



PC-1

Punjab Cities Programme Improvement & Construction of Roads & Chowks
Project in Wazirabad City

ORIGINAL APPROVED COST	PKR Million. 200.890/-
ORIGINAL APPROVED GESTATION	12 Months Till June 2023
APPROVAL FORUM	DDSC (DDSC)

1. NAME OF THE PROJECT

Punjab Cities Programme Improvement & Construction of Roads & Chowks Project in Wazirabad City

2. LOCATION OF THE PROJECT

2.1. DISTRICT(S)

I. GUJRANWALA

2.2. TEHSIL(S)

I. WAZIRABAD

3. AUTHORITIES RESPONSIBLE FOR

3.1. SPONSORING AGENCY

- LG&CD

3.2. EXECUTION AGENCY

- LG&CD

3.3. OPERATIONS AND MAINTENANCE AGENCY

- LG&CD

3.4. CONCERNED FEDERAL MINISTRY

- FINANCE, REVENUE AND ECONOMIC AFFAIRS

4. PLAN PROVISION

Sr #	Description
1	Source of Funding: Scheme Listed in ADP CFY
2	GS No: 1769
3	Total Allocation: 1,329.900
4	Comments: Punjab Cities Program (PCP) is a World Bank funded Program with a total cost of USD 236.00 million and comprises of below mentioned components. Total loan from World Bank USD 200.00 million Component-1 Infrastructure development (PforR) USD 180.00 million Component-2 Technical Assistance USD 20.00 million MCs share (20% of PforR component) equivalent to: USD 36.00 million Total Program cost USD 236.00 million Component-2 i-e Technical Assistance component of Program costing USD 20.00 million is meant for management cost of the Program and capacity building of MCs & Government Departments and is included in the medium term/ five-year plan and has been funded now in ADP 2021-22 - under General Serial No-2521 with allocation of PKR 100.00 million as foreign component.

5. PROJECT OBJECTIVES

Project objectives are mentioned below

<p>5. Project objectives and its relationship with sector objectives</p>	<p><u>Sector Objectives</u></p> <p>The sector objectives include:</p> <ol style="list-style-type: none"> 1. Provision of efficient and effective municipality services to the masses. 2. Community development through improving basic infrastructure. 3. Clean and green environment for better living standards. 4. Effective use of land through master planning of urban areas. 5. Social uplifting and cohesion through provision of public open spaces and play grounds. 6. Ease in mobility and communication. 7. Cost efficient Solid Waste Management through waste to energy initiatives. 8. Capacity building of Local Governments. 9. Efficient Road network to make areas easily accessible <p><u>Objectives of the Project</u></p> <p>The Project aims at improvement of infrastructure of municipal services such as roads, chowks, cross roads, street lights, parks and parking shed for SWM machinery for improved communication and recreational facilities.</p> <p>Scope of the work for this particular project includes the rehabilitation and improvement of existing roads, chowks and drainage system along with the construction of new drainage system where needed. However, 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>
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6. DESCRIPTION AND JUSTIFICATION OF PROJECT

6.1 JUSTIFICATION OF PROJECT

Justification of project is given below

6. Description, justification, technical parameters and technology transfer aspects

<p>i. Present Condition</p>	<p>As per PLGA-12019 Urban Local Governments (ULGs) are basically and wholly responsible for delivery of the municipal services with a service delivery level which should satisfy the consumers and citizen. Unfortunately, the prevalent conditions of the service delivery are not encouraging in the city.</p> <p>The major reason of unsatisfactory service delivery is the lack of proper maintenance of the municipal infrastructure in all sectors causing consumer dissatisfaction at one end and degradation of the infrastructure on the other end apart from very low revenue recovery as the consumers are reluctant to pay because of deteriorated service delivery.</p> <p>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 of the city and the surrounding areas, is to improve the roads, chowks and important cross roads</p>																
<p>ii. Description of the subproject-</p>	<p>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.</p>																
<p>iii Detail of civil works, equipment & machinery and other physical facilities</p>	<p>The detail of roads and chowks to be improved, rehabilitated or constructed in the city, is given below</p> <table border="1" data-bbox="528 1391 1465 2031"> <thead> <tr> <th colspan="4">Improvement and construction of roads</th> </tr> <tr> <th>S. N.</th> <th>Name of road</th> <th>From-To</th> <th>Detail of works involved</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> <ul style="list-style-type: none"> • Geometric Improvement • Rehabilitation of Existing Pavement Structure • Pavement Marking • Street Lighting • Improvement of drainage system </td> </tr> <tr> <td>2</td> <td>P2-Awa Road</td> <td>City Park to Dhounkal Road</td> <td> <ul style="list-style-type: none"> • Geometric Improvement • Rehabilitation of Existing Pavement Structure • Pavement Marking </td> </tr> </tbody> </table>	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
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	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 		
<ul style="list-style-type: none"> • Chowks or Cross Roads 						
S.	Name of Chowk					
N.						
	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 		

<p>iv Indicate governess issues of the sector relevant to the project and strategy to resolve them</p>	<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.
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6.2 SECTORAL SPECIFIC INFORMATION

Sectoral specific information is already mentioned above in project objectives

7. CAPITAL COST ESTIMATES

Financial Components: Capital
Cost Center:OTHERS- (OTHERS)
Fund Center (Controlling):N/A

Grant Number:Engineering - (PC220036)
LO NO:N/A
A/C To be Credited:Assignment

PKR Million

Sr #	Object Code	2022-2023	
		Local	Foreign
1	A03970-Others	0.000	200.890
Total		0.000	200.890

<p>7- Capital Cost of Project</p>	<p>The summary of the works included in the project is given below;</p> <table border="1" data-bbox="531 284 1474 1160"> <thead> <tr> <th data-bbox="531 284 639 383">S. No</th> <th data-bbox="639 284 1257 383">Name of road</th> <th data-bbox="1257 284 1474 383">Cost (PKR million)</th> </tr> </thead> <tbody> <tr> <td data-bbox="531 383 639 470">1</td> <td data-bbox="639 383 1257 470">P1-Arif Shaheed Road & Double Railway crossing road</td> <td data-bbox="1257 383 1474 470">39.16</td> </tr> <tr> <td data-bbox="531 470 639 517">2</td> <td data-bbox="639 470 1257 517">P2-Awa Road</td> <td data-bbox="1257 470 1474 517">6.30</td> </tr> <tr> <td data-bbox="531 517 639 568">3</td> <td data-bbox="639 517 1257 568">P7- Western Circular Road</td> <td data-bbox="1257 517 1474 568">37.42</td> </tr> <tr> <td data-bbox="531 568 639 656">4</td> <td data-bbox="639 568 1257 656">P8- Bank of Nallah Palkhu & Railway Crossing</td> <td data-bbox="1257 568 1474 656">30.96</td> </tr> <tr> <td data-bbox="531 656 639 707">5</td> <td data-bbox="639 656 1257 707">CP-2 Telephone Exchange Chowk</td> <td data-bbox="1257 656 1474 707">6.64</td> </tr> <tr> <td data-bbox="531 707 639 759">6</td> <td data-bbox="639 707 1257 759">CP-3 Haji Pura Chowk</td> <td data-bbox="1257 707 1474 759">7.20</td> </tr> <tr> <td data-bbox="531 759 639 810">7</td> <td data-bbox="639 759 1257 810">Drainage System</td> <td data-bbox="1257 759 1474 810">16.25</td> </tr> <tr> <td data-bbox="531 810 639 862"></td> <td data-bbox="639 810 1257 862">Electrical Works</td> <td data-bbox="1257 810 1474 862">39.30</td> </tr> <tr> <td data-bbox="531 862 639 913">8</td> <td data-bbox="639 862 1257 913">Environment Health Safety Budget</td> <td data-bbox="1257 862 1474 913">1.64</td> </tr> <tr> <td data-bbox="531 913 639 965"></td> <td data-bbox="639 913 1257 965">Total</td> <td data-bbox="1257 913 1474 965">187.75</td> </tr> <tr> <td data-bbox="531 965 639 1016">9</td> <td data-bbox="639 965 1257 1016">Contingencies @2%</td> <td data-bbox="1257 965 1474 1016">3.75</td> </tr> <tr> <td data-bbox="531 1016 639 1068">10</td> <td data-bbox="639 1016 1257 1068">Punjab Sales Tax @5%</td> <td data-bbox="1257 1016 1474 1068">9.38</td> </tr> <tr> <td data-bbox="531 1068 639 1120"></td> <td data-bbox="639 1068 1257 1120">Grand Total</td> <td data-bbox="1257 1068 1474 1120">200.89</td> </tr> <tr> <td colspan="3" data-bbox="531 1120 1474 1160">See Annexure-B for details</td> </tr> </tbody> </table>	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	See Annexure-B for details		
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<p>ii- Basis of determining the estimates be provided.</p>	<p>The cost estimates have been framed on the basis of bill of quantities actually required at site and unit rates from the Market Rate System (MRS) issued by the Government of Punjab (District Gujranwala 2nd biannual of year 2022). 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="531 275 1430 723"> <thead> <tr> <th data-bbox="531 275 608 360">S. #</th> <th data-bbox="608 275 1235 360">Name of road / chowk</th> <th data-bbox="1235 275 1430 360">Year 2022-2023</th> </tr> </thead> <tbody> <tr> <td data-bbox="531 360 608 450">1</td> <td data-bbox="608 360 1235 450">P1-Arif Shaheed Road & Double Railway crossing road</td> <td data-bbox="1235 360 1430 450">100%</td> </tr> <tr> <td data-bbox="531 450 608 495">2</td> <td data-bbox="608 450 1235 495">P2-Awa Road</td> <td data-bbox="1235 450 1430 495">100%</td> </tr> <tr> <td data-bbox="531 495 608 539">3</td> <td data-bbox="608 495 1235 539">P7- Western Circular Road</td> <td data-bbox="1235 495 1430 539">100%</td> </tr> <tr> <td data-bbox="531 539 608 629">4</td> <td data-bbox="608 539 1235 629">P8- Bank of Nallah Palkhu & Railway Crossing</td> <td data-bbox="1235 539 1430 629">100%</td> </tr> <tr> <td data-bbox="531 629 608 674">5</td> <td data-bbox="608 629 1235 674">CP-2 Telephone Exchange Chowk</td> <td data-bbox="1235 629 1430 674">100%</td> </tr> <tr> <td data-bbox="531 674 608 723">6</td> <td data-bbox="608 674 1235 723">CP-3 Haji Pura Chowk</td> <td data-bbox="1235 674 1430 723">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="531 938 1485 1785"> <thead> <tr> <th data-bbox="531 938 592 1068">S. #</th> <th data-bbox="592 938 1112 1068">Items of Road/chowk</th> <th data-bbox="1112 938 1305 1068">Total (PKR million)</th> <th data-bbox="1305 938 1485 1068">Year 2022-2023 (100%)</th> </tr> </thead> <tbody> <tr> <td data-bbox="531 1068 592 1158">1</td> <td data-bbox="592 1068 1112 1158">P1-Arif Shaheed Road & Double Railway crossing road</td> <td data-bbox="1112 1068 1305 1158">39.16</td> <td data-bbox="1305 1068 1485 1158">39.16</td> </tr> <tr> <td data-bbox="531 1158 592 1202">2</td> <td data-bbox="592 1158 1112 1202">P2-Awa Road</td> <td data-bbox="1112 1158 1305 1202">6.30</td> <td data-bbox="1305 1158 1485 1202">6.30</td> </tr> <tr> <td data-bbox="531 1202 592 1247">3</td> <td data-bbox="592 1202 1112 1247">P7- Western Circular Road</td> <td data-bbox="1112 1202 1305 1247">37.42</td> <td data-bbox="1305 1202 1485 1247">37.42</td> </tr> <tr> <td data-bbox="531 1247 592 1337">4</td> <td data-bbox="592 1247 1112 1337">P8- Bank of Nullah Palkhu & Railway Crossing</td> <td data-bbox="1112 1247 1305 1337">30.96</td> <td data-bbox="1305 1247 1485 1337">30.96</td> </tr> <tr> <td data-bbox="531 1337 592 1382">5</td> <td data-bbox="592 1337 1112 1382">CP-2 Telephone Exchange Chowk</td> <td data-bbox="1112 1337 1305 1382">6.64</td> <td data-bbox="1305 1337 1485 1382">6.64</td> </tr> <tr> <td data-bbox="531 1382 592 1426">6</td> <td data-bbox="592 1382 1112 1426">CP-3 Haji Pura Chowk</td> <td data-bbox="1112 1382 1305 1426">7.20</td> <td data-bbox="1305 1382 1485 1426">7.20</td> </tr> <tr> <td data-bbox="531 1426 592 1471">7</td> <td data-bbox="592 1426 1112 1471">Drainage System</td> <td data-bbox="1112 1426 1305 1471">16.25</td> <td data-bbox="1305 1426 1485 1471">16.25</td> </tr> <tr> <td data-bbox="531 1471 592 1516">8</td> <td data-bbox="592 1471 1112 1516">Electrical Works</td> <td data-bbox="1112 1471 1305 1516">39.30</td> <td data-bbox="1305 1471 1485 1516">39.30</td> </tr> <tr> <td data-bbox="531 1516 592 1561">9</td> <td data-bbox="592 1516 1112 1561">Environment Health Safety Budget</td> <td data-bbox="1112 1516 1305 1561">1.64</td> <td data-bbox="1305 1516 1485 1561">1.64</td> </tr> <tr> <td data-bbox="531 1561 592 1606"></td> <td data-bbox="592 1561 1112 1606" style="text-align: center;">Total work outlay</td> <td data-bbox="1112 1561 1305 1606">187.75</td> <td data-bbox="1305 1561 1485 1606">187.75</td> </tr> <tr> <td data-bbox="531 1606 592 1695">10</td> <td data-bbox="592 1606 1112 1695">PST, contingencies, public awareness and Horticulture</td> <td data-bbox="1112 1606 1305 1695">13.13</td> <td data-bbox="1305 1606 1485 1695">13.13</td> </tr> <tr> <td data-bbox="531 1695 592 1740"></td> <td data-bbox="592 1695 1112 1740" style="text-align: center;">Total project cost (Millions)</td> <td data-bbox="1112 1695 1305 1740">200.89</td> <td data-bbox="1305 1695 1485 1740">200.89</td> </tr> <tr> <td data-bbox="531 1740 592 1785"></td> <td data-bbox="592 1740 1112 1785"></td> <td data-bbox="1112 1740 1305 1785"></td> <td data-bbox="1305 1740 1485 1785"></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 Nullah 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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8. ANNUAL OPERATING COST (POST COMPLETION)

Financial Components: Capital
Cost Center:OTHERS- (OTHERS)
Fund Center (Controlling):N/A

Grant Number:Engineering - (PC220036)
LO NO:N/A
A/C To be Credited:Assignment

PKR Million

Sr #	Object Code	2023-2024		2024-2025		2025-2026		2026-2027		2027-2028	
		Local	Foreign	Local	Foreign	Local	Foreign	Local	Foreign	Local	Foreign
1	A03970-Others	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

9. DEMAND AND SUPPLY ANALYSIS

Demand supply analysis information is given below

<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 is a large gap between the O&M expenditure and the revenue recovery.
- Large subsidies are being injected by MC to keep the services in operation
- Numerous public complaints are the talk of the day.
- Unsatisfactory municipal delivery is not encouraging the city to become engines of economic growth and hence the GDP of our city is much lower than the peers in the developing world.

Hence there is a large gap between the supply and demand which is to be bridged by improvement in the infrastructure and its management.

v-Designed capacity and output of the project

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:

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

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.
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10. FINANCIAL PLAN AND MODE OF FINANCING

10.1 FINANCIAL PLAN EQUITY INFORMATION

Financial plan equity information is given below

a) Equity	A. Loan/grant to MC						
	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:						
	<table border="1"> <tr> <td data-bbox="544 369 1075 450">Grant to Unit for the year 2022-2023 (80% of cost of PC-I)</td> <td data-bbox="1075 369 1453 450">PKR 160.71million</td> </tr> <tr> <td data-bbox="544 450 1075 530">20% Co-finance by MC (20% of the cost of PC-I)</td> <td data-bbox="1075 450 1453 530">PKR 40.17 million</td> </tr> <tr> <td data-bbox="544 530 1075 577">Total available funds</td> <td data-bbox="1075 530 1453 577">PKR 160.71 million</td> </tr> </table>	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
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20% Co-finance by MC (20% of the cost of PC-I)	PKR 40.17 million						
Total available funds	PKR 160.71 million						
B. Project Cost PKR 200.89 million *The loan is from World Bank to Government of Pakistan/Punjab which will trickle down to Wazirabad Unit as grant.							

10.2 FINANCIAL PLAN DEBT INFORMATION

Financial plan debt information is mentioned below

<p>10. Financial Plan</p> <p>Sources of financing</p> <p><u>Debt</u></p> <p>a) Indicate the local and foreign debt Loan</p>	<p>Below given loan for the Punjab Cities Program has been funded by World Bank for 16 PCP cities in Punjab.</p>	
	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.	

10.3 FINANCIAL PLAN GRANT INFORMATION

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

10.4 WEIGHT COST OF CAPITAL INFORMATION

Nil

11. PROJECT BENEFITS AND ANALYSIS

11.1 PROJECT BENEFIT ANALYSIS INFORMATION

Project benefits are mentioned below

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 Management Plans (ESMPs) are prepared and the necessary costs for implementation of ESMPs have been provided in this PC-</p>

	<p>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 out puts have been given above in Sr. No-9 (V). The social benefits to the citizen have been described at Sr. No-11(ii).</p>						
v.Unit cost analysis	<p>The unit cost analysis is produced below;</p> <table border="1" data-bbox="544 551 1461 680"> <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) <i>Planning and Design of projects</i></p> <p>The planning and design of the project has been entrusted to local consultants who have appointed staff and experts in road and related disciplines along with their support staff. The consultants will also appoint their staff for resident supervision of the project to verify and certify the items of works to be executed under this PC-I.</p> <p>b) Execution of the Project</p> <p>a) <i>PMDFC</i></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) <i>Consultants</i></p>						

	<p>PMDFC has employed consultants for detailed design and resident supervision of the projects who will deploy their staff for execution of the project.</p> <p><i>c) Municipality</i> 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><i>d) Contractor</i> The contractor responsible for execution of the sub project will employ skilled and un-skilled labor on this work.</p> <p>Indirect Employment Indirect employment for production of material such as cement, steel, stone metal, bitumen, bricks etc. will be generated.</p>
vii.Impacts of delays on project cost and viability	<p>The impact of delay in project implementation will;</p> <ul style="list-style-type: none"> • Result in increased project cost due to escalation in cost of material and labor. • Delay the benefits to the target group • Result in further deterioration of the infrastructure and the service delivery level.

11.2 ENVIRONMENTAL IMPACT ANALYSIS

Environment impact analysis is attached as Annexure-E

11.3 PACT ANALYSIS

undefined

11.4 ECONOMIC ANALYSIS

Economic Analysis is attached as Annexure-C

11.5 FINANCIAL ANALYSIS

N/A

12. IMPLEMENTATION SCHEDULE

12.1 IMPLEMENTATION SCHEDULE/GANTT CHART

Gantt chart is attached as Annexure-D

12.2 RESULT BASED MONITORING (RBM) INDICATORS

undefined

12.3 IMPLEMENTATION PLAN

The project is anticipated to commence by January 2023 and to be completed by October 2023 with project implementation period of 10 months.

12.4 M&E PLAN

undefined

12.5 RISK MITIGATION PLAN

undefined

12.6 PROCUREMENT PLAN

The procurement of works and goods will be done by Procurement Committee of Wazirabad Unit as per PPRA Rules

13. MANAGEMENT STRUCTURE AND MANPOWER REQUIREMENTS

Management structure manpower requirements information is given below

13- Management Structure and manpower requirements

<p>i. Administrative arrangements for the implementation of the project</p>	<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 District Council Unit 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 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

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

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.

15. CERTIFICATE

Focal Person Name: Muhammad Iftikhar Rasool

Designation: Deputy Program Director


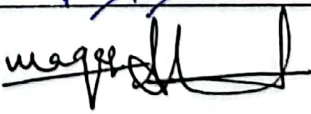

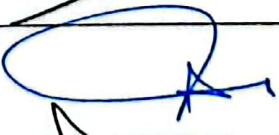
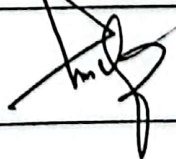
Email: miftikhar@pmdfc.org.pk

Tel. No.: 04299204386

Fax No:

Address: 184 Scotch Corner, Shahrah-e-Quaid-e-Azam, behind NIPA from, Lahore, 54000

<p>14-Additional projects /decisions required to optimize the investment being undertaken</p>	<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>
<p>15-Certificate</p>	<p>Certified that the project proposal has been prepared on the basis of guidelines provided by the Planning Commission for the preparation of PC-I for social sectors projects.</p>

<p>Prepared by</p>	<p>JERS Consultancy (Pvt) Ltd</p>	<p>Signatures</p>	
<p>Checked by</p>	<p>Municipal Officer (Infrastructure) District Council Unit Wazirabad</p>	<p>Signatures</p>	
	<p>Chief Officer District Council Unit Wazirabad</p>	<p>Signatures</p>	
	<p>Administrator Municipal Committee Wazirabad</p>	<p>Signatures</p>	
<p>Vetted by</p>	<p>Senior Program Officer PMDFC</p>	<p>Signatures</p>	
<p>Forwarded by</p>	<p>Secretary LG&CD</p>	<p>Signatures</p>	

17. RELATION WITH OTHER PROJECTS

20. MARGINALISATION OF PC-1

SR.NO.	CRITERIA	YES/NO	COMMENTS
Description & Objectives			
1	does the pc-i specify link/alignment with punjab growth strategy, punjab spatial strategy (if relevant) & sustainable development goals?	NO	
2	do project objectives/justification include focus on marginalised groups (women, pwds, minorities, transgender, poor etc.)?	NO	
Use of Gender Disaggregated Data			
1	has gender disaggregated data been used to determine need for the project? if yes, identity the source. if not, what additions/observations have been made to strengthen the pc-i?	NO	
2	was gender disaggregated data used to identify potetialimpact of the project on selected beneficiaries?	NO	
Social Impact			
1a	have marginalised groups been included as beneficiaries of the project?	NO	
1b	if yes, does the pc-1 specify a specific quota/percentage for the marginalised (women, peds, etc.)?	NO	
2	does the pc-1 include specific provisions for capacity building / training of women (if applicable)?	NO	
Results Based Monitoring			
1a	does the pc-i include a results based monitoring framework (rbmf)/logical framework?	NO	
1b	if yes, does the framework include measurable targets relating to impact on marginalised groups?	NO	
2	were sdg indicators used for determining targets included in the pc-i?	NO	
3	was gender disaggregated data used to establish baseline and develop quantifiable targets/key indicators?	NO	
4	if yes, identify the source/refresh institute(s)?	NO	
Inculsion/Participation			
1	was female representation ensured in planning and adp formulization?	NO	
2a	was stakeholder consultation held during adp formulization and/or pc-idevelopment?	NO	
2b	if yes, did the consultation include experts and representatives of marginalised groups and csos?	NO	

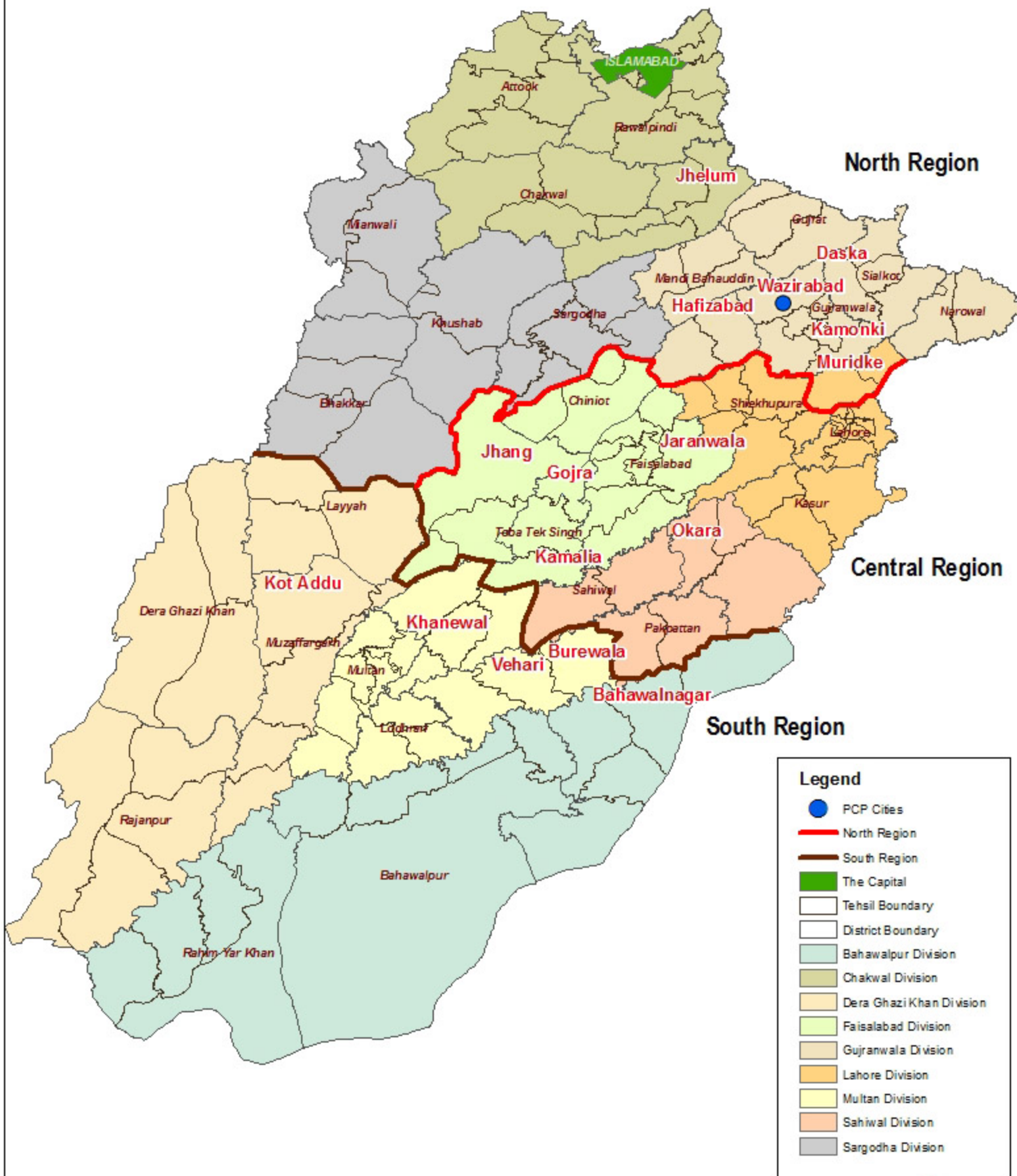
3	was participation of representatives of marginalised groups ensured in pc-1 risk assessment planning?	NO	
Monitoring & Evaluation			
1	does the project provide a role to communities in project monitoring and/or implementation (if relevant)?	NO	
2a	does the project include formation of a steering committee and/or project implementation committees?	NO	
2b	if yes, is there a provision to ensure representation of women in these committees?	NO	

Annexure(s)

Annexure-A
Location Map

Location Map (Punjab Cities Program)

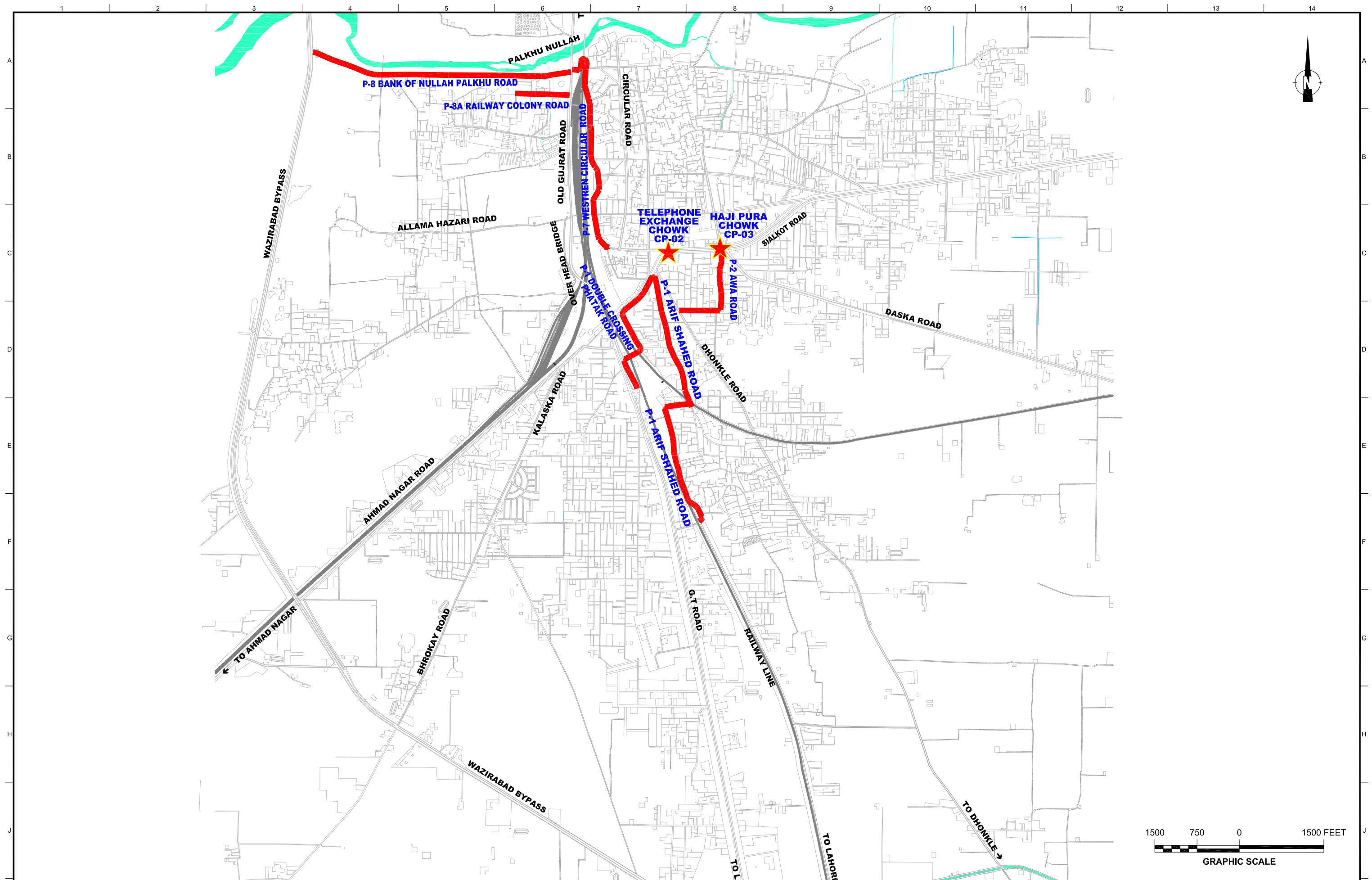
ANNEXURE - A




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	DRAWING NO: TS-01
CHECKED BY: Sadat Waleed	SCALE: UNIT=FEET 1"=1500'
DATE: Oct,2022	SHEET: 01 OF 01 JOB NO: 488-01

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) +	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 +	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 +	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, 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	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)						
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.)
		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

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.)
		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

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.)
		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

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.)
		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

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.)
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

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.)
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

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.)
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

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

SUPERVISION IN 16 CITIES OF PUNJAB

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

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

SUPERVISION IN 16 CITIES OF PUNJAB

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

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

SUPERVISION IN 16 CITIES OF PUNJAB

P-01 DOUBLE CROSSING PHATAK ROAD

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

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

SUPERVISION IN 16 CITIES OF PUNJAB

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

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

SUPERVISION IN 16 CITIES OF PUNJAB

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

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

SUPERVISION IN 16 CITIES OF PUNJAB

P-01 DOUBLE CROSSING PHATAK ROAD

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

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

SUPERVISION IN 16 CITIES OF PUNJAB

P-01 DOUBLE CROSSING PHATAK 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						
	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

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

SUPERVISION IN 16 CITIES OF PUNJAB

P-01 DOUBLE CROSSING PHATAK ROAD

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

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

SUPERVISION IN 16 CITIES OF PUNJAB

P-01 DOUBLE CROSSING PHATAK ROAD

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

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

SUPERVISION IN 16 CITIES OF PUNJAB

P-01 DOUBLE CROSSING PHATAK ROAD

CALCULATION OF QUANTITIES

ROADS NET WORK

Sr. No	Description	No.	Length	Width	Height	Qty.	Unit.
	Steel Work						
3	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-						
	(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

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

SUPERVISION IN 16 CITIES OF PUNJAB

P-01 DOUBLE CROSSING PHATAK ROAD

CALCULATION OF QUANTITIES

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

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

SUPERVISION IN 16 CITIES OF PUNJAB

P-01 DOUBLE CROSSING PHATAK 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.	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

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

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

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

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

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

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

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

PUNJAB CITIES PROGRAM (PCP)						
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB						
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, tapered from 225 mm at bottom to 100 mm at top, with 1500 mm x 60 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	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:				

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

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

PUNJAB CITIES PROGRAM (PCP)

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

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

PUNJAB CITIES PROGRAM (PCP)

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

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

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

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

SUPERVISION IN 16 CITIES OF PUNJAB

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

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

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

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

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

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

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 pre-laid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):-						
	ii) 6 mm sq (7/0.044")						
	For two nos. Earthing lead	18	20.00			360	Rft

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

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

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

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

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

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

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

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

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

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

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

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

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

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

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

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.
	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

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

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.
	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						

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

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.
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

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

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.
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

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

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.
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						

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 prelaidd G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):-						

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

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

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) 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.)
		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, 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	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

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.)
		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) 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.)
		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)

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

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
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.	205.80 %Sft
	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) 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
						Total.	450.00 %Cft

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

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

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

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.						

DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS

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

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.)
		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

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.)
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 embedded 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				

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.)
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

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

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.
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

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

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

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

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

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, embeded 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						

**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.
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

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						

**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.
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)					
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS 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) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB							
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		Carriage					
	1/1	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)							
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS							
SUPERVISION IN 16 CITIES OF PUNJAB							
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)							
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS							
SUPERVISION IN 16 CITIES OF PUNJAB							
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		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.					
	1/1	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.					16,676.12
		Total Amount per 100 Sft					16,676.12
		Total Cost for Per Sft					166.76

PUNJAB CITIES PROGRAM (PCP)					
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS					
SUPERVISION IN 16 CITIES OF PUNJAB					
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)									
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS									
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		Amount (Rs.)		
	Page No112								
1	A	RPC Manhole Cover	1.00	No	7000	No	7,000.00		
		Carriage					700		
							Total	7,700.00	
		LABOUR							
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	
		ITEM RATES							
		Composite rate Set					Rs.	10,065	

PUNJAB CITIES PROGRAM (PCP)						
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS						
SUPERVISION IN 16 CITIES OF PUNJAB						
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)									
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS									
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 magnetic contactor, photocell for automatic operation of lights, CBs, Hand/Off/Auto switch, push button and all necessary accessories complete in all respects. LCP shall be manufactured as per specifications, single line diagram complete in all respect up to the satisfaction of Engineer incharge.									
LCP									
								Unit.	Each
Sr. No.	Ref Input Rate	Detail	Unit Rate (British System) per Each						
			Qty	Rate Per Unit		Amount (Rs.)			
1	MR	LCP	1.00	No	270,855	No.	270,855		
								Total	270,855
		Contractor's Profit	20	%					54,171
		Total							325,026
		<u>ITEM RATES</u>							
		Composite rate Set						Rs.	325,026

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 Search Need Help

KIDS Fashion Women Fashion Men Fashion Beauty & Grooming Shop By Brand **Combo And De**

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

Surgical Mask Box 3-Ply (50 Pcs)
★★★★★ 0.00 Ratings | 0 Reviews
Rs.700.00 ~~Rs.1,100.00~~ 36% off

20 g 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

Quantity

3. Hand Gloves

Daraz Search in Daraz

Categories ▾

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

Mail Nitrile gloves XL

★★★★☆ 58 Ratings | 5 Answered Questions

Brand: Ingco | More Protective Clothing & Equipment from Ingco

Rs. 245
Rs. 325 -25%

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

Color family White

Size XL

NITRILE GLOVES **HGNG01**

4. Safety Hard helmets

Daraz Search in Daraz

Categories ▾

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

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

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

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

Quantity Only 1 items left

Free Shipping

5. Safety Goggles

jbsaeed NEW ARRIVALS KITCHENWARE HOUSEHOLD BATHROOM HOME DECOR OUTDOOR HARDWARE

BUY IN INSTALMENTS HAPPY CUSTOMERS BLOGS SALE

★★★★☆ 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 ADD TO CART INQUIRY

♥ ADD TO WISH LIST 🔄 COMPARE THIS PRODUCT

★★★★★ 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 ADD TO CART INQUIRY

♥ ADD TO WISH LIST 🔄 COMPARE THIS PRODUCT

★★★★★ 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

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.

**TENTATIVE PROJECT IMPLEMENTATION SCHEDULE FOR IMPROVEMENT & CONSTRUCTION OF ROADS IN
Wazirabad CITY YEAR (2022-2023)**

Road & Chowk No.	Road & Chowk Name	JAN-23	FEB-23	MAR-23	APR-23	MAY-23	JUNE-23	JULY-23	AUG-23	SEPT-23	OCT-23
P1	Arif Shaheed Road & Railway Crossing Road	█	█	█	█	█					
P2	Awa Road			█	█	█	█				
CP3	CP-3 Haji Pura Chowk			█	█	█	█				
P7	Western Circular Road					█	█	█	█		
P8	Bank of Nallah Palkhu Road & RailwayLine Road						█	█	█	█	█
CP2	CP-2 Telephone Exchange Chowk									█	█

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 Walled Pakho)*

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
laying of concrete.*

Estimated Cost of Subprojects

Tentative Completion Time/Duration

02-3 months

Estimated Labor for Subproject

25-30 persons

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

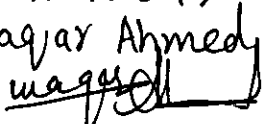
Screening Questions	Yes	No	Remarks
A. Project Siting			
Is the Sub-Project area adjacent to or within any of the following:			
Environmentally sensitive areas?			
Legally protected Area		/	Not Observed
Any surface water body (river, canal, stream, lake, wetland) within 250 meter of the proposed sub project 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

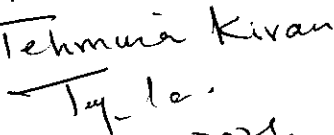
³ Ibid.⁴ According to Environmental Assessment Guidelines adopted by Punjab EPA⁵ Ibid.⁶ due to caste, creed, religion or gender e.g. transgender⁷ Sewerage /Drainage system, Water supply lines, tube-wells, WAPDA/Telephone transmission lines/electric poles, Railway tracks, Gas pipelines, Roads, Shops/Plazas, 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.

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: *Road.*

Sub-Project Title: *Rehabilitation of Road from Chowk Guru Kotla to Salka Road (Muslimi Road).*

Sub- Project Categorization:

E-1	S-1
<u>E-2</u>	S-2
E-3	<u>S-3</u>

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:

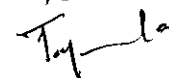
Date: ASSISTANT MUNICIPAL OFFICER IAS
Municipal Committee
Wazirabad

Endorsed By:

Name:

DPO-ESSs.

Signature:

Tehmina Kiran


Date:

30-6-2021

Environmental & Social Screening Checklist

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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 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

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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		/	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?		/	"

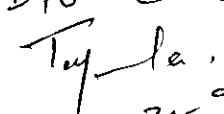
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4. Generation of wastewater during construction or operation?	/	"
5. Pollution of surface water/ground water due to wastewater discharge from construction site or due to direct/indirect disposal of waste water?	/	"
6. Alteration of surface water hydrology 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 sprinklers
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

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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 ¹
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 EIA strictly.
13. Noise and vibration due to sub-project construction or operation?	✓		noise pollution can be generate. Contractor will follow EIA.
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

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: *[Signature]*
 Date: 30-9-2021

ASSISTANT MUNICIPAL ENGINEER
 Municipal Corporation
 Wazirabad

Endorsed By: DPO-ESSs.
 Name: Tehmina Kiran
 Signature: *[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

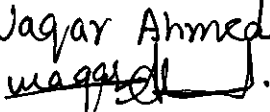
Screening Questions	Yes	No	Remarks
A. Project Siting			
Is the Sub-Project area adjacent to or within any of the following:			
Environmentally sensitive areas?		/	
Legally protected Area		/	Not Observed.
Any surface water body (river, canal, stream, lake, wetland) within 250 meter of the proposed sub 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>Relief 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 EPA⁵ Ibid.⁶ due to caste, creed, religion or gender e.g. transgender⁷ 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