



Local Government & Community Development Department

Punjab Cities Program Improvement and Rehabilitation of Roads & Chowks

in MC Wazirabad

PC-I

Estimated Cost PKR 200.89 Million

November 2022

Municipal Committee Wazirabad



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Punjab Cities Program

PC-I Form for Improvement of Roads & Chowks Project in Wazirabad City

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PC-I FORM
for
Improvement & Rehabilitation of Roads & Chowks Project
in Wazirabad City

Project Serial Number

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

Sub Sector: **Social**

1. Name of the project	Punjab Cities Program Improvement & Rehabilitation of Roads & Chowks Project in Wazirabad city	
2.Location	Wazirabad is situated on the banks of the Chenab River nearly 100 kilometres north of Lahore on the Grand Trunk Road. It is 45 kilometres from Sialkot, 30 kilometres from the district capital - Gujranwala and about 12 kilometres from Gujrat. The city is located at a distance of 190 Kilometres from Islamabad on the Grand Trunk Road. It has 32°26' North latitude and 74° 07' East longitude and elevation of 230 meters (755 feet) above mean sea level. 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	Municipal Committee Wazirabad	
iii- Operation and Maintenance	Municipal Committee Wazirabad	
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

	<p>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 2021-22 - under General Serial No-2521 with allocation of PKR 100.00 million as foreign component.</p>
<p>ii- If not included in the current plan, what warrants its inclusion and how it is now proposed to be accommodated</p>	<p>Not applicable</p>
<p>iii If the project is proposed to be financed out of block provision indicate.</p>	<p>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.</p>
<p>4b- Provision in the current year PSDP/ADP</p>	<p>PKR.100.00 million under ADP 2021-22 General Serial No 2521 for Component-2 of the Program i-e Technical Assistance as described above.</p>
<p>5. Project objectives and its relationship with sector objectives</p>	<p><u>Sector Objectives</u> 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> 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</p>

	<p>with the construction of new drainage system where needed. However, the cleaning and de-silting of existing drains and pipes will be arranged by MC Wazirabad 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 04 Nos damaged roads with total length of 5.72 Km and 02 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	P1-Arif Shaheed Road & Double Railway crossing road	Telephone Exchange Chowk to Railway Crossing Nizamabad & HBL to Allahwala Chowk Via Double Railway <ul style="list-style-type: none"> • Geometric Improvement • Rehabilitation of Existing Pavement Structure • Pavement Marking • Street Lighting • Improvement of drainage system
	2	P2-Awa Road	City Park to Dhounkal Road <ul style="list-style-type: none"> • Geometric Improvement • Rehabilitation of Existing Pavement Structure • Pavement Marking • Street Lighting • Improvement of drainage system
	3	P7- Western Circular Road	Veterinary Hospital to G.T Road via Railway Station <ul style="list-style-type: none"> • Geometric Improvement • Rehabilitation of Existing Pavement Structure • Pavement Marking • Street Lighting • Improvement of drainage system
4	P8- Bank of Nallah Palkhu & Railway Colony Road	G.T Road to Bypass Road via Slaughter House & Railway Colony Road <ul style="list-style-type: none"> • Geometric Improvement • Rehabilitation of Existing Pavement Structure • Pavement Marking • Improvement of drainage system 	

	• Chowks or Cross Roads	
	S. N.	Name of Chowk
	1	CP-2 Telephone Exchange 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	CP-3 Haji Pura 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
iv	Indicate governess issues of the sector relevant to the project and strategy to resolve them	
	<ul style="list-style-type: none"> • Municipal Committee Wazirabad 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. 	

7- Capital Cost of Project	<p>The summary of the works included in the project is given below;</p> <table border="1" data-bbox="544 282 1485 1108"> <thead> <tr> <th data-bbox="544 282 651 383">S. No</th> <th data-bbox="651 282 1268 383">Name of road</th> <th data-bbox="1268 282 1485 383">Cost (PKR million)</th> </tr> </thead> <tbody> <tr> <td data-bbox="544 383 651 470">1</td> <td data-bbox="651 383 1268 470">P1-Arif Shaheed Road & Double Railway crossing road</td> <td data-bbox="1268 383 1485 470">39.16</td> </tr> <tr> <td data-bbox="544 470 651 517">2</td> <td data-bbox="651 470 1268 517">P2-Awa Road</td> <td data-bbox="1268 470 1485 517">6.30</td> </tr> <tr> <td data-bbox="544 517 651 564">3</td> <td data-bbox="651 517 1268 564">P7- Western Circular Road</td> <td data-bbox="1268 517 1485 564">37.42</td> </tr> <tr> <td data-bbox="544 564 651 651">4</td> <td data-bbox="651 564 1268 651">P8- Bank of Nallah Palkhu & Railway Crossing</td> <td data-bbox="1268 564 1485 651">30.96</td> </tr> <tr> <td data-bbox="544 651 651 698">5</td> <td data-bbox="651 651 1268 698">CP-2 Telephone Exchange Chowk</td> <td data-bbox="1268 651 1485 698">6.64</td> </tr> <tr> <td data-bbox="544 698 651 745">6</td> <td data-bbox="651 698 1268 745">CP-3 Haji Pura Chowk</td> <td data-bbox="1268 698 1485 745">7.20</td> </tr> <tr> <td data-bbox="544 745 651 792">7</td> <td data-bbox="651 745 1268 792">Drainage System</td> <td data-bbox="1268 745 1485 792">16.25</td> </tr> <tr> <td data-bbox="544 792 651 840"></td> <td data-bbox="651 792 1268 840">Electrical Works</td> <td data-bbox="1268 792 1485 840">39.30</td> </tr> <tr> <td data-bbox="544 840 651 887">8</td> <td data-bbox="651 840 1268 887">Environment Health Safety Budget</td> <td data-bbox="1268 840 1485 887">1.64</td> </tr> <tr> <td data-bbox="544 887 651 934"></td> <td data-bbox="651 887 1268 934">Total</td> <td data-bbox="1268 887 1485 934">187.75</td> </tr> <tr> <td data-bbox="544 934 651 981">9</td> <td data-bbox="651 934 1268 981">Contingencies @2%</td> <td data-bbox="1268 934 1485 981">3.75</td> </tr> <tr> <td data-bbox="544 981 651 1028">10</td> <td data-bbox="651 981 1268 1028">Punjab Sales Tax @5%</td> <td data-bbox="1268 981 1485 1028">9.38</td> </tr> <tr> <td data-bbox="544 1028 651 1075"></td> <td data-bbox="651 1028 1268 1075">Grand Total</td> <td data-bbox="1268 1028 1485 1075">200.89</td> </tr> </tbody> </table> <p data-bbox="544 1075 1485 1160">See Annexure-B for details</p>	S. No	Name of road	Cost (PKR million)	1	P1-Arif Shaheed Road & Double Railway crossing road	39.16	2	P2-Awa Road	6.30	3	P7- Western Circular Road	37.42	4	P8- Bank of Nallah Palkhu & Railway Crossing	30.96	5	CP-2 Telephone Exchange Chowk	6.64	6	CP-3 Haji Pura Chowk	7.20	7	Drainage System	16.25		Electrical Works	39.30	8	Environment Health Safety Budget	1.64		Total	187.75	9	Contingencies @2%	3.75	10	Punjab Sales Tax @5%	9.38		Grand Total	200.89
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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.	<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 Gujranwala 2nd biannual of year 2022).</p> <p>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 719"> <thead> <tr> <th>S. #</th> <th>Name of road / chowk</th> <th>Year 2022-2023</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P1-Arif Shaheed Road & Double Railway crossing road</td> <td>100%</td> </tr> <tr> <td>2</td> <td>P2-Awa Road</td> <td>100%</td> </tr> <tr> <td>3</td> <td>P7- Western Circular Road</td> <td>100%</td> </tr> <tr> <td>4</td> <td>P8- Bank of Nallah Palkhu & Railway Crossing</td> <td>100%</td> </tr> <tr> <td>5</td> <td>CP-2 Telephone Exchange Chowk</td> <td>100%</td> </tr> <tr> <td>6</td> <td>CP-3 Haji Pura Chowk</td> <td>100%</td> </tr> </tbody> </table>	S. #	Name of road / chowk	Year 2022-2023	1	P1-Arif Shaheed Road & Double Railway crossing road	100%	2	P2-Awa Road	100%	3	P7- Western Circular Road	100%	4	P8- Bank of Nallah Palkhu & Railway Crossing	100%	5	CP-2 Telephone Exchange Chowk	100%	6	CP-3 Haji Pura Chowk	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="539 981 1490 1827"> <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>P1-Arif Shaheed Road & Double Railway crossing road</td> <td>39.16</td> <td>39.16</td> </tr> <tr> <td>2</td> <td>P2-Awa Road</td> <td>6.30</td> <td>6.30</td> </tr> <tr> <td>3</td> <td>P7- Western Circular Road</td> <td>37.42</td> <td>37.42</td> </tr> <tr> <td>4</td> <td>P8- Bank of Nallah Palkhu & Railway Crossing</td> <td>30.96</td> <td>30.96</td> </tr> <tr> <td>5</td> <td>CP-2 Telephone Exchange Chowk</td> <td>6.64</td> <td>6.64</td> </tr> <tr> <td>6</td> <td>CP-3 Haji Pura Chowk</td> <td>7.20</td> <td>7.20</td> </tr> <tr> <td>7</td> <td>Drainage System</td> <td>16.25</td> <td>16.25</td> </tr> <tr> <td>8</td> <td>Electrical Works</td> <td>39.30</td> <td>39.30</td> </tr> <tr> <td>9</td> <td>Environment Health Safety Budget</td> <td>1.64</td> <td>1.64</td> </tr> <tr> <td></td> <td>Total work outlay</td> <td>187.75</td> <td>187.75</td> </tr> <tr> <td>10</td> <td>PST, contingencies, public awareness and Horticulture</td> <td>13.13</td> <td>13.13</td> </tr> <tr> <td></td> <td>Total project cost (Millions)</td> <td>200.89</td> <td>200.89</td> </tr> </tbody> </table>	S. #	Items of Road/chowk	Total (PKR million)	Year 2022-2023 (100%)	1	P1-Arif Shaheed Road & Double Railway crossing road	39.16	39.16	2	P2-Awa Road	6.30	6.30	3	P7- Western Circular Road	37.42	37.42	4	P8- Bank of Nallah Palkhu & Railway Crossing	30.96	30.96	5	CP-2 Telephone Exchange Chowk	6.64	6.64	6	CP-3 Haji Pura Chowk	7.20	7.20	7	Drainage System	16.25	16.25	8	Electrical Works	39.30	39.30	9	Environment Health Safety Budget	1.64	1.64		Total work outlay	187.75	187.75	10	PST, contingencies, public awareness and Horticulture	13.13	13.13		Total project cost (Millions)	200.89	200.89
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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 Municipal Committee Wazirabad 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. • Municipal Committee Wazirabad 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 MC 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. 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</p>	<ul style="list-style-type: none"> • Traffic is increasing day by day in Wazirabad city. Projected traffic of 4 project roads for 10 year is 151 million. Project roads of MC Wazirabad 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.
<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>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 MC 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. <p>Hence there is a large gap between the supply and demand which is to be bridged by improvement in the infrastructure and its management.</p>																																								
<p>v-Designed capacity and output of the project</p>	<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 1294 1489 2056"> <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</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P1-Arif Shaheed Road & Double Railway crossing road</td> <td>Telephone Exchange Chowk to Railway Crossing Nizamabad & HBL to Allahwala Chowk Via Double Railway</td> <td>Asphalt Concrete & Tuff Paver</td> <td>38 ft (Varies)</td> <td>Single</td> <td>32 ft (varies)</td> <td>2.30 km</td> </tr> <tr> <td>2</td> <td>P2-Awa Road</td> <td>City Park to Dhounkal Road</td> <td>Tuff Paver</td> <td>17 ft (Varies)</td> <td>Single</td> <td>-</td> <td>0.53 km</td> </tr> <tr> <td>3</td> <td>P7- Western Circular Road</td> <td>Veterinary Hospital to G.T Road via Railway Station</td> <td>Asphalt Concrete & Tuff Paver</td> <td>27 ft (varies)</td> <td>Single</td> <td>-</td> <td>1.19 km</td> </tr> <tr> <td>4</td> <td>P8- Bank of Nallah Palkhu & Railway Colony Road</td> <td>G.T Road to Bypass Road via Slaughter House</td> <td>Asphalt Concrete</td> <td>16 ft</td> <td>Single</td> <td>16 ft</td> <td>1.7 km</td> </tr> </tbody> </table>	Sr. #	Road Name	From and To	Pavement Type	ROW	Carriageway Type	Metaled Width	Length	1	P1-Arif Shaheed Road & Double Railway crossing road	Telephone Exchange Chowk to Railway Crossing Nizamabad & HBL to Allahwala Chowk Via Double Railway	Asphalt Concrete & Tuff Paver	38 ft (Varies)	Single	32 ft (varies)	2.30 km	2	P2-Awa Road	City Park to Dhounkal Road	Tuff Paver	17 ft (Varies)	Single	-	0.53 km	3	P7- Western Circular Road	Veterinary Hospital to G.T Road via Railway Station	Asphalt Concrete & Tuff Paver	27 ft (varies)	Single	-	1.19 km	4	P8- Bank of Nallah Palkhu & Railway Colony Road	G.T Road to Bypass Road via Slaughter House	Asphalt Concrete	16 ft	Single	16 ft	1.7 km
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4	P8- Bank of Nallah Palkhu & Railway Colony Road	G.T Road to Bypass Road via Slaughter House	Asphalt Concrete	16 ft	Single	16 ft	1.7 km																																		

	<ol style="list-style-type: none"> 2. One 3 legs chowk (CP-2 Telephone Exchange Chowk), connecting with Sialkot-Wazirabad Road & Circular Road, second 6 leg Chowk (CP-3 Haji Pura Chowk) connecting with Sialkot Wazirabad Road, Daska Wazirabad Road & Govt College Road. 3. Roads and chowk are designed for 10-year life. 4. These roads will carry out the 151 Million traffic cumulatively for 10 years. 5. Improvement of these roads and chowk will decrease the travel time of commuters which will ultimately improve the economy of city. 												
10. Financial Plan Sources of financing <u>Debt</u> a) Indicate the local and foreign debt Loan	<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"> <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> <tr> <td colspan="2">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.	
Total loan to Government of Pakistan/Punjab	USD 200 million												
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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.													
b) Equity	<p>A. Loan/grant to MC</p> <p>The amount of loan converted to grant to Wazirabad Unit will be 160,716,089 PKR. (160.71) million. The financing of the project will be as given below:</p> <table border="1"> <tr> <td>Grant to Unit for the year 2022-2023 (80% of cost of PC-I)</td> <td>PKR 160.71million</td> </tr> <tr> <td>20% Co-finance by MC (20% of the cost of PC-I)</td> <td>PKR 40.17 million</td> </tr> <tr> <td>Total available funds</td> <td>PKR 160.71 million</td> </tr> </table> <p>B. Project Cost PKR 200.89 million</p> <p>*The loan is from World Bank to Government of Pakistan/Punjab which will trickle down to Wazirabad Unit as grant.</p>	Grant to Unit for the year 2022-2023 (80% of cost of PC-I)	PKR 160.71million	20% Co-finance by MC (20% of the cost of PC-I)	PKR 40.17 million	Total available funds	PKR 160.71 million						
Grant to Unit for the year 2022-2023 (80% of cost of PC-I)	PKR 160.71million												
20% Co-finance by MC (20% of the cost of PC-I)	PKR 40.17 million												
Total available funds	PKR 160.71 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												

11-Project benefits and analysis	
<p>i. Financial: Income to the project with assumption</p>	<ul style="list-style-type: none"> • The project comprises of improvement of roads, chowks and cross roads in the city. • Wazirabad 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.
<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"> • 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
<p>iii. Environmental Impact negative/positive</p>	<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 remarks of the screening checklist, Environment and Social</p>

	<p>Management Plans (ESMPs) are prepared and the necessary costs for implementation of ESMPs have been provided in this PC-1. The Environment, Health and Safety SOPs for labor/workers are provided as Annexure E (B).</p> <p>Moreover, the ESMP for the required road and chowk sub-projects will be prepared and made part of the bidding documents.</p>						
iv. Quantifiable project outputs	<p>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).</p>						
v. Unit cost analysis	<p>The unit cost analysis is produced below;</p> <table border="1" data-bbox="555 573 1469 707"> <tr> <td>Project capital cost</td> <td>PKR 200.89 million</td> </tr> <tr> <td>Population of the city in year 2023</td> <td>145,590 persons</td> </tr> <tr> <td>Unit capital cost per capita</td> <td>PKR 1379</td> </tr> </table> <ul style="list-style-type: none"> • Unit R&M cost: – The Repair & maintenance cost is already being borne by Wazirabad 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 200.89 million	Population of the city in year 2023	145,590 persons	Unit capital cost per capita	PKR 1379
Project capital cost	PKR 200.89 million						
Population of the city in year 2023	145,590 persons						
Unit capital cost per capita	PKR 1379						
vi. Employment generation (direct and indirect)	<p><u>Employment Analysis</u></p> <p>Direct Employment</p> <p>a) Planning and Design of projects</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>a) PMDFC</p> <p>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>b) Consultants 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>c) Municipality Wazirabad 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>d) Contractor 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 January 2023 and to be completed by October 2023 with project implementation period of 10 months.
b) Item wise/year wise schedule in line chart	The Gant 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 Municipal Committee Wazirabad 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 MC. • The procurement of works and goods will be done by Procurement Committee of Wazirabad Unit as per PPRA Rules. <p>v. Verification of quantities included in PC-Is and Resident Supervision of the works by consultants</p> <p>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 claims have been entered in the measurement books by the Project Manager/Engineer in Charge and pre audited as per LG Works Rules.</p>
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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

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.

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.

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.

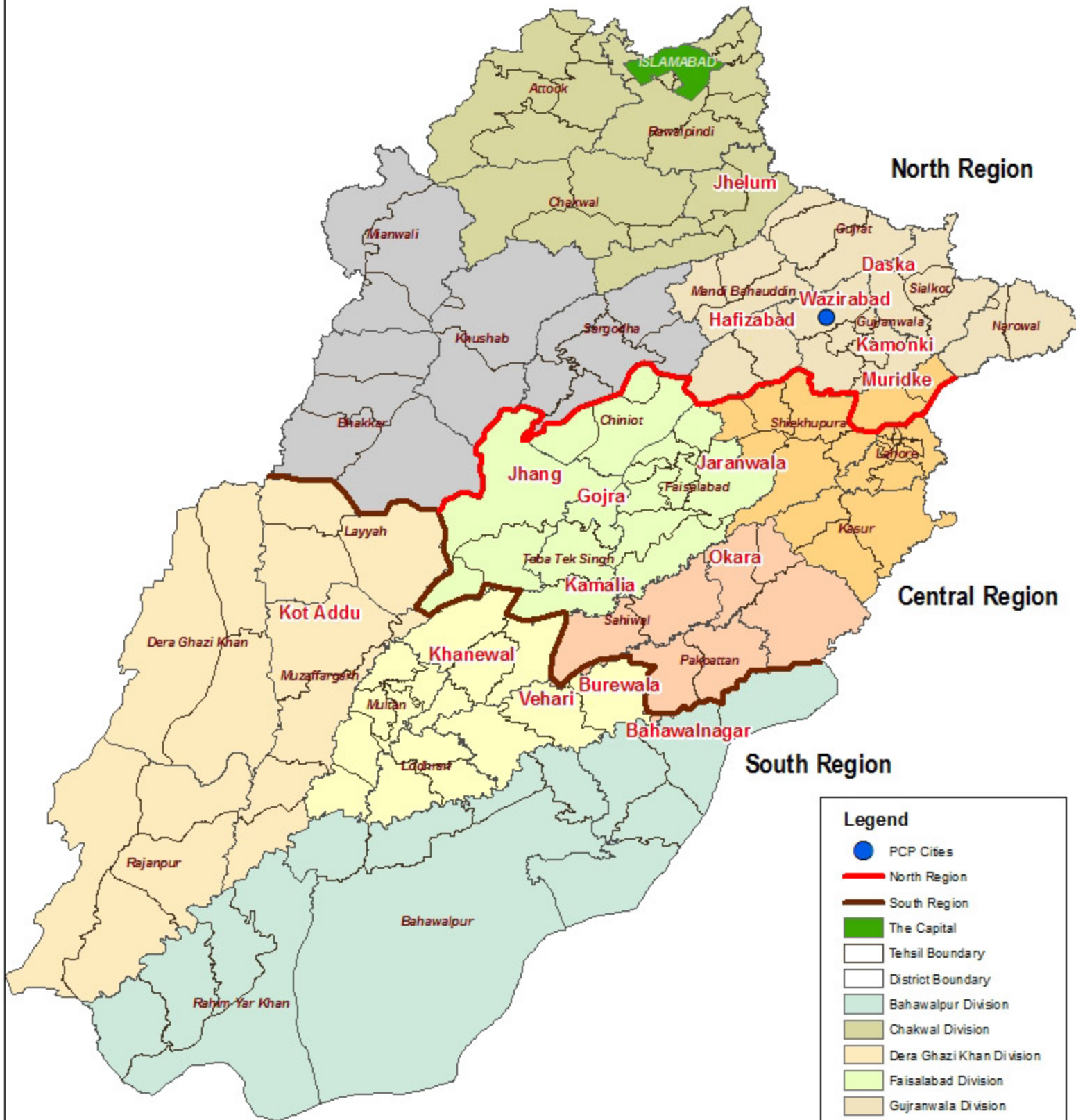
14-Additional projects /decisions required to optimize the investment being undertaken	<p>1) Shortage & frequent transfers of Provincially appointed staff MC is facing shortage in provincially appointed and locally appointed cadres. This will seriously affect the pace of progress of the program and the 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) Municipal Committee Wazirabad	Signatures	
	Chief Officer Municipal Committee Wazirabad	Signatures	
	Administrator Municipal Committee Wazirabad	Signatures	
Vetted by	Senior Program Officer PMDFC	Signatures	

Annexure-A
Location Map

Location Map (Punjab Cities Program)

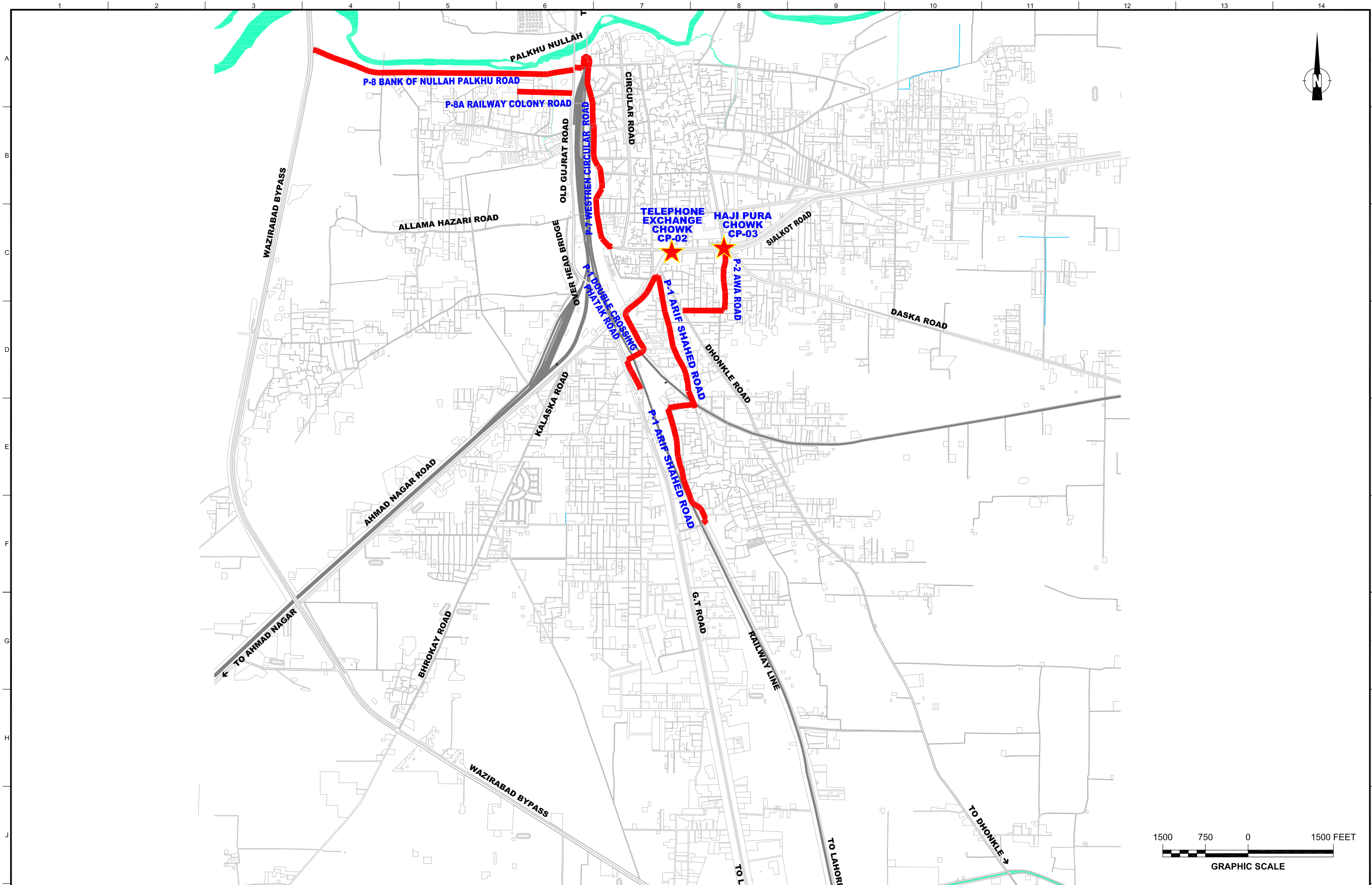
ANNEXURE - A



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





CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

JERS CONSULTANCY (PVT) LTD

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

PROJECT:

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

DRAWING TITLE:

**PROJECT KEY PLAN
 (WAZIRABAD CITY)**

REV.	DATE	DESCRIPTION

DRAWN BY: Adeel

CHECKED BY: Sadat Waleed

DATE: Oct, 2022

DRAWING NO: **TS-01**

SCALE: UNIT=FEET 1"=1500'

SHEET: 01 OF 01
 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

MC WAZIRABAD

DETAILED COST ESTIMATE

SUMMARY

Sr. No.	Description	Amount (Rs.)
1	ROAD WORKS	130,550,257
2	DRAINAGE SYSTEM	16,251,894
3	ELECTRICAL WORKS	39,304,130
4	ENVIRONMENTAL HEALTH SAFETY BUDGET	1,646,160
	Total Amount (Rs.)	187,752,441
	Contingencies @ 2%	3,755,049
	PRA Charges @ 5%	9,387,622
	Total Amount. Rs.	200,895,112

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

MC WAZIRABAD

DETAILED COST ESTIMATE

SUMMARY

Sr. No.	Description	Amount (Rs.)
1	ROAD WORKS	
1.1	P-01 DOUBLE CROSSING PHATAK ROAD	39,161,076
1.2	P-02 AWA ROAD	6,306,097
1.3	P-07 WESTREN CIRCULAR ROAD	37,421,866
1.4	P-08 BANK OF NULLAH PALKHU ROAD	30,967,086
1.5	P-08A RAILWAY COLONY ROAD	2,846,482
1.6	CHOWK	13,847,651
	1) Total Amount. Rs.	130,550,257
2	STORMWATER DRAINAGE SYSTEM	
2.1	P-01 DOUBLE CROSSING PHATAK ROAD	4,160,718
2.2	P-02 AWA ROAD	8,491,689
2.3	P-07 WESTREN CIRCULAR ROAD	1,604,641
2.4	P-08A RAILWAY COLONY ROAD	58,581
2.5	CHOWK	1,936,265
	2) Total Amount. Rs.	16,251,894
3	ELECTRICAL WORKS	
3.1	P-01 DOUBLE CROSSING PHATAK ROAD	20,129,871
3.2	P-02 AWA ROAD	7,472,920
3.3	P-07 WESTREN CIRCULAR ROAD	11,701,339
	3) Total Amount. Rs.	39,304,130
4	ENVIRONMENTAL HEALTH SAFETY BUDGET	1,646,160
	Total Amount (Rs.) "1+2+3+4"	187,752,441
	Say Millions	187.752

ROAD WORKS

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

DETAILED COST ESTIMATE

P-01 DOUBLE CROSSING PHATAK ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		ROAD WORK				
		Dismantling				
1	4/29	Dismantling brick or flagged flooring without concrete foundation.	100Cft	128.25	866.20	111,090
		Scarifying				
2	18/11	Scarifying old road surface including removal of debris within 1 chain (30 m).	100Cft	95.15	424.60	40,401
		Excavation				
3	3/1	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	41.90	9,055.25	379,415
		Compaction of Earthwork				
4	3/25	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	26.28	1,783.25	46,864

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

DETAILED COST ESTIMATE

P-01 DOUBLE CROSSING PHATAK ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
Sub Base Course						
5	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 Dina quarry to site, actual compacted depth shall be considered for payment)	100Cft	173.45	14,353.62	2,489,635
Water Bound Macadam						
6	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	204.85	28,734.26	5,886,213
Prime Coat						
7	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	95.15	2,309.00	219,701
Carpeting						
AWC						
8	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.	95.15	16,676.12	1,586,733

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

DETAILED COST ESTIMATE

P-01 DOUBLE CROSSING PHATAK ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		Paint For Traffic Lanes				
9	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	2,440.00	56.35	137,494
		Kerb Stone				
10	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	200.00	518.90	103,780
		Tuff Paver				
11	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 (For Shoulder)	Sft	134,810.00	192.80	25,991,368
		Road Edging				
12	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	14,520.00	58.65	851,598
		P.C.C (For Retaining Tuff Paver)				
13	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	23.96	38,271.80	916,992

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

DETAILED COST ESTIMATE

P-01 DOUBLE CROSSING PHATAK ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		Cat Eyes				
14	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 in12mm 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	Each	304.00	693.90	210,946
15	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	950.25	57,015
16	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 embeded in PCC 1:2:4 etc, complete in all respect				
		(b) 3 inch diameter	Rft	110.00	1,260.85	138,694
17	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	1,114.60	66,876
		Crush				
18	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 contratcor.	Cft	2,108.48	119.77	252,529

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

DETAILED COST ESTIMATE

P-01 DOUBLE CROSSING PHATAK ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
19	MR	Deduction of used bricks from original quantity.	%oNos.	67.97	(4,800.00)	(326,268)
		Total Amount Rs.				39,161,076
		DRAINAGE SYSTEM				
		Dismantling				
1	4/19/c	c) Dismantling cement concrete 1:2:4 plain.	100Cft	0.75	11,209.45	8,354
		Excavation				
2	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	10.74	9,055.25	97,244
		P.C.C				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100Cft	3.45	29,079.80	100,325
		(f) Ratio 1: 2: 4	100Cft	19.10	38,271.80	730,991
		Brick Work				
4	7/7/i	Pacca brick work other than building upto 10ft. (3 m) Cement, sand mortar:- Ratio 1:3	100Cft	18.55	35,372.90	656,273
5	7/10	Extra for pacca brick work in steining of wells or any other circular masonry.	100Cft	1.49	2,896.80	4,318
		Plaster				
6	11/8/b	Cement plaster 1:3 upto 20' (6.00 m) height:- b) ½" (13 mm) thick	100Sft	12.10	3,468.30	41,965

**PUNJAB CITIES PROGRAM (PCP)
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DETAILED COST ESTIMATE

P-01 DOUBLE CROSSING PHATAK ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		R.C.C Work				
7	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				
		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	457.00	556.05	254,115
		Steel				
8	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) Gade 40	100Kg	14.00	31,418.50	439,773
		Kerb Stone				
9	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	162.50	518.90	84,321
		Gully Grating Chamber				
10	21/8	Constructing standard gully grating chamber, 2'x2½' (610x750 mm), with chinaware trap as per PHED Drawing STD/PD No. 3 of 1977, complete in all respects.	Each	40.00	17,162.50	686,500
11	7/30	Supplying and filling sand under floor; or plugging in wells.	100Cft	25.00	2,944.60	73,615

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ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		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	1,000.00	451.30	451,300
		RPC Manhole Cover				
13	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	23.00	10,065.00	231,495
		Crush				
14	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.	Cft	2,409.88	119.77	288,628
		Manhole Cover				
15	MR	Old/existing Manhole cover and Frame complete set shift to MC store.	Set	23.00	500.00	11,500
		Total Amount (Rs)				4,160,718

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P-01 DOUBLE CROSSING PHATAK ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		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	21.20	10,712.60	227,107
		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	1,512.00	456.85	690,757
		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	37.80	31,418.50	1,187,619

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ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		Crush				
4	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.	Cft	1,330.56	119.77	159,359
5	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	7,875.00	188.45	1,484,044
6	24/12	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")	Rft	1,260.00	118.20	148,932
7	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, 660/1100 volt cable:-				
		iii) 7/0.74 mm (7/0.029")	Rft	2,520.00	105.65	266,238
		c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-				
		vi) 10 mm (7/0.052")	Rft	7,875.00	524.50	4,130,438
		vii) 16 mm (7/0.064")	Rft	100.00	643.55	64,355

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ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
8	N.S	Supplying, installation testing and commissioning of Tubular shape electric street light pole, made of hot dipped 3 mm thick (7 SWG) galvanized steel ,tapered from127 mm at bottom to 60 mm at top,with 1500 mmx60 mm dia. arm for luminaire installation, duly G.I.welded with 350x350x20 mm base plate with the help of 4 no triangular stiffeners 100x20x100 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) 6 mtr height	Each	63.00	47,736.00	3,007,368
9	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				
		(vi) 120 Watt with 14400 Lumens	Each	63.00	53,307.60	3,358,379
10	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	14,693.25	14,693

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DETAILED COST ESTIMATE

P-01 DOUBLE CROSSING PHATAK ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
11	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	329,622.55	329,623
12	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	66.00	9,635.35	635,933
Sub Total Scheduled Items: (A)						15,704,845

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P-01 DOUBLE CROSSING PHATAK ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
Non Schedule		Part-B				
13	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
14	N.S	Shifting of 25 Nos. Wapda Electric Poles	Job			3,750,000
15	N.S	Electric Connection Charges	Each	1.00	350,000	350,000
		Total Cost (Part B)			Rs.	4,425,026
		Grand Total (Part A + Part B)			Rs.	20,129,871
		Grand Total Amount Rs.				63,451,664

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P-01 DOUBLE CROSSING PHATAK ROAD
CALCULATION OF QUANTITIES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
1	Dismantling brick or flagged flooring without concrete foundation.	1	2,850	4.50		12,825	Sft
					Total.	128.25	%Sft
Scarifying							
2	Scarifying old road surface including removal of debris within 1 chain (30 m).						
	RD 0+000 to 0+290	1	290	13.50		3,915	Sft
	RD 0+290 to 0+610	1	320	17.50		5,600	Sft
					Total	9,515	Sft
					Total.	95.15	%Sft
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) ordinary						
	For widening						
	RD 0+290 to 0+610	1	320	2.50	0.75	600	Cft
	RD 0+900 to 1+650	2	750	5.00	0.75	5,625	Cft
	RD 1+650 to 2+400	1	750	5.00	0.75	2,813	Cft
	RD 2+400 to 2+550	1	150	7.00	1.00	1,050	Cft
	RD 2+550 to 5+330	1	2,780	11.00	0.75	22,935	Cft
	RD 5+330 to 7+550	1	2,220	4.00	1.00	8,880	Cft
					Total	41,903	Cft
					Total.	41.90	%Cft
Compaction of Earthwork							
4	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 widening						
	RD 0+290 to 0+610	1	320	2.50	0.50	400	Cft
	RD 0+900 to 1+650	2	750	5.00	0.50	3,750	Cft
	RD 1+650 to 2+400	1	750	5.00	0.50	1,875	Cft

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P-01 DOUBLE CROSSING PHATAK ROAD
CALCULATION OF QUANTITIES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	RD 2+400 to 2+550	1	150	7.00	0.50	525	Cft
	RD 2+550 to 5+330	1	2,780	11.00	0.50	15,290	Cft
	RD 5+330 to 7+550	1	2,220	4.00	0.50	4,440	Cft
					Total	26,280	Cft
					Total.	26.28	%Cft
	Sub Base Course						
5	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 Dina quarry to site, actual compacted depth shall be considered for payment)						
	For widening						
	RD 0+290 to 0+610	1	320	2.50	0.33	264	Cft
	RD 0+900 to 1+650	2	750	5.00	0.33	2,475	Cft
	RD 1+650 to 2+400	1	750	5.00	0.33	1,238	Cft
	RD 2+400 to 2+550	1	150	7.00	0.33	347	Cft
	RD 2+550 to 5+330	1	2,780	11.00	0.33	10,091	Cft
	RD 5+330 to 7+550	1	2,220	4.00	0.33	2,930	Cft
					Total	17,345	Cft
					Total.	173.45	%Cft

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CALCULATION OF QUANTITIES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
Water Bound Macadam							
6	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 0+290	1	290	13.50	0.33	1,292	Cft
	RD 0+290 to 0+610	1	320	20.00	0.33	2,112	Cft
	RD 0+900 to 1+650	2	750	5.00	0.33	2,475	Cft
	RD 1+650 to 2+400	1	750	5.00	0.33	1,238	Cft
	RD 2+400 to 2+550	1	150	7.00	0.33	347	Cft
	RD 2+550 to 5+330	1	2,780	11.00	0.33	10,091	Cft
	RD 5+330 to 7+550	1	2,220	4.00	0.33	2,930	Cft
						Total	20,485 Cft
						Total.	204.85 %Cft
Prime Coat							
7	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 0+290	1	290	13.50		3,915	Sft
	RD 0+290 to 0+610	1	320	17.50		5,600	Sft
						Total	9,515 Sft
						Total.	95.15 %Sft
Carpeting							
AWC							
8	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 0+000 to 0+290	1	290	13.50		3,915	Sft
	RD 0+290 to 0+610	1	320	17.50		5,600	Sft
						Total	9,515 Sft
						Total.	95.15 %Sft

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P-01 DOUBLE CROSSING PHATAK ROAD
CALCULATION OF QUANTITIES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
Paint For Traffic Lanes							
9	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 0+290	4	290			1,160	Rft
	RD 0+290 to 0+610	4	320			1,280	Rft
						Total.	2,440 Rft
10	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	1	200			200	Rft
						Total.	200 Rft
Tuff Paver							
11	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 (For Shoulder)						
	RD 0+290 to 0+610	1	320	2.50		800	Sft
	RD 0+900 to 1+650	1	750	38.00		28,500	Sft
	RD 1+650 to 2+400	1	750	20.00		15,000	Sft
	RD 2+400 to 2+550	1	150	7.00		1,050	Sft
	RD 2+550 to 5+330	1	2,780	21.00		58,380	Sft
	RD 5+330 to 7+550	1	2,220	14.00		31,080	Sft
						Total.	134,810 Sft
Road Edging							
12	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 0+290	2	290			580	Rft
	RD 0+290 to 0+610	2	320			640	Rft
	RD 0+900 to 1+650	2	750			1,500	Rft
	RD 1+650 to 2+400	2	750			1,500	Rft
	RD 2+400 to 2+550	2	150			300	Rft
	RD 2+550 to 5+330	2	2,780			5,560	Rft
	RD 5+330 to 7+550	2	2,220			4,440	Rft
						Total.	14,520 Rft

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P-01 DOUBLE CROSSING PHATAK ROAD
CALCULATION OF QUANTITIES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	P.C.C (For Retaining Tuff Paver)						
13	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(f) Ratio 1: 2: 4						
	RD 0+000 to 0+290	2	290	0.33	0.50	96	Cft
	RD 0+290 to 0+610	2	320	0.33	0.50	106	Cft
	RD 0+900 to 1+650	2	750	0.33	0.50	248	Cft
	RD 1+650 to 2+400	2	750	0.33	0.50	248	Cft
	RD 2+400 to 2+550	2	150	0.33	0.50	50	Cft
	RD 2+550 to 5+330	2	2,780	0.33	0.50	917	Cft
	RD 5+330 to 7+550	2	2,220	0.33	0.50	733	Cft
						Total.	23.96 %Cft
	Cat Eyes						
14	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 x 120mm 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	304				304	Each
15	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
16	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 embeded in PCC 1:2:4 etc, complete in all respect						
	(b) 3 inch diameter	10	11			110	Rft

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CALCULATION OF QUANTITIES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
17	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
	DRAINAGE SYSTEM						
	Dismantling						
1	c) Dismantling cement concrete 1:2:4 plain.						
	Manhole Neck	23	8.64	0.75	0.50	75	Cft
						Total	0.75 %Cft
	Excavation						
2	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.						
	Proposed Drain 1.50ft wide drain	1	325	4.25	3.25	4,489	Cft
	Pipe Laying	40	25.00	2.50	2.50	6,250	Cft
						Total	10,739 Cft
						Total	10.74 %oCft
	P.C.C						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (i) Ratio 1: 4: 8						
	Proposed Drain 1.50ft wide drain	1	325	4.25	0.25	345	Cft
						Total	3.45 %Cft
	(f) Ratio 1: 2: 4						
	Proposed Drain 1.50ft wide drain						
	Proposed Drain base slab	1	325	4.25	0.50	691	Cft
	Benching	1	325	1.50	0.25	122	Cft
	Coping						
	Proposed Drain 1.50ft wide drain	2	325	0.75	0.25	122	Cft
	Pipe Laying	40	10	1.50	1.50	900	Cft
	For manhole neck	23	8.64	0.75	0.50	75	Cft
						Total	1,910 Cft
						Total	19.10 %Cft

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CALCULATION OF QUANTITIES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	Brick Work						
4	Pacca brick work other than building upto 10ft. (3 m) Cement, sand mortar:- Ratio 1:3						
	Proposed Drain 1.50ft wide drain						
	Step-1	1	325	1.125	2.50	914	Cft
	Step-2	1	325	1.125	1.50	548	Cft
		1	325	0.750	1.00	244	Cft
	For manhole neck	23	8.64	0.750	1.00	149	Cft
					Total	1,855	Cft
					Total	18.55	%Cft
5	Extra for pacca brick work in steining of wells or any other circular masonry.						
					Total	1.49	%Cft
6	Cement plaster 1:3 upto 20' (6.00 m) height:- b) ½" (13 mm) thick						
	Proposed Drain 1.50ft wide drain	1	325		2.50	813	Sft
	For manhole neck	46	8.64		1.00	397	Sft
					Total	1,210	Sft
					Total	12.10	%Sft
	R.C.C Work						
7	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)						
		0.7	325.00	3.00	0.67	457.00	Cft
					Total	457.00	Cft

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CALCULATION OF QUANTITIES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
Steel							
8	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) Gade 40						
	Concrete Qty		457	Cft @	6.75	3,085	lbs/cft
						1,400	kg
						Total	14.00
							Kg
Kerb Stone							
9	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	0.5	325			163	Rft
						Total	163
							Rft
Gully Grating Chamber							
10	Constructing standard gully grating chamber, 2'x2½' (610x750 mm), with chinaware trap as per PHED Drawing STD/PD No. 3 of 1977, complete in all respects.	40				40.00	Each
11	Supplying and filling sand under floor; or plugging in wells.	40	25.00	2.50	1.00	25.00	%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)	40	25.00			1,000	Rft

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CALCULATION OF QUANTITIES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
RPC Manhole Cover							
13	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)	23				23	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 poles	1	7,875	1.00	2.50	19,688	Cft
	Light Poles	63	2.00	2.00	6.00	1,512	Cft
					Total	21,200	Cft
					Total	21.20	%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	63	2.00	2.00	6.00	1,512	Cft
					Total	1,512	Cft

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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):-						
	(b) Deformed bars (Grade-40)		2.50Kg/Cft			3,780	Kg
						Total	37.80
							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)	63	125.00			7,875	Rft
5	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")						
	For two nos. Earthing lead	63	20.00			1,260	Rft
6	Supply and erection of copper conductor cables for service connection, in prelaid 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)	63	40.00			2,520	Rft
	c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-						
	vi) 10 mm (7/0.052")	63	125.00			7,875	Rft
	vii) 16 mm (7/0.064")	1	100.00			100	Rft

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ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
7	Supplying, installation testing and commissioning of Tubular shape electric street light pole, made of hot dipped 3 mm thick (7 SWG) galvanized steel ,tapered from127 mm at bottom to 60 mm at top,with 1500 mmx60 mm dia. arm for luminaire installation, duly G.I.welded with 350x350x20 mm base plate with the help of 4 no triangular stiffeners 100x20x100 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) 6 mtr height	63				63	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	63				63	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

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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.	66				66.00	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 25 Nos. Wapda Electric Poles						
14	Electric Connection Charges	1				1.00	Each

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DETAILED COST ESTIMATE

P-02 AWA ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		Excavation				
1	3/1	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	1.31	9,055.25	11,862
		Compaction of Earthwork				
2	3/25	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	0.88	1,783.25	1,569
		Sub Base Course				
3	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 Dina quarry to site, actual compacted depth shall be considered for payment)	100Cft	5.78	14,353.62	82,964
		Water Bound Macadam				

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P-02 AWA ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
4	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	11.55	28,734.26	331,881
		Tuff Paver				
5	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	27,550.00	192.80	5,311,640
		Road Edging				
6	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	3,500.00	58.65	205,275
		P.C.C (For Retaining Tuff Paver)				
7	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	5.78	38,271.80	221,211
8	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	18.00	950.25	17,105

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P-02 AWA ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
9	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 embeded in PCC 1:2:4 etc, complete in all respect				
		(b) 3 inch diameter	Rft	33.00	1,260.85	41,608
10	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	18.00	1,114.60	20,063
		Crush				
11	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 contrator.	Cft	508.64	119.77	60,919
		Total Amount Rs.				6,306,097
		DRAINAGE SYSTEM				
		Dismantling				
1	4/19/c	c) Dismantling cement concrete 1:2:4 plain.	100Cft	0.26	11,209.45	2,906
		Excavation				
2	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 fromtrenches, back filling and surplus excavated material disposed of and dressed within 50 ft. (15 m) lead:- i) in ordinary soil.	1000Cft	0.78	9,055.25	7,072

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P-02 AWA ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		P.C.C				
3	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	10.86	38,271.80	415,632
		Brick Work				
4	7/7/i	Pacca brick work other than building upto 10ft. (3 m) Cement, sand mortar:- Ratio 1:3	100Cft	37.27	35,372.90	1,318,292
5	7/10	Extra for pacca brick work in steining of wells or any other circular masonry.	100Cft	0.52	2,896.80	1,502
		Plaster				
6	11/8/b	Cement plaster 1:3 upto 20' (6.00 m) height:- b) ½" (13 mm) thick	100Sft	50.38	3,468.30	174,742
		R.C.C Work				
7	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				
		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	3,447.00	556.05	1,916,704
		Steel				
8	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) Gade 40	100Kg	105.57	31,418.50	3,316,762

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ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		Kerb Stone				
9	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	1,225.00	518.90	635,653
		Gully Grating Chamber				
10	21/8	Constructing standard gully grating chamber, 2'x2½' (610x750 mm), with chinaware trap as per PHED Drawing STD/PD No. 3 of 1977, complete in all respects.	Each	5.00	17,162.50	85,813
11	7/30	Supplying and filling sand under floor; or plugging in wells.	100Cft	3.13	2,944.60	9,202
		uPVC Pipe				
12	19/47	Providing, fixing, testing and commissioning of uPVC (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	100.00	451.30	45,130
		RPC Manhole Cover				
13	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	8.00	10,065.00	80,520

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P-02 AWA ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		Crush				
14	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.	Cft	3,989.04	119.77	477,761
		Manhole Cover				
15	MR	Old/existing Manhole cover and Frame complete set shift to MC store.	Set	8.00	500.00	4,000
		Total Amount (Rs)				8,491,689
		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	6.06	10,712.60	64,918
		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	432.00	456.85	197,359

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P-02 AWA ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		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	10.80	31,418.50	339,320
		Crush				
4	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.	Cft	380.16	119.77	45,531
5	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	2,250.00	188.45	424,013
6	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	360.00	118.20	42,552
7	24/13	Supply and erection of copper conductor cables for service connection, in prelaid 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")	Rft	720.00	105.65	76,068
		c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-				
		vi) 10 mm (7/0.052")	Rft	2,250.00	524.50	1,180,125
		vii) 16 mm (7/0.064")	Rft	100.00	643.55	64,355

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DETAILED COST ESTIMATE

P-02 AWA ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
8	N.S	Supplying, installation testing and commissioning of Octagonal shape electric street light pole, made of hot dipped 4.5 mm thick (7 SWG) galvanized steel ,tapped 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) 6 mtr height	Each	18.00	47,736.00	859,248
9	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				
		(vi) 120 Watt with 14400 Lumens	Each	18.00	53,307.60	959,537
10	24/77	Supply and erection of electric energy meter, including meter testing fee, etc.				
		b) three phase, 4 wires:				

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DETAILED COST ESTIMATE

P-02 AWA ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		ii) 3x50 Amp, 400 volts	Each	1.00	14,693.25	14,693
11	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	329,622.55	329,623
12	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	21.00	9,635.35	202,342
Sub Total Scheduled Items: (A)						4,799,684

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DETAILED COST ESTIMATE

P-02 AWA ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
Non Schedule		Part-B				
13	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 megnetic 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	223,236	223,236
14	N.S	Shifting of 14 Nos. Wapda Electric Poles	Job			2,100,000
15	N.S	Electric Connection Charges	Each	1.00	350,000	350,000
		Total Cost (Part B)			Rs.	2,673,236
		Grand Total (Part A + Part B)			Rs.	7,472,920
		Grand Total Amount Rs.				22,270,706

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P-02 AWA ROAD

CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
1	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						
	For widening						
	RD 0+700 to 0+950	1	250	7.00	0.75	1,313	Cft
					Total	1,313	Cft
					Total.	1.31	%Cft
Compaction of Earthwork							
2	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 widening						
	RD 0+700 to 0+950	1	250	7.00	0.50	875	Cft
					Total	875	Cft
					Total.	0.88	%oCft
Sub Base Course							
3	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 Dina quarry to site, actual compacted depth shall be considered for payment)						
	For widening						
	RD 0+700 to 0+950	1	250	7.00	0.33	578	Cft
					Total	578	Cft
					Total.	5.78	%Cft

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P-02 AWA ROAD

CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	Water Bound Macadam						
4	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+700 to 0+950	2	250	7.00	0.33	1,155	Cft
					Total	1,155	Cft
					Total.	11.55	%Cft
	Tuff Paver						
5	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 0+700	1	700	15.00		10,500	Sft
	RD 0+700 to 0+950	1	250	17.00		4,250	Sft
	RD 0+950 to 1+750	1	800	16.00		12,800	Sft
					Total.	27,550	Sft
	Road Edging						
6	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 0+700	2	700			1,400	Rft
	RD 0+700 to 0+950	2	250			500	Rft
	RD 0+950 to 1+750	2	800			1,600	Rft
					Total.	3,500	Rft

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P-02 AWA ROAD

CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	P.C.C (For Retaining Tuff Paver)						
7	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(f) Ratio 1: 2: 4						
	RD 0+000 to 0+700	2	700	0.33	0.50	231	Cft
	RD 0+700 to 0+950	2	250	0.33	0.50	83	Cft
	RD 0+950 to 1+750	2	800	0.33	0.50	264	Cft
						Total.	5.78
							%Cft
8	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	3	3.00	2.00		18	Sft
9	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 embeded in PCC 1:2:4 etc, complete in all respect						
	(b) 3 inch diameter	3	11			33	Rft
10	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					18	Sft
	DRAINAGE SYSTEM						
	Dismantling						
1	c) Dismantling cement concrete 1:2:4 plain.						
	Manhole Neck	8	8.64	0.75	0.50	26	Cft
						Total	0.26
							%Cft

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P-02 AWA ROAD

CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	Excavation						
2	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	5	25.00	2.50	2.50	781	Cft
					Total	781	Cft
					Total	0.78	%oCft
	P.C.C						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (f) Ratio 1: 2: 4						
	Pipe Laying	5	13	1.50	1.50	141	Cft
	For manhole neck	8	8.64	0.75	0.50	26	Cft
	Existing Darin	2	2,450	0.75	0.25	919	Cft
					Total	1,086	Cft
					Total	10.86	%Cft
	Brick Work						
4	Pacca brick work other than building upto 10ft. (3 m) Cement, sand mortar:- Ratio 1:3						
	For manhole neck	8	8.64	0.75	1.00	52	Cft
	Existing Darin	2	2,450	0.75	1.00	3,675	Cft
					Total	3,727	Cft
					Total	37.27	%Cft
5	Extra for pacca brick work in steining of wells or any other circular masonry.						
					Total	0.52	%Cft
6	Cement plaster 1:3 upto 20' (6.00 m) height:- b) ½" (13 mm) thick						
	For manhole neck (8 x 2 = 16)	16	8.64		1.00	138	Sft
		4	2,450		0.50	4,900	Sft
					Total	5,038	Sft
					Total	50.38	%Sft

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P-02 AWA ROAD

CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
R.C.C Work							
7	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)						
		0.7	2,450	3.00	0.67	3,447.00	Cft
						Total	3,447.00
							Cft
Steel							
8	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) Gade 40						
	Concrete Qty		3,447	Cft @	6.75	23,267	lbs/cft
						10,557	kg
						Total	105.57
							Kg
Kerb Stone							
9	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	0.5	2,450			1,225	Rft
						Total	1,225
							Rft
Gully Grating Chamber							
10	Constructing standard gully grating chamber, 2'x2½' (610x750 mm), with chinaware trap as per PHED Drawing STD/PD No. 3 of 1977, complete in all respects.	5				5.00	Each
11	Supplying and filling sand under floor; or plugging in wells.	5	25.00	2.50	1.00	3.13	%Cft

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P-02 AWA ROAD

CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	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)	5	20.00			100	Rft
	RPC Manhole Cover						
13	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)	8				8	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 poles	1	2,250	1.00	2.50	5,625	Cft
	Light Poles	18	2.00	2.00	6.00	432	Cft
					Total	6,057	Cft
					Total	6.06	%oCft

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P-02 AWA ROAD

CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
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	18	2.00	2.00	6.00	432	Cft
						Total	432.00 Cft
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):-						
	(b) Deformed bars (Grade-40)		2.50Kg/Cft			1,080	Kg
						Total	10.80 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)	18	125.00			2,250	Rft
5	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")						
	For two nos. Earthing lead	18	20.00			360	Rft

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P-02 AWA ROAD

CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
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)	18	40.00			720	Rft
	c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-						
	vi) 10 mm (7/0.052")	18	125.00			2,250	Rft
	vii) 16 mm (7/0.064")	1	100.00			100	Rft
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 pre-laid concrete foundation, foundation will be paid additionally as approved and directed by the Engineer Incharge.						
	a) Single Arm						
	(i) 6 mtr height	18				18	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						
	(vi) 120 Watt with 14400 Lumens	18				18	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

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P-02 AWA 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.	21				21.00	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 14 Nos. Wapda Electric Poles						
14	Electric Connection Charges	1				1.00	Each

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P-07 WESTREN CIRCULAR ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		ROAD WORK				
		Compaction of Existing Road Surface				
1	N.S	Ploughing and Compaction of Existing road surface upto 6" depth i/c dressing, leveling, supplying and spreading of stone screening (Khaka) and compaction to achieve to 100% maximum ASSHO dry density complete in all respects.	100Cft	22.00	5,808.29	127,782
		Excavation				
2	3/1	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	45.49	9,055.25	411,923
		Compaction of Earthwork				
3	3/25	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	30.33	1,783.25	54,086
		Sub Base Course				

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P-07 WESTREN CIRCULAR ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
4	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 Dina quarry to site, actual compacted depth shall be considered for payment)	100Cft	200.15	14,353.62	2,872,877
		Water Bound Macadam				
5	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	264.50	28,734.26	7,600,211
		Tuff Paver				
6	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 (For Shoulder)	Sft	102,050.00	192.80	19,675,240
		R.C.C Work				

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P-07 WESTREN CIRCULAR ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
7	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				
		(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:- (2) Type B (nominal mix 1: 1½: 3)	P Cft	3,652.00	512.90	1,873,111
		Steel				
8	6/12/c	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) Gade 40	100Kg	111.85	31,418.50	3,514,054
		Road Edging				
9	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	7,400.00	58.65	434,010
		P.C.C (For Retaining of Tuff Paver)				
10	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	12.21	38,271.80	467,299

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

DETAILED COST ESTIMATE

P-07 WESTREN CIRCULAR ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
11	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	950.25	57,015
12	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 embeded in PCC 1:2:4 etc, complete in all respect				
		(b) 3 inch diameter	Rft	110.00	1,260.85	138,694
13	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	1,114.60	66,876
		Crush				
14	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 contratcor.	Cft	1,074.48	119.77	128,689
		Total Amount Rs.				37,421,866
		DRAINAGE SYSTEM				
		Dismantling				
1	4/13	Dismantling brick work in lime or cement mortar.	100Cft	7.50	4,330.90	32,482
2	4/19/c	c) Dismantling cement concrete 1:2:4 plain.	100Cft	0.06	11,209.45	726

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ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	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	5.47	9,055.25	49,523
		P.C.C				
4	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	9.90	38,271.80	378,891
		Brick Work				
5	7/7/i	Pacca brick work other than building upto 10ft. (3 m) Cement, sand mortar:- Ratio 1:3	100Cft	0.13	35,372.90	4,585
6	7/10	Extra for pacca brick work in steining of wells or any other circular masonry.	100Cft	0.13	2,896.80	375
		Plaster				
7	11/8/b	Cement plaster 1:3 upto 20' (6.00 m) height:- b) ½" (13 mm) thick	100Sft	0.35	3,468.30	1,199
		Gully Grating Chamber				
8	21/8	Constructing standard gully grating chamber, 2'x2½' (610x750 mm), with chinaware trap as per PHED Drawing STD/PD No. 3 of 1977, complete in all respects.	Each	35.00	17,162.50	600,688
9	7/30	Supplying and filling sand under floor; or plugging in wells.	100Cft	21.88	2,944.60	64,413

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P-07 WESTREN CIRCULAR ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		uPVC Pipe				
10	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	875.00	451.30	394,888
		RPC Manhole Cover				
11	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	2.00	10,065.00	20,130
		Crush				
12	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 contratcor.	Cft	871.20	119.77	104,342
		Manhole Cover				
13	MR	Old/existing Manhole cover and Frame complete set shift to MC store.	Set	2.00	500.00	1,000
14	MR	Deduction of used bricks from original quantity.	%oNos.	10.13	(4,800.00)	(48,600)
		Total Amount (Rs)				1,604,641

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P-07 WESTREN CIRCULAR ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		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	10.43	10,712.60	111,732
		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	744.00	456.85	339,896
		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	18.60	31,418.50	584,384

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P-07 WESTREN CIRCULAR ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		Crush				
4	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.	Cft	654.72	119.77	78,415
5	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	3,875.00	188.45	730,244
6	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	620.00	118.20	73,284
7	24/13	Supply and erection of copper conductor cables for service connection, in prelaid 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")	Rft	1,240.00	105.65	131,006
		c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-				
		vi) 10 mm (7/0.052")	Rft	3,875.00	524.50	2,032,438
		vii) 16 mm (7/0.064")	Rft	100.00	643.55	64,355

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P-07 WESTREN CIRCULAR ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
8	24/68	Supplying, installation testing and commissioning of Tubular shape electric street light pole, made of hot dipped 3 mm thick (7 SWG) galvanized steel ,tappered from127 mm at bottom to 60 mm at top,with 1500 mmx60 mm dia. arm for luminaire installation, duly G.I.welded with 350x350x20 mm base plate with the help of 4 no triangular stiffeners 100x20x100 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) 6 mtr height	Each	31.00	47,736.00	1,479,816
9	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				
		(vi) 120 Watt with 14400 Lumens	Each	31.00	53,307.60	1,652,536
10	24/77	Supply and erection of electric energy meter, including meter testing fee, etc.				
		b) three phase, 4 wires:				

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ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		ii) 3x50 Amp, 400 volts	Each	1.00	14,693.25	14,693
11	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	329,622.55	329,623
12	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	34.00	9,635.35	327,602
		Sub Total Scheduled Items: (A)				7,950,023
Non Schedule		Part-B				

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ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
13	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	251,316	251,316
14	N.S	Shifting of 21 Nos. Wapda Electric Poles	Job			3,150,000
15	N.S	Electric Connection Charges	Each	1.00	350,000	350,000
		Total Cost (Part B)			Rs.	3,751,316
		Grand Total (Part A + Part B)			Rs.	11,701,339
		Grand Total Amount Rs.				50,727,847

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SUPERVISION IN 16 CITIES OF PUNJAB
P-07 WESTREN CIRCULAR ROAD
CALCULATION OF QUANTITIES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
Compaction of Existing Road Surface							
1	Ploughing and Compaction of Existing road surface upto 6" depth i/c dressing, leveling, supplying and spreading of stone screening (Khaka) and compaction to achieve to 100% maximum ASSHO dry density complete in all respects.						
	RD 0+300 to 0+500	1	200	22.00	0.50	2,200	Cft
					Total	2,200	Cft
					Total.	22.00	%Cft
2	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						
	For widening						
	RD 0+000 to 0+300	1	300	5.50	0.75	1,238	Cft
	RD 0+500 to 1+800	1	1,300	15.00	0.75	14,625	Cft
	RD 1+800 to 2+200	1	400	18.00	0.75	5,400	Cft
	RD 2+200 to 3+900	1	1,700	19.00	0.75	24,225	Cft
					Total	45,488	Cft
					Total.	45.49	%Cft
Compaction of Earthwork							
3	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 widening						
	RD 0+000 to 0+300	1	300	5.50	0.50	825	Cft
	RD 0+500 to 1+800	1	1,300	15.00	0.50	9,750	Cft
	RD 1+800 to 2+200	1	400	18.00	0.50	3,600	Cft
	RD 2+200 to 3+900	1	1,700	19.00	0.50	16,150	Cft
					Total	30,325	Cft
					Total.	30.33	%oCft

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P-07 WESTREN CIRCULAR ROAD
CALCULATION OF QUANTITES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	Sub Base Course						
4	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 Dina quarry to site, actual compacted depth shall be considered for payment)						
	For widening						
	RD 0+000 to 0+300	1	300	5.50	0.33	545	Cft
	RD 0+500 to 1+800	1	1,300	15.00	0.33	6,435	Cft
	RD 1+800 to 2+200	1	400	18.00	0.33	2,376	Cft
	RD 2+200 to 3+900	1	1,700	19.00	0.33	10,659	Cft
					Total	20,015	Cft
					Total.	200.15	%Cft
	Water Bound Macadam						
5	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 0+300	1	300	5.50	0.33	545	Cft
	RD 0+500 to 1+800	2	1,300	15.00	0.33	12,870	Cft
	RD 1+800 to 2+200	1	400	18.00	0.33	2,376	Cft
	RD 2+200 to 3+900	1	1,700	19.00	0.33	10,659	Cft
					Total	26,450	Cft
					Total.	264.50	%Cft

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CALCULATION OF QUANTITES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
Tuff Paver							
6	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 (For Shoulder)						
	RD 0+000 to 0+300	1	300	27.50		8,250	Sft
	RD 0+500 to 1+800	1	1,300	25.00		32,500	Sft
	RD 1+800 to 2+200	1	400	30.00		12,000	Sft
	RD 2+200 to 3+900	1	1,700	29.00		49,300	Sft
						Total.	102,050 Sft
R.C.C Work							
7	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)(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:- (2) Type B (nominal mix 1: 1½: 3)						
	RD 0+300 to 0+500	1	200.00	22.00	0.83	3,652.00	Cft
						Total.	3,652.00 Cft
Steel							
8	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) Gade 40						
	Concrete Qty		3,652	Cft @	6.75	24,651	lbs/cft
						11,185	kg
						Total	111.85 %Kg
Road Edging							

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P-07 WESTREN CIRCULAR ROAD
CALCULATION OF QUANTITES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
7	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 0+300	2	300			600	Rft
	RD 0+500 to 1+800	2	1,300			2,600	Rft
	RD 1+800 to 2+200	2	400			800	Rft
	RD 2+200 to 3+900	2	1,700			3,400	Rft
						Total.	7,400
							Rft
	P.C.C (For Retaining of Tuff Paver)						
8	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(f) Ratio 1: 2: 4						
	RD 0+000 to 0+300	2	300	0.33	0.50	99	Cft
	RD 0+500 to 1+800	2	1,300	0.33	0.50	429	Cft
	RD 1+800 to 2+200	2	400	0.33	0.50	132	Cft
	RD 2+200 to 3+900	2	1,700	0.33	0.50	561	Cft
						Total.	12.21
							%Cft
9	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
10	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 embeded in PCC 1:2:4 etc, complete in all respect						
	(b) 3 inch diameter	10	11			110	Rft
11	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

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P-07 WESTREN CIRCULAR ROAD
CALCULATION OF QUANTITES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
DRAINAGE SYSTEM							
Dismantling							
1	Dismantling brick work in lime or cement mortar.	2	500.00	0.75	1.00	750	Cft
						Total	7.50 %Cft
2	c) Dismantling cement concrete 1:2:4 plain.						
	Manhole Neck	2	8.64	0.75	0.50	6	Cft
						Total	0.06 %Cft
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	35	25.00	2.50	2.50	5,469	Cft
						Total	5,469 Cft
						Total	5.47 %oCft
P.C.C							
4	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (f) Ratio 1: 2: 4						
	Pipe Laying	35	13	1.50	1.50	984	Cft
	For manhole neck	2	8.64	0.75	0.50	6	Cft
						Total	990 Cft
						Total	9.90 %Cft
Brick Work							
5	Pacca brick work other than building upto 10ft. (3 m) Cement, sand mortar:- Ratio 1:3						
	For manhole neck	2	8.64	0.75	1.00	13	Cft
						Total	13 Cft
						Total	0.13 %Cft

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CALCULATION OF QUANTITES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
6	Extra for pacca brick work in steining of wells or any other circular masonry.					Total	0.13 %Cft
7	Cement plaster 1:3 upto 20' (6.00 m) height:- b) ½" (13 mm) thick For manhole neck	4	8.64		1.00	35	Sft
					Total	35	Sft
					Total	0.35	%Sft
	Gully Grating Chamber						
8	Constructing standard gully grating chamber, 2'x2½' (610x750 mm), with chinaware trap as per PHED Drawing STD/PD No. 3 of 1977, complete in all respects.	35				35.00	Each
9	Supplying and filling sand under floor; or plugging in wells.	35	25.00	2.50	1.00	21.88	%Cft
	uPVC Pipe						
10	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)	35	25.00			875	Rft
	RPC Manhole Cover						
11	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)	2				2	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						

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
P-07 WESTREN CIRCULAR ROAD
CALCULATION OF QUANTITES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	ii) in ordinary soil.						
	For pipe 50mm dia from TR to LCP and LCP to poles	1	3,875	1.00	2.50	9,688	Cft
	Light Poles	31	2.00	2.00	6.00	744	Cft
					Total	10,432	Cft
					Total	10.43	%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	31	2.00	2.00	6.00	744	Cft
					Total	744.00	Cft
	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):-						
	(b) Deformed bars (Grade-40)		2.50Kg/Cft			1,860	Kg
					Total	18.60	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)	31	125.00			3,875	Rft
5	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):-						

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SUPERVISION IN 16 CITIES OF PUNJAB
P-07 WESTREN CIRCULAR ROAD
CALCULATION OF QUANTITES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	ii) 6 mm sq (7/0.044")						
	For two nos. Earthing lead	31	20.00			620	Rft
6	Supply and erection of copper conductor cables for service connection, in prelaid 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)	31	40.00			1,240	Rft
	c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-						
	vi) 10 mm (7/0.052")	31	125.00			3,875	Rft
	vii) 16 mm (7/0.064")	1	100.00			100	Rft
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) 6 mtr height	31				31	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						
	(vi) 120 Watt with 14400 Lumens	31				31	Nos

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SUPERVISION IN 16 CITIES OF PUNJAB
P-07 WESTREN CIRCULAR ROAD
CALCULATION OF QUANTITIES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
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
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.	34				34.00	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 21 Nos. Wapda Electric Poles						
14	Electric Connection Charges	1				1.00	Each

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

DETAILED COST ESTIMATE

P-08 BANK OF NULLAH PALKHU ROAD

ROADS NETWORK

Sr. No	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		ROAD WORK				
		Scarifying				
1	18/11	Scarifying old road surface including removal of debris within 1 chain (30 m).	100Cft	465.60	424.60	197,694
2	3/47	Jungle clearance and removing within 100 ft. (30 m).				
		b) thick	1000 Sft.	205.80	509.50	104,855
		Excavation				
3	3/1	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	8.95	9,055.25	81,044
		Borrow Earth				
4	3/5/i + 3/17	Earthwork in ordinary soil for embankment including ploughing and mixing with blade grade or disc harrow or other suitable equipment and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- 90% to 95% maximum modified dry density as determined according to AASHTO T-180 method-D including Transportation of earth.	1000Cft	450.00	17,256.33	7,765,346
		Compaction of Earthwork				
5	3/25	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	5.97	1,783.25	10,646

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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

P-08 BANK OF NULLAH PALKHU ROAD

ROADS NETWORK

Sr. No	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		Sub Base Course				
6	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 Dina quarry to site, actual compacted depth shall be considered for payment)	100Cft	39.39	14,353.62	565,389
		Water Bound Macadam				
7	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	55.89	28,734.26	1,605,958
		Prime Coat				
8	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	598.08	2,309.00	1,380,967
		Carpeting				
		AWC				
9	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.	598.08	16,676.12	9,973,654

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

DETAILED COST ESTIMATE

P-08 BANK OF NULLAH PALKHU ROAD

ROADS NETWORK

Sr. No	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		Paint For Traffic Lanes				
10	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	11,640.00	56.35	655,914
		Road Edging				
11	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	1,312.00	58.65	76,949
12	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	42.00	950.25	39,911
13	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 embeded in PCC 1:2:4 etc, complete in all respect				
		(b) 3 inch diameter	Rft	77.00	1,260.85	97,085
14	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	42.00	1,114.60	46,813
15	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).	100Sft	914.58	1,698.40	1,553,323

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

DETAILED COST ESTIMATE

P-08 BANK OF NULLAH PALKHU ROAD

ROADS NETWORK

Sr. No	2nd BI-Annual- 2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
16	16/32	Grouting stone pitching or apron, etc. in:-				
		b) cement, sand mortar 1:8	100Sft	1,060.50	6,422.95	6,811,538
		Total Amount Rs.				30,967,086

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB
P-08 BANK OF NULLAH PALKHU ROAD
CALCULATION OF QUANTITIES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
Scarifying							
1	Scarifying old road surface including removal of debris within 1 chain (30 m).						
	RD 0+000 to 4+656	1	4,656	10.00		46,560	Sft
					Total	46,560	Sft
					Total.	465.60	%Sft
Excavation							
2	Jungle clearance and removing within 100 ft. (30 m).						
	b) thick	2	4,656	2.21		20,580	Sft
					Total	205.80	%Sft
					Total.	8.95	%Cft
Excavation							
3	Earthwork excavation in open cutting upto 5'-0" (1.5 m) depth for storm water channels, drains, sillage 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						
	For widening						
	RD 0+000 to 4+000	2	4,000	1.00	0.75	6,000	Cft
	RD 4+000 to 4+656	1	656	6.00	0.75	2,952	Cft
					Total	8,952	Cft
					Total.	8.95	%Cft
Borrow Earth							
4	Earthwork in ordinary soil for embankment including ploughing and mixing with blade grade or disc harrow or other suitable equipment and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- 90% to 95% maximum modified dry density as determined according to AASHTO T-180 method-D including Transportation of earth.						
		1	2,000	15.00	15.00	450,000	Cft
					Total.	450.00	%Cft

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB
P-08 BANK OF NULLAH PALKHU ROAD
CALCULATION OF QUANTITIES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
Compaction of Earthwork							
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.						
	For widening						
	RD 0+000 to 4+000	2	4,000	1.00	0.50	4,000	Cft
	RD 4+000 to 4+656	1	656	6.00	0.50	1,968	Cft
					Total	5,968	Cft
					Total.	5.97	%Cft
Sub Base Course							
6	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 Dina quarry to site, actual compacted depth shall be considered for payment)						
	For widening						
	RD 0+000 to 4+000	2	4,000	1.00	0.33	2,640	Cft
	RD 4+000 to 4+656	1	656	6.00	0.33	1,299	Cft
					Total	3,939	Cft
					Total.	39.39	%Cft
Water Bound Macadam							
7	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 4+000	2	4,000	1.00	0.33	2,640	Cft

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SUPERVISION IN 16 CITIES OF PUNJAB
P-08 BANK OF NULLAH PALKHU ROAD
CALCULATION OF QUANTITIES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	RD 0+000 to 4+656	1	656	6.00	0.33	1,299	Cft
	Leveling layer	1	500	10.00	0.33	1,650	Cft
						Total	5,589 Cft
						Total.	55.89 %Cft
	Prime Coat						
8	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 4+656	1	4,656	12.00		55,872	Sft
	RD 4+000 to 4+656	1	656	6.00		3,936	Sft
						Total	59,808 Sft
						Total.	598.08 %Sft
	Carpeting						
	AWC						
9	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 0+000 to 4+656	1	4,656	12.00		55,872	Sft
	RD 4+000 to 4+656	1	656	6.00		3,936	Sft
						Total	59,808 Sft
						Total.	598.08 %Sft
	Paint For Traffic Lanes						
10	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	2.5	4,656			11,640	Rft
	Road Edging						
11	Providing and laying road edging of 3" (75 mm) wide and 9" (225 mm) deep brick on end, complete in all respects.						
	RD 4+000 to 4+656	2	656			1,312	Rft
						Total.	1,312 Rft
12	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.						

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SUPERVISION IN 16 CITIES OF PUNJAB
P-08 BANK OF NULLAH PALKHU ROAD
CALCULATION OF QUANTITIES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	(a) G.I Sheet 14 SWG CIRCULAR/TRIANGULAR 3 ft size	7	3.00	2.00		42	Sft
13	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	7	11			77	Rft
14	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					42	Sft
15	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 2+156	2	2,156	21.21		91,458	Sft
						Total	914.58 % Sft
16	Grouting stone pitching or apron, etc. in:-						
	b) cement, sand mortar 1:8						
	RD 2+156 to 4+656	2	2,500	21.21		106,050	Sft
						Total	1,060.50 % Sft

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DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

P-08A RAILWAY COLONY ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		ROAD WORK				
		Prime Coat				
1	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	139.49	2,309.00	322,082
		Carpeting				
		AWC				
2	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.	139.49	16,676.12	2,326,152
		Paint For Traffic Lanes				
3	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	1,924.00	56.35	108,417
		Painting new surface:-				
4	13/5/f	f) Preparing surface and painting of small detached articles, not exceeding one sq. ft. (Sq.m) of painted surface:-				
		i) priming coat.	100 Nos.	9.62	2,412.20	23,205
		ii) each subsequent coat of paint.	100 Nos.	9.62	1,466.50	14,108
5	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	12.00	950.25	11,403

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SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

P-08A RAILWAY COLONY ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
6	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 embeded in PCC 1:2:4 etc, complete in all respect				
		(b) 3 inch diameter	Rft	22.00	1,260.85	27,739
7	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	12.00	1,114.60	13,375
		Total Amount Rs.				2,846,482
		DRAINAGE SYSTEM				
		Dismantling				
1	4/19/c	c) Dismantling cement concrete 1:2:4 plain.	100Cft	0.03	11,209.45	363
		Excavation				
2	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 fromtrenches, back filling and surplus excavated material disposed of and dressed within 50 ft. (15 m) lead:- i) in ordinary soil.	1000Cft	0.16	9,055.25	1,413
		P.C.C				
3	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	0.31	38,271.80	11,864
		Brick Work				

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DETAILED COST ESTIMATE

P-08A RAILWAY COLONY ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
4	7/7/i	Pacca brick work other than building upto 10ft. (3 m) Cement, sand mortar:- Ratio 1:3	100Cft	0.06	35,372.90	2,292
5	7/10	Extra for pacca brick work in steining of wells or any other circular masonry.	100Cft	0.06	2,896.80	188
		Plaster				
6	11/8/b	Cement plaster 1:3 upto 20' (6.00 m) height:- b) ½" (13 mm) thick	100Sft	0.17	3,468.30	599
		Gully Grating Chamber				
7	21/8	Constructing standard gully grating chamber, 2'x2½' (610x750 mm), with chinaware trap as per PHED Drawing STD/PD No. 3 of 1977, complete in all respects.	Each	1.00	17,162.50	17,163
8	7/30	Supplying and filling sand under floor; or plugging in wells.	100Cft	0.63	2,944.60	1,840
		uPVC Pipe				
9	19/47	Providing, fixing, testing and commissioning of uPVC (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	20.00	451.30	9,026
		RPC Manhole Cover				
10	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	1.00	10,065.00	10,065

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

DETAILED COST ESTIMATE

P-08A RAILWAY COLONY ROAD

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		Crush				
11	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.	Cft	27.28	119.77	3,267
		Manhole Cover				
12	MR	Old/existing Manhole cover and Frame complete set shift to MC store.	Set	1.00	500.00	500
		Total Amount (Rs)				58,581
		Grand Total Amount Rs.				2,905,062

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

P-08A RAILWAY COLONY ROAD
CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	Prime Coat						
1	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 0+962	1	962	14.50		13,949	Sft
					Total	13,949	Sft
					Total.	139.49	%Sft
	Carpeting						
	AWC						
2	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 0+000 to 0+962	1	962	14.50		13,949	Sft
					Total	13,949	Sft
					Total.	139.49	%Sft
	Paint For Traffic Lanes						
3	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	2	962			1,924	Rft
4	f) Preparing surface and painting of small detached articles, not exceeding one sq. ft. (Sq.m) of painted surface:-						
	i) priming coat.	1	962			9.62	100Nos.
	ii) each subsequent coat of paint.	1	962			9.62	100Nos.
5	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	2	3.00	2.00		12	Sft

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

P-08A RAILWAY COLONY ROAD
CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
6	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	2	11			22	Rft
7	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					12	Sft
DRAINAGE SYSTEM							
Dismantling							
1	c) Dismantling cement concrete 1:2:4 plain.						
	Manhole Neck	1	8.64	0.75	0.50	3	Cft
						Total	0.03
							%Cft
Excavation							
2	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	1	25.00	2.50	2.50	156	Cft
						Total	156
						Total	0.16
							%oCft
P.C.C							
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(f) Ratio 1: 2: 4						
	Pipe Laying	1	13	1.50	1.50	28	Cft
	For manhole neck	1	8.64	0.75	0.50	3	Cft
						Total	31
						Total	0.31
							%Cft

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

P-08A RAILWAY COLONY ROAD
CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
Brick Work							
4	Pacca brick work other than building upto 10ft. (3 m) Cement, sand mortar:- Ratio 1:3						
	For manhole neck	1	8.64	0.75	1.00	6.48	Cft
					Total	6.48	Cft
					Total	0.06	%Cft
5	Extra for pacca brick work in steining of wells or any other circular masonry.						
					Total	0.06	%Cft
6	Cement plaster 1:3 upto 20' (6.00 m) height:- b) ½" (13 mm) thick						
	For manhole neck (38 x 2 = 76)	2	8.64		1.00	17	Sft
					Total	17	Sft
					Total	0.17	%Sft
Gully Grating Chamber							
7	Constructing standard gully grating chamber, 2'x2½' (610x750 mm), with chinaware trap as per PHED Drawing STD/PD No. 3 of 1977, complete in all respects.	1				1.00	Each
8	Supplying and filling sand under floor; or plugging in wells.	1	25.00	2.50	1.00	0.63	%Cft
uPVC Pipe							
9	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)	1	20.00			20	Rft
RPC Manhole Cover							
10	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)	1				1.00	Each

CHOWKS

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

MC WAZIRABAD

DETAILED COST ESTIMATE

SUMMARY

Sr. No.	Description	Amount (Rs.)
1	ROAD WORKS	
1.1	CP-02 TELEPHONE EXCHANGE CHOWK	6,645,119
1.2	CP-03 HAJI PURA CHOWK	7,202,532
	1) Total Amount. Rs.	13,847,651
2	DRAINAGE SYSTEM	
2.1	CP-03 HAJI PURA CHOWK	1,936,265
	2) Total Amount. Rs.	1,936,265
	Total Amount (R.)	15,783,915
	Say Millions	15.784

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

DETAILED COST ESTIMATE

CP-02 TELEPHONE EXCHANGE CHOWK

ROADS NETWORK

Sr. No	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		ROAD WORK				
		Scarifying				
1	18/11	Scarifying old road surface including removal of debris within 1 chain (30 m).	100Sft	201.56	424.60	85,582
		Prime Coat				
2	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	201.56	2,309.00	465,402
		Carpeting				
		AWC				
3	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.	201.56	16,676.12	3,361,239
		Paint For Traffic Lanes				
4	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	1,030.00	56.35	58,041
		Kerb Stone				
5	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	100.00	518.90	51,890

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

DETAILED COST ESTIMATE

CP-02 TELEPHONE EXCHANGE CHOWK

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		Tuff Paver				
6	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	12,746.00	192.80	2,457,429
		P.C.C (Between Asphalt and Tuff Paver)				
7	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	1.14	38,271.80	43,630
		Cat Eyes				
8	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 in12mm 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	Each	100.00	693.90	69,390
9	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	12.00	950.25	11,403

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

DETAILED COST ESTIMATE

CP-02 TELEPHONE EXCHANGE CHOWK

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
10	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 embeded in PCC 1:2:4 etc, complete in all respect				
		(b) 3 inch diameter	Rft	22.00	1,260.85	27,739
11	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	12.00	1,114.60	13,375
		Total Amount Rs.				6,645,119

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
CP-02 TELEPHONE EXCHANGE CHOWK
CALCULATION OF QUANTITIES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
Scarifying							
1	Scarifying old road surface including removal of debris within 1 chain (30 m).						
	RD 0+000 TO 0+264	1	264	50.00		13,200	Sft
	RD 0+000 TO 0+148	1	148	47.00		6,956	Sft
					Total	20,156	Sft
					Total.	201.56	%Sft
Prime Coat							
2	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 0+264	1	264	50.00		13,200	Sft
	RD 0+000 TO 0+148	1	148	47.00		6,956	Sft
					Total	20,156	Sft
					Total.	201.56	%Sft
AWC							
3	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 0+000 TO 0+264	1	264	50.00		13,200	Sft
	RD 0+000 TO 0+148	1	148	47.00		6,956	Sft
					Total	20,156	Sft
					Total.	201.56	%Sft
Paint For Traffic Lanes							
4	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 0+264	2.5	264			660	Rft
	RD 0+000 TO 0+148	2.5	148			370	Rft
					Total.	1,030	Rft

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
CP-02 TELEPHONE EXCHANGE CHOWK
CALCULATION OF QUANTITIES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
5	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	1	100			100	Rft
						Total.	100 Rft
	Tuff Paver						
6	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 0+264	1.5	264	13.50		5,346	
	RD 0+000 TO 0+148	2	148	25.00		7,400	
						Total.	12,746 Sft
	P.C.C (Between Asphalt and Tuff Paver)						
7	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(f) Ratio 1: 2: 4						
	RD 0+000 TO 0+264	1.5	264	0.33	0.50	65	Cft
	RD 0+000 TO 0+148	2	148	0.33	0.50	49	Cft
						Total.	1.14 %Cft
	Cat Eyes						
8	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 x 120mm 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	100				100	Each

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
CP-02 TELEPHONE EXCHANGE CHOWK
CALCULATION OF QUANTITIES
ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
9	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	2	3.00	2.00		12	Sft
10	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 embeded in PCC 1:2:4 etc, complete in all respect						
	(b) 3 inch diameter	2	11			22	Rft
11	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					12	Sft

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

DETAILED COST ESTIMATE

CP-03 HAJI PURA CHOWK

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		ROAD WORK				
		Scarifying				
1	18/11	Scarifying old road surface including removal of debris within 1 chain (30 m).	100Sft	320.36	424.60	136,025
		Prime Coat				
2	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	320.36	2,309.00	739,711
		Carpeting				
		AWC				
3	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.	320.36	16,676.12	5,342,362
		Paint For Traffic Lanes				
4	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	2,793.00	56.35	157,386
		Kerb Stone				
5	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	450.00	518.90	233,505

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

DETAILED COST ESTIMATE

CP-03 HAJI PURA CHOWK

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		Tuff Paver				
6	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	1,935.00	192.80	373,068
		P.C.C (For Retaining Tuff Paver)				
7	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	0.75	38,271.80	28,704
		Cat Eyes				
8	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 in12mm 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	Each	125.00	693.90	86,738
9	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	24.00	950.25	22,806

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

DETAILED COST ESTIMATE

CP-03 HAJI PURA CHOWK

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
10	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 embeded in PCC 1:2:4 etc, complete in all respect				
		(b) 3 inch diameter	Rft	44.00	1,260.85	55,477
11	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	24.00	1,114.60	26,750
		Total Amount Rs.				7,202,532
		Drainage System				
		Excavation				
1	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 fromtrenches, back filling and surplus excavated material disposed of and dressed within 50 ft. (15 m) lead:- i) in ordinary soil.	1000Cft	2.59	9,055.25	23,453
		P.C.C				
2	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100Cft	0.67	29,598.20	19,831

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

DETAILED COST ESTIMATE

CP-03 HAJI PURA CHOWK

ROADS NETWORK

Sr. No	2nd BI- Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
		R.C.C Work				
3	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				
		(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:-				
		(2) Type B (nominal mix 1: 1½: 3)	Cft	240.00	512.90	123,096
		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. (2) Type B (nominal mix 1: 1½: 3)	P Cft	845.00	612.05	517,182
		Steel				
4	6/12/c	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) Gade 60	100Kg	39.38	31,808.25	1,252,702
		Total Amount Rs.				1,936,265
		Total Amount Rs. (1+2)				9,138,796

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

CP-03 HAJI PURA CHOWK

CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
Scarifying							
1	Scarifying old road surface including removal of debris within 1 chain (30 m).						
	RD 0+000 TO 0+425	1	425	52.00		22,100	Sft
	RD 0+000 TO 0+100	1	100	30.00		3,000	Sft
	RD 0+000 TO 0+127	2	127	24.00		6,096	Sft
	RD 0+000 TO 0+040	1	40	21.00		840	Sft
						Total	32,036 Sft
						Total.	320.36 %Sft
Prime Coat							
2	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 0+425	1	425	52.00		22,100	Sft
	RD 0+000 TO 0+100	1	100	30.00		3,000	Sft
	RD 0+000 TO 0+127	2	127	24.00		6,096	Sft
	RD 0+000 TO 0+040	1	40	21.00		840	Sft
						Total	32,036 Sft
						Total.	320.36 %Sft
AWC							
3	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 0+000 TO 0+425	1	425	52.00		22,100	Sft
	RD 0+000 TO 0+100	1	100	30.00		3,000	Sft
	RD 0+000 TO 0+127	2	127	24.00		6,096	Sft
	RD 0+000 TO 0+040	1	40	21.00		840	Sft
						Total	32,036 Sft
						Total.	320.36 %Sft
Paint For Traffic Lanes							
4	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 0+425	5	425			2,125	Rft
	RD 0+000 TO 0+100	2.5	100			250	Rft
	RD 0+000 TO 0+127	2.5	127			318	Rft

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

CP-03 HAJI PURA CHOWK

CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	RD 0+000 TO 0+040	2.5	40			100	Rft
						Total.	2,793 Rft
5	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 0+000 TO 0+425	2	225			450	Rft
						Total.	450 Rft
	Tuff Paver						
6	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 0+100	1	100	13.00		1,300	Sft
	RD 0+000 TO 0+127	1	127	5.00		635	Sft
						Total.	1,935 Sft
	P.C.C (For Retaining Tuff Paver)						
7	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(f) Ratio 1: 2: 4						
	RD 0+000 TO 0+100	2	100	0.33	0.50	33	Cft
	RD 0+000 TO 0+127	2	127	0.33	0.50	42	Cft
						Total.	0.75 %Cft
	Cat Eyes						

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

CP-03 HAJI PURA CHOWK

CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
8	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 x 120mm 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	125				125	Each
9	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	4	3.00	2.00		24	Sft
10	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 embeded in PCC 1:2:4 etc, complete in all respect						
	(b) 3 inch diameter	4	11			44	Rft
11	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					24	Sft
	Drainage System						
	Excavation						
1	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.						
	Culvert	1	40	9.25	7.00	2,590	Cft

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CP-03 HAJI PURA CHOWK

CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
					Total	2,590	Cft
					Total	2.59	%oCft
	P.C.C						
2	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Culvert	2	40	3.33	0.25	67	Cft
					Total	0.67	%Cft
	R.C.C Work						
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						
	(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:-						
	(2) Type B (nominal mix 1: 1½: 3)	2	40	3.00	1.00	240	Cft
					Total	240.00	Cft
	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)						
	Wall	2	40.00	1.00	6.00	480.00	Cft
	Top Slab	1	40.00	8.50	1.00	340.00	Cft
	Parapet Wall	2	10.00	0.50	2.50	25.00	Cft
					Total	845.00	Cft
	Steel						

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

CP-03 HAJI PURA CHOWK

CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
4	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) Gade 60						
	Concrete Qty		1,085	Cft @	8.00	8,680	lbs/cft
						3,938	kg
					Total	39.38	Kg

ENVIRONMENTAL HEALTH SAFETY BUDGET

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

DETAILED COST ESTIMATE

ENVIRONMENTAL HEALTH SAFETY BUDGET

Sr No	Description	Unit	Quantity	Unit Rate (Rs.)	Amount Rs.
	Labor Safety				
1	Face Masks (3 PLY)	Nos	28.00	700.00	19,600
2	Safety Gum Shoes	Nos	28.00	1,350.00	37,800
3	Hand Gloves	Nos	28.00	245.00	6,860
4	First Aid Box (Including essential Medicine)	Nos	7.00	5,000.00	35,000
5	Safety Hard Helmets MSA	Nos	28.00	2,000.00	56,000
6	Safety Goggles	Nos	28.00	550.00	15,400
7	Reflective Safety Vests	Nos	28.00	550.00	15,400
8	Infrared Thermometer (Benetech GM-2200 OR equivalent)	Nos	1.00	45,000.00	45,000
				Sub Total	231,060
	Working Site Safety				
1	Reflective Safety Signs Boards	Nos	7.00	10,000.00	70,000
2	Reflective Safety Barricading Tape	Nos	21.00	1,500.00	31,500
3	Emergency Portable Light	Nos	8.00	5,000.00	40,000
4	Solid Waste Collection Drums	Nos	8.00	5,000.00	40,000
5	Fire Extinguishers DCP	Nos	16.00	5,000.00	80,000
6	Reflective Safety PVC Cones (18 inch)	Nos	28.00	1,200.00	33,600
7	Road Guiding Portable Delineators with Chain	Nos	28.00	2,500.00	70,000
				Sub Total	365,100
	Others				
1	Pole Hanging Waste Bins	Nos.	10.00	10,000	100,000
2	Water Sprinkling (Dust Abatement)	L.S	1.00	200,000	200,000
3	Roadside Plantation	L.S	1.00	50,000	50,000
4	Environmental Analytical Assessments (Ambient Air Quality Testing, Noise Testing, Vehicular Emissions Testing/Generators, Surface Water & Ground Water Testing)	L.S	1.00	250,000	250,000
5	Hiring of Environmentalist (03 Months Budget)	L.S	1.00	250,000	250,000
6	Labor Campsite Management	L.S	1.00	200,000	200,000
				Sub Total	1,050,000
	Total Amount (Rs)				1,646,160

RATE ANALYSIS

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

EARTH WORK LEAD CHART

Rate Analysis Road- 1

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Lead	Unit.	Qty	Rate (Rs)	Amount (Rs)
1	3/5/i	Earthwork in ordinary soil for embankments lead upto 100 ft. (30 m), including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:-					
		i) 95% to 100% maximum modified AASHO dry density.	1	1000Cft	1	9,552.55	9,552.55
2	3/17a.b.c	Carriage					
		upto ¼ mile (400 m).	1	1000 Cft	1	4,341.40	4,341.40
		for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.)	12	1000 Cft	1	40.25	483.00
		for every ¼ mile (400 m) additional lead or part thereof, beyond one mile (1.6 Km.) upto 5 mile (8 Km).	8.5	1000 Cft	1	338.75	2,879.38
		for every ½ mile (800 m) additional lead or part thereof, beyond 5 miles (8 Km).	0	1000 Cft	1	320.70	-
		Total Amount 1,000 (Rs.).					17,256.33
		Total Amount Per Cft					17.26

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 Dina quarry to site, actual compacted depth shall be considered for payment)							
Crush Stone							90 KM
Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	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	7,545.00	7,545.00
2	1/1	Carriage					
		1st KM	100 Cft	1	1.20	299.40	359.28
		2nd KM	100 Cft	1	1.20	145.45	174.54
		3rd KM	100 Cft	1	1.20	117.00	140.40
		4th KM	100 Cft	1	1.20	85.40	102.48
		5th KM	100 Cft	1	1.20	80.25	96.30
		6th KM	100 Cft	1	1.20	79.10	94.92
		7th KM	100 Cft	1	1.20	74.30	89.16
		8th KM	100 Cft	1	1.20	73.60	88.32
		9th KM	100 Cft	1	1.20	69.60	83.52
		10th KM	100 Cft	1	1.20	65.75	78.90
		From 11 km to 200 km	100 Cft	80.00	1.20	57.30	5,500.80
		Total.					14,353.62
		Total Amount per 100 Cft					14,353.62
		Total Cost for Per Cft					143.54

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)

							200 KM
Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	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	14,122.50	14,122.50
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	299.40	365.27
		2nd KM	100 Cft	1	1.22	145.45	177.45
		3rd KM	100 Cft	1	1.22	117.00	142.74
		4th KM	100 Cft	1	1.22	85.40	104.19
		5th KM	100 Cft	1	1.22	80.25	97.91
		6th KM	100 Cft	1	1.22	79.10	96.50
		7th KM	100 Cft	1	1.22	74.30	90.65
		8th KM	100 Cft	1	1.22	73.60	89.79
		9th KM	100 Cft	1	1.22	69.60	84.91
		10th KM	100 Cft	1	1.22	65.75	80.22
		From 11 km to 200 km	100 Cft	190.00	1.22	57.30	13,282.14
		Total.					28,734.26
		Total Amount per 100 Cft					28,734.26
		Total Cost for Per Cft					287.34

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

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

							232 Km
Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	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	15,187.40	15,187.40
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	299.40	37.22
		2nd KM	100 Cft	1	0.1243	145.45	18.08
		3rd KM	100 Cft	1	0.1243	117.00	14.54
		4th KM	100 Cft	1	0.1243	85.40	10.62
		5th KM	100 Cft	1	0.1243	80.25	9.98
		6th KM	100 Cft	1	0.1243	79.10	9.83
		7th KM	100 Cft	1	0.1243	74.30	9.24
		8th KM	100 Cft	1	0.1243	73.60	9.15
		9th KM	100 Cft	1	0.1243	69.60	8.65
		10th KM	100 Cft	1	0.1243	65.75	8.17
		From 11 km to 200 km	100 Cft	190	0.1243	57.30	1,353.25
			Total.				
		Total Amount per 100 Sft					16,676.12
		Total Cost for Per Sft					166.76

PUNJAB CITIES PROGRAM (PCP)
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Rate Analysis Road - 5

Ploughing and Compaction of Existing road surface upto 6" depth i/c dressing, leveling, supplying and spreading of stone screening (Khaka) and compaction to achieve to 100% maximum ASSHO dry density complete in all respects.

MRS 2nd Bi-Annual July 2022 to Dec 2022

Taking = 100CFT

Unit rate =Per 100 CFT

Sr. No.	Details	Qty	Unit	Rate (Rs)	Amount (Rs)
A	Material				
1	Ploughing with tractor up to 6" depth for 100 Cft (Input Rate EQ-18)	1	P.Hour	1,608.00	1,608.00
2	Cost of Stone Screening (Khaka) at quarry for 100 Cft = (Input Rate 18.005)	17	%CFT	4,836.00	822.12
3	Labour charges for spreading of Khaka dressing and levelling etc skilled 2 No's for 1.5 Hours (Input Rate lb-024)		P.Day	1,250.00	468.75
4	Compaction of existing road surface with 12 to roller and watering etc. for 100Cft (Input Rate EQ-05)	0.75	P.Hour	3,660.00	2,745.00
Total					5,643.87
Add 20% Contractor Profit on Item No.2					164.42
Composite Rate Per 100Cft					5,808.29

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

Rate Analysis Road - 6

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 100 Rft					
			Qty		Rate Per Unit	Unit	Amount (Rs.)	
	Page No112							
1	A	RPC Manhole Cover	1.00	No	7000	No	7,000.00	
		Carriage					700	
						Total	7,700.00	
		<u>LABOUR</u>						
2	LB-024	Skilled Cooly	0.50	Nos.	1,250.00	per day	625.00	
						Total.	625.00	
		Sundries	10	%			62.50	
						Total Rs.	687.50	
						Total (1+2)	8,387.50	
		Contractor's Profit	20	%			1,677.50	
		Total					10,065	
		<u>ITEM RATES</u>						
		Composite rate Set				Rs.	10,065	

**PUNJAB CITIES PROGRAM (PCP)
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Rate Analysis Road - 7

200 KM						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Lead (Km)	Rate (Rs)	Amount (Rs.)
1	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	299.40	299.40
		2nd KM	100 Cft	1	145.45	145.45
		3rd KM	100 Cft	1	117.00	117.00
		4th KM	100 Cft	1	85.40	85.40
		5th KM	100 Cft	1	80.25	80.25
		6th KM	100 Cft	1	79.10	79.10
		7th KM	100 Cft	1	74.30	74.30
		8th KM	100 Cft	1	73.60	73.60
		9th KM	100 Cft	1	69.60	69.60
		10th KM	100 Cft	1	65.75	65.75
		From 11 km to 200 km	100 Cft	190.00	57.30	10,887.00
		Total.				11,976.85
		Total Amount per 100 Cft				11,976.85
		Total Cost for Per Cft				119.77

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

Rate Analysis Road - 8

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	186,030	No.	186,030		
								Total	186,030
		Contractor's Profit	20	%					37,206
		Total							223,236
		<u>ITEM RATES</u>							
		Composite rate Set						Rs.	223,236

**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	209,430	No.	209,430		
								Total	209,430
		Contractor's Profit	20	%					41,886
		Total							251,316
		<u>ITEM RATES</u>							
		Composite rate Set						Rs.	251,316

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

Rate Analysis Road - 10

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 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

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

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

Analysis of Rate for Pole

Description

Supply Installation testing and Commissioning of 20'6 Mtrs high Tubular Section Road Light Pole made of MS, Hot dip Galvanized including cost of base plate with 4 Nos J-bolt, as shown on dwg. Terminal box with cover, 2amp single pole Mcb, 3 phase connector complete in all resheet.

Unit. Each

Sr. No.	Ref Input Rate	Detail	Unit Rate (British System) per Each					
			Qty	Rate Per Unit	Amount (Rs.)			
1	MR	20'6 m Light Pole	1.00	No	39,780	No.	39,780	
						Total	39,780	
		Contractor's Profit		20 %			7,956	
		Total					47,736	
		<u>ITEM RATES</u>						
		Composite rate Set				Rs.	47,736	

Cost for PPEs from different Sources

1. Face Masks (3PLY)

affordable.pk

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 1

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

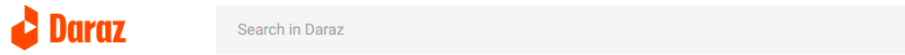
Promotions Spend Rs. 18,000 get Rs. 800 off

Color Family Black

Size EU 41 42 43 44 45

Quantity - 1 +


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 CHEMICALS

PACKED BY POLY BAG

CE EN388 4121X

NITRILE GLOVES **HGNG01**

Color family White

Size XL

Nitrile gloves XL

★★★★★ 58 Ratings | 5 Answered Questions

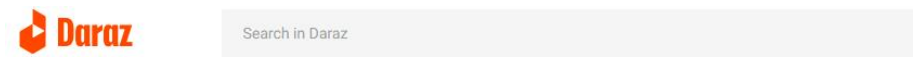
Brand: Ingco | More Protective Clothing & Equipment from Ingco

Rs. 245
Rs. 325 -25%

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

Quantity Only 1 items left


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

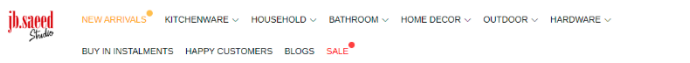
Free Shipping

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

• Maximum safety without bulk
• High level of protection

☆☆☆☆☆ 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

Rs540/-

1

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

[f](#) [t](#) [p](#) [m](#) [+](#)

7. Infrared Thermometer



BENETECH GM-2200 INFRARED THERMOMETER

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

Rs40,000/-

1

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

[f](#) [t](#) [p](#) [m](#) [+](#)

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



PRICE SCHEDULE SHEET

QUOTE NO.	DATE	OFFER VALIDITY
QT-167-2K22	October 17, 2022	October 24, 2022

CLIENT:- Jers Consultancy (Pvt) Ltd.
 24 Civic St, Township Twp Commercial Area,
 Lahore - Pakistan.

SR. #	DESCRIPTION	QTY	UNIT	UNIT RATE	AMOUNT Rs.
1	20'6 Mtrs. High Hot Dip Galvanized Pole with Base Plate etc. (Single Arm)	1	No.	39,780.00	39,780.00
2	20'6 Mtrs. High Hot Dip Galvanized Pole with Base Plate etc. (Double Arm)	1	No.	42,705.00	42,705.00
TOTAL AMOUNT Rs: -					82,485.00

For Ali Engineering Services

MOHSIN PERVAIZ
 Head Planning Div.

ALI SHAFQAT
 Director Operations

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

Rs/Km									
SPEEDS	MOTOR CYCLE	RICKSHAW	CAR	WAGON	MINI-BUS	BUS	TRUCK 2-AXLE	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
Wazirabad (5.72 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	2600	2,088	23.15
2029	4.57	4420	2,088	42.22
2037	5.05	7956	2,088	83.90
Cars				
Base Year(2022)	39.47	420	2,088	34.61
2029	42.43	714	2,088	63.25
2037	47.21	1285	2,088	126.67
Wagons				
Base Year(2022)	43.08	5	2,088	0.43
2029	47.89	8	2,088	0.81
2037	57.04	15	2,088	1.74
Bus				
Base Year(2022)	82.34	3	2,088	0.46
2029	97.79	5	2,088	0.93
2037	97.79	8	2,088	1.67
T.Trolley + Trucks 2-AXLE				
Base Year(2022)	86.88	12	2,088	2.22
2029	103.44	21	2,088	4.49
2037	103.44	37	2,088	8.08
Trucks 3-AXLE & 4-AXLE				
Base Year(2022)	92.52	0	2,088	-
2029	109.08	0	2,088	-
2037	109.08	0	2,088	-
Trucks 5-AXLE & 6-AXLE				
Base Year(2022)	98.16	0	2,088	-
2029	114.72	0	2,088	-
2037	114.72	0	2,088	-
TOTAL				
Base Year(2022)				60.87
2029				111.69
2037				222.05

Note : "VOC" means Vehicle Operating Cost

TABLE - 9.7
Wazirabad (5.72 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	2600	2,088	14.38
2029	2.72	4420	2,088	25.10
2037	2.84	7956	2,088	47.21
Cars				
Base Year(2022)	19.16	420	2,088	16.80
2029	19.92	714	2,088	29.70
2037	21.00	1285	2,088	56.35
Wagons				
Base Year(2022)	18.83	5	2,088	0.19
2029	19.67	8	2,088	0.33
2037	20.80	15	2,088	0.63
Bus				
Base Year(2022)	36.21	3	2,088	0.20
2029	37.40	5	2,088	0.35
2037	39.13	8	2,088	0.67
T.Trolley + Trucks 2-Axle				
Base Year(2022)	22.77	12	2,088	0.58
2029	23.75	21	2,088	1.03
2037	25.05	37	2,088	1.96
Trucks 3-AXLE & 4-AXLE				
Base Year(2022)	34.85	0	2,088	-
2029	37.60	0	2,088	-
2037	41.08	0	2,088	-
Trucks 5-AXLE & 6-AXLE				
Base Year(2022)	39.06	0	2,088	-
2029	41.80	0	2,088	-
2037	45.28	0	2,088	-
TOTAL				
Base Year(2022)				32.15
2029				56.52
2037				106.82

Note : "VOC" means Vehicle Operating Cost

TABLE - 9.8
Wazirabad (5.72 km)

(Million Rs.)

YEARS	VEHICLE OPERATING COSTS		SAVINGS
	WITHOUT PROJECT	WITH PROJECT	
Base Year(2022)	60.87	32.15	28.72
2029	111.69	56.52	55.17
2037	222.05	106.82	115.23
		TOTAL	199.12

TABLE - 9.9
Wazirabad (5.72 km)
ANNUAL VALUE OF TRAVEL TIME COST
WITHOUT PROJECT

Years	VOT	Traffic Volume ADT	Distance Annual (Km)	Total Cost Million Rs.
	Rs/km			
(Million Rs.)				
Motor Cycles\Rickshaw				
Base Year(2022)	3.96	2600	2,088	21.50
2029	4.95	4420	2,088	45.68
2037	6.60	7956	2,088	109.64
Cars				
Base Year(2022)	14.85	420	2,088	13.02
2029	18.56	714	2,088	27.67
2037	24.75	1285	2,088	66.42
Wagons				
Base Year(2022)	29.70	5	2,088	0.30
2029	39.60	8	2,088	0.67
2037	59.41	15	2,088	1.81
Bus				
Base Year(2022)	39.48	3	2,088	0.22
2029	52.64	5	2,088	0.50
2037	78.96	8	2,088	1.35
T.Trolley + Trucks 2-Axle				
Base Year(2022)	5.78	12	2,088	0.15
2029	8.66	21	2,088	0.38
2037	8.66	37	2,088	0.68
Trucks 3-AXLE & 4-AXLE				
Base Year(2022)	5.78	0	2,088	-
2029	8.66	0	2,088	-
2037	8.66	0	2,088	-
Trucks 5-AXLE & 6-AXLE				
Base Year(2022)	5.78	0	2,088	-
2029	8.66	0	2,088	-
2037	8.66	0	2,088	-
TOTAL				
Base Year(2022)				35
2029				75
2037				180

Note : "VOT" means value of Travel Cost

TABLE - 9.10
Wazirabad (5.72 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	2600	2,088	14.38
2029	2.72	4420	2,088	25.10
2037	2.84	7956	2,088	47.21
Cars				
Base Year(2022)	19.16	420	2,088	16.80
2029	19.92	714	2,088	29.70
2037	21.00	1285	2,088	56.35
Wagons				
Base Year(2022)	18.83	5	2,088	0.19
2029	19.67	8	2,088	0.33
2037	20.80	15	2,088	0.63
Bus				
Base Year(2022)	36.21	3	2,088	0.20
2029	37.40	5	2,088	0.35
2037	39.13	8	2,088	0.67
T.Trolley + Trucks 2-Axle				
Base Year(2022)	22.77	12	2,088	0.58
2029	23.75	21	2,088	1.03
2037	25.05	37	2,088	1.96
Trucks 3-AXLE & 4-AXLE				
Base Year(2022)	34.85	0	2,088	-
2029	37.60	0	2,088	-
2037	41.08	0	2,088	-
Trucks 5-AXLE & 6-AXLE				
Base Year(2022)	39.06	0	2,088	-
2029	41.80	0	2,088	-
2037	45.28	0	2,088	-
TOTAL				
Base Year(2022)				32.15
2029				56.52
2037				106.82

TABLE - 9.11
Wazirabad (5.72 km)

(Million Rs.)

YEARS	ANNUAL VALUE OF TRAVEL TIME COST (VOTT)		SAVINGS
	WITHOUT PROJECT	WITH PROJECT	
Base Year(2022)	35.18	32.15	3.04
2029	74.90	56.52	18.38
2037	179.89	106.82	73.07
		TOTAL	94.49

TABLE - 9.12
Wazirabad (5.72 km)
TOTAL PROJECT BENEFITS

(Million Rs.)

YEARS	SAVINGS		TOTAL SAVINGS
	VOC	VOTT	
Base Year(2022)	28.72	3.04	31.76
2029	55.17	18.38	73.55
2037	115.23	73.07	188.30
	TOTAL		294

TABLE - 9.13
Wazirabad (5.72 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	187.00	0.00	187.00	0.00	-187.00	-187.00	-205.70	-205.70			
2		0.94	0.94	31.76	30.82	27.65	30.73	27.56			
3		0.94	0.94	36.52	35.59	31.94	35.49	31.84			
4		0.94	0.94	42.00	41.07	36.87	40.97	36.77			
5		0.94	0.94	48.30	47.37	42.54	47.27	42.44			
6		0.94	0.94	55.55	54.61	49.06	54.52	48.96			
7		0.94	0.94	63.88	62.94	56.56	62.85	56.46			
8		0.94	0.94	73.46	72.53	65.18	72.43	65.09			
9		0.94	0.94	84.48	83.55	75.10	83.45	75.00			
10		0.94	0.94	97.15	96.22	86.50	96.12	86.41			
11		0.94	0.94	102.01	101.08	90.87	100.98	90.78			
12		0.94	0.94	107.11	106.18	95.47	106.08	95.37			
13		0.94	0.94	112.47	111.53	100.29	111.44	100.19			
14		0.94	0.94	118.09	117.16	105.35	117.06	105.25			
15		0.94	0.94	123.99	123.06	110.66	122.97	110.57			
Total :	187.00	13.09	200.09	3906.20	896.70	787.02	876.69	767.01			
DISCOUNT RATES					PRESENT WORTH OF COST						
					Present Worth of Benefit	NET PRESENT WORTH					
10 %					170.00	176.26	608.34	271.04	226.31	253.41	208.68
12 %					166.96	172.50	475.22	210.78	172.45	193.53	155.20
18 %					158.47	162.44	256.80	89.44	64.25	73.20	48.01
20 %					155.83	159.43	216.54	62.51	40.32	46.57	24.38
ECONOMIC INTERNAL RATE OF RETURN 12% DR								26.89	24.56	24.77	22.56
BENEFIT COST / RATIO AT 12 % D.R					2.75						

* 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.

TABLE - 9.14
Wazirabad (5.72 km)
Calculation of Financial Internal Rate of Return

Million Rs.

Years	PROJECT ECONOMIC COSTS			Project Financial Revenue	Net Benefits Pattern at Economic Prices			
	Investment	O & M	Total Costs		(a)	(b)	(c)	(d)
1	187.00	0.00	187.00	0.00	-187.00	-187.00	-205.70	-205.70
2		0.00	0.00	0.00	0.00	0.00	0.00	0.00
3		0.00	0.00	0.00	0.00	0.00	0.00	0.00
4		0.00	0.00	0.00	0.00	0.00	0.00	0.00
5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
6		0.00	0.00	0.00	0.00	0.00	0.00	0.00
7		0.00	0.00	0.00	0.00	0.00	0.00	0.00
8		0.00	0.00	0.00	0.00	0.00	0.00	0.00
9		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total :	187.00	0.00	187.00	0.00	-187.00	-187.00	-205.70	-205.70
DISCOUNT RATES								
PRESENT WORTH OF COST			Present Worth of Revenue	NET PRESENT WORTH				
10 %	170.00	170.00	0.00	-170.00	-170.00	-187.00	-187.00	
12 %	166.96	166.96	0.00	-166.96	-166.96	-183.66	-183.66	
18 %	158.47	158.47	0.00	-158.47	-158.47	-174.32	-174.32	
20 %	155.83	155.83	0.00	-155.83	-155.83	-171.42	-171.42	
FINANCIAL INTERNAL RATE OF RETURN 12% DR					#NUM!	#NUM!	#NUM!	#NUM!
BENEFIT COST / RATIO AT 12 % D.R				0.00				

* 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

Annexure-E
EIA Report

Environmental & Social Screening Checklist

Instructions:

Environmental and Social Focal Persons (ESFPs)¹ nominated by the MCs for PCP, environmental and social management, will use this checklist in field for environmental and social screening and categorization of each and every sub-project proposed to be executed under the Program.

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 document² 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) The purpose of this E&S Screening Checklists is to identify potential "Negative" impacts of environmental and social attributes or to enhance the existing environmental & social benefits. Use the "remarks" section to discuss any anticipated mitigation measures.

Name of ESFP: *Waqar Ahmad*

Name of MC: *Wazirabad*

Sub-Project Sector: *Roads*

Sub-Project Title: *Rehabilitation of Road G.T Road to Bypass Road via Slaughter house (Bank of Nallah Patkhu)*

Sub-Project Categorization:

E-1

S-1

E-2

S-2

E-3

S-3

Date of Screening: *30-9-2021*

Anticipated Project Activities

Preparation of sub-grade

Preparation of grade

Preparation of sub-base or base

Estimated Cost of Subprojects

laying of concrete

Tentative Completion Time/Duration

02-3 months

Estimated Labor for Subproject

25-30 persons

¹ In all MCs, ESFPs are notified by Local government; MO (I&S) are focal persons for environmental sector and MO(P) are focal persons for social sectors.

² It is meant as PC-I and/or engineering estimates of sub-project

Screening Questions	Yes	No	Remarks
A. Project Siting			
Is the Sub-Project area adjacent to or within any of the following:			
Environmentally sensitive areas?			
Legally protected Area		/	Not Observed
Any surface water body (river, canal, stream, lake, wetland) within 250 meter of the proposed sub project ³		/	4 (Nallah Phalkhu)
Estuarine		/	4
Special area for protecting biodiversity		/	4
Buffer zone of protected area		/	4
Mangroves Forest		/	4
Man-made forest /game reserve, orchid /crops or any other area of environmental importance		/	crops
Socially sensitive /important areas/communities/ people?			
PCRs and or any site of cultural/religious importance (Graveyard, Shrine, Mosque, Church, <i>Gordwarah</i> , Temple, Fort, archeological/historical site) within 100 m of the proposed subproject ⁴		/	Not Observed.
Sensitive receptors (Schools, colleges, hospitals and clinics) within 100 meter of the proposed sub project ⁵		/	4
Any graveyard of local community (Muslims or Christians)		/	4
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 ⁶ of the society and women or children)?		/	4
Already existing infrastructure ⁷ (including public amenities) which may be required to dismantle or may be affected temporarily by any means?		/	No infrastructure to be impact
B. Potential Environmental Impacts			
Will the Sub-Project cause...			
1. Disturbance to habitats/biodiversity of environmentally sensitive or protected areas?		/	Not anticipated
2. Cutting of trees?		/	4
3. Disruption to habitats/biodiversity of surrounding ecosystem/environment?		/	4

³ Ibid.

⁴ According to Environmental Assessment Guidelines adopted by Punjab EPA

⁵ Ibid.

⁶ due to caste, creed, religion or gender e.g. transgender

⁷ Sewerage /Drainage system, Water supply lines, tube-wells, WAPDA/Telephone transmission lines/electric poles, Railway tracks, Gas pipelines, Roads, Shops/Plazas, Banks, Industry, Disposal stations etc.


4. Generation of wastewater during construction or operation?		/	4
5. Pollution of surface water/ground water due to wastewater discharge from construction site or due to direct/indirect disposal of waste water?		/	4
6. Alteration of surface water hydrology of waterways resulting in increased sediment in streams/ivers or due to increased soil erosion at construction site?		/	4
7. Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction?		/	4
8. Over pumping of ground water, leading to salinization and ground subsidence?		/	No overpumping involved
9. Serious contamination of soil due to construction works?		/	Not anticipated
10. Aggravation of solid waste problems in the area?		/	4
11. Generation of hazardous waste?		/	4
12. Increased air pollution due to sub-project construction and operation?		/	Dust pollution mitigate by water sprinkling
13. Noise and vibration due to sub-project construction or operation?		/	Work activities can cause but impact negligible
14. Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents due to solid/liquid?		/	Not anticipated
15. Use of chemicals during construction?		/	4
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)?		/	Not anticipated
2. Displacement or involuntary resettlement of people? (physical displacement and/or economic displacement) (If "Yes", please also fill Involuntary Resettlement Screening Checklist)		/	No involuntary resettlement involved
3. Disproportionate impacts on the poor, women and children and or other vulnerable groups ⁸ (mentioned above)?		/	Not anticipated
4. Temporary impediments in movements of people/transport and animals?		/	Alternate route will provide

⁸ Women, Children, Women headed households, People in old age, people having disabilities, socially isolated community groups and or people living below the poverty line

5. Large population influx during sub-project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?	/	contractor will hire local labor
6. Social conflicts if workers from other areas are hired?	/	4
7. Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation?	/	Not anticipated
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?	/	4
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?	/	4
10. Any impact on sensitive receptors (mentioned above)	/	4
11. Any impact of negative nature on already existing infrastructure including public amenities	/	4

Prepared By: A.M.O(I&S)

Name: Waqar Ahmedy

Signature: 

Date: 30-9-2021

Municipal Committee
Wazirabad

Endorsed By: DPO-ESSs.

Name: Tehmina Kivan

Signature: 

Date: 30-9-2021.

Environmental & 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 for 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 document² 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) The purpose of this E&S Screening Checklists is to identify potential "Negative" impacts of environmental and social attributes or to enhance the existing environmental & social benefits. Use the "remarks" section to discuss any anticipated mitigation measures.

Name of ESFP: Waqar Ahmad.
 Name of MC: Waqar Ahmad
 Sub-Project Sector: Road.
 Sub-Project Title: Rehabilitation of Road from Chowk Guru Kotla to Salka Road (Muslimi Road).
 Sub- Project Categorization: E-1 S-1
 E-2 S-2
 E-3 S-3

Date of Screening: 30-9-2021

Anticipated Project Activities
 Preparation of Subgrade
 Preparation of Subbase
 Preparation of base
 Laying of ISI
 Finishing works.

Estimated Cost of Subprojects
Completion Time/Duration 2-3 month
Estimated Labor for Subproject 15-20

¹ In all MCs, ESFPs are notified by Local government; MO (I&S) are focal persons for environmental sector and MO(P) are focal persons for social sectors.
² It is meant as PC-I and/or engineering estimates of sub-project

Screening Questions	Yes	No	Remarks
A. Project Siting			
Is the Sub-Project area adjacent to or within any of the following:			
Environmentally sensitive areas?			
Legally protected Area		/	
Any surface water body (river, canal, stream, lake, wetland) within 250 meter of the proposed sub project ³		/	
Estuarine		/	
Special area for protecting biodiversity		/	
Buffer zone of protected area		/	
Mangroves Forest		/	
Man-made forest /game reserve, orchid /crops or any other area of environmental importance		/	
Socially sensitive /important areas/communities/people?			
PCRs and or any site of cultural/religious importance (Graveyard, Shrine, Mosque, Church, <i>Gordwarah</i> , Temple, Fort, archeological/historical site) within 100 m of the proposed subproject ⁴	/	X	<i>Muslim Graveyard. Mosque Taqree.</i>
Sensitive receptors (Schools, colleges, hospitals and clinics) within 100 meter of the proposed sub project ⁵		/	
Any graveyard of local community (Muslims or Christians)		/	<i>Muslim Graveyard.</i>
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 ⁶ of the society and women or children)?		/	
Already existing infrastructure ⁷ (including public amenities) which may be required to dismantle or may be affected temporarily by any means?		/	<i>No impact anticipated on existing infrastructure.</i>
B. Potential Environmental Impacts			
Will the Sub-Project cause...			
1. Disturbance to habitats/biodiversity of environmentally sensitive or protected areas?		/	<i>impact is negligible as area site has no biodiversity</i>
2. Cutting of trees?		/	<i>No tree cutting involve</i>
3. Disruption to habitats/biodiversity of surrounding ecosystem/environment?		/	<i>Not anticipated</i>
4. Generation of wastewater during construction or operation?		/	<i>"</i>
5. Pollution of surface water/ground water due to wastewater discharge from construction site or due to direct/indirect disposal of waste water?		/	<i>"</i>

³ Ibid.

⁴ According to Environmental Assessment Guidelines adopted by Punjab EPA

⁵ Ibid.

⁶ due to caste, creed, religion or gender e.g. transgender

⁷ Sewerage /Drainage system, Water supply lines, tube-wells, WAPDA/Telephone transmission lines/electric poles, Railway tracks, Gas pipelines, Roads, Shops/Plazas, Banks, Industry, Disposal stations etc.

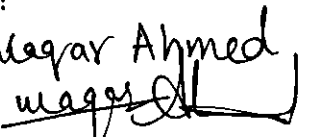
6. Alteration of surface water hydrology of waterways resulting in increased sediment in streams/ivers or due to increased soil erosion at construction site?		✓	Not anticipated
7. Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction?		✓	No surface body found in vicinity of project area
8. Over pumping of ground water, leading to salinization and ground subsidence?		✓	No over pumping involved
9. Serious contamination of soil due to construction works?		✓	No anticipated
10. Aggravation of solid waste problems in the area?	✓		If not properly managed can cause nuisance
11. Generation of hazardous waste?		✓	Not anticipated
12. Increased air pollution due to sub-project construction and operation?	✓		Construction machinery & excavation can cause
13. Noise and vibration due to sub-project construction or operation?	✓		machinery & construction vehicle can cause
14. Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents due to solid/liquid?		✓	Contractor will ensure proper management of solid/liquid waste
15. Use of chemicals during construction?		✓	Not use
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)?		✓	Not observed
2. Displacement or involuntary resettlement of people? (physical displacement and/or economic displacement) (If "Yes", please also fill Involuntary Resettlement Screening Checklist)		✓	No involuntary resettlement involved
3. Disproportionate impacts on the poor, women and children and or other vulnerable groups ⁸ (mentioned above)?		✓	Not anticipated
4. Temporary impediments in movements of people/transport and animals?	✓	X	Not high impact
5. Large population influx during sub-project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?		✓	local labor will be hired by contractor
6. Social conflicts if workers from other areas are hired?		✓	✓
7. Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation?		✓	Contractor will ensure PPEs & HSE plan

⁸ Women, Children, Women headed households, People in old age, people having disabilities, socially isolated community groups and or people living below the poverty line

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?	/	Not anticipated
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?	/	Not anticipated
10. Any impact on sensitive receptors (mentioned above)	/	"
11. Any impact of negative nature on already existing infrastructure including public amenities	/	/

Prepared By:

Name: Waqar Ahmed

Signature: 

Date: ASSISTANT MUNICIPAL OFFICER IAS
Municipal Committee
Wazirabad

Endorsed By: DPO-ESSs.

Name: Tehmina Kiran

Signature: 

Date: 30-6-2021

✓

Environmental & Social Screening Checklist

Instructions:

Environmental and Social Focal Persons (ESFPs)¹ nominated by the MCs for PCP environmental and social management, will use this checklist in field for environmental and social screening and categorization of each and every sub-project proposed to be executed under the Program.

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 document² 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) The purpose of this E&S Screening Checklists is to identify potential "Negative" impacts of environmental and social attributes or to enhance the existing environmental & social benefits. Use the "remarks" section to discuss any anticipated mitigation measures.

Name of ESFP: Waqar Ahmad.

Name of MC: Wazirabad.

Sub-Project Sector: Roads.

Sub-Project Title: Rehabilitation of Road from city Park to Dhounkal Road (Awa Road)

Sub-Project Categorization:

E-1

S-1

E-2

S-2

E-3

S-3

Date of Screening: 30-9-2021

Anticipated Project Activities

Preparation of sub-grade
Preparation of grade
Preparation of sub-base & base

Estimated Cost of Subprojects

Tentative Completion Time/Duration

2-3 months

Estimated Labor for Subproject

25-30 persons

¹ In all MCs, ESFPs are notified by Local government; MO (I&S) are focal persons for environmental sector and MO(P) are focal persons for social sectors.

² It is meant as PC-I and/or engineering estimates of sub-project

Screening Questions	Yes	No	Remarks
A. Project Siting			
Is the Sub-Project area adjacent to or within any of the following:			
Environmentally sensitive areas?			
Legally protected Area		/	Not observed,
Any surface water body (river, canal, stream, lake, wetland) within 250 meter of the proposed sub project ³		/	"
Estuarine		/	"
Special area for protecting biodiversity		/	"
Buffer zone of protected area		/	"
Mangroves Forest		/	"
Man-made forest /game reserve, orchid /crops or any other area of environmental importance		/	"
Socially sensitive /important areas/communities/ people?			
PCRs and or any site of cultural/religious importance (Graveyard, Shrine, Mosque, Church, <i>Gordwarah</i> , Temple, Fort, archeological/historical site) within 100 m of the proposed subproject ⁴		/	"
Sensitive receptors (Schools, colleges, hospitals and clinics) within 100 meter of the proposed sub project ⁵		/	"
Any graveyard of local community (Muslims or Christians)		/	"
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 ⁶ of the society and women or children)?		/	"
Already existing infrastructure ⁷ (including public amenities) which may be required to dismantle or may be affected temporarily by any means?		/	No any infrastructure to be impact.
B. Potential Environmental Impacts			
Will the Sub-Project cause...			
1. Disturbance to habitats/biodiversity of environmentally sensitive or protected areas?		/	Not anticipated
2. Cutting of trees?		/	"
3. Disruption to habitats/biodiversity of surrounding ecosystem/environment?		/	"

³ Ibid.

⁴ According to Environmental Assessment Guidelines adopted by Punjab EPA

⁵ Ibid.

⁶ due to caste, creed, religion or gender e.g. transgender

⁷ Sewerage /Drainage system, Water supply lines, tube-wells, WAPDA/Telephone transmission lines/electric poles, Railway tracks, Gas pipelines, Roads, Shops/Plazas, Banks, Industry, Disposal stations etc.

4. Generation of wastewater during construction or operation?	/	"
5. Pollution of surface water/ground water due to wastewater discharge from construction site or due to direct/indirect disposal of waste water?	/	"
6. Alteration of surface water hydrology of waterways resulting in increased sediment in streams/ivers or due to increased soil erosion at construction site?	/	No surface water found
7. Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction?	/	Not anticipated
8. Over pumping of ground water, leading to salinization and ground subsidence?	/	No overpumping involved.
9. Serious contamination of soil due to construction works?	/	Not anticipated
10. Aggravation of solid waste problems in the area?	/	"
11. Generation of hazardous waste?	/	"
12. Increased air pollution due to sub-project construction and operation?	/	Dust pollution can be mitigated through water sprinks
13. Noise and vibration due to sub-project construction or operation?	/	Not anticipated
14. Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents due to solid/liquid?	/	Not anticipated
15. Use of chemicals during construction?	/	"


C: Potential Social Impacts

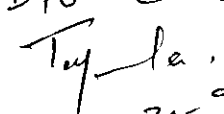
Will the Sub-Project cause...

1. Impairment of historical/cultural areas; disfiguration of landscape or potential loss/damage to Physical Cultural Resources (PCRs)?	/	"
2. Displacement or involuntary resettlement of people? (physical displacement and/or economic displacement) (If "Yes", please also fill Involuntary Resettlement Screening Checklist)	/	No involuntary resettlement involved
3. Disproportionate impacts on the poor, women and children and or other vulnerable groups ⁸ (mentioned above)?	/	Not anticipated
4. Temporary impediments in movements of people/transport and animals?	/	Alternate route will be provided.

⁸ Women, Children, Women headed households, People in old age, people having disabilities, socially isolated community groups and or people living below the poverty line

5. Large population influx during sub-project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?	/	Contractor will ensure local labor hiring.
6. Social conflicts if workers from other areas are hired?	/	✓
7. Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation?	/	PPEs will be used by labor.
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?	/	Not anticipated
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?	/	✓
10. Any impact on sensitive receptors (mentioned above)	/	✓
11. Any impact of negative nature on already existing infrastructure including public amenities	/	✓

Prepared By: A.M.O(I&S)
Name: Waqar Ahmed
Signature: 
Date: 30-09-2021
ASSISTANT MUNICIPAL OFFICER (I&S)
Municipal Committee
Wazirabad

Endorsed By: Tehmina Kiran
Name: DPO - ESSs
Signature: 
Date: 30-9-2021

Environmental & Social Screening Checklist

Instructions:

Environmental and Social Focal Persons (ESFPs)¹ nominated by the MCs for PCP environmental and social management, will use this checklist in field for environmental and social screening and categorization of each and every sub-project proposed to be executed under the Program.

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(iii) The purpose of this E&S Screening Checklists is to identify potential "Negative" impacts of environmental and social attributes or to enhance the existing environmental & social benefits. Use the "remarks" section to discuss any anticipated mitigation measures.

Name of ESFP: Waqar Ahmad
Name of MC: Wazirabad
Sub-Project Sector: Roads
Sub-Project Title: Rehabilitation of Road from Bank of Punjab to Nizamabad (Arif Shaukat Road)
Sub-Project Categorization: Railway E-1 S-1
E-2 S-2
E-3 S-3

Date of Screening: 30-9-2021

Anticipated Project Activities

Preparation of sub base
Preparation of sub grade
Laying of Asphalt

Estimated Cost of Subprojects

Completion Time/Duration 02-3 months

Estimated Labor for Subproject 15-20

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² It is meant as PC-I and/or engineering estimates of sub-project

Screening Questions	Yes	No	Remarks
A. Project Siting			
Is the Sub-Project area adjacent to or within any of the following:			
Environmentally sensitive areas?			
Legally protected Area		/	
Any surface water body (river, canal, stream, lake, wetland) within 250 meter of the proposed sub project ³		/	
Estuarine		/	
Special area for protecting biodiversity		/	
Buffer zone of protected area		/	
Mangroves Forest		/	
Man-made forest /game reserve, orchid /crops or any other area of environmental importance		/	
Socially sensitive /important areas/communities/ people?			
PCRs and or any site of cultural/religious importance (Graveyard, Shrine, Mosque, Church, <i>Gordwarah</i> , Temple, Fort, archeological/historical site) within 100 m of the proposed subproject ⁴		/	
Sensitive receptors (Schools, colleges, hospitals and clinics) within 100 meter of the proposed sub project ⁵			EFA School System
Any graveyard of local community (Muslims or Christians)		/	
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 ⁶ of the society and women or children)?		/	
Already existing infrastructure ⁷ (including public amenities) which may be required to dismantle or may be affected temporarily by any means?		/	
B. Potential Environmental Impacts			
Will the Sub-Project cause...			
1. Disturbance to habitats/biodiversity of environmentally sensitive or protected areas?		/	Not observed
2. Cutting of trees?		/	✓
3. Disruption to habitats/biodiversity of surrounding ecosystem/environment?		/	✓
4. Generation of wastewater during construction or operation?		/	✓
5. Pollution of surface water/ground water due to wastewater discharge from construction site or due to direct/indirect disposal of waste water?		/	✓

³ Ibid.

⁴ According to Environmental Assessment Guidelines adopted by Punjab EPA

⁵ Ibid.

⁶ due to caste, creed, religion or gender e.g. transgender

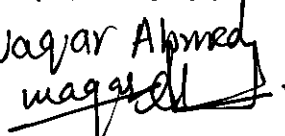
⁷ Sewerage /Drainage system, Water supply lines, tube-wells, WAPDA/Telephone transmission lines/electric poles, Railway tracks, Gas pipelines, Roads, Shops/Plazas, Banks, Industry, Disposal stations etc.

4. Generation of wastewater during construction or operation?		✓	
5. Pollution of surface water/ground water due to wastewater discharge from construction site or due to direct/indirect disposal of waste water?		✓	
6. Alteration of surface water hydrology of waterways resulting in increased sediment in streams/rivers or due to increased soil erosion at construction site?		✓	
7. Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction?		✓	
8. Over pumping of ground water, leading to salinization and ground subsidence?		✓	
9. Serious contamination of soil due to construction works?		✓	No hazardous chemical would be used during construction.
10. Aggravation of solid waste problems in the area?	✓		if not manage properly. Solid waste cause nuisance.
11. Generation of hazardous waste?		✓	
12. Increased air pollution due to sub-project construction and operation?	✓		air pollution at moderate level is anticipate. contractor will follow EIMP strictly.
13. Noise and vibration due to sub-project construction or operation?	✓		noise pollution can be generate. Contractor will follow EIMP.
14. Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents due to solid/liquid?		✓	Contractor will ensure proper disposal of solid & liquid waste.
15. Use of chemicals during construction?		✓	
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)?		✓	
2. Displacement or involuntary resettlement of people? (physical displacement and/or economic displacement) (If "Yes", please also fill Involuntary Resettlement Screening Checklist)		✓	No involuntary resettlement is involved.
3. Disproportionate impacts on the poor, women and children and or other vulnerable groups ⁸ (mentioned above)?		✓	
4. Temporary impediments in movements of people/transport and animals?	✓		Alternate route is available adjacent with this road

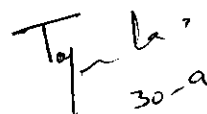
⁸ Women, Children, Women headed households, People in old age, people having disabilities, socially isolated community groups and or people living below the poverty line

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5. Large population influx during sub-project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?			Local labor will be hired.
6. Social conflicts if workers from other areas are hired?		✓	contractor will hire labor at local level.
7. Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation?			
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?		✓	
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?		✓	
10. Any impact on sensitive receptors (mentioned above)		✓	
11. Any impact of negative nature on already existing infrastructure including public amenities		✓	No impact is anticipated.

Prepared By: A.M.O (I&S)
Name: Waqar Ahmed
Signature: 
Date: 30-9-2021

ASSISTANT MUNICIPAL ENGINEER
Municipal Corporation
Wazirabad

Endorsed By: DPO-ESSs.
Name: Tehmina Kiran
Signature: 
Date: 30-9-2021.

Environmental & Social Screening Checklist

Instructions:

Environmental and Social Focal Persons (ESFPs)¹ nominated by the MCs for PCP environmental and social management, will use this checklist in field for environmental and social screening and categorization of each and every sub-project proposed to be executed under the Program.

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 document² 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) The purpose of this E&S Screening Checklists is to identify potential "Negative" impacts of environmental and social attributes or to enhance the existing environmental & social benefits. Use the "remarks" section to discuss any anticipated mitigation measures.

Name of ESFP: *Waqar Ahmad*

Name of MC: *Wazirabad*

Sub-Project Sector: *Roads*

Sub-Project Title: *Widening and Improvement of Road from Veterinary Hospital to G.T Road via Railway Station*

Sub-Project Categorization:

E-1

S-1

E-2

S-2

E-3

S-3

Date of Screening: *30-9-2021*

Anticipated Project Activities

*Preparation of Sub-grade
Preparation of grade
Preparation of Sub-base & base*

Estimated Cost of Subprojects

Tentative Completion Time/Duration *02-3 months*

Estimated Labor for Subproject *20-25 person*

¹ In all MCs, ESFPs are notified by Local government, MO (I&S) are focal persons for environmental sector and MO(P) are focal persons for social sectors.

² It is meant as PC-I and/or engineering estimates of sub-project

Screening Questions	Yes	No	Remarks
A. Project Siting			
Is the Sub-Project area adjacent to or within any of the following:			
Environmentally sensitive areas?		/	
Legally protected Area		/	Not observed.
Any surface water body (river, canal, stream, lake, wetland) within 250 meter of the proposed sub project ³		/	"
Estuarine		/	"
Special area for protecting biodiversity		/	"
Buffer zone of protected area		/	"
Mangroves Forest		/	"
Man-made forest /game reserve, orchid /crops or any other area of environmental importance		/	"
Socially sensitive /important areas/communities/ people?			
PCRs and or any site of cultural/religious importance (Graveyard, Shrine, Mosque, Church, <i>Gordwarah</i> , Temple, Fort, archeological/historical site) within 100 m of the proposed subproject ⁴		/	Not observed.
Sensitive receptors (Schools, colleges, hospitals and clinics) within 100 meter of the proposed sub project ⁵			Govt Nusrat Girls School, Primary School, THQ, <i>Religious Hospital</i>
Any graveyard of local community (Muslims or Christians)		/	"
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 ⁶ of the society and women or children)?		/	"
Already existing infrastructure ⁷ (including public amenities) which may be required to dismantle or may be affected temporarily by any means?		/	"
B. Potential Environmental Impacts			
Will the Sub-Project cause...			
1. Disturbance to habitats/biodiversity of environmentally sensitive or protected areas?		/	Not anticipated
2. Cutting of trees?		/	"
3. Disruption to habitats/biodiversity of surrounding ecosystem/environment?		/	"

³ Ibid.

⁴ According to Environmental Assessment Guidelines adopted by Punjab EPA

⁵ Ibid.

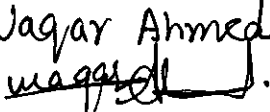
⁶ due to caste, creed, religion or gender e.g. transgender


⁷ Sewerage /Drainage system, Water supply lines, tube-wells, WAPDA/Telephone transmission lines/electric poles, Railway tracks, Gas pipelines, Roads, Shops/Plazas, Banks, Industry, Disposal stations etc.

4. Generation of wastewater during construction or operation?		/	4
5. Pollution of surface water/ground water due to wastewater discharge from construction site or due to direct/indirect disposal of waste water?		/	4
6. Alteration of surface water hydrology of waterways resulting in increased sediment in streams/ivers or due to increased soil erosion at construction site?		/	No surface water body found.
7. Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction?		/	Not anticipated
8. Over pumping of ground water, leading to salinization and ground subsidence?		/	4
9. Serious contamination of soil due to construction works?		/	4
10. Aggravation of solid waste problems in the area?		/	4
11. Generation of hazardous waste?		/	4
12. Increased air pollution due to sub-project construction and operation?		/	Dust pollution can mitigate by water sprinkling.
13. Noise and vibration due to sub-project construction or operation?		/	Negligible impact
14. Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents due to solid/liquid?		/	Not anticipated
15. Use of chemicals during construction?		/	4
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)?		/	4
2. Displacement or involuntary resettlement of people? (physical displacement and/or economic displacement) (If "Yes", please also fill Involuntary Resettlement Screening Checklist)		/	No involuntary resettlement involved.
3. Disproportionate impacts on the poor, women and children and or other vulnerable groups ⁸ (mentioned above)?		/	Not anticipated
4. Temporary impediments in movements of people/transport and animals?		/	4

⁸ Women, Children, Women headed households, People in old age, people having disabilities, socially isolated community groups and or people living below the poverty line

5. Large population influx during sub-project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?		/	Contractor will ensure hiring of local labor
6. Social conflicts if workers from other areas are hired?		/	✓
7. Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation?		/	PPEs would be used by labor.
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?		/	Not anticipated
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?		/	✓
10. Any impact on sensitive receptors (mentioned above)		/	✓
11. Any impact of negative nature on already existing infrastructure including public amenities		/	✓

Prepared By: A.M.O (I&S)
Name: Waqar Ahmed
Signature: 
Date: 30-09-2021
ASSISTANT MUNICIPAL OFFICER (I&S)
Municipal Committee
Wazirabad

Endorsed By: DPO ESSS
Name: Tehmina Kiran
Signature: 
Date: 30-09-2021