on any existing infrastructure envisaged.

Prepared By:

Name: Haider Ali

Designation: Individual Consultant, PCP

Signature:



Endorsed By:

Name: Asif Gillani

Designation: Deputy Program Officer ESSs PMDFC

Signature:



INVOLUNTARY RESETTLEMENT SCREENING CHECKLIST

Name of City/MC/LG: MC Gojra M Asad MOP

Sub-Project Sector: Chowks

Sub-Project Title: Beautification of Railway Phattak Chowk - II

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)	✓			Not Applicable
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.	✓			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”).		✓		
Trees (specify number and types in “remarks”).		✓		
Others (specify in “remarks”).		✓		

SECTION 1	Yes	No	Expected	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)		✓		No encroachment in chowk under scope of work.
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?	✓			Rehabilitation of chowk can temporarily disturb the business activities.

Prepared By:

Name: Haider Ali

Designation: Individual Consultant PCP

Signature:

Endorsed By:

Name: Asif Gillani

Designation: Deputy Program Officer ESSs PMDFC

Signature:

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

Pictures of Project Siting



GPS Map Camera



Gojra, Punjab, Pakistan

5M2Q+434, Mission Rd, Mehdi Mohallah Gojra,
Toba Tek Singh District, Punjab, Pakistan

Lat 31.150329°

Long 72.687795°

25/11/22 11:35 AM GMT +05:00



GPS Map Camera



Gojra, Punjab, Pakistan

5M3M+9H5, Gojra, Toba Tek Singh District,
Punjab, Pakistan

Lat 31.153299°

Long 72.684044°

25/11/22 11:32 AM GMT +05:00

Environment & Social Mitigation & Management cost			
Item	Quantity	Tentative Cost/Item- Rs./-	Total Cost
A-PPEs			
Face Masks (3 PLY) - box	20	300	6000
Safety Hard Helmets	8	3,000	24000
Safety Shoes	8	3,000	24000
Hand Gloves	8	1,000	8000
Ear Plugs	8	500	4000
Reflective Safety Vest	8	1,000	8000
Safety Goggles	8	500	4000
B-Community Health and Safety			
First Aid Box Complete	1	10,000	10000
Safety Signs	3	15,000	45000
Safety Cones	20	1,000	20000
Safety Tapes	50	1,500	75000
Portable Delineator with chain	5	2,200	11000
Emergency Portable Lights	3	3,000	9000
Solid Waste Collection Drums with Cover	3	12,000	36000
Fire Fighting Equipment Purchase and refilling	1	10,000	10000
BCC Campaign and waste collection system	Lump sum		100,000
Water Sprinkling	Lump sum		100,000
Total (PKR)-A+B			494,000

Environmental and Social Mitigation Plan

Proposed Sub-project activities	Potential Env/Soc Impacts	Mitigation Measures	Monitoring Indicators	Monitoring Frequency	Responsibility
Construction Phase					
Dismantling, Excavation (Cold milling of existing road surface)	<p>a) Environmental Issues:</p> <ul style="list-style-type: none"> • Dust which may affect visibility • Noise from machineries/ equipment • Contamination of nearby surface water source • Construction waste may be generated due these activities • Safety hazards to labor and nearby resident population. • Worse House Keeping <p>b) Social Issues:</p> <ul style="list-style-type: none"> • Solid waste may cause disturbance in mobility • Temporary blockage of road may restrict mobility • Conflict with public and public complaints • Temporary loss of structures and private property 	<ul style="list-style-type: none"> ○ Solid waste will be properly disposed off at designated place of MC. ○ Updated and tuned machinery will be used to control noise. ○ Water sprinkling will be carried out at consecutive intervals as per instruction ○ Avoiding construction activities during nights. ○ Removal of excess matter/ debris from the site immediately. ○ Provide PPEs. ○ Provide appropriate signage near the construction activities to sensitize the communities and minimize accidents. ○ The contact Nos. of focal person of Grievance Redress Committee will be displayed at different locations and residents will also be informed about it. 	Visual/Pictures	<ul style="list-style-type: none"> • Daily site visit during construction phase • Fortnightly/Weekly/Daily • Once during the construction phase 	<ul style="list-style-type: none"> • ESFPs • Construction Supervision Consultant • DPO ESSs

	<ul style="list-style-type: none"> • Presence of Physical Cultural Resources (PCRs) of Archeological importance 	<ul style="list-style-type: none"> ○ Construction work will be scheduled in such a way that business of the shopkeepers will not be affected. Alternate road will be provided. Contractor will make sure that labor must not damage the property and structures of the communities. In case of damage compensation will be provided as per entitlements. 			
Construction material storage, handling and use	<p>Environmental Issues:</p> <ul style="list-style-type: none"> ○ Ground water may also 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 construction material 	<ul style="list-style-type: none"> • Material will be appropriately secured to ensure safe passage between the destinations during transportation. • Loads/heaps will have appropriate cover to prevent spillage and contractor should be responsible for any clean up resulting from any failure. • Materials will not be loaded to a higher level than the side and tail boards and shall be covered with a good quality tarpaulin; • If land acquired for storage of machinery & materials on temporarily basis: Contractor is liable to compensate the land owner according to agreement/negotiations/voluntarily 	Visual/Pictures	<ul style="list-style-type: none"> • Daily site visit during construction phase • Fortnightly/Weekly/Daily • Once during the construction phase 	<ul style="list-style-type: none"> • ESFPs • Construction Supervision Consultant • DPO • ESSs

		<ul style="list-style-type: none"> • 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/demolition activities. 			
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 	<ul style="list-style-type: none"> • 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. • Better heating & cooling facilities will be provided by the Contractor as per season accordingly. • Better accommodation will be ensured by the Contractor. • Its 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. 	Visual/ Pictures	<ul style="list-style-type: none"> • Daily site visit during construction phase • Fortnightly/Weekly/Daily • Once during the construction phase 	<ul style="list-style-type: none"> • ESFPs • Construction Supervision Consultant • DPO-ESSs
Vehicle Movements	<ul style="list-style-type: none"> ○ Traffic congestion ○ Conflicts 	<ul style="list-style-type: none"> ○ Alternative routes will be provided. ○ Sign boards and posters will also be displayed at project site and adjacent areas as well. Inform the residents about timing, schedule and construction work duration. 	Visual/ Pictures	<ul style="list-style-type: none"> • Daily site visit during construction 	<ul style="list-style-type: none"> • ESFPs • Construction Supervision

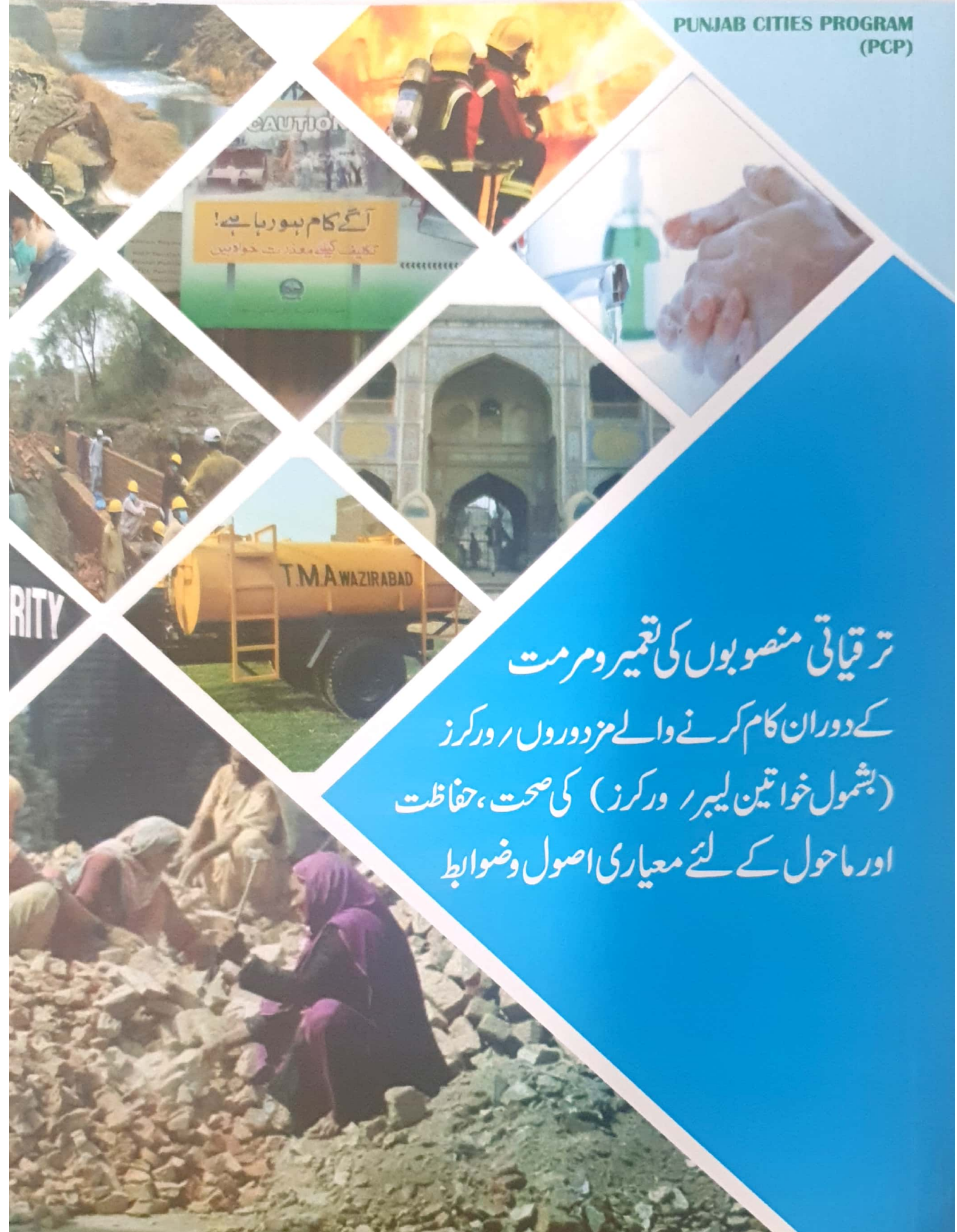
		<ul style="list-style-type: none"> ○ Work will be done in portions so that the alternate road may be used safely and vehicles movement will not be disturbed. 		<ul style="list-style-type: none"> • Fortnightly/Weekly/Daily • Once during the construction phase 	<ul style="list-style-type: none"> • Consultant DPO ESSs
Site Safety Issues	<ul style="list-style-type: none"> ○ Accidents 	Contractor will ensure site safety using safety cautions (night vision), boards, flagmen, cordon tapes etc. for smooth flow of traffic during the construction phase of the Sub-Project.	Visual/Pictures	<ul style="list-style-type: none"> • Daily site visit during construction phase • Fortnightly/Weekly/Daily • Once during the construction phase 	<ul style="list-style-type: none"> • ESFPs • Construction Supervision Consultant • DPO ESSs
Public access	Problems for pedestrians. Normal mode of transport may be disturbed during Sub-project execution.	<ul style="list-style-type: none"> • Alternate access route will be made sure. • Cordon off construction zone. 	Visual/Pictures	<ul style="list-style-type: none"> • Daily site visit 	<ul style="list-style-type: none"> • ESFPs • Construction

				during construction phase <ul style="list-style-type: none"> • Fortnightly/Weekly/Daily • Once during the construction phase 	Supervision Consultant <ul style="list-style-type: none"> • DPO • ESSs
Occupational Health & Safety	<ul style="list-style-type: none"> ○ Injuries to workers/LTI 	<ul style="list-style-type: none"> • Contractor will follow HSE SOPs for all activities on the site. • Workers will be trained 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. 	Visual/Pictures	<ul style="list-style-type: none"> • Daily site visit during construction phase • Fortnightly/Weekly/Daily • Once during the construction phase 	<ul style="list-style-type: none"> • ESFPs • Construction Supervision Consultant • DPO • ESSs

Laying of Asphalt	<ul style="list-style-type: none"> ○ Injuries to workers 	<ul style="list-style-type: none"> • Contractor will provide Safety Shoes, Hand Gloves, Safety Helmet, Reflective Vest to all the labor. 	Visual/ Pictures	<ul style="list-style-type: none"> • Daily site visit during construction phase • Fortnightly/Weekly/Daily • Once during the construction phase 	<ul style="list-style-type: none"> • ESFPs • Construction Supervision Consultant • DPO ESSs
Damage to Public Infrastructure/utilities	<ul style="list-style-type: none"> ○ Accidents/Incidents/Injuries ○ Structural loss ○ Social Conflicts 	<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. 	Visual/ Pictures	<ul style="list-style-type: none"> • Daily site visit during construction phase • Fortnightly/Weekly/Daily Once during the construction phase 	<ul style="list-style-type: none"> • ESFPs • Construction Supervision Consultant • DPO ESSs

Sexual Harassment- Labor Influx- Child Labor	<ul style="list-style-type: none"> ○ Social Conflicts 	<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. 	Visual/ Pictures/Re ported/Com plains by public during visit	<ul style="list-style-type: none"> • Daily site visit during construction phase • Fortnightly/Weekly/Daily <p>Once during the construction phase</p>	<ul style="list-style-type: none"> • ESFPs • Construction Supervision Consultant • DPO ESSs
CoViD-19 SOPs implementation	<ul style="list-style-type: none"> ○ Spread of Corona among the labor 	<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 	Visual/ Pictures	<ul style="list-style-type: none"> • Daily site visit during construction phase • Fortnightly/Weekly/Daily • Once during the construction phase 	<ul style="list-style-type: none"> • ESFPs • Construction Supervision Consultant • DPO ESSs

Street Lights	<ul style="list-style-type: none"> ○ Health and Safety of workers 	<ul style="list-style-type: none"> • SOPs of Work at Height provided in the PMDFC SOPs for labor/construction workers will be strictly followed 	Site pictures	<ul style="list-style-type: none"> • At the time of installation 	<ul style="list-style-type: none"> • MC • Regional office PMDFC • Supervision consultants
Operational Phase					
Road Maintenance- Road Furniture	<ul style="list-style-type: none"> ○ Accidents ○ Complains 	<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. 	Visual/ Pictures		<ul style="list-style-type: none"> • MC Officials



ترقیاتی منصوبوں کی تعمیر و مرمت
کے دوران کام کرنے والے مزدوروں / ورکرز
(بشمول خواتین لیبر / ورکرز) کی صحت، حفاظت
اور ماحول کے لئے معیاری اصول و ضوابط

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۔



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، بورویالا، خانیوال، کوٹ ادو، وہاڑی، گوجرہ، جھنگ، کمالیہ، اوکاڑا، ڈسکہ، حافظ آباد، جہلم، کاموکی، مرید کی، اور میانوالی کی ترقیاتی کاموں پر کامیابی سے کام جاری ہے۔ ان ترقیاتی منصوبوں میں ویسٹ مینجمنٹ، پانی کی فراہمی، نکاسی آب اور سڑکوں 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 (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 انوائرنمنٹ 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 کمیٹیز/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/کام کرنے والوں/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 / ورکرز (بشمول خواتین لیبر ورکرز) 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 ورکرز 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 / ورکرز (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 سیٹییز 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 سیٹییز پروگرام (PCP)



زیر نگرانی

عاشق چوہدری

سینئر پروگرام آفیسر (انفراسٹرکچر)
پنجاب سیٹیز پروگرام (PCP)

افتخار رسول

ڈپٹی پروگرام ڈائریکٹر
پنجاب سیٹیز پروگرام (PCP)

تکنیکی ٹیم

رضوانہ انجم

پروگرام آفیسر (انوائرنمنٹ اینڈ سوشل سیف گارڈز)
پنجاب سیٹیز پروگرام (PCP)

کنزلی ندیم

ریسرچ اینالسٹ
پنجاب سیٹیز پروگرام (PCP)

تہمینہ کرن

ڈپٹی پروگرام آفیسر (ESSs)
پنجاب سیٹیز پروگرام (PCP)



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

حفاظتی اقدامات

تھیکیدار 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 لئے 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





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 میٹریل 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 سالت 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



حفاظتی اقدامات

- ◆ روزمرہ پیدا ہونے والے کوڑا کرکٹ اور چکن 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 ٹوائلٹس سے پیدا شدہ فضلے اور لیکویڈ ویسٹ 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 ٹوائلٹس 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 چھرا 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

ٹھیکیدار کیمپ سائٹس پر درج ذیل سہولیات مہیا کرے گا۔

- ◆ لیبر کیمپس میں کھانا پکانے، کمروں کے گرم رکھنے نیز سردیوں میں نہانے اور دھونے کے لیے گرم پانی کے لیے ایندھن کی لکڑی یا دیگر بائیو 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۔





سرگرمیاں

۵۔ 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 / پناہ گاہوں میں کوئی مداخلت کرنا، شکار کرنا یا جانوروں / پرندوں کو قید کرنا اور خرید و فروخت کرنا، پنجاب وائلڈ لائف (پروٹیکشن، پریزرویشن، کنزرویشن اینڈ مینجمنٹ ایکٹ 1974) کے مطابق ممنوع اور سزا قابل تعزیر جرم ہے۔

سرگرمیاں

۶۔ حفظانِ صحت کے اصول

مسائل

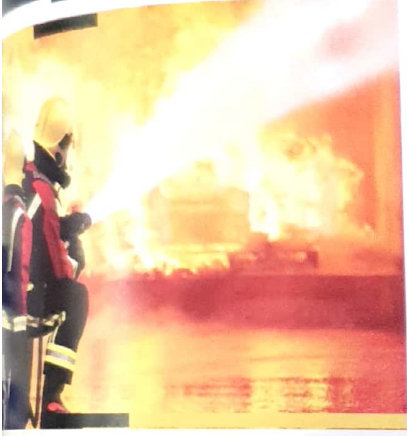
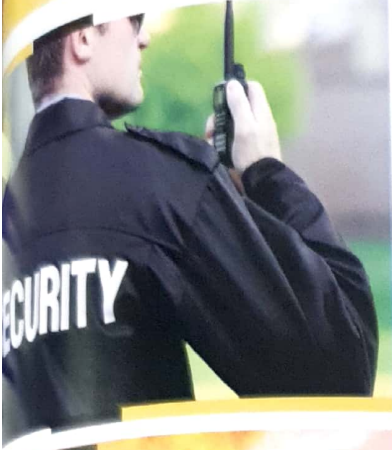
◆ حفظانِ صحت کے رہنما اصولوں پر عملدرآمد کرنے کی صورت میں مختلف بیماریاں مثلاً کرونا وائرس، ملیئریا اور ایچ آئی وی ایڈز اور دیگر انفیکشنز کے پھیلنے کا خطرہ کم ہوگا۔

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

- ◆ چوبیس گھنٹے لیبر کیمپس میں پرفرسٹ ایڈیکس کی سہولت موجود ہو۔ کیمپ سائنس میں ابتدائی طبی امداد سے متعلقہ دواؤں کا موجود ہونا یقینی بنایا جائے۔ اور طویل المدتی کیمپ کی صورت میں کسی ڈسپنسر رڈاکٹر کیمپ میں موجود ہونا چاہئے۔
- ◆ کسی ایمرجنسی کے دوران مزدوروں کے لیے ایبویوینس کی سہولت فراہم کی جائے اور ایمرجنسی سروسز 1122 یا 15 پر کال کرنے کے لیے ٹیلیفون رموبال 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۔
- ◆ چھڑوں اور دیگر بیکٹیریا کو پیدا ہونے سے روکنے کیلئے حفاظتی سپرے لازمی کرائے جائیں۔
- ◆ کرونا 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 کیمپس 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/ہیلتھ 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 اہلکار (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 میٹریل 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/ہائش 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 نمایاں 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 رکارڈز پر اپڈیشن کو فراہم کرے۔ اور کسی بھی قسم کی شکایات ایک رجسٹر میں درج کرے۔



سرگرمیاں

۸. حفظانِ 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 رلیبر 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 سکیورٹی 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 رکھی جاسکے۔



سرگرمیاں

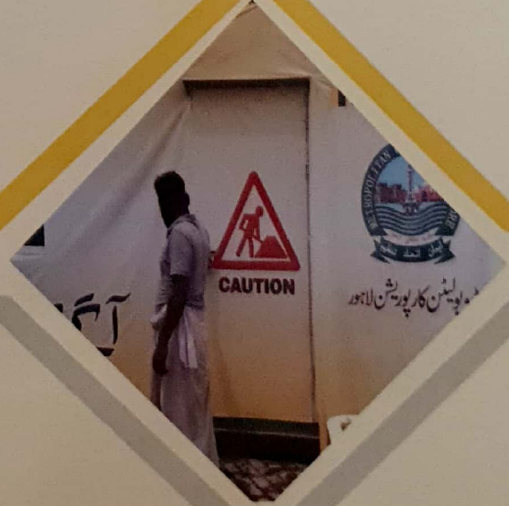
10. تعمیراتی کام ختم ہونے کے بعد کی ذمہ داریاں

مسائل

◆ فالتو سامان اور کوڑا کرکٹ کی گندگی

حفاظتی اقدامات

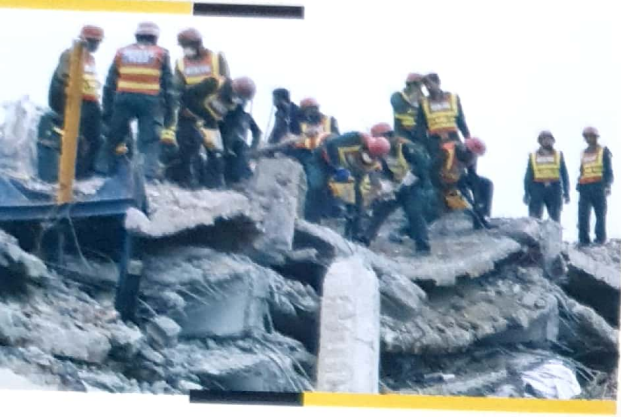
- ◆ کیپ سائٹ کو اصل حالت میں بحال کیا جائے۔
- ◆ تعمیراتی کام کے مکمل ہونے پر فریم اور باڈ لگنے والے دروازوں سمیت لیبر کیپ میں قائم تمام سہولیات کو ایسے ختم کیا جائے کہ وہاں کا کوئی کام نہ رہے۔
- ◆ کام کم ہونے کے ساتھ لیبر کیپ کو مرحلہ وار ختم کیا جائے (پورے کام کی تکمیل کا انتظار نہ کریں)
- ◆ لیبر کیپ کو مسما کرنے کے دوران شور اور کسی بھی قسم کی آلودگی مثلاً گرد و غبار، آبی آلودگی وغیرہ پھیلانے سے گریز کریں۔
- ◆ مسما شدہ ملبہ کو دوبارہ استعمال کرنے اور دوبارہ قابل استعمال کرنے کیلئے کسی لوکل ڈیلر/ٹھیکیدار کی خدمات حاصل کریں۔
- ◆ کوڑا کرکٹ اور دوبارہ ناقابل استعمال سامان کو متعلقہ میونسپل کمیٹی/کارپوریشن کی جانب سے مقرر کردہ مقام پر مناسب طریقے سے تلف کیا جائے۔
- ◆ لیبر کیپ کی زمین رجگہ کے مالک کے ساتھ طے شدہ معاہدے کے مطابق کام کریں اور کسی بھی قسم کے اختلاف یا جھگڑے سے گریز کریں۔
- ◆ جگہ کو متفقہ منصوبہ کے مطابق اسکے حوالے کیا جائے۔
- ◆ لیبر مزدوروں سے آئندہ کام یا مراعات کے چھوٹے وعدے ہرگز نہ کیے جائیں۔



انوائرنمنٹ اینڈ سوشل سیف گارڈ

پی ایم ڈی ایف سی

۱۳



سرگرمیاں

۱. تمام قسم کے تعمیراتی سرگرمیاں اور کام

مسائل

- انجریز اور چوٹیں وغیرہ
- نامناسب دیکھ بھال اور بروقت امداد نہ ملنے کی باعث ہلاکت
- دہشت گردی اور سیوریٹی سے متعلق خطرات

حفاظتی اقدامات

- تمام مزدوروں / لیبر سے مقامی / بین 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 سیوریٹی کے خطرات کے مطابق حکمت عملی کی بروقت تیاری اور ایک محفوظ و صحت مند ماحول مہیا کیا جائے۔
- مزدوروں / لیبر کیلیے ذاتی حفاظت کے سامان (PPEs) کی فراہمی مثلاً حفاظتی جوتے، ہیلیمٹ، ماسک، دستانے، حفاظتی لباس، چشمے، چہرے 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 میں 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 انہیں 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 ریسکیو 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 / سیوریٹی فراہم کرنے والے مقامی اداروں کو آگاہ رکھا جائے اور اس سلسلے میں متعلقہ میونسپل کمیٹی / رکارپوریشن کے تعاون سے موثر حکمت عملی تشکیل دی جائے۔

سرگرمیاں

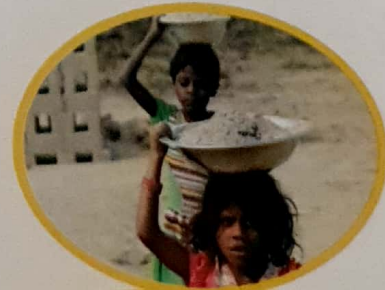
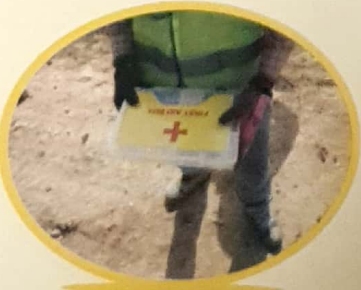
۲. تمام قسم کی تعمیراتی سرگرمیاں اور کنسٹرکشن کے کام

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 بٹیفٹ آرڈیننس 1958 کے مطابق حاملہ خواتین یا ایسی خواتین جنہوں نے چھ ہفتے قبل بچے 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۔





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

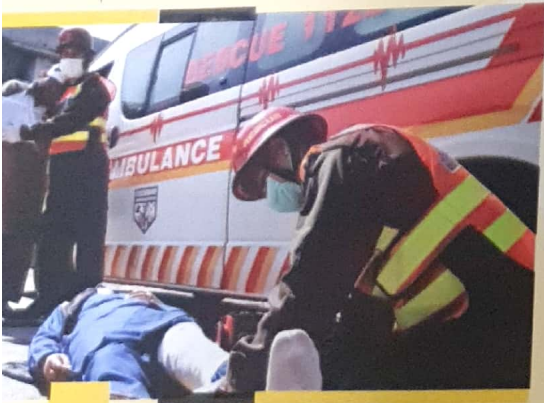
◆ تعمیراتی جگہ پر فرسٹ ایڈ باکس کی موجودگی کہ یقینی بنایا جائے اور فرسٹ ایڈ باکس میں تمام ضروری ادویات اور طبی امداد کا ضروری سامان موجود ہو۔

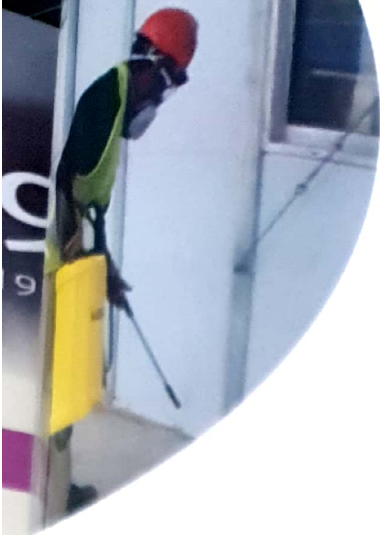
◆ تعمیراتی کاموں کے دوران پیش آنے والے حادثات بیمار یوں اور واقعات کا مکمل ریکارڈ رکھا جائے۔ اسی طرح حادثات کی نوعیت و وجوہات کا مکمل ریکارڈ موجود ہو۔

◆ 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۔





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
- ♦ چھردوں اور دیگر بیکٹیریا کی افزائش نسل کا ذریعہ

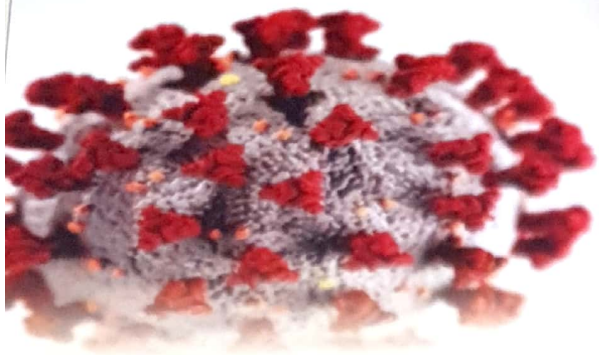
حفاظتی اقدامات

- ♦ 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 لئے 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 کھلانا نہ دیا جائے۔ اور روزانہ کی بنیاد پر متعلقہ میونسپل کمیٹی رکارڈ پر پوریشن کی جانب سے مقرر کردہ جگہ پر مناسب طریقے سے ٹھکانے لگایا جائے۔

پی ایم ڈی ایف سی

۱۷

انوائٹمنٹ اینڈ سوشل سیف گارڈز



COVID-19

CORONAVIRUS DISEASE 2019

سرگرمیاں

کرونا 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:











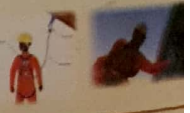
- ◆ کرونا وائرس کی وبا کے دنوں میں کنسٹرکشن سائٹ پر ہاتھ دھونے کیلئے پانی (پورٹ ایبل ہینڈ واشنگ کی سہولت) اور صابن مہیا کیا جائے اور لیبر کو بار بار صابن سے ہاتھ دھونے کی تلقین کی جائے۔
- ◆ لیبر کیمپس میں اور کنسٹرکشن سائٹ پر سوشل ڈسٹینسنگ (6m کا فاصلہ) کے اصولوں کو مدنظر رکھا جائے۔
- ◆ کرونا وائرس کی 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۔



تعمیراتی کاموں کے دوران خطرات / حادثات سے بچنے کیلئے سامان برائے ذاتی حفاظت کا خلاصہ

تصویریں	تجویز کردہ سامان برائے ذاتی حفاظت	تعمیراتی کام	مقصد
	حفاظتی عینکیں	اڑنے والے ذرات کا استعمال جیسے پکھلی ہوئی دھات مائع کیمیکل، گیسوں، اور بخارات، روشنی کی شعاعیں۔	آنکھوں اور چہرے کی حفاظت / تحفظ
	اوپر اور اطراف سے نقصان سے بچاؤ کیلئے پلاسٹک کے ہیلمٹ	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
	سماعت کی حفاظت کے آلہ جات جیسے کن پوٹس یا ایئر پلگ	کھدائی / شور پیدا کرنے والے کام یا بھاری مشینری استعمال کرنے کی وجہ سے شور۔	سماعت کی حفاظت / تحفظ
	پہننے اور گرنے والی اشیاء، مائع اور کیمیائی مواد سے بچاؤ کیلئے حفاظتی جوتے یا بوٹ	تمام تعمیراتی کام جن میں چیزوں کا گرنا یا گھمانا، نوکیلی اشیاء شامل ہوں۔ گلانے والا یا گرم مائع، کچرے کے ڈھیر سے کچرا اٹھانا۔	پاؤں کی حفاظت / تحفظ
	رہڑیا مصنوعی مواد (نیوروپین)، چمڑا، سٹیل، غیر موصل مواد سے بنے گلووز	جسمانی صحت کیلئے نقصان دہ سامان جیسے کچرے کو سنبھالنا، ایسے کام جس میں کاٹ یا گہرے زخم لگنے کا اندیشہ ہو، ارتعاش، بہت زیادہ درجہ حرارت۔	ہاتھوں کی حفاظت / تحفظ
	ایک جگہ سے دوسری جگہ لے جانے والے یا ایک ہی جگہ پڑے مواد کی فراہمی تعمیراتی جگہ پر بچاؤ کا سامان	دھول، دھند، شعلے، گیسوں، دھواں، بخارات	تحفظ تنفس
	چہرے کے ماسک جن میں دھول ہٹانے اور ہوا کو صاف رکھنے کیلئے (کیمیائی مواد، دھند، بخارات اور گیسوں سے) مناسب فلٹر لگے ہوں	آکسیجن کی کمی	جسم / ٹانگوں کی حفاظت / تحفظ
	مناسب میٹرل سے بنے غیر موصل کپڑے، اسپرن وغیرہ	تمام کام جن میں شدید درجہ حرارت، نقصان دہ مواد، حیاتیاتی ایجنٹ، چھوٹے یا گہرے زخم لگنے کا اندیشہ ہو	اونچائی پر کام کرتے ہوئے حفاظت
	ہیلمٹ، حفاظتی عینکیں، رسی کے گلووز اور ربڑ کے بوٹ	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
	اینٹکر، بیلٹ، رسی، کنیکٹر، سہاگہ جگہ اور ایک ساتھی فرد	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

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

(3) مقامی آبادی روکنا داروں اور رہائشیوں کی صحت، ماحولیات اور سماجیات سے متعلق رہنما اصول و حفاظتی تدابیر

سرگرمیاں

۱. تعمیراتی کاموں کے لئے منتخب کردہ مقام / جگہ پر کام کا آغاز

مسائل

- ◆ مقامی آبادی رہائشیوں کیلئے تعمیراتی کام کی عدم آگاہی
- ◆ لیبر مزدوروں کے داخلے سے رہائشی عورتوں کے پردے اور پرائیویسی کے مسائل
- ◆ مقامی آبادی کے ثقافتی، سماجی، مذہبی ورثہ، اور تاریخی مقامات و عمارتوں کو نقصان

حفاظتی اقدامات

تھیکیدار کو چاہئے کہ:

- ◆ متعلقہ میونسپل کمٹی کے انوائزمنٹ اینڈ سوشل فوکل پرسن (ز) منتخب کردہ اور متعلقہ ریجنل آفس میں موجود ڈپٹی پروگرام آفیسر (انوائزمنٹ اینڈ سوشل سیف گارڈز) کی موجودگی میں مقامی آبادی رہائشیوں اور دکانداروں کو تعمیراتی کام کے آغاز سے قبل تعمیراتی کام کی نوعیت، غرض و مقصد اور تکمیل کی معینہ مدت کے بارے میں مکمل آگاہی فراہم کرے۔
- ◆ تعمیراتی کام کے دوران پیش آنے والے ممکنہ سماجی اور ماحولیاتی مسائل اور ان کے مطابق حفاظتی اقدامات کے بارے میں مقامی رہائشیوں دکانداروں کو کام کے آغاز سے قبل مکمل آگاہی دی جائے۔
- ◆ تعمیراتی کام کے آغاز سے پہلے مقامی رہائشیوں اور دکانداروں کو تعمیراتی کاموں کی وجہ سے سماجی اور ماحولیاتی مسائل کی نکاحی ریشلیاں، تجاوز کیلئے مندرجہ ذیل رابطہ نمبرز کے بارے میں مکمل آگاہی فراہم کی جائے۔
 - (a) تھیکیدار کا موبائل ریٹیلیفون نمبر
 - (b) متعلقہ میونسپل کمٹی کارپوریشن کے فوکل پرسن (ز) کے رابطہ نمبرز
 - (c) متعلقہ (PCP) ریجنل آفس میں تعینات ڈپٹی پروگرام آفیسر (ESSs) کے رابطہ نمبرز
- ◆ تعمیراتی کام کے آغاز سے پہلے تعمیراتی مقام، جگہ کو فیتہ کی مدد سے باقی علاقہ سے الگ کر دیا جائے۔



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

(a) تعمیراتی کام کی نوعیت

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

(c) ایئر جیسی اور شکایت کیلئے رابطہ نمبرز

(d) (PMDFC) کی جانب سے جاری کردہ سماجی و ماحولیاتی پیغامات پر مبنی 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 آثارِ 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 نالوں 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

چٹھروں اور دیگر بیماری پھیلانے والے جراثیم کی افزائش کا ذریعہ

کھدائی کی جگہ پر گرنے اور حادثات کے خطرات

حفاظتی اقدامات

- ◆ تعمیر کے دوران کھدائی کے تمام مقامات کے ارد گرد حفاظتی ٹیپ رپٹی لگائی جائے اور کھدائی کی جگہ کو عارضی طور پر بند کر دیا جائے جس کے باہر اس جگہ سے دور رہنے کیلئے واضح پیغامات لکھے ہوں۔
- ◆ کھدائی سے حاصل شدہ مٹی رکنکر پتھر وغیرہ کو ایک دن سے زیادہ اس جگہ پر موجود نہ رہنے دیا جائے بلکہ روزانہ کی بنیاد پر متعلقہ میڈیکل کمیٹی رکارڈ پوریشن کی منتخب کردہ جگہ پر محفوظ طریقے سے ٹھکانے لگایا جائے۔
- ◆ نالوں کی صفائی سے حاصل شدہ بھل ریت وغیرہ کو ایک دن سے زیادہ اس جگہ پر موجود نہ رہنے دیا جائے بلکہ روزانہ کی بنیاد پر اٹھوایا جائے اور بھل و ایک جگہ سے دوسری جگہ منتقلی کے دوران ٹریکٹر/ٹرائی کو ترپال کی مدد سے ڈھانپ کر لے جایا جائے۔

سرگرمیاں

3- تعمیراتی مشینری / تعمیراتی مٹیریل اور تعمیراتی کاموں کی وجہ سے عارضی بندش

مسائل

- ◆ ٹریفک میں رکاوٹ۔

حفاظتی اقدامات

- ◆ ٹریفک میں ممکنہ رکاوٹ کے پیش نظر متبادل راستے کا انتخاب اور اس کی نشاندہی کیلئے پیغامات واضح درج کیے جائیں۔
- ◆ ٹریفک کونز (cones) کی مدد سے رکاوٹ والی جگہ کو الگ کر دیا جائے تاکہ حادثات سے بچا جاسکے۔
- ◆ ٹریفک میں زیادہ دنوں تک مسلسل رکاوٹ کی صورت میں مقامی ٹریفک پولیس کو آگاہ کیا جائے اور ان کے ساتھ مل کر ٹریفک مینجمنٹ پلان کو تشکیل دیا جائے جس کو واضح مقام پر نصب کیا جائے اور مقامی آبادی رہائشیوں کو اس کے بارے میں مکمل آگاہی دی جائے۔



پی ایم ڈی ایف سی

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انوائٹ مینٹ اینڈ سوشل سرف گارڈز ٹیم

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 گاہکوں کیلئے مشکلات
- مستقل و عارضی سائز لگا کر بیچنے والے چھوٹے بڑے مستقل دکانداروں کا گاہک کم ہو جانے 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 کیا 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 کو ادا کرے گا۔
- لیبر مزدور 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 کوئی میل جول نہ رکھیں۔
- تعمیراتی ٹیمپ لگانے، تعمیراتی کام کرنے یا مشینری اور تعمیراتی سامان رکھنے کے لیے عارضی طور پر حاصل کی گئی زمین کا کرایہ مالک مکان کو وقت پر ادا کیا جائے گا۔ اور تحریری معاہدے کی صورت میں ٹھیکیدار تمام قواعد و ضوابط کا پابند ہوگا۔
- تعمیراتی کاموں کی ٹیمپ وغیرہ لگانے کے لیے 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

- ◆ شورغل
- ◆ پانی کی آلودگی
- ◆ ہوائی آلودگی
- ◆ دیگر ماحولیاتی مسائل

حفاظتی اقدامات

- ◆ تعمیراتی علاقے میں موجود ہسپتالوں، سکولوں رکالوجوں وغیرہ اور رہائشی گھروں ردکانوں 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 عمارتوں پر ہائیکیوں اور ردکانوں 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 کیئے 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۔
- ◆ دائرہ پلائی کی سیکموں 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 خطرہ 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۔
- ◆ گردوغبار 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 پانی کی آلودگی، ہوائی آلودگی اور آبی آلودگی کے نمونہ جات حاصل کر کے ان کی جانچ پڑتال کرنا 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۔

* سپریم کورٹ آف پاکستان کے ممبر میسز نسرین 25 مئی 2009ء کو فیصلہ دیا کہ آف نرین فار کینال دو ایڈونٹک پراجیکٹ لاہور، تعمیراتی کاموں کے دوران ہر ایک درخت کی کٹائی کے متبادل چار درخت لگانے چاہئیں۔

انوائٹمنٹ اینڈ سوشل سیف گارڈ ٹیم

پی ایم ڈی ایف سی

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ترقیاتی منصوبوں کی تعمیر و مرمت کے دوران کام کرنے والے
مزدوروں، ورکرز، (بشمول خواتین لیبر / ورکرز) کی صحت، حفاظت
اور ماحول کے لئے معیاری اصول و ضوابط درج ذیل پالیسیز،
قوانین اور نوٹیفیکیشنز کا تجزیہ کر کے تجویز کئے گئے ہیں۔

- ◆ The Punjab Occupational Health & Safety Act, 2019
- ◆ General Environment, Health & Safety (EHS) Guidelines by International Finance Corporation (IFC), World Bank
- ◆ International Labour Standards of International Labour Organization (ILO)
- ◆ Punjab Tehsil/Town Municipal Administration (Works) Rules 2003 (Amendments 2016)
- ◆ The Punjab Restriction on Employment of Children Act, 2016
- ◆ The West Pakistan Maternity Benefit Ordinance, 1958
- ◆ ESF/Safeguards Interim Note: COVID-19 Considerations in Construction / Civil Works Projects - World Bank Guidelines
- ◆ Health & safety SOPs for Construction Workers/Sector for COVID 19
- ◆ Punjab Wildlife (Protection, Preservation, Conservation and Management) Act, 1974

