

## Punjab Cities Program

### PC-I Form for Construction of SWM Parking Area in Bahawalnagar City

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**PC-I FORM**  
for  
**Construction of SWM Parking Area in Bahawalnagar City**

*Project Serial Number*

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

<b>1. Name of the project</b>	<b>Punjab Cities Program Construction of SWM Parking Area in Bahawalnagar city</b>	
<b>2. Location</b>	Bahawalnagar city is the capital of Bahawalnagar district, and lies 192 miles south of Lahore and about 120 miles east of Bahawalpur. River Sutlej passes on the northern side at a distance of about 6 miles. The city coordinates are 30o-0' North latitude, and 73o-16' East longitude. Location map of the city is attached in <b>Annexure-A</b>	
<b>3. Authorities responsible for</b>		
i- Sponsoring	Government of the Punjab (through World Bank funding)	
ii- Execution	Municipal Committee Bahawalnagar	
iii- Operation and Maintenance	Municipal Committee Bahawalnagar	
iv- Concerned Provincial Department	Local Government and Community Development Department Punjab	
<b>4a. Plan Provision</b>		
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
	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 MCs & 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. 1329.90.00 million under ADP 2022-23 General Serial No 1769 as described above.
5. Project objectives and its relationship with sector objectives	<p><b><u>Sector Objectives</u></b> The sector objectives include:</p> <ol style="list-style-type: none"> <li>1. Provision of efficient and effective municipality services to the masses.</li> <li>2. Community development through improving basic infrastructure.</li> <li>3. Clean and green environment for better living standards.</li> <li>4. Effective use of land through master planning of urban areas.</li> <li>5. Social uplifting and cohesion through provision of public open spaces and play grounds.</li> <li>6. Ease in mobility and communication.</li> <li>7. Cost efficient Solid Waste Management through waste to energy initiatives.</li> <li>8. Capacity building of Local Governments.</li> <li>9. Efficient Road network to make areas easily accessible</li> </ol> <p><b><u>Objectives of the Project</u></b> The Punjab Cities Program aims at improvement of infrastructure of municipal services such as roads, 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 construction of Parking shed for SWM Machinery.</p> <p>The Project has the following objectives;</p>

	<ol style="list-style-type: none"> <li>1. Provision of suitable parking area for the MC Vehicles.</li> <li>2. Making MC self-sufficient in small repairs to the machinery &amp; Equipment possessed by MC</li> <li>3. Provision of a washing facilities for the vehicles</li> <li>4. Effective protection to the vehicles against the solar radiation and Ultraviolet rays, rain, hail, wind, and dust.</li> <li>5. Slowing down the deterioration of vehicles, therefore reducing the cost of maintenance.</li> <li>6. Enhancement of the security of vehicles during non-working hours.</li> <li>7. Better watch and ward of MC machinery and equipment and reduction of losses due to theft of equipment and spares.</li> <li>8. Provision of better solid waste management service by protection of the machinery and equipment.</li> </ol> <p>Hence, the objectives of the project are in line with the sector objectives at serial No-1, 2, 3 &amp; 7 and the project forms integral part of the concerned sector.</p>
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**6. Description, justification, technical parameters and technology transfer aspects**

<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>MC Bahawalnagar has some machinery and equipment which is already being used for collection and disposal of the solid waste. Under Punjab Cities Program modern, efficient and cost-effective machinery and equipment has been provided to MC Bahawalnagar for provision of better solid waste management facilities to the people of Bahawalnagar.</p> <p>At present, there is no appropriate parking space available with MC for the existing and newly procured machinery and equipment and dire need for parking area facility is being felt. Currently the solid waste machinery is being parked under open sky in various spaces available with MC. Absence of permanent parking space can cause machinery</p>
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	deterioration and compromise its safety that will lead to non-sustainability of solid waste management.																														
ii. Description of the subproject-	The project comprises of construction of Parking Area for solid waste management and other machinery and equipment possessed by MC over an area of 1.32 Kanals in the city. Detail of the components of Parking Area have been given in the table below.																														
iii Detail of civil works, equipment & machinery and other physical facilities	<p>The detail of Parking Shed for SWM Machinery to be constructed in the city, is given below: Location: Eid Gah Road near Purani Sabzi Mandi</p> <table border="1"> <thead> <tr> <th>S. N.</th> <th>Detail of works</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Boundary wall and Entrance gate</td> </tr> <tr> <td>2</td> <td>Sheds for vehicles with RCC structure</td> </tr> <tr> <td>3</td> <td>Parking aprons</td> </tr> <tr> <td>4</td> <td>Drainage for Shed</td> </tr> </tbody> </table>	S. N.	Detail of works	1	Boundary wall and Entrance gate	2	Sheds for vehicles with RCC structure	3	Parking aprons	4	Drainage for Shed																				
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iv Indicate governess issues of the sector relevant to the project and strategy to resolve them	<ul style="list-style-type: none"> <li>MC Bahawalnagar 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.</li> <li>The Repair and maintenance of the municipal services in 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 MCs are lacking at present. Hence inculcating the mind set for good repair and maintenance is the major requirement for improving the service delivery level.</li> </ul>																														
7- Capital Cost of Project	<p>The summary of the works included in the project is given below;</p> <table border="1"> <thead> <tr> <th>S. No</th> <th>Item of works</th> <th>Cost (PKR million)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>RCC Shed</td> <td>9.454</td> </tr> <tr> <td>2</td> <td>External Boundary Wall + Tuff Paver</td> <td>2.422</td> </tr> <tr> <td>3</td> <td>External Electrical Work</td> <td>1.736</td> </tr> <tr> <td>4</td> <td>Environmental Health &amp; Safety Cost</td> <td>0.112</td> </tr> <tr> <td>5</td> <td>Dismantling Work</td> <td>0.287</td> </tr> <tr> <td></td> <td style="text-align: right;"><b>Total cost</b></td> <td><b>14.013</b></td> </tr> <tr> <td></td> <td>Contingencies @2%</td> <td>0.280</td> </tr> <tr> <td></td> <td>Punjab Sales Tax @5%</td> <td>0.700</td> </tr> <tr> <td></td> <td style="text-align: right;"><b>Grand Total</b></td> <td><b>14.994</b></td> </tr> </tbody> </table> <p>See Annexure-B for details</p>	S. No	Item of works	Cost (PKR million)	1	RCC Shed	9.454	2	External Boundary Wall + Tuff Paver	2.422	3	External Electrical Work	1.736	4	Environmental Health & Safety Cost	0.112	5	Dismantling Work	0.287		<b>Total cost</b>	<b>14.013</b>		Contingencies @2%	0.280		Punjab Sales Tax @5%	0.700		<b>Grand Total</b>	<b>14.994</b>
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i- Indicate date of estimation of the project cost	The project estimates have been framed during the month of August, 2022																																								
ii- Basis of determining the estimates be provided.	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 Bahawalnagar 2 <sup>nd</sup> Bi-Annual of year 2022). For items not available in the MRS, the same have been analyzed as per prevailing market rates.																																								
iii- Provide year wise estimation of physical activities	<p>Physical phasing of the project is included in the following table:</p> <table border="1" data-bbox="491 651 1345 898"> <thead> <tr> <th>S. #</th> <th>Item of works</th> <th>Year 2022-2023</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Boundary wall and gate</td> <td>100%</td> </tr> <tr> <td>2</td> <td>Sheds for vehicles with RCC structure</td> <td>100%</td> </tr> <tr> <td>3</td> <td>Drainage system for shed</td> <td>100%</td> </tr> <tr> <td>4</td> <td>Contingencies &amp; PRS Taxes</td> <td>100%</td> </tr> </tbody> </table>	S. #	Item of works	Year 2022-2023	1	Boundary wall and gate	100%	2	Sheds for vehicles with RCC structure	100%	3	Drainage system for shed	100%	4	Contingencies & PRS Taxes	100%																									
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iv- Phasing of capital cost on the basis of each item of work.	<p>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="491 987 1345 1559"> <thead> <tr> <th>S. #</th> <th>Items of Shed</th> <th>Total cost (Million Rs)</th> <th>Year 2022-2023 (Million Rs)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>RCC Shed</td> <td>9.454</td> <td>9.454</td> </tr> <tr> <td>2</td> <td>External Boundary Wall + Tuff Paver</td> <td>2.422</td> <td>2.422</td> </tr> <tr> <td>3</td> <td>External Electrical Work</td> <td>1.736</td> <td>1.736</td> </tr> <tr> <td>4</td> <td>Environmental Mitigation Cost</td> <td>0.112</td> <td>0.112</td> </tr> <tr> <td>5</td> <td>Dismantling Work</td> <td>0.287</td> <td>0.287</td> </tr> <tr> <td></td> <td><b>Project Cost</b></td> <td><b>14.013</b></td> <td><b>14.013</b></td> </tr> <tr> <td></td> <td>Contingencies @2%</td> <td>0.280</td> <td>0.280</td> </tr> <tr> <td></td> <td>Punjab Sales Tax @5%</td> <td>0.700</td> <td>0.700</td> </tr> <tr> <td></td> <td><b>Total Cost</b></td> <td><b>14.994</b></td> <td><b>14.994</b></td> </tr> </tbody> </table>	S. #	Items of Shed	Total cost (Million Rs)	Year 2022-2023 (Million Rs)	1	RCC Shed	9.454	9.454	2	External Boundary Wall + Tuff Paver	2.422	2.422	3	External Electrical Work	1.736	1.736	4	Environmental Mitigation Cost	0.112	0.112	5	Dismantling Work	0.287	0.287		<b>Project Cost</b>	<b>14.013</b>	<b>14.013</b>		Contingencies @2%	0.280	0.280		Punjab Sales Tax @5%	0.700	0.700		<b>Total Cost</b>	<b>14.994</b>	<b>14.994</b>
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8-Annual recurrent cost after completion of the project and source of financing	Cost in Million = Rs. 0.440 (Details attached in Annexure-1)																																								
9- Demand & Supply Analysis  i- Existing Capacity of services	<p><b>Existing supply level</b></p> <ul style="list-style-type: none"> <li>• There is no existing parking facility for the SWM machinery. Resultantly the vehicles are parked at open spaces with no protection.</li> <li>• MC Bahawalnagar is unable to protect the solid waste transportation and other MC vehicles because of non-availability of appropriate parking area.</li> </ul>																																								

<p>ii- Projected Demand for 10 years</p>	<p>The Parking area is required to park and protect the solid waste transportation and other MC vehicles.</p> <ul style="list-style-type: none"> <li>•The influence and value of parking spaces in planning for livable communities is very essential. Parking space is more than a necessary element of larger residential or commercial uses; it merits consideration as a distinct land use that affects travel behavior and the environment. The provision of parking lots reduces the congestion on streets and roads and improves traffic flow. District Bahawalnagar lacks parking space for the SWM Machinery which are therefore parked in open or rental spaces. The proposal is to construct a parking shed for SWM machinery to accommodate a total of 10 vehicles.</li> <li>•The municipal services require radical improvement to enhance the efficiency of the service to increase service delivery to a satisfactory level.</li> <li>•Many shortcomings, problems and bottlenecks have been observed in the present situation which could not be addressed by MC due to funding constraints and now have been proposed to be addressed by the construction of the municipal services infrastructure.</li> </ul>												
<p>iii- Capacity of other similar projects being implemented in public/private sector</p>	<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>												
<p>iv- Supply and Demand gaps</p>	<p>As explained above there is no parking area in Bahawalnagar City for solid waste transportation and other MC vehicles. So there is a large gap between the supply and demand.</p>												
<p>v-Designed capacity and output of the project</p>	<p>1)-Table showing details of the parking area is given below:</p> <table border="1" data-bbox="448 1435 1410 1798"> <thead> <tr> <th rowspan="2">Location</th> <th rowspan="2">Components</th> <th rowspan="2">No. of Sheds</th> <th colspan="2">Area</th> </tr> <tr> <th>Total area</th> <th>Shed area &amp; Nos.</th> </tr> </thead> <tbody> <tr> <td>Eid Gah Road near Purani Sabzi Mandi</td> <td>As listed in section-7</td> <td>02 (1 existing+ 1 proposed)</td> <td>1.32 Kanals</td> <td>1 No= 133'x26'</td> </tr> </tbody> </table> <p>2)-Parking shed is designed for 10-year life. 3)-This Parking shed is designed for 10 vehicles of SWM Machinery.</p>	Location	Components	No. of Sheds	Area		Total area	Shed area & Nos.	Eid Gah Road near Purani Sabzi Mandi	As listed in section-7	02 (1 existing+ 1 proposed)	1.32 Kanals	1 No= 133'x26'
Location	Components				No. of Sheds	Area							
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Eid Gah Road near Purani Sabzi Mandi	As listed in section-7	02 (1 existing+ 1 proposed)	1.32 Kanals	1 No= 133'x26'									

<b>10. Financial Plan</b> <b>Sources of financing</b>	Below given loan for the Punjab Cities Program has been funded by World Bank for 16 PCP cities in Punjab.													
<u>Debt</u>	<table border="1"> <tr> <td data-bbox="483 248 1134 293">Total loan to Government of Pakistan/Punjab</td> <td data-bbox="1134 248 1382 293">USD 200 million</td> </tr> <tr> <td data-bbox="483 293 1134 338">Component-1 for Infrastructure Development</td> <td data-bbox="1134 293 1382 338">USD 180 million</td> </tr> <tr> <td data-bbox="483 338 1134 461">Component-2 for Investment Project Financing For capacity building of MCs &amp; three Govt. organization and program management.</td> <td data-bbox="1134 338 1382 461">USD 20 million</td> </tr> <tr> <td data-bbox="483 461 1134 506">20% share of Municipalities is equivalent to</td> <td data-bbox="1134 461 1382 506">USD 36 million</td> </tr> <tr> <td data-bbox="483 506 1134 595">Total funds available for Infrastructure Development</td> <td data-bbox="1134 506 1382 595">USD 216 million</td> </tr> <tr> <td colspan="2" data-bbox="483 595 1382 640">This project will be funded under this financing.</td> </tr> </table>		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	This project will be funded under this financing.	
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This project will be funded under this financing.														
a) Indicate the local and foreign debt Loan														
b) Equity	<p><b>A. Loan/grant to MC</b>          The amount of loan converted to grant to MC Bahawalnagar will be Rs <b>11.995 million</b>. The financing of the project will be as given below:</p> <table border="1"> <tr> <td data-bbox="496 819 1031 898">Grant to MC Bahawalnagar from World Bank (80% of cost of PC-I)</td> <td data-bbox="1031 819 1390 898">PKR 11.995 million</td> </tr> <tr> <td data-bbox="496 898 1031 965">20% Co-finance by MC</td> <td data-bbox="1031 898 1390 965">PKR 2.998 million</td> </tr> <tr> <td data-bbox="496 965 1031 1032">Total cost of project</td> <td data-bbox="1031 965 1390 1032">PKR 14.994 million</td> </tr> </table> <p><b>B. Project Cost =Rs. 14.994 million</b></p> <p>*The loan is from World Bank to Government of Pakistan/Punjab which will trickle down to MC Bahawalnagar as grant.</p>		Grant to MC Bahawalnagar from World Bank (80% of cost of PC-I)	PKR 11.995 million	20% Co-finance by MC	PKR 2.998 million	Total cost of project	PKR 14.994 million						
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Total cost of project	PKR 14.994 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 MC from Government of Punjab.													
d) Weighted cost of capital	Nil													
<b>11-Project benefits and analysis</b>														
i. Financial: Income to the project with assumption	<ul style="list-style-type: none"> <li>• No income will be generated from the project and hence the Financial Analysis is not required.</li> <li>• It is a social sector project and the capital cost of the project is not intended to be recovered. MC will meet the cost of repair and maintenance out of its own resources. The project economic analysis is given as <b>Annexure-C</b>.</li> </ul>													



<p>ii.Social benefits to the target group</p>	<p>The completion of the project will result in:</p> <ul style="list-style-type: none"> <li>• Provision of suitable parking area for the MC Vehicles.</li> <li>• Making MC self-sufficient in small repairs to the machinery &amp; Equipment possessed by MC</li> <li>• Provision of a washing facilities for the vehicles</li> <li>• Effective protection to the vehicles against the solar radiation and Ultraviolet rays, rain, hail, wind, and dust.</li> <li>• Slowing down the deterioration of vehicles, therefore reducing the cost of maintenance.</li> <li>• Enhancement of the security of vehicles during non-working hours.</li> <li>• Better watch and ward of MC machinery and equipment and reduction of losses due to theft of equipment and spares.</li> <li>• Provision of better solid waste management service by protection of the machinery and equipment.</li> </ul>
<p>iii.Environmental Impact negative/positive</p>	<p>Primary and secondary data has been collected and used to assess the environmental impacts of the proposed Parking Area. Site visit was conducted to the project area for the proposed works and to assess the baseline in order to evaluate whether there are any key receptors that will need to be considered during the project works to prevent any long term and irreversible impacts. The activities to be conducted under the project were screened for potential impacts at the design/pre-construction, construction and operation phases of the Parking Sheds. This 'activity wise' screening enabled to obtain a clear picture of the expected level of impacts resulting from the different activities and helped identify required mitigation measures to mitigate them to within acceptable limits as per the guidelines provided by the World Bank in the form of Environment and Social Management Framework. However, the impacts will be temporary and there will be no negative impacts after completion of the project, rather, during the operation phase of the Parking Sheds, mostly positive impacts are expected. 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 Checklist has 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 remarks of the screening checklist, Environment and Social Management Plans (ESMPs) does not need to be prepared. However, the necessary cost for Environment Health and Safety of Workers has been incorporated in the PC-1. The Environment, Health and Safety SOPs for labor/workers are provided as Annexure E (B).</p>

iv. Quantifiable project outputs	The quantifiable project outputs have been given above in Sr. No-9 (V). The social benefits to the citizen have been described at Sr. No-11(ii).												
v. Unit cost analysis	<p><b>A) Capital Unit Cost</b> The unit cost analysis is produced below;</p> <table border="1" data-bbox="369 178 495 1046"> <tr> <td>Project capital cost</td> <td>PKR 14,994 million</td> </tr> <tr> <td>Population of the city in year 2023</td> <td>251,029 persons</td> </tr> <tr> <td>Unit capital cost per capita</td> <td>PKR 59.73</td> </tr> </table> <p><b>B)-Unit R&amp;M cost:</b></p> <table border="1" data-bbox="577 178 703 1046"> <tr> <td>Annual R&amp;M cost</td> <td>440,131</td> </tr> <tr> <td>Population of the city in year 2023</td> <td>251,029 persons</td> </tr> <tr> <td>Unit R&amp;M cost per capita</td> <td>1.75</td> </tr> </table>	Project capital cost	PKR 14,994 million	Population of the city in year 2023	251,029 persons	Unit capital cost per capita	PKR 59.73	Annual R&M cost	440,131	Population of the city in year 2023	251,029 persons	Unit R&M cost per capita	1.75
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Unit R&M cost per capita	1.75												
vi. Employment generation (direct and indirect)	<p><b>Employment Analysis</b> <b>Direct Employment</b></p> <p><b>a) Planning and Design of projects</b> The planning and design of the project has been entrusted to local consultants (JERS Consultancy) who have appointed staff and experts in Structural designing 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>b) Execution of the Project</b></p> <p><b>a) PMDFC</b> 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"> <li>• Civil Engineers</li> <li>• Accounts, administration and audit personnel</li> <li>• Urban planners</li> <li>• GIS experts</li> <li>• Support staff like computer operators, vehicle drivers, office boys and guards.</li> <li>• Procurement experts</li> <li>• Communication experts</li> <li>• Environmental and social experts</li> <li>• Contract management experts</li> </ul> <p><b>b) Consultants</b> PMDFC has employed consultants for detailed design and resident supervision of the projects who have deployed their staff for detailed design and resident supervision of the project.</p>												

	<p><b>c) Municipality</b> MC Bahawalnagar has regular staff like engineers, sub engineers and other administrative &amp; 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><b>d) Contractor</b> The contractor responsible for execution of the sub project will employ skilled and un-skilled labor on this work.</p> <p><b>Indirect Employment</b> Indirect employment for production of material such as cement, steel, stone metal, bitumen, bricks etc. will be generated.</p> <p>The impact of delay in project implementation will result in;</p> <ul style="list-style-type: none"> <li>• Increased project cost due to escalation in cost of material and labor.</li> <li>• Deterioration of vehicles due to weathering effects</li> <li>• Recurrent watch and ward problems for the delayed period</li> </ul>
<p>ii. Impacts of delays on project cost and viability</p>	<p><b>2-Implementation Schedule</b></p> <p>Indicate starting and completion date of the project</p> <p>Item wise/year wise schedule in line chart</p>
<p><b>i- Management Structure and manpower requirements</b></p> <p>Administrative arrangements for the implementation of the project</p>	<p>The project is anticipated to commence by October, 2022 and to be completed by March, 2023 with project implementation period of 06 months.</p> <p>The Gant chart has been attached at <b>Annexure-D</b></p>
<p><b>ii. Planning &amp; design of the project</b> The project has been designed by the consultants employed by PMDFC and will also carry out the resident supervision of the project.</p> <p><b>iii. Preparation of cost estimation</b> The cost estimates have been prepared by the design consultants by actual measurements and requirements at site. The execution of the items of works included in these estimates /PC-I will be certified by these consultants.</p> <p><b>iv. Execution of the project</b></p> <ul style="list-style-type: none"> <li>• The project will be executed by MC Bahawalnagar and supervised by the Consultants appointed by PMDFC in resident supervision mode. The technical staff &amp; experts in PMDFC will oversee, co-ordinate and collaborate in the project planning, design and implementation through their experts in head office</li> </ul>	

	<p>located in Lahore and regional offices. The reporting of progress to LG &amp; CDD &amp; World bank and troubleshooting will also be responsibility of PMDFC.</p> <ul style="list-style-type: none"> <li>• MO (I&amp;S) of the MC 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 MC.</li> <li>• The procurement of works and goods will be done by Procurement Committee of Bahawalnagar Unit as per PPR Rules.</li> </ul> <p><b>v. Verification of quantities included in PC-Is and Resident Supervision of the works by consultants</b>  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 MC after these contractor 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><b>a) PMDFC experts and staff</b>  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>b) Resident Supervision Consultants</b>  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>

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

**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.

**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;

- Fill up the presently vacant slots
- Recruit additional staff as per need of the infrastructure after obtaining the sanctions from the competent authorities.

**1) Shortage & frequent transfers of Provincially appointed staff**

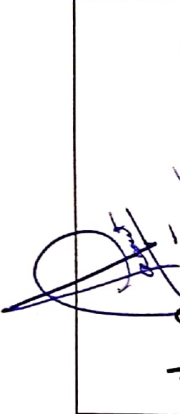

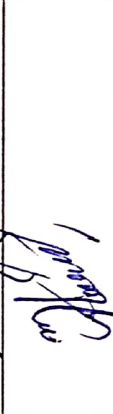

MC is facing shortage in provincially appointed and locally appointed cadres. This will seriously affect the pace of progress of the program and the implementation of the infrastructure projects may be delayed. Provincial Government should fill up the vacant staff immediately for optimizing the investments in MC.

**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

14-Additional projects /decisions required to optimize the investment being undertaken

	<p>allowed to recruit the persons to fill these slots due to ban on recruitments.</p> <p>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.</p> <p>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	<p>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.</p>

Prepared by	JERS Consultancy (Pvt) Ltd	Stamp & Signatures	
Checked by	Municipal Officer (Infrastructure) MC Bahawalnagar	Stamp & Signatures	
	Chief Officer MC Bahawalnagar	Stamp & Signatures	
Forwarded by	Administrator MC Bahawalnagar	Stamp & Signatures	


Vetted



**Deputy Program Officer**  
Infrastructure Development  
Punjab Cities

**Program Officer-1**  
Infrastructure Development  
Punjab Cities Program-Lahore

ch



**Senior Program Officer**  
Infrastructure Development  
Punjab Cities Program