



Local Government & Community Development Department

Punjab Cities Program Construction of SWM Parking Area in Wazirabad City

PC-I

Estimated Cost Million PKR.120.633

March 2023

Municipal Committee Wazirabad



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Punjab Cities Program

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

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

Project Serial Number

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

1. Name of the project	Punjab Cities Program Construction of Parking Area in Wazirabad city	
2.Location	Wazirabad is an industrial city located in Gujranwala District, situated on the banks of the Chenab River nearly 100 kilometres north of Lahore on the Grand Trunk Road. It is 45 kilometres from Sialkot, 30 kilometres from the district capital - Gujranwala and about 12 kilometres from Gujrat. It has 32°26' North latitude and 74° 07' East longitude and elevation of 230 meters (755 feet) above mean sea level. Location map of the city is attached in Annexure-A	
3. Authorities responsible for		
i- Sponsoring	Government of the Punjab (through World Bank funding)	
ii- Execution	Municipal Committee Wazirabad	
iii- Operation and Maintenance	Municipal Committee Wazirabad	
iv-Concerned Provincial Department	Local Government and Community Development Department Punjab	
4a.Plan Provision		
i. If the project is included in medium term/five year plan, specify actual allocation	Punjab Cities Program (PCP) is a World Bank funded Program with a total cost of USD 236.00 million and comprises of below mentioned components.	
	Total loan from World Bank	USD 200.00 million
	Component-1 Infrastructure development (PforR)	USD 180.00 million
	Component-2 Technical Assistance	USD 20.00 million
	MCs share (20% of PforR component) equivalent to:	USD 36.00 million
	Total Program cost	USD 236.00 million

	Component-2 i-e Technical Assistance component of Program costing USD 20.00 million is meant for management cost of the Program and capacity building of MCs & Government Departments and is included in the medium term/ five-year plan and has been funded now in ADP 2022-23 - under General Serial No-1769 with allocation of PKR 1329.90 million as foreign component.
ii- If not included in the current plan, what warrants its inclusion and how it is now proposed to be accommodated	Not applicable
iii If the project is proposed to be financed out of block provision indicate.	The Project is being financed by World Bank as Donor along with 20% co-financing from the Program Units and is not proposed to be financed out of block allocation.
4b- Provision in the current year PSDP	PKR. 1329.90.00 million
5. Project objectives and its relationship with sector objectives	<p><u>Sector Objectives</u> The sector objectives include:</p> <ol style="list-style-type: none"> 1. Provision of efficient and effective municipality services to the masses. 2. Community development through improving basic infrastructure. 3. Clean and green environment for better living standards. 4. Effective use of land through master planning of urban areas. 5. Social uplifting and cohesion through provision of public open spaces and play grounds. 6. Ease in mobility and communication. 7. Cost efficient Solid Waste Management through waste to energy initiatives. 8. Capacity building of Local Governments. 9. Efficient Road network to make areas easily accessible <p><u>Objectives of the Project</u> The Punjab Cities Program aims at improvement of infrastructure of municipal services such as roads, cross roads, street lights, parks and parking shed for SWM machinery for improved communication and recreational facilities.</p> <p>Scope of the work for this particular project includes the construction of Parking shed for SWM Machinery.</p>

	<p>The Project has the following objectives;</p> <ol style="list-style-type: none"> 1. Provision of suitable parking area for the MC Vehicles. 2. Making MC self-sufficient in small repairs to the machinery & Equipment possessed by MC 3. Provision of a washing facilities for the vehicles 4. Effective protection to the vehicles against the solar radiation and Ultraviolet rays, rain, hail, wind, and dust. 5. Slowing down the deterioration of vehicles, therefore reducing the cost of maintenance. 6. Enhancement of the security of vehicles during non-working hours. 7. Better watch and ward of MC machinery and equipment and reduction of losses due to theft of equipment and spares. 8. Provision of better solid waste management service by protection of the machinery and equipment. <p>Hence, the objectives of the project are in line with the sector objectives at serial No-1, 2, 3 & 7 and the project forms integral part of the concerned sector.</p>
<p>6. Description, justification, technical parameters and technology transfer aspects</p>	
<p>i. Present Condition</p>	<p>As per PLGA-12019 Urban Local Governments (ULGs) are basically and wholly responsible for delivery of the municipal services with a service delivery level which should satisfy the consumers and citizen. Unfortunately, the prevalent conditions of the service delivery are not encouraging in the city.</p> <p>The major reason of unsatisfactory service delivery is the lack of proper maintenance of the municipal infrastructure in all sectors causing consumer dissatisfaction at one end and degradation of the infrastructure on the other end apart from very low revenue recovery as the consumers are reluctant to pay because of deteriorated service delivery.</p> <p>MC Wazirabad has some machinery and equipment which is already being used for collection and disposal of the solid waste. Under Punjab Cities Program modern, efficient and cost-effective machinery and equipment has been provided to MC Wazirabad for provision of better solid waste management facilities to the people of Wazirabad.</p> <p>At present, there is no appropriate parking space available with MC for the existing and newly procured machinery and equipment and dire need for parking area facility is being felt. Currently the solid waste machinery is being parked under open sky in various spaces available with MC. Absence of permanent parking space can cause machinery</p>

	deterioration and compromise its safety that will lead to non-sustainability of solid waste management.																												
ii. Description of the subproject-	The project comprises of construction of Parking Area for solid waste management and other machinery and equipment possessed by MC over an area of 10.28 Kanals in the city. Detail of the components of Parking Area have been given in the table below.																												
iii Detail of civil works, equipment & machinery and other physical facilities	<p>The detail of Parking Shed for SWM Machinery to be constructed in the city, is given below:</p> <p>Location: Arazi Jhalaran near Fruit and Vegetable Market, GT Road, Wazirabad</p> <table border="1"> <thead> <tr> <th>S. N.</th> <th>Detail of works</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Boundary wall, gates and fencing(for future extension)</td> </tr> <tr> <td>2</td> <td>Sheds for vehicles with trusses and Aluzinc sheeting at the top</td> </tr> <tr> <td>3</td> <td>Office room with toilet</td> </tr> <tr> <td>4</td> <td>Workshop with tool room and toilet</td> </tr> <tr> <td>5</td> <td>Washing ramp</td> </tr> <tr> <td>6</td> <td>Sitting room for staff with toilets</td> </tr> <tr> <td>7</td> <td>Parking aprons</td> </tr> <tr> <td>8</td> <td>Store room</td> </tr> <tr> <td>9</td> <td>Guard room</td> </tr> <tr> <td>10</td> <td>Tyre Shop</td> </tr> <tr> <td>11</td> <td>Generator pad</td> </tr> <tr> <td>12</td> <td>Water supply and drainage system</td> </tr> <tr> <td>13</td> <td>Approach road</td> </tr> </tbody> </table>	S. N.	Detail of works	1	Boundary wall, gates and fencing(for future extension)	2	Sheds for vehicles with trusses and Aluzinc sheeting at the top	3	Office room with toilet	4	Workshop with tool room and toilet	5	Washing ramp	6	Sitting room for staff with toilets	7	Parking aprons	8	Store room	9	Guard room	10	Tyre Shop	11	Generator pad	12	Water supply and drainage system	13	Approach road
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iv Indicate governess issues of the sector relevant to the project and strategy to resolve them	<ul style="list-style-type: none"> • MC 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 in not up to the mark in such Unit. Trainings will be imparted by PMDFC to the officers as well as the field staff under the Program but practicing the interventions and method/procedures learnt in these trainings is the actual requirement in which MCs are lacking at present. Hence inculcating the mind set for good repair and maintenance is the major requirement for improving the service delivery level. 																												

7- Capital Cost of Project	<p>The summary of the works included in the project is given below;</p> <table border="1" data-bbox="560 282 1477 1704"> <thead> <tr> <th data-bbox="560 282 675 412">S. No</th> <th data-bbox="675 282 1286 412">Item of works</th> <th data-bbox="1286 282 1477 412">Cost (PKR million)</th> </tr> </thead> <tbody> <tr><td>1</td><td>Office Building</td><td>2.743</td></tr> <tr><td>2</td><td>Sitting Room</td><td>1.990</td></tr> <tr><td>3</td><td>Guard Room</td><td>0.603</td></tr> <tr><td>4</td><td>Tyre Shop</td><td>0.602</td></tr> <tr><td>5</td><td>Store Room</td><td>1.760</td></tr> <tr><td>6</td><td>Workshop</td><td>3.339</td></tr> <tr><td>7</td><td>Parking Shed (Size 150' X 32')</td><td>15.177</td></tr> <tr><td>8</td><td>Parking Shed (Size 120' X 32') (2 Nos.)</td><td>24.451</td></tr> <tr><td>9</td><td>Parking Shed (Size 90'' X 32')</td><td>9.287</td></tr> <tr><td>10</td><td>Parking Shed (Size 60' X 32')</td><td>6.360</td></tr> <tr><td>11</td><td>Washing Pit</td><td>0.573</td></tr> <tr><td>12</td><td>Generator Pad</td><td>0.167</td></tr> <tr><td>13</td><td>Pump Pad</td><td>0.015</td></tr> <tr><td>14</td><td>Septic Tank</td><td>0.325</td></tr> <tr><td>15</td><td>Soakage Well</td><td>0.215</td></tr> <tr><td>16</td><td>External Work (Boundary Wall + Tuff Paver + Lawn)</td><td>25.150</td></tr> <tr><td>17</td><td>External Plumbing Work</td><td>0.750</td></tr> <tr><td>18</td><td>External Electrical Work</td><td>9.704</td></tr> <tr><td>19</td><td>Tube Well</td><td>3.416</td></tr> <tr><td>20</td><td>Environmental Health & Safety Cost</td><td>0.112</td></tr> <tr><td></td><td style="text-align: right;">Total cost</td><td>106.755</td></tr> <tr><td></td><td>Contingencies @2%</td><td>2.135</td></tr> <tr><td></td><td>Punjab Sales Tax @5%</td><td>5.337</td></tr> <tr><td></td><td>Price Escalation @6%</td><td>6.405</td></tr> <tr><td></td><td style="text-align: right;">Grand Total</td><td>120.633</td></tr> <tr><td></td><td colspan="2">See Annexure-B for details</td></tr> </tbody> </table>	S. No	Item of works	Cost (PKR million)	1	Office Building	2.743	2	Sitting Room	1.990	3	Guard Room	0.603	4	Tyre Shop	0.602	5	Store Room	1.760	6	Workshop	3.339	7	Parking Shed (Size 150' X 32')	15.177	8	Parking Shed (Size 120' X 32') (2 Nos.)	24.451	9	Parking Shed (Size 90'' X 32')	9.287	10	Parking Shed (Size 60' X 32')	6.360	11	Washing Pit	0.573	12	Generator Pad	0.167	13	Pump Pad	0.015	14	Septic Tank	0.325	15	Soakage Well	0.215	16	External Work (Boundary Wall + Tuff Paver + Lawn)	25.150	17	External Plumbing Work	0.750	18	External Electrical Work	9.704	19	Tube Well	3.416	20	Environmental Health & Safety Cost	0.112		Total cost	106.755		Contingencies @2%	2.135		Punjab Sales Tax @5%	5.337		Price Escalation @6%	6.405		Grand Total	120.633		See Annexure-B for details	
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ii- Basis of determining the estimates be provided.	<p>The cost estimates have been framed on the basis of bill of quantities actually required at site and unit rates from the Market Rate System (MRS) issued by the Government of Punjab (District Gujranwala 1st Bi-Annual of year 2023).</p> <p>For items not available in the MRS, the same have been analyzed as per prevailing market rates.</p>																																													
iii- Provide year wise estimation of physical activities	<p>Physical phasing of the project is included in the following table:</p> <table border="1" data-bbox="561 533 1471 1323"> <thead> <tr> <th data-bbox="561 533 635 616">S. #</th> <th data-bbox="635 533 1264 616">Item of works</th> <th data-bbox="1264 533 1471 616">Year 2022-2023</th> </tr> </thead> <tbody> <tr> <td data-bbox="561 616 635 698">1</td> <td data-bbox="635 616 1264 698">Boundary wall, gates and fencing(for future extension)</td> <td data-bbox="1264 616 1471 698">100%</td> </tr> <tr> <td data-bbox="561 698 635 781">2</td> <td data-bbox="635 698 1264 781">Sheds for vehicles with trusses and Aluzinc sheeting at the top</td> <td data-bbox="1264 698 1471 781">100%</td> </tr> <tr> <td data-bbox="561 781 635 864">3</td> <td data-bbox="635 781 1264 864">Office room with toilet</td> <td data-bbox="1264 781 1471 864">100%</td> </tr> <tr> <td data-bbox="561 864 635 947">4</td> <td data-bbox="635 864 1264 947">Workshop with tool room and toilet</td> <td data-bbox="1264 864 1471 947">100%</td> </tr> <tr> <td data-bbox="561 947 635 1030">5</td> <td data-bbox="635 947 1264 1030">Washing ramp</td> <td data-bbox="1264 947 1471 1030">100%</td> </tr> <tr> <td data-bbox="561 1030 635 1113">6</td> <td data-bbox="635 1030 1264 1113">Sitting room for staff with toilets</td> <td data-bbox="1264 1030 1471 1113">100%</td> </tr> <tr> <td data-bbox="561 1113 635 1196">7</td> <td data-bbox="635 1113 1264 1196">Parking aprons</td> <td data-bbox="1264 1113 1471 1196">100%</td> </tr> <tr> <td data-bbox="561 1196 635 1279">8</td> <td data-bbox="635 1196 1264 1279">Store room</td> <td data-bbox="1264 1196 1471 1279">100%</td> </tr> <tr> <td data-bbox="561 1279 635 1361">9</td> <td data-bbox="635 1279 1264 1361">Guard room</td> <td data-bbox="1264 1279 1471 1361">100%</td> </tr> <tr> <td data-bbox="561 1361 635 1444">10</td> <td data-bbox="635 1361 1264 1444">Tyre Shop</td> <td data-bbox="1264 1361 1471 1444">100%</td> </tr> <tr> <td data-bbox="561 1444 635 1527">11</td> <td data-bbox="635 1444 1264 1527">Generator pad</td> <td data-bbox="1264 1444 1471 1527">100%</td> </tr> <tr> <td data-bbox="561 1527 635 1610">12</td> <td data-bbox="635 1527 1264 1610">Water supply and drainage system</td> <td data-bbox="1264 1527 1471 1610">100%</td> </tr> <tr> <td data-bbox="561 1610 635 1693">13</td> <td data-bbox="635 1610 1264 1693">Approach road</td> <td data-bbox="1264 1610 1471 1693">100%</td> </tr> <tr> <td data-bbox="561 1693 635 1776">14</td> <td data-bbox="635 1693 1264 1776">Contingencies & PRS Taxes</td> <td data-bbox="1264 1693 1471 1776">100%</td> </tr> </tbody> </table>	S. #	Item of works	Year 2022-2023	1	Boundary wall, gates and fencing(for future extension)	100%	2	Sheds for vehicles with trusses and Aluzinc sheeting at the top	100%	3	Office room with toilet	100%	4	Workshop with tool room and toilet	100%	5	Washing ramp	100%	6	Sitting room for staff with toilets	100%	7	Parking aprons	100%	8	Store room	100%	9	Guard room	100%	10	Tyre Shop	100%	11	Generator pad	100%	12	Water supply and drainage system	100%	13	Approach road	100%	14	Contingencies & PRS Taxes	100%
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iv- Phasing of capital cost on the basis of each item of work.	<p>Phasing of capital cost of the project is included in the following table: (All figures are in million rupees)</p> <table border="1" data-bbox="561 1422 1471 2020"> <thead> <tr> <th data-bbox="561 1422 614 1585">S. #</th> <th data-bbox="614 1422 1136 1585">Items of Shed</th> <th data-bbox="1136 1422 1327 1585">Total cost (Million Rs)</th> <th data-bbox="1327 1422 1471 1585">Year 2022-2023 (Million Rs)</th> </tr> </thead> <tbody> <tr> <td data-bbox="561 1585 614 1630">1</td> <td data-bbox="614 1585 1136 1630">Office Building</td> <td data-bbox="1136 1585 1327 1630">2.743</td> <td data-bbox="1327 1585 1471 1630">2.743</td> </tr> <tr> <td data-bbox="561 1630 614 1675">2</td> <td data-bbox="614 1630 1136 1675">Sitting Room</td> <td data-bbox="1136 1630 1327 1675">1.990</td> <td data-bbox="1327 1630 1471 1675">1.990</td> </tr> <tr> <td data-bbox="561 1675 614 1720">3</td> <td data-bbox="614 1675 1136 1720">Guard Room</td> <td data-bbox="1136 1675 1327 1720">0.603</td> <td data-bbox="1327 1675 1471 1720">0.603</td> </tr> <tr> <td data-bbox="561 1720 614 1765">4</td> <td data-bbox="614 1720 1136 1765">Tyre Shop</td> <td data-bbox="1136 1720 1327 1765">0.602</td> <td data-bbox="1327 1720 1471 1765">0.602</td> </tr> <tr> <td data-bbox="561 1765 614 1809">5</td> <td data-bbox="614 1765 1136 1809">Store Room</td> <td data-bbox="1136 1765 1327 1809">1.760</td> <td data-bbox="1327 1765 1471 1809">1.760</td> </tr> <tr> <td data-bbox="561 1809 614 1854">6</td> <td data-bbox="614 1809 1136 1854">Workshop</td> <td data-bbox="1136 1809 1327 1854">3.339</td> <td data-bbox="1327 1809 1471 1854">3.339</td> </tr> <tr> <td data-bbox="561 1854 614 1899">7</td> <td data-bbox="614 1854 1136 1899">Parking Shed (Size 150' X 32')</td> <td data-bbox="1136 1854 1327 1899">15.177</td> <td data-bbox="1327 1854 1471 1899">15.177</td> </tr> <tr> <td data-bbox="561 1899 614 1989">8</td> <td data-bbox="614 1899 1136 1989">Parking Shed (Size 120' X 32') (2 Nos.)</td> <td data-bbox="1136 1899 1327 1989">24.451</td> <td data-bbox="1327 1899 1471 1989">24.451</td> </tr> <tr> <td data-bbox="561 1989 614 2020">9</td> <td data-bbox="614 1989 1136 2020">Parking Shed (90' X 72')</td> <td data-bbox="1136 1989 1327 2020">9.287</td> <td data-bbox="1327 1989 1471 2020">9.287</td> </tr> </tbody> </table>	S. #	Items of Shed	Total cost (Million Rs)	Year 2022-2023 (Million Rs)	1	Office Building	2.743	2.743	2	Sitting Room	1.990	1.990	3	Guard Room	0.603	0.603	4	Tyre Shop	0.602	0.602	5	Store Room	1.760	1.760	6	Workshop	3.339	3.339	7	Parking Shed (Size 150' X 32')	15.177	15.177	8	Parking Shed (Size 120' X 32') (2 Nos.)	24.451	24.451	9	Parking Shed (90' X 72')	9.287	9.287					
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	15	Soakage Well	0.215	0.215
	16	External Boundary Wall + Tuff Paver + Lawn	25.150	25.150
	17	External Plumbing Work	0.750	0.750
	18	External Electrical Work	9.704	9.704
	19	Tube Well	3.416	3.416
	20	Environmental Mitigation Cost	0.112	0.112
		PST, Contingencies, Escalation	4.626	4.626
		Total	120.633	120.633
8-Annual recurrent cost after completion of the project and source of financing	Cost in Million = Rs. 1.367 (details attached in Annexure-1)			
9- Demand & Supply Analysis i- Existing Capacity of services	<p>Existing supply level</p> <ul style="list-style-type: none"> • There is no existing parking facility for the SWM machinery. Resultantly the vehicles are parked at open spaces with no protection. • MC Wazirabad is unable to protect the solid waste transportation and other MC vehicles because of non-availability of appropriate parking area. 			
ii- Projected Demand for 10 years	<p>The Parking area is required to park and protect the solid waste transportation and other MC vehicles.</p> <ul style="list-style-type: none"> •The influence and value of parking spaces in planning for livable communities is very essential. Parking space is more than a necessary element of larger residential or commercial uses; it merits consideration as a distinct land use that affects travel behavior and the environment. The provision of parking lots reduces the congestion on streets and roads and improves traffic flow. District Wazirabad lacks parking space for the SWM Machinery which are therefore parked in open or rental spaces. The proposal is to construct a parking shed for SWM machinery to accommodate a total of 36 vehicles. •The municipal services require radical improvement to enhance the efficiency of the service to increase service delivery to a satisfactory level. •Many shortcomings, problems and bottlenecks have been observed in the present situation which could not be addressed by MC due to funding constraints and now have been proposed to be addressed by the construction of the municipal services infrastructure. 			

iii- Capacity of other similar projects being implemented in public/private sector	No other project of this nature is being implemented in public as well as private sector because of funding constrains in the Unit.												
iv- Supply and Demand gaps	As explained above there is no parking area in Wazirabad City for solid waste transportation and other MC vehicles. So there is a large gap between the supply and demand.												
v-Designed capacity and output of the project	<p>1)-Table showing details of the parking area is given below:</p> <table border="1" data-bbox="574 618 1469 1043"> <thead> <tr> <th rowspan="2">Location</th> <th rowspan="2">Components</th> <th rowspan="2">No. of Sheds</th> <th colspan="2">Area</th> </tr> <tr> <th>Total area</th> <th>Shed area & Nos.</th> </tr> </thead> <tbody> <tr> <td>Arazi Jhalaran near Fruit and Vegetable Market, GT Road, Wazirabad</td> <td>As listed in section-7</td> <td>05</td> <td>10.28 Kanals</td> <td>1 No =150'x32' 2 Nos= 120'x32' 1 No = 90'x32' 1 No = 60'x32'</td> </tr> </tbody> </table> <p>2)-Parking shed is designed for 10-year life. 3)-This Parking shed is designed for 40 vehicles of SWM Machinery.</p>	Location	Components	No. of Sheds	Area		Total area	Shed area & Nos.	Arazi Jhalaran near Fruit and Vegetable Market, GT Road, Wazirabad	As listed in section-7	05	10.28 Kanals	1 No =150'x32' 2 Nos= 120'x32' 1 No = 90'x32' 1 No = 60'x32'
Location	Components				No. of Sheds	Area							
		Total area	Shed area & Nos.										
Arazi Jhalaran near Fruit and Vegetable Market, GT Road, Wazirabad	As listed in section-7	05	10.28 Kanals	1 No =150'x32' 2 Nos= 120'x32' 1 No = 90'x32' 1 No = 60'x32'									
<p>10. Financial Plan Sources of financing <u>Debt</u> a) Indicate the local and foreign debt Loan</p>	<p>Below given loan for the Punjab Cities Program has been funded by World Bank for 16 PCP cities in Punjab.</p> <table border="1" data-bbox="558 1256 1469 1603"> <tr> <td>Total loan to Government of Pakistan/Punjab</td> <td>USD 200 million</td> </tr> <tr> <td>Component-1 for Infrastructure Development</td> <td>USD 180 million</td> </tr> <tr> <td>Component-2 for Investment Project Financing For capacity building of MCs & three Govt. organization and program management.</td> <td>USD 20 million</td> </tr> <tr> <td>20% share of Municipalities is equivalent to</td> <td>USD 36 million</td> </tr> <tr> <td>Total funds available for Infrastructure Development</td> <td>USD 216 million</td> </tr> </table> <p>This project will be funded under this financing.</p>	Total loan to Government of Pakistan/Punjab	USD 200 million	Component-1 for Infrastructure Development	USD 180 million	Component-2 for Investment Project Financing For capacity building of MCs & three Govt. organization and program management.	USD 20 million	20% share of Municipalities is equivalent to	USD 36 million	Total funds available for Infrastructure Development	USD 216 million		
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Total funds available for Infrastructure Development	USD 216 million												
b) Equity	<p>A. Loan/grant to MC The amount of loan converted to grant to MC Wazirabad will be Rs 96.506 million. The financing of the project will be as give n below:</p> <table border="1" data-bbox="582 1827 1469 2029"> <tr> <td>Grant to MC Wazirabad from World Bank (80% of cost of PC-I)</td> <td>PKR 96.506 million</td> </tr> <tr> <td>20% Co-finance by MC</td> <td>PKR 24.126 million</td> </tr> <tr> <td>Total cost of project</td> <td>PKR 120.633 million</td> </tr> </table>	Grant to MC Wazirabad from World Bank (80% of cost of PC-I)	PKR 96.506 million	20% Co-finance by MC	PKR 24.126 million	Total cost of project	PKR 120.633 million						
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20% Co-finance by MC	PKR 24.126 million												
Total cost of project	PKR 120.633 million												

	<p>B. Project Cost =Rs. 120.633 million</p> <p>*The loan is from World Bank to Government of Pakistan/Punjab which will trickle down to MC Wazirabad as grant.</p>
c) Grants	No grant is being given by Government of Punjab out of ADP funds. The World Bank loan to Government of Pakistan/Punjab will trickle down as grant to MC from Government of Punjab.
d) Weighted cost of capital	Nil
11-Project benefits and analysis	
i.Financial: Income to the project with assumption	<ul style="list-style-type: none"> • No income will be generated from the project and hence the Financial Analysis is not required. • It is a social sector project and the capital cost of the project is not intended to be recovered. MC will meet the cost of repair and maintenance out of its own resources. The project economic analysis is given as Annexure-C.
ii.Social benefits to the target group	<p>The completion of the project will result in:</p> <ul style="list-style-type: none"> • Provision of suitable parking area for the MC Vehicles. • Making MC self-sufficient in small repairs to the machinery & Equipment possessed by MC • Provision of a washing facilities for the vehicles • Effective protection to the vehicles against the solar radiation and Ultraviolet rays, rain, hail, wind, and dust. • Slowing down the deterioration of vehicles, therefore reducing the cost of maintenance. • Enhancement of the security of vehicles during non-working hours. • Better watch and ward of MC machinery and equipment and reduction of losses due to theft of equipment and spares. • Provision of better solid waste management service by protection of the machinery and equipment.
iii.Environmental Impact negative/positive	Primary and secondary data has been collected and used to assess the environmental impacts of the proposed Parking Area. Site visit was conducted to the project area for the proposed works and to assess the baseline in order to evaluate whether there are any key receptors that will need to be considered during the project works to prevent any long term and irreversible impacts. The activities to be conducted under the project were screened for potential impacts at the design/pre-construction, construction and operation phases of the Parking Sheds. This ‘activity wise’ screening enabled to obtain a clear picture of the expected level of impacts resulting from the different activities and

	<p>helped identify required mitigation measures to mitigate them to within acceptable limits as per the guidelines provided by the World Bank in the form of Environment and Social Management Framework. However, the impacts will be temporary and there will be no negative impacts after completion of the project, rather, during the operation phase of the Parking Sheds, mostly positive impacts are expected. To facilitate the selection of an optimal solution and for the inclusion of Safe Operating Procedures for Construction workers/labors; assessment indicators or an Environmental Screening Checklist has been developed which is attached as Annexure E (A) of this PC-1. The checklist focuses on Environmental Issues and social concerns and ensure that all environmental and social dimensions are adequately considered. Based on the remarks of the screening checklist, Environment and Social Management Plans (ESMPs) does not need to be prepared. However, the necessary cost for Environment Health and Safety of Workers has been incorporated in the PC-1. The Environment, Health and Safety SOPs for labor/workers are provided as Annexure E (B).</p>												
iv. Quantifiable project outputs	<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>A) Capital Unit Cost The unit cost analysis is produced below;</p> <table border="1" data-bbox="571 1081 1460 1216"> <tr> <td>Project capital cost</td> <td>PKR 120.633 million</td> </tr> <tr> <td>Population of the city in year 2023</td> <td>256,179 persons</td> </tr> <tr> <td>Unit capital cost per capita</td> <td>PKR 470.89</td> </tr> </table> <p>B)-Unit R&M cost:</p> <table border="1" data-bbox="571 1301 1460 1435"> <tr> <td>Annual R&M cost</td> <td>1,367,554</td> </tr> <tr> <td>Population of the city in year 2023</td> <td>256,179 persons</td> </tr> <tr> <td>Unit R&M cost per capita</td> <td>PKR 5.33</td> </tr> </table>	Project capital cost	PKR 120.633 million	Population of the city in year 2023	256,179 persons	Unit capital cost per capita	PKR 470.89	Annual R&M cost	1,367,554	Population of the city in year 2023	256,179 persons	Unit R&M cost per capita	PKR 5.33
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Unit R&M cost per capita	PKR 5.33												
vi. Employment generation (direct and indirect)	<p><u>Employment Analysis</u> Direct Employment</p> <p>a) Planning and Design of projects The planning and design of the project has been entrusted to local consultants (JERS Consultancy) who have appointed staff and experts in Structural designing and related disciplines along with their support staff. The consultants will also appoint their staff for resident supervision of the project to verify and certify the items of works to be executed under this PC-I.</p> <p>b) Execution of the Project</p> <p>a) PMDFC PMDFC has the project monitoring and supervisory role and the company has enough experts and staff to complete this</p>												

	<p>assignment. PMDFC has already deployed under mentioned staff for these projects:</p> <ul style="list-style-type: none"> • Civil Engineers • Accounts, administration and audit personnel • Urban planners • GIS experts • Support staff like computer operators, vehicle drivers, office boys and guards. • Procurement experts • Communication experts • Environmental and social experts • Contract management experts <p>b) Consultants PMDFC has employed consultants for detailed design and resident supervision of the projects who have deployed their staff for detailed design and resident supervision of the project.</p> <p>c) Municipality MC Wazirabad has regular staff like engineers, sub engineers and other administrative & accounts keeping staff which will be responsible for execution of the project and contract management. No additional staff will be needed for execution of this project</p> <p>d) Contractor The contractor responsible for execution of the sub project will employ skilled and un-skilled labor on this work.</p> <p>Indirect Employment Indirect employment for production of material such as cement, steel, stone metal, bitumen, bricks etc. will be generated.</p>
vii. Impacts of delays on project cost and viability	<p>The impact of delay in project implementation will result in;</p> <ul style="list-style-type: none"> • Increased project cost due to escalation in cost of material and labor. • Deterioration of vehicles due to weathering effects • Recurrent watch and ward problems for the delayed period
12-Implementation Schedule	
a) Indicate starting and completion date of the project	The project is anticipated to commence by May 2023 and to be completed by October 2023 with project implementation period of 06 months.
b) Item wise/year wise schedule in line chart	The Gant chart has been attached at Annexure-D

13- Management Structure and manpower requirements	
<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 and requirements at site. The execution of the items of works included in these estimates /PC-I will be certified by these consultants.</p> <p>iv. Execution of the project</p> <ul style="list-style-type: none"> • The project will be executed by MC Wazirabad and supervised by the Consultants appointed by PMDFC in resident supervision mode. The technical staff & experts in PMDFC will oversee, coordinate 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 MC has been designated as Project Manager /Engineer in Charge of the project. The supervision of the works will also be carried out by these municipal officers along with their support engineering staff. All supervisory staff is available with MC. • 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 MC after these contractor claims have been entered in the measurement books by the Project Manager/Engineer in Charge and pre audited as per LG Works Rules.</p>
<p>ii)The manpower requirements by skills during execution and</p>	<p>a) PMDFC experts and staff For rendering assistance in implementation of infrastructure projects in 16 MCs, PMDFC has the experts and staff in the required fields.</p>

<p>operation of the project and;</p> <p>The job description, qualification, experience, age and salary of each post</p>	<p>In order to facilitate the Program Units, three regional offices have been established by PMDFC at Gujranwala, Faisalabad and Multan/Khanewal.</p> <p>b) Resident Supervision Consultants</p> <p>The project will be supervised by consultants. The tentative staff to be employed/deployed by the consultants for the certification of quantities of works and resident supervision of the project is given below:</p>																
	<table border="1" data-bbox="555 577 1477 1187"> <thead> <tr> <th data-bbox="555 577 592 645">S #</th> <th data-bbox="592 577 858 645">Personnel</th> <th data-bbox="858 577 963 645">Nos</th> <th data-bbox="963 577 1477 645">Qualification</th> </tr> </thead> <tbody> <tr> <td data-bbox="555 645 592 958">1</td> <td data-bbox="592 645 858 958">Chief Resident Engineer/Team Leader</td> <td data-bbox="858 645 963 958">01</td> <td data-bbox="963 645 1477 958">BSc;/BE in Civil engineering from HEC approved University with minimum 20 years' professional experience and 5 years' experience on similar assignment or MSC; Civil Engineering/Public Health Engineering/Environmental Engineering with Bachelor in Civil Engineering and minimum 15 years, experience, with 5 years on similar assignments on urban planning, designing and construction supervision assignment.</td> </tr> <tr> <td data-bbox="555 958 592 1088">2</td> <td data-bbox="592 958 858 1088">Assistant Resident Engineer</td> <td data-bbox="858 958 963 1088">01</td> <td data-bbox="963 958 1477 1088">Bachelor Degree in Civil engineering with minimum 8 years' experience in site supervision and execution for projects of similar nature</td> </tr> <tr> <td data-bbox="555 1088 592 1187">3</td> <td data-bbox="592 1088 858 1187">Site Inspectors</td> <td data-bbox="858 1088 963 1187">01</td> <td data-bbox="963 1088 1477 1187">DAE in Civil with minimum 10 years' experience in site supervision for projects of similar nature</td> </tr> </tbody> </table> <p>c) Contractor's Technical staff, skilled & non skilled labor</p> <p>The contractors will employ the supervisory technical staff and skilled & non skilled labor for execution of works. The works will be supervised by experienced Engineers and sub engineers and the number of slots for engineers and skilled and non-skilled will depend upon the type and quantity of work and its period of completion.</p> <p>d) Repair & maintenance of the project</p> <p>MC has its own regular staff which has been deployed for repair and maintenance of the municipal services infrastructure. However, it has been observed that the existing staff is not adequate to repair and maintain the services in a manner which can give good service delivery. Hence it is proposed to;</p> <ul style="list-style-type: none"> • Fill up the presently vacant slots • Recruit additional staff as per need of the infrastructure after obtaining the sanctions from the competent authorities. 	S #	Personnel	Nos	Qualification	1	Chief Resident Engineer/Team Leader	01	BSc;/BE in Civil engineering from HEC approved University with minimum 20 years' professional experience and 5 years' experience on similar assignment or MSC; Civil Engineering/Public Health Engineering/Environmental Engineering with Bachelor in Civil Engineering and minimum 15 years, experience, with 5 years on similar assignments on urban planning, designing and construction supervision assignment.	2	Assistant Resident Engineer	01	Bachelor Degree in Civil engineering with minimum 8 years' experience in site supervision and execution for projects of similar nature	3	Site Inspectors	01	DAE in Civil with minimum 10 years' experience in site supervision for projects of similar nature
S #	Personnel	Nos	Qualification														
1	Chief Resident Engineer/Team Leader	01	BSc;/BE in Civil engineering from HEC approved University with minimum 20 years' professional experience and 5 years' experience on similar assignment or MSC; Civil Engineering/Public Health Engineering/Environmental Engineering with Bachelor in Civil Engineering and minimum 15 years, experience, with 5 years on similar assignments on urban planning, designing and construction supervision assignment.														
2	Assistant Resident Engineer	01	Bachelor Degree in Civil engineering with minimum 8 years' experience in site supervision and execution for projects of similar nature														
3	Site Inspectors	01	DAE in Civil with minimum 10 years' experience in site supervision for projects of similar nature														
<p>14-Additional projects /decisions required to</p>	<p>1) Shortage & frequent transfers of Provincially appointed staff</p> <p>MC is facing shortage in provincially appointed and locally appointed cadres. This will seriously affect the pace of progress of</p>																

optimize the investment being undertaken	<p>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</p> <p>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.</p> <p>Further the sanctioned strength of the field staff is much lesser than the actual requirement because with the increase in population and extension of services, additionally required staff has not been sanctioned by the competent authorities.</p> <p>Both of the above issues need to be addressed for optimal utilization of the investments and giving targeted benefits to the resident population of these cities.</p>
15-Certificate	Certified that the project proposal has been prepared on the basis of guidelines provided by the Planning Commission for the preparation of PC-I for social sectors projects.

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

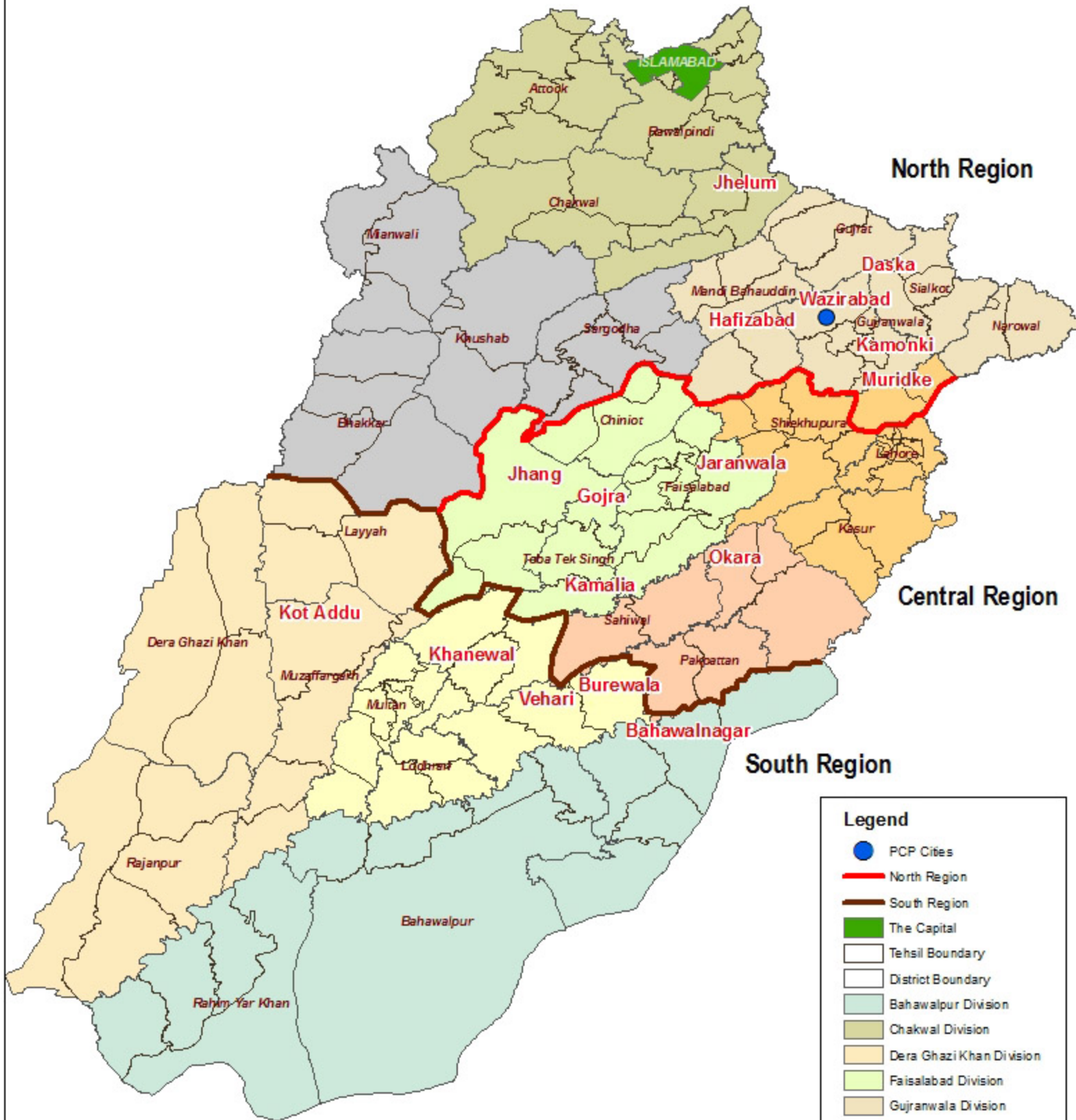
Annual Recurrent Cost after Completion of the Project

Cost Category	Cost Breakup	Cost per Annum
Annual Maintenance Cost of The Civil Works	1% of Project Cost = $0.01 * (106,755,418)$	1,067,554
Annual Man Power Cost of One Guard	Rs.25,000/month	300,000
Total cost per Annum (Million Rs.)		1,367,554

Annexure-A
Location Map

Location Map (Punjab Cities Program)

ANNEXURE - A

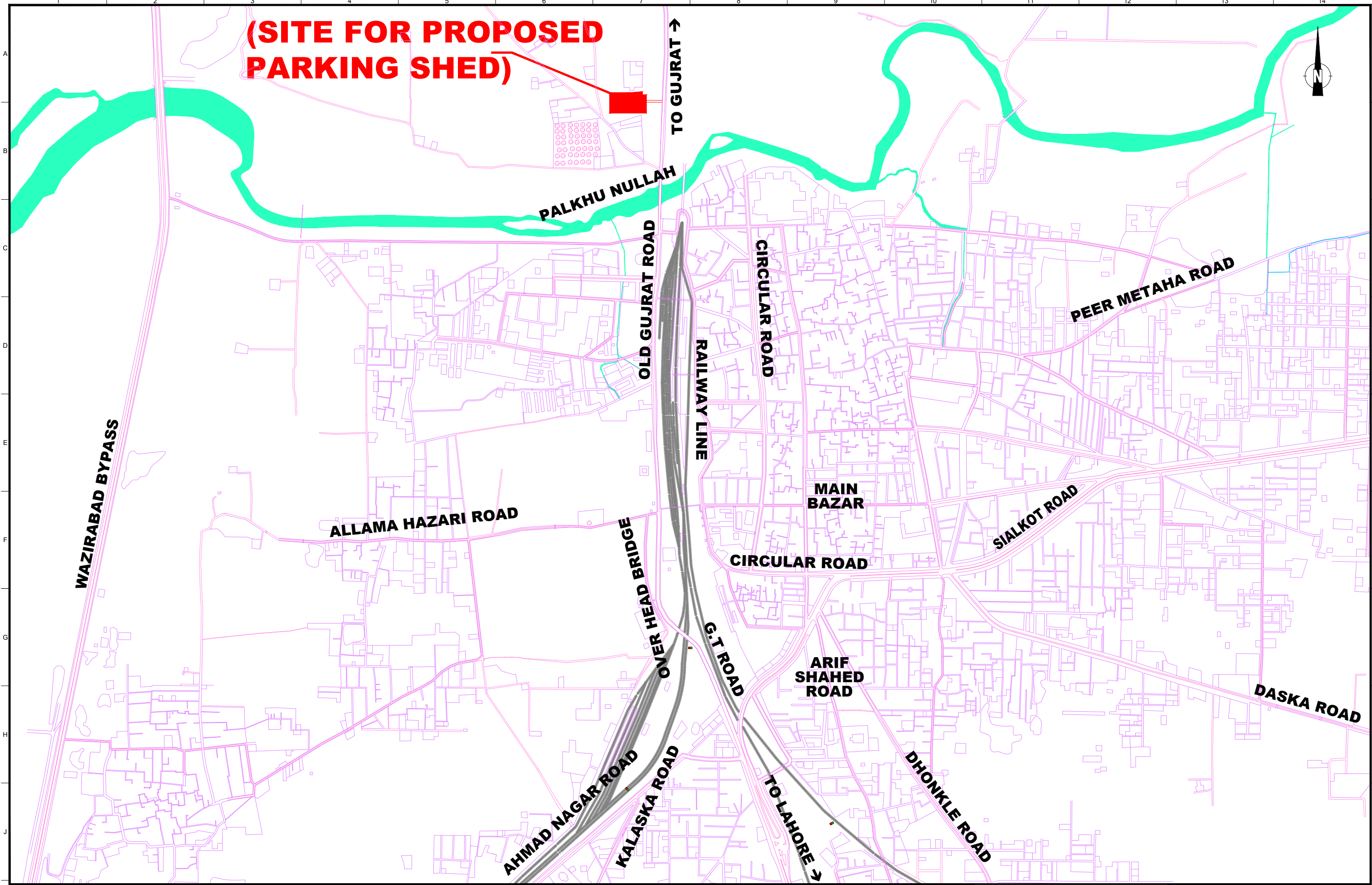


Legend


- 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



(SITE FOR PROPOSED PARKING SHED)



CLIENT:



PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:



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

PROJECT:

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

DRAWING TITLE:

**PROJECT KEY PLAN
 (WAZIRABAD CITY)**

REV.	DATE	DESCRIPTION

DRAWN BY:
Asif

CHECKED BY:
Sadat Waleed

DATE:
July, 2022

DRAWING NO:
PS-01

SCALE:
1"=800'

SHEET:
-

JOB NO:
488-01

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

DETAILED COST ESTIMATE

SWM PARKING SHED (WAZIRABAD)

SUMMARY

Sr. No.	Description	Amount (Rs)
1	OFFICE BUILDING	
i	Civil Work	2,184,814
ii	Plumbing Work	257,297
iii	Electrical Work	301,711
2	SITTING ROOM	
i	Civil Work	1,721,472
ii	Plumbing Work	92,534
iii	Electrical Work	176,469
3	GUARD ROOM	
i	Civil Work	532,809
ii	Plumbing Work	6,540
iii	Electrical Work	69,929
4	TYRE SHOP	
i	Civil Work	526,150
ii	Plumbing Work	6,540
iii	Electrical Work	69,929
5	STORE ROOM	
i	Civil Work	1,634,992
ii	Plumbing Work	6,540
iii	Electrical Work	119,372
6	WORK SHOP	
i	Civil Work	2,927,456
ii	Plumbing Work	93,149
iii	Electrical Work	319,195
7	PARKING SHED (SIZE 150' x 32')	
i	Civil Work	14,731,360
iii	Electrical Work	446,155
8	PARKING SHED (SIZE 120' x 32') (2 Nos.)	
i	Civil Work	23,764,159
iii	Electrical Work	687,734

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

DETAILED COST ESTIMATE

SWM PARKING SHED (WAZIRABAD)

SUMMARY

Sr. No.	Description	Amount (Rs)
9	PARKING SHED (SIZE 90' x 32')	
i	Civil Work	9,032,799
iii	Electrical Work	254,667
10	PARKING SHED (SIZE 60' x 32')	
i	Civil Work	6,183,812
iii	Electrical Work	176,538
11	WASHING PIT	573,215
12	GENERATOR PAD	167,005
13	PUMP PAD	15,441
14	SEPTIC TANK	325,707
15	SOAKAGE WELL	215,643
16	EXTERNAL WORK (BOUNDARY WALL + TUFF PAVER + LAWN)	25,150,483
17	EXTERNAL PLUMBING WORK	750,553
18	EXTERNAL ELECTRICAL WORK	9,704,639
19	TUBEWELL	3,416,186
20	ENVIRONMENTAL HEALTH & SAFETY COST	112,425
	Total Amount (Rs)	106,755,418
	Contingencies @ 2%	2,135,108
	PRA Charges @ 5%	5,337,771
	Price Escalation @ 6%	6,405,325
	Total Amount. Rs.	120,633,622

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

DETAILED COST ESTIMATE

OFFICE BUILDING

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	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.	1000Cft	0.88	11,658.25	10,259
		Anti-Termite				
2	26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	Sft	1,549.88	9.90	15,344
		Plain Cement Concrete				
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	100 Cft	1.16	29,723.50	34,479
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:-				
		Cement, sand mortar:- Ratio 1:5	100 Cft	7.27	32,358.60	235,247
		Horizontal D.P.C				
5	6/36	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-				
		(a) with one coat bitumen and one coat polythene sheet 500gauge				
		i) 1½" thick (40 mm)	100 Sft	1.05	9,272.70	9,736
		Vertical D.P.C				
6	6/38	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-				
		(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:				

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

DETAILED COST ESTIMATE

OFFICE BUILDING

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		ii) Ratio 1:3 ¾ " thick (20 mm)	100 Sft	1.40	6,932.65	9,706
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:-				
		i) Cement, sand mortar:- Ratio 1:5	100 Cft	10.57	34,761.00	367,424
		Concrete Work				
8	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.):-				
		Above foundation				
		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	360.81	580.05	209,289
		Steel Work.				
9	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	11.60	31,940.05	370,505
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	20.00	2,982.00	59,640
		Brick ballast				
11	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100 Cft	1.65	9,900.00	16,335

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DETAILED COST ESTIMATE

OFFICE BUILDING

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Plain Cement Concrete				
12	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		Ratio 1: 2: 4	100 Cft	0.83	38,723.50	32,141
		Porcelain Tile				
13	10/42/d	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over 3/4" thick (1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.				
		d) (Non-Skid Chequered Tiles) 300mmx300mm	Per Sft	458.63	225.65	103,490
14	10/43/a	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.				
		a) Full body Glazed Tile				
		(i) 400 mm x 400 mm	Per Sft	55.77	310.10	17,294
		Ceramic Tile				
15	10/24	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.				
		i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	Per Sft	41.25	255.50	10,539

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DETAILED COST ESTIMATE

OFFICE BUILDING

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
16	10/25	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.				
		i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	Per Sft	182.00	310.10	56,438
		Slab Plaster				
17	11/10/b	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)	100 Sft	5.00	3,963.30	19,817
		Cement Plaster				
18	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	15.60	4,650.85	72,553
		Pointing				
19	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2	100 Sft	14.56	3,776.40	54,984
20	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	14.56	822.00	11,968
		Distempering				
21	11/23	Distempering:- iii) three coats	100 Sft	20.60	1,446.35	29,795

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DETAILED COST ESTIMATE

OFFICE BUILDING

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Wooden Door				
22	12/50-i	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partial wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)	Per Sft	105.00	1,603.20	168,336
		Lock				
23	12/22	Providing and fixing, approved quality mortice lock.	Each	5.00	774.00	3,870
		Paint				
24	13/5/c	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-				
		i) priming coat.	100 Sft	2.10	1,460.05	3,066
		ii) Second coat	100 Sft	2.10	841.65	1,767
		Steel Window				
25	25/41/b	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-				
		b) fixed with wire gauze, 22 SWG				
		v) glass pane 5 mm thick	Per Sft	104.00	1,170.70	121,753

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DETAILED COST ESTIMATE

OFFICE BUILDING

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Roof Insulation				
26	9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	100 Sft	6.05	12,104.25	73,231
27	26/37/ii	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc. ii) 500 gauge (.005" thick)	Per Sft	605.00	8.65	5,233
		Khurras				
28	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	2.00	905.25	1,811
		Bottom Khuras				
29	9/16	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	2.00	1,908.05	3,816
		Crush				
30	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	500.49	109.79	54,947
		Total Rs.				2,184,814

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OFFICE BUILDING

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	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)						
	ii) in ordinary soil.						
	Office wall	1	125.00	2.50	2.50	781.25	Cft
	Toilet wall	1	15.00	2.50	2.50	93.75	Cft
					Total	875.00	Cft
					Total	0.88	%Cft
	Anti-Termite						
2	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge						
	Office wall	1	125.00	7.50		937.50	Sft
	Toilet wall	1	15.00	7.50		112.50	Sft
	Floor	2	13.00	16.00		416.00	Sft
		1	5.50	7.75		42.63	Sft
		1	5.50	7.50		41.25	Sft
					Total	1,549.88	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Office wall	1	125.00	2.50	0.33	103.13	Cft
	Toilet wall	1	15.00	2.50	0.33	12.38	Cft
					Total	115.50	Cft
					Total	1.16	%Cft
	Brick work in Foundation						
4	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5						

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OFFICE BUILDING
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Office wall						
	Step - 1	1	125.00	1.875	0.25	58.59	Cft
	Step - 2	1	125.00	1.500	0.25	46.88	Cft
	Step - 3	1	125.00	1.125	0.25	35.16	Cft
	Step - 4	1	125.00	0.750	5.42	508.13	Cft
	Toilet wall						
	Step - 1	1	15.00	1.875	0.25	7.03	Cft
	Step - 2	1	15.00	1.500	0.25	5.63	Cft
	Step - 3	1	15.00	1.125	0.25	4.22	Cft
	Step - 4	1	15.00	0.750	5.42	60.98	Cft
					Total	726.60	Cft
					Total	7.27	%Cft
	Horizontal D.P.C						
5	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-						
	(a) with one coat bitumen and one coat polythene sheet 500gauge						
	i) 1½" thick (40 mm)						
	Office wall	1	125.00	0.75		93.75	Sft
	Toilet wall	1	15.00	0.75		11.25	Sft
					Total	105.00	Sft
					Total	1.05	%Sft
	Vertical D.P.C						
6	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-						
	(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:						
	ii) Ratio 1:3 ¾ " thick (20 mm)						
	Office wall	1	125.00		1.00	125.00	Sft
	Toilet wall	1	15.00		1.00	15.00	Sft
					Total	140.00	Sft
					Total	1.40	%Sft
	Brick work in Super Structure						
7	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5						
	Office wall	1	125.00	0.75	10.50	984.38	Cft
	Toilet wall	1	15.00	0.75	10.50	118.13	Cft
	Parapet Wall	1	105.00	0.38	2.50	98.44	Cft
	Entrance step	4	4.00	1.00	0.75	12.00	Cft

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CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	D/d Doors and Window						
	D-1	-2	3.50	0.75	7.00	(36.75)	Cft
	D-2	-1	3.00	0.75	7.00	(15.75)	Cft
	D-3	-2	2.50	0.75	7.00	(26.25)	Cft
	W-1	-4	6.00	0.75	4.00	(72.00)	Cft
	V-1	-2	2.00	0.70	2.00	(5.60)	Cft
					Total	1,056.59	Cft
					Total	10.57	%Cft
	Concrete Work						
8	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.):-						
	Above foundation						
	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	Type C (nominal mix 1: 2: 4)						
	Top Slab	1	605.00	1.00	0.50	302.50	Cft
	Sun shade	1	5.50	1.50	0.25	2.06	Cft
	Sun shade	2	34.50	1.50	0.25	25.88	Cft
	Doors and window Lintels						
	D-1	2	4.50	0.75	0.75	5.06	Cft
	D-2	1	4.00	0.75	0.75	2.25	Cft
	D-3	2	3.50	0.75	0.75	3.94	Cft
	W-1	4	7.00	0.75	0.75	15.75	Cft
	V-1	2	3.00	0.75	0.75	3.38	Cft
					Total	360.81	Cft

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CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Steel Work.						
9	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):-						
	Deformed bars (Grade-60)					360.81	Cft
	Top Slab & lintel @ 6.75 lbs / Cft		6.75		=	2,435.48	lbs/cft
				Total	=	2,435.48	lbs/cft
				Total	=	1,105.03	Kg.
				Add 5% Wastage.	=	55.25	Kg.
				Total	=	1,160	Kg
						Total	11.60 %kg
	Sand Filling						
10	Supplying and filling sand under floor; or plugging in wells.						
	Floor	2	13.00	16.00	4.00	1,664.00	Cft
	toilet	1	5.50	7.50	4.00	165.00	Cft
	Store	1	5.50	7.75	4.00	170.50	Cft
					Total	1,999.50	Cft
						Total	20.00 %Cft
	Brick ballast						
11	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.						
	Floor	2	13.00	16.00	0.33	137.28	Cft
	toilet	1	5.50	7.50	0.33	13.61	Cft
		1	5.50	7.75	0.33	14.07	Cft
					Total	164.96	Cft
						Total	1.65 %Cft
	P.C.C						
12	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	Ratio 1: 2: 4						
	Floor	2	13.00	16.00	0.17	69.33	Cft
	toilet	1	5.50	7.50	0.17	6.88	Cft
		1	5.50	7.75	0.17	7.10	Cft
						Total	0.83 %Cft

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OFFICE BUILDING

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Porcelain Tile						
13	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over 3/4" thick (1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.						
	d) (Non-Skid Chequered Tiles) 300mmx300mm	2	13.00	16.00		416.00	Sft
		1	5.50	7.75		42.63	Sft
						Total	458.63
							Sft
14	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.						
	a) Full body Glazed Tile						
	(i) 400 mm x 400 mm	2	58.00		0.33	38.28	Sft
		2	26.50		0.33	17.49	Sft
						Total	55.77
							Sft
	Ceramic Tile						
15	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.						
	i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	1	5.50	7.50		41.25	Sft
						Total	41.25
							Sft

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CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
16	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.						
	i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	2	5.50		7.00	77.00	Sft
		2	7.50		7.00	105.00	Sft
					Total	182.00	Sft
	Slab Plaster						
17	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)						
		2	13.00	16.00		416.00	Sft
		1	5.50	7.50		41.25	Sft
		1	5.50	7.75		42.63	Sft
					Total	5.00	%Sft
	Cement Plaster						
18	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick						
	Office Room						
		4	13.00		10.50	546.00	Sft
		4	16.00		10.50	672.00	Sft
	Toilet						
		2	7.50		10.50	157.50	Sft
		2	5.50		10.50	115.50	Sft
	Store						
		2	7.75		10.50	162.75	Sft
		2	5.50		10.50	115.50	Sft
	D/d Doors and Window						
	D-1	-2	3.50		7.00	(49.00)	Sft
	D-2	-1	3.00		7.00	(21.00)	Sft
	D-3	-2	2.50		7.00	(35.00)	Sft
	W-1	-4	6.00		4.00	(96.00)	Sft
	V-1	-2	2.00		2.00	(8.00)	Sft
					Total	1,560.25	Sft
					Total	15.60	%Sft
	Pointing						

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CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
19	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:- a) ratio 1:2						
	Outer Walls	1	104.00		14.00	1,456.00	Sft
					Total	1,456.00	Sft
					Total	14.56	%Sft
20	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
					Total	14.56	%Sft
	Distempering						
21	Distempering:- iii) three coats						
	Office Room						
		4	13.00		10.50	546.00	Sft
		4	16.00		10.50	672.00	Sft
	Toilet						
		2	7.50		10.50	157.50	Sft
		2	5.50		10.50	115.50	Sft
	Store	2	7.75		10.50	162.75	Sft
		2	5.50		10.50	115.50	Sft
	Slab	2	13.00	16.00		416.00	Sft
		1	7.50	5.50		41.25	Sft
		1	7.75	5.50		42.63	Sft
	D/d Doors and Window						
	D-1	-2	3.50		7.00	(49.00)	Sft
	D-2	-1	3.00		7.00	(21.00)	Sft
		-2	2.50		7.00	(35.00)	Sft
	W-1	-4	6.00		4.00	(96.00)	Sft
	V-1	-2	2.00		2.00	(8.00)	Sft
					Total	2,060.13	Sft
					Total	20.60	%Sft

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CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Wooden Door						
22	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partal wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)						
	D-1	2	3.50		7.00	49.00	Sft
	D-2	1	3.00		7.00	21.00	Sft
		2	2.50		7.00	35.00	Sft
					Total	105.00	Sft
	Lock						
23	Providing and fixing, approved quality mortice lock.	5				5.00	Each
	Paint						
24	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-						
	i) priming coat.						
	ii) Second coat					Total	2.10
							Sft
	Steel Window						
25	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-						
	b) fixed with wire gauze, 22 SWG						
	v) glass pane 5 mm thick						
	W-1	4	6.00		4.00	96.00	Sft
	V-1	2	2.00		2.00	8.00	Sft
					Total	104.00	Sft

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OFFICE BUILDING

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Roof Insulation						
26	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.						
	Roof area	1	605.00	1.00		605.00	Sft
					Total	605.00	Sft
					Total	6.05	%Sft
27	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.						
	ii) 500 gauge (.005" thick)				Total	605.00	Sft
	Khurras						
28	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	2				2.00	Each
	Bottom Khuras						
29	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	2				2.00	Each

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OFFICE BUILDING

PLUMBING WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Indian W.C				
1	19-4-i	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest.				
		i) white	Each	1.00	2,461.85	2,462
2	19-13-i	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.				
		i) white	Each	1.00	3,061.65	3,062
3	19-7-i	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc.				
		i) white, with pedestal	Each	1.00	6,160.50	6,161
4	19-30	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	Each	1.00	2,477.00	2,477
6	19-16	Providing and fixing, chromium plated soap dish.	Each	1.00	538.60	539
8	19-20	Providing and fixing looking glass 55x40 cm (22"x16") size	Each	1.00	800.30	800
9	19-26	Providing and fixing chromium plated bib cock:-				
		i) 2 cm (¾")	Each	1.00	1,099.75	1,100
10	19-28	Providing and fixing chromium plated tee stop cock 15mm (½").	Each	3.00	1,081.60	3,245
11	19-34-i	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:-				
		i) 10x5 cm (4"x2")	Each	1.00	670.20	670
12	19-36	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").	Each	1.00	1,214.75	1,215

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OFFICE BUILDING

PLUMBING WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
13	19-35-ii	Providing and fitting "P" trap:- ii) 10 cm (4") glazed.	Each	2.00	323.25	647
		PPRC Pipe				
14	23-47	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC)water supply pipe made of (Dadex/ Popular /Beta/ BBJ)with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directedby Engineer Incharge.(Internal / External Diameters mentioned).				
		b) PN-20 pipe				
		(ii) (3/4") 25 mm	Rft	50.00	67.15	3,358
		(iii) (1") 32 mm	Rft	50.00	107.65	5,383
		Valve				
15	23/46	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified dia meter made of Faisal/ Sonex/ Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
		ii) 3/4" dia	Each	1.00	1,545.60	1,546
		iii) 1" dia	Each	1.00	1,809.60	1,810
		uPVC Pipe				
16	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)				
		(iii) 2"(60 mm)	Rft	20.00	89.25	1,785
		(v) 4"(110 mm)	Rft	80.00	218.00	17,440
		(vi) 6"(160 mm)	Rft	20.00	422.55	8,451

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OFFICE BUILDING

PLUMBING WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		HDPE Tank				
17	19/51	Providing and hoisting vertical /horizontal type storage tank of required capacity made of rotationally molded from (HDPE), double ply polyethelene of approved manufacturer i/c cost of making connection for inlet/outlet pipe, float valve i/c all cost of specials & labour complete in all respect as approved and directed by the Engineer Incharge.	P.Gln	1,500	117.30	175,950
		Total Rs. (A)				238,097
		Non-Schedule Item				
18	N.S	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	Each	1.00	19,199.71	19,200
		Total Rs. (B)				19,200
		Total Amount Rs. (A + B)				257,297

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OFFICE BUILDING

ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		<u>Scheduled Items (A)</u>				
1	C-24/3-ii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (20 mm i/d)	Rft.	1,000.00	86.40	86,400
2	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	650.00	101.60	66,040
3	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaidd PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	1,050.00	27.85	29,243
4	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaidd PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	750.00	44.05	33,038
5	C-24/10a.iv	Supply and erection of single core PVC insulated copper conductor cables, in prelaidd PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.036)	Rft.	600.00	58.50	35,100
6	C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	15.00	296.00	4,440
7	C-24/14-ii	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (7"x4")	Each	4.00	409.95	1,640

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ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
8	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	21.00	96.95	2,036
9	C-24/36-i	Supply and erection of 3 pin switch and Plug combined, recessed type. (5Amps)	Each	2.00	126.95	254
10	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	6.00	167.75	1,007
11	C-24/43	Supply and erection of tube light, including rod, choke, starter with frame, flexible wire, including connection from ceiling rose, etc., complete				
		i) double rod (80 watts) with two chokes and 2 starters.	Each	2.00	2,579.25	5,159
		ii) single rod (40 watts) with one choke and one starter.	Each	12	1,444.20	17,330
12	C-24/102/a	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas /G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.				
		(a) Plastic body (ii) 12 " dia	Each	1.00	3,380.85	3,381
Sub Total (A)						285,066
13	N.S	Supply, installation and commissioning of wall mounted mirror LED light 10 watt with tube rod and frame all necessary fixing accessories, complete in all respects	Each	1.00	1,215.00	1,215
14	N.S	Supply, installation and commissioning recessed 10W LED Down Light complete in all respects	Each	1.00	1,430.00	1,430
15	N.S	Supply, Installation, testing and commissioning of following size 56" ceiling fan, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect.	Each	2.00	7,000.00	14,000
Sub Total (B)						16,645
Sub Total (A+B)						301,711

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SITTING ROOM

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	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.	1000Cft	0.66	11,658.25	7,694
		Anti-Termite				
2	26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	Sft	1,241.13	9.90	12,287
		Plain Cement Concrete				
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	100 Cft	0.87	29,723.50	25,859
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	5.49	32,358.60	177,649
		Horizontal D.P.C				
5	6/36	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-				
		(a) with one coat bitumen and one coat polythene sheet 500gauge				
		i) 1½" thick (40 mm)	100 Sft	0.79	9,272.70	7,325
		Vertical D.P.C				
6	6/38	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-				
		(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:				
		ii) Ratio 1:3 ¾ " thick (20 mm)	100 Sft	1.06	6,932.65	7,349

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SITTING ROOM

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:-				
		i) Cement, sand mortar:- Ratio 1:5	100 Cft	8.22	34,761.00	285,735
		Concrete Work				
8	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.):-				
		Above foundation				
		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	302.19	580.05	175,284
		Steel Work.				
9	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	9.72	31,940.05	310,457
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	17.92	2,982.00	53,437
		Brick ballast				
11	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100 Cft	1.48	9,900.00	14,652

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CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Plain Cement Concrete				
12	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		Ratio 1: 2: 4	100 Cft	0.75	38,723.50	29,043
		Porcelain Tile				
13	10/42/d	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over 3/4" thick (1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.				
		d) (Non-Skid Chequered Tiles) 300mmx300mm	Per Sft	448.00	225.65	101,091
14	10/43/a	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.				
		a) Full body Glazed Tile				
		(i) 400 mm x 400 mm	Per Sft	29.04	310.10	9,005
		Ceramic Tile				
15	10/24	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.				
		i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	Per Sft	42.63	255.50	10,892

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CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
16	10/25	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.				
		i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	Per Sft	185.50	310.10	57,524
		Slab Plaster				
17	11/10/b	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)	100 Sft	4.48	3,963.30	17,756
		Cement Plaster				
18	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	7.82	4,650.85	36,370
		Pointing				
19	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2	100 Sft	13.30	3,776.40	50,226
20	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	13.30	822.00	10,933
		Distempering				
21	11/23	Distempering:- iii) three coats	100 Sft	12.30	1,446.35	17,790

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CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Wooden Door				
22	12/50-i	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partial wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)	Per Sft	42.00	1,603.20	67,334
		Lock				
23	12/22	Providing and fixing, approved quality mortice lock.	Each	2.00	774.00	1,548
		Paint				
24	13/5/c	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-				
		i) priming coat.	100 Sft	0.84	1,460.05	1,226
		ii) Second coat	100 Sft	0.84	841.65	707
		Steel Window				
25	25/41/b	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-				
		b) fixed with wire gauze, 22 SWG				
		v) glass pane 5 mm thick	Per Sft	100.00	1,170.70	117,070

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CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Roof Insulation				
26	9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	100 Sft	5.16	12,104.25	62,458
27	26/37/ii	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.				
		ii) 500 gauge (.005" thick)	Per Sft	516.00	8.65	4,463
		Khurras				
28	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	1.00	905.25	905
		Bottom Khuras				
29	9/16	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	1.00	1,908.05	1,908
		Crush				
30	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	414.37	109.79	45,493
		Total Rs.				1,721,472

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SITTING ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	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)						
	ii) in ordinary soil.						
	Room wall	1	91.00	2.50	2.50	568.75	Cft
	Toilet wall	1	14.75	2.50	2.50	92.19	Cft
					Total	660.94	Cft
					Total	0.66	%oCft
	Anti-Termite						
2	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge						
	Room wall	1	91.00	7.50		682.50	Sft
	Toilet wall	1	14.75	7.50		110.63	Sft
	Floor	1	28.00	16.00		448.00	Sft
					Total	1,241.13	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Room wall	1	91.00	2.50	0.33	75.08	Cft
	Toilet wall	1	14.75	2.50	0.33	12.17	Cft
					Total	87.24	Cft
					Total	0.87	%Cft
	Brick work in Foundation						
4	Pacca brick work in foundation and plinth in:-						
	Cement, sand mortar:- Ratio 1:5						
	Room wall						
	Step - 1	1	91.00	1.875	0.25	42.66	Cft

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CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Step - 2	1	91.00	1.500	0.25	34.13	Cft
	Step - 3	1	91.00	1.125	0.25	25.59	Cft
	Step - 4	1	91.00	0.750	5.42	369.92	Cft
	Toilet wall						
	Step - 1	1	14.75	1.875	0.25	6.91	Cft
	Step - 2	1	14.75	1.500	0.25	5.53	Cft
	Step - 3	1	14.75	1.125	0.25	4.15	Cft
	Step - 4	1	14.75	0.750	5.42	59.96	Cft
					Total	548.84	Cft
					Total	5.49	%Cft
	Horizontal D.P.C						
5	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-						
	(a) with one coat bitumen and one coat polythene sheet 500gauge						
	i) 1½" thick (40 mm)						
	Room wall	1	91.00	0.75		68.25	Sft
	Toilet wall	1	14.75	0.75		11.06	Sft
					Total	79.31	Sft
					Total	0.79	%Sft
	Vertical D.P.C						
6	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-						
	(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:						
	ii) Ratio 1:3 ¾ " thick (20 mm)						
	Room wall	1	91.00		1.00	91.00	Sft
	Toilet wall	1	14.75		1.00	14.75	Sft
					Total	105.75	Sft
					Total	1.06	%Sft
	Brick work in Super Structure						
7	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5						
	Room wall	1	91.00	0.75	10.50	716.63	Cft
	Toilet wall	1	14.75	0.75	10.50	116.16	Cft
	Parapet Wall	1	95.00	0.38	2.50	89.06	Cft
	Entrance step	2	4.00	1.00	0.75	6.00	Cft
	D/d Doors and Window						
	D-1	-1	3.50	0.75	7.00	(18.38)	Cft

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SUPERVISION IN 16 CITIES OF PUNJAB

SITTING ROOM
CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	D-2	-1	2.50	0.75	7.00	(13.13)	Cft
	W-1	-4	6.00	0.75	4.00	(72.00)	Cft
	V-1	-1	2.00	0.70	2.00	(2.80)	Cft
					Total	821.54	Cft
					Total	8.22	%Cft
	Concrete Work						
8	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.):-						
	Above foundation						
	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	Type C (nominal mix 1: 2: 4)						
	Top Slab	1	29.50	17.50	0.50	258.13	Cft
	Sun shade	2	29.50	1.50	0.25	22.13	Cft
	Doors and window Lintels						
	D-1	1	4.50	0.75	0.75	2.53	Cft
	D-2	1	3.50	0.75	0.75	1.97	Cft
	W-1	4	7.00	0.75	0.75	15.75	Cft
	V-1	1	3.00	0.75	0.75	1.69	Cft
					Total	302.19	Cft
	Steel Work.						
9	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):-						
	Deformed bars (Grade-60)					302.19	Cft
	Top Slab & lintel @ 6.75 lbs / Cft		6.75		=	2,039.77	lbs/cft
				Total	=	2,039.77	lbs/cft
				Total	=	925.48	Kg.
			Add 5% Wastage.		=	46.27	Kg.

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SITTING ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
				Total	=	972	Kg
						Total	9.72 %kg
	Sand Filling						
10	Supplying and filling sand under floor; or plugging in wells.						
	Floor	1	28.00	16.00	4.00	1,792.00	Cft
					Total	1,792.00	Cft
						Total	17.92 %Cft
	Brick ballast						
11	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.						
	Floor	1	28.00	16.00	0.33	147.84	Cft
					Total	147.84	Cft
						Total	1.48 %Cft
	P.C.C						
12	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	Ratio 1: 2: 4						
	Floor	1	28.00	16.00	0.17	74.67	Cft
						Total	0.75 %Cft
	Porcelain Tile						
13	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over ¾" thick (1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.						
	d) (Non-Skid Chequered Tiles) 300mmx300mm	1	28.00	16.00		448.00	Sft
						Total	448.00 Sft

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SUPERVISION IN 16 CITIES OF PUNJAB

SITTING ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
14	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.						
	a) Full body Glazed Tile						
	(i) 400 mm x 400 mm	1	88.00		0.33	29.04	Sft
					Total	29.04	Sft
	Ceramic Tile						
15	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.						
	i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	1	5.50	7.75		42.63	Sft
					Total	42.63	Sft
16	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.						
	i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	2	5.50		7.00	77.00	Sft
		2	7.75		7.00	108.50	Sft
					Total	185.50	Sft
	Slab Plaster						
17	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)						
		1	28.00	16.00		448.00	Sft
					Total	4.48	%Sft
	Cement Plaster						

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SITTING ROOM
CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
18	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick Sitting Room						
		2	28.00		10.50	588.00	Sft
		2	16.00		10.50	336.00	Sft
	D/d Doors and Window						
	D-1	-1	3.50		7.00	(24.50)	Sft
	D-2	-1	2.50		7.00	(17.50)	Sft
	W-1	-4	6.00		4.00	(96.00)	Sft
	V-1	-1	2.00		2.00	(4.00)	Sft
					Total	782.00	Sft
					Total	7.82	%Sft
	Pointing						
19	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2						
	Outer Walls	1	95.00		14.00	1,330.00	Sft
					Total	1,330.00	Sft
					Total	13.30	%Sft
20	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
					Total	13.30	%Sft
	Distempering						
21	Distempering:- iii) three coats Sitting Room						
		2	28.00		10.50	588.00	Sft
		2	16.00		10.50	336.00	Sft
	Slab	1	28.00	16.00		448.00	Sft
	D/d Doors and Window						
	D-1	-1	3.50		7.00	(24.50)	Sft
	D-2	-1	2.50		7.00	(17.50)	Sft
	W-1	-4	6.00		4.00	(96.00)	Sft
	V-1	-1	2.00		2.00	(4.00)	Sft
					Total	1,230.00	Sft
					Total	12.30	%Sft
	Wooden Door						

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SITTING ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
22	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partal wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)						
	D-1	1	3.50		7.00	24.50	Sft
	D-2	1	2.50		7.00	17.50	Sft
					Total	42.00	Sft
	Lock						
23	Providing and fixing, approved quality mortice lock.	2				2.00	Each
	Paint						
24	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):- i) priming coat.						
	ii) Second coat				Total	0.84	Sft
	Steel Window						
25	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-						
	b) fixed with wire gauze, 22 SWG						
	v) glass pane 5 mm thick						
	W-1	4	6.00		4.00	96.00	Sft
	V-1	1	2.00		2.00	4.00	Sft

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SITTING ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
					Total	100.00	Sft
	Roof Insulation						
26	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.						
	Roof area	1	29.50	17.50		516.25	Sft
					Total	516.25	Sft
					Total	5.16	%Sft
27	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.						
	ii) 500 gauge (.005" thick)				Total	516.00	Sft
	Khurras						
28	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	1				1.00	Each
	Bottom Khuras						
29	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	1				1.00	Each

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DETAILED COST ESTIMATE

SITTING ROOM

PLUMBING WORKS

Sr. No.	1 st BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Indian W.C				
1	19-4-i	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest.				
		i) white	Each	1.00	2,461.85	2,462
2	19-13-i	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.				
		i) white	Each	1.00	3,061.65	3,062
3	19-7-i	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc.				
		i) white, with pedestal	Each	1.00	6,160.50	6,161
4	19-30	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	Each	1.00	2,477.00	2,477
6	19-16	Providing and fixing, chromium plated soap dish.	Each	2.00	538.60	1,077
7	19-20	Providing and fixing looking glass 55x40 cm (22"x16") size	Each	1.00	800.30	800
8	19-26	Providing and fixing chromium plated bib cock:-				
		i) 2 cm (¾")	Each	1.00	1,099.75	1,100
9	19-28	Providing and fixing chromium plated tee stop cock 15mm (½").	Each	3.00	1,081.60	3,245
10	19-34-i	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:-				
		i) 10x5 cm (4"x2")	Each	1.00	670.20	670
11	19-36	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").	Each	1.00	1,214.75	1,215
12	19-35-ii	Providing and fitting "P" trap:-				
		ii) 10 cm (4") glazed.	Each	2.00	323.25	647

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DETAILED COST ESTIMATE

SITTING ROOM

PLUMBING WORKS

Sr. No.	1 st BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		PPRC Pipe				
13	23-47	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC)water supply pipe made of (Dadex/ Popular /Beta/ BBJ)with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directedby Engineer Incharge.(Internal / External Diameters mentioned).				
		b) PN-20 pipe				
		(ii) (3/4") 25 mm	Rft	50.00	67.15	3,358
		(iii) (1") 32 mm	Rft	50.00	107.65	5,383
		Valve				
14	23/46	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified dia meter made of Faisal/ Sonex/ Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
		ii) 3/4" dia	Each	1.00	1,545.60	1,546
		iii) 1" dia	Each	1.00	1,809.60	1,810
		uPVC Pipe				
15	19-47	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)				
		(iii) 2"(60 mm)	Rft	20.00	89.25	1,785
		(v) 4"(110 mm)	Rft	60.00	218.00	13,080

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SITTING ROOM

PLUMBING WORKS

Sr. No.	1 st BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		HDPE Tank				
16	19/51	Providing and hoisting vertical /horizontal type storage tank of required capacity made of rotationally molded from (HDPE), double ply polyethelene of approved manufacturer i/c cost of making connection for inlet/outlet pipe, float valve i/c all cost of specials & labour complete in all respect as approved and directed by the Engineer Incharge.	P.Gln	200.00	117.30	23,460
		Total Rs. (A)				73,335
		Non-Schedule Item				
17	N.S	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	Each	1.00	19,199.71	19,200
		Total Rs. (B)				19,200
		Total Amount Rs. (A + B)				92,534

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DETAILED COST ESTIMATE

SITTING ROOM

ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		<u>Scheduled Items (A)</u>				
1	C-24/3-ii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (20 mm i/d)	Rft.	500.00	86.40	43,200
2	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	300.00	101.60	30,480
3	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	800.00	27.85	22,280
4	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	450.00	44.05	19,823
5	C-24/10a.iv	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.036)	Rft.	500.00	58.50	29,250
6	C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	8.00	296.00	2,368
7	C-24/14-ii	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (7"x4")	Each	2.00	409.95	820

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SITTING ROOM

ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
8	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	11.00	96.95	1,066
9	C-24/36-i	Supply and erection of 3 pin switch and Plug combined, recessed type. (5Amps)	Each	2.00	126.95	254
10	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	6.00	167.75	1,007
11	C-24/43	Supply and erection of tube light, including rod, choke, starter with frame, flexible wire, including connection from ceiling rose, etc., complete				
		i) double rod (80 watts) with two chokes and 2 starters.	Each	5.00	2,579.25	12,896
12	C-24/102/a	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas /G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.				
		(a) Plastic body (ii) 12 " dia	Each	1.00	3,380.85	3,381
		Sub Total (A)				166,824
13	N.S	Supply, installation and commissioning of wall mounted mirror LED light 10 watt with tube rod and frame all necessary fixing accessories, complete in all respects	Each	1.00	1,215.00	1,215
14	N.S	Supply, installation and commissioning recessed 10W LED Down Light complete in all respects	Each	1.00	1,430.00	1,430
15	N.S	Supply, Installation, testing and commissioning of following size 56" ceiling fan, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect.	Each	1.00	7,000.00	7,000
		Sub Total (B)				9,645
		Sub Total (A+B)				176,469

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DETAILED COST ESTIMATE

GUARD ROOM

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	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.	1000Cft	0.27	11,658.25	3,148
		Anti-Termite				
2	26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	Sft	422.50	9.90	4,183
		Plain Cement Concrete				
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	100 Cft	0.35	29,723.50	10,403
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	2.23	32,358.60	72,160
		Horizontal D.P.C				
5	6/36	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-				
		(a) with one coat bitumen and one coat polythene sheet 500gauge				
		i) 1½" thick (40 mm)	100 Sft	0.32	9,272.70	2,967
		Vertical D.P.C				
6	6/38	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-				
		(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:				
		ii) Ratio 1:3 ¾ " thick (20 mm)	100 Sft	0.43	6,932.65	2,981

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DETAILED COST ESTIMATE

GUARD ROOM

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:-				
		i) Cement, sand mortar:- Ratio 1:5	100 Cft	3.55	34,761.00	123,402
		Concrete Work				
8	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.):-				
		Above foundation				
		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	75.78	580.05	43,957
		Steel Work.				
9	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	2.44	31,940.05	77,934
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	4.00	2,982.00	11,928
		Brick ballast				
11	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100 Cft	0.33	9,900.00	3,267

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

DETAILED COST ESTIMATE

GUARD ROOM

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Plain Cement Concrete				
12	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		Ratio 1: 2: 4	100 Cft	0.17	38,723.50	6,583
		Porcelain Tile				
13	10/42/d	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over 3/4" thick (1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.				
		d) (Non-Skid Chequered Tiles) 300mmx300mm	Per Sft	100.00	225.65	22,565
14	10/43/a	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.				
		a) Full body Glazed Tile				
		(i) 400 mm x 400 mm	Per Sft	13.20	310.10	4,093
		Slab Plaster				
15	11/10/b	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)	100 Sft	1.00	3,963.30	3,963
		Cement Plaster				
16	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	3.80	4,650.85	17,673
		Pointing				
17	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-				
		a) ratio 1:2	100 Sft	4.83	3,776.40	18,240
18	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	4.83	822.00	3,970
		Distempering				

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DETAILED COST ESTIMATE

GUARD ROOM

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
19	11/23	Distempering:- iii) three coats	100 Sft	4.80	1,446.35	6,942
		Wooden Door				
20	12/50-i	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partal wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)	Per Sft	24.50	1,603.20	39,278
		Lock				
21	12/22	Providing and fixing, approved quality mortice lock.	Each	1.00	774.00	774
		Paint				
22	13/5/c	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-				
		i) priming coat.	100 Sft	0.49	1,460.05	715
		ii)Two coat	100 Sft	0.49	841.65	412
		Steel Window				
23	25/41/b	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-				
		b) fixed with wire gauze, 22 SWG				
		v) glass pane 5 mm thick	Per Sft	16.00	1,170.70	18,731
		Roof Insulation				

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DETAILED COST ESTIMATE

GUARD ROOM

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
24	9/35	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	100 Sft	1.32	12,104.25	15,978
25	26/37/ii	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc. ii) 500 gauge (.005" thick)	Per Sft	132.00	8.65	1,142
		Khurras				
26	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	1.00	905.25	905
		Bottom Khuras				
27	9/16	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	1.00	1,908.05	1,908
		Crush				
28	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	114.82	109.79	12,605
		Total Rs.				532,809

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GUARD ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	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)						
	ii) in ordinary soil.						
	Room wall	1	43.00	2.50	2.50	268.75	Cft
					Total	268.75	Cft
					Total	0.27	%oCft
	Anti-Termite						
2	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge						
	Room wall	1	43.00	7.50		322.50	Sft
	Floor	1	10.00	10.00		100.00	Sft
					Total	422.50	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Room wall	1	43.00	2.50	0.33	35.48	Cft
					Total	35.48	Cft
					Total	0.35	%Cft
	Brick work in Foundation						
4	Pacca brick work in foundation and plinth in:-						
	Cement, sand mortar:- Ratio 1:5						
	Room wall						
	Step - 1	1	43.00	1.875	0.25	20.16	Cft
	Step - 2	1	43.00	1.500	0.25	16.13	Cft
	Step - 3	1	43.00	1.125	0.25	12.09	Cft
	Step - 4	1	43.00	0.750	5.42	174.80	Cft
					Total	223.17	Cft

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SUPERVISION IN 16 CITIES OF PUNJAB

GUARD ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
					Total	2.23	%Cft
	Horizontal D.P.C						
5	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-						
	(a) with one coat bitumen and one coat polythene sheet 500gauge						
	i) 1½" thick (40 mm)						
	Room wall	1	43.00	0.75		32.25	Sft
					Total	32.25	Sft
					Total	0.32	%Sft
	Vertical D.P.C						
6	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-						
	(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:						
	ii) Ratio 1:3 ¾ " thick (20 mm)						
	Room wall	1	43.00		1.00	43.00	Sft
					Total	43.00	Sft
					Total	0.43	%Sft
	Brick work in Super Structure						
7	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5						
	Room wall	1	43.00	0.75	10.50	338.63	Cft
	Parapet Wall	1	43.00	0.38	2.50	40.31	Cft
	Entrance step	2	4.00	1.00	0.75	6.00	Cft
	D/d Doors and Window						
	D-1	-1	3.50	0.75	7.00	(18.38)	Cft
	W-1	-1	4.00	0.75	4.00	(12.00)	Cft
					Total	354.56	Cft
					Total	3.55	%Cft
	Concrete Work						

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GUARD ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
8	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.):-						
	Above foundation						
	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	Type C (nominal mix 1: 2: 4)						
	Top Slab	1	11.50	11.50	0.50	66.13	Cft
	Sun shade	1	5.50	1.50	0.25	2.06	Cft
	Sun shade	1	6.00	1.50	0.25	2.25	Cft
	Doors and window Lintels						
	D-1	1	4.50	0.75	0.75	2.53	Cft
	W-1	1	5.00	0.75	0.75	2.81	Cft
						Total	75.78
							Cft
	Steel Work.						
9	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):-						
	Deformed bars (Grade-60)					75.78	Cft
	Top Slab & lintel @ 6.75 lbs / Cft		6.75		=	511.52	lbs/cft
				Total	=	511.52	lbs/cft
				Total	=	232.09	Kg.
				Add 5% Wastage.	=	11.60	Kg.
				Total	=	244	Kg
						Total	2.44
							%kg
	Sand Filling						
10	Supplying and filling sand under floor; or plugging in wells.						
	Floor	1	10.00	10.00	4.00	400.00	Cft
					Total	400.00	Cft
					Total	4.00	%Cft

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GUARD ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Brick ballast						
11	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.						
	Floor	1	10.00	10.00	0.33	33.00	Cft
					Total	33.00	Cft
					Total	0.33	%Cft
	P.C.C						
12	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	Ratio 1: 2: 4						
	Floor	1	10.00	10.00	0.17	16.67	Cft
					Total	0.17	%Cft
	Porcelain Tile						
13	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over ¾" thick (1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.						
	d) (Non-Skid Chequered Tiles) 300mmx300mm	1	10.00	10.00		100.00	Sft
					Total	100.00	Sft
14	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over ½" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.						
	a) Full body Glazed Tile						
	(i) 400 mm x 400 mm	1	40.00		0.33	13.20	Sft
					Total	13.20	Sft
	Slab Plaster						

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SUPERVISION IN 16 CITIES OF PUNJAB

GUARD ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
15	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)						
		1	10.00	10.00		100.00	Sft
						Total	1.00 %Sft
	Cement Plaster						
16	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick Guard Room						
		2	10.00		10.50	210.00	Sft
		2	10.00		10.50	210.00	Sft
	D/d Doors and Window						
	D-1	-1	3.50		7.00	(24.50)	Sft
	W-1	-1	4.00		4.00	(16.00)	Sft
						Total	379.50 Sft
						Total	3.80 %Sft
	Pointing						
17	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2 Outer Walls						
		1	46.00		10.50	483.00	Sft
						Total	483.00 Sft
						Total	4.83 %Sft
18	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.					Total	4.83 %Sft
	Distempering						
19	Distempering:- iii) three coats Guard Room						
		2	10.00		10.50	210.00	Sft
		2	10.00		10.50	210.00	Sft
	Ceiling	1	10.00	10.00		100.00	Sft
	D/d Doors and Window						
	D-1	-1	3.50		7.00	(24.50)	Sft
	W-1	-1	4.00		4.00	(16.00)	Sft

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GUARD ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
					Total	479.50	Sft
					Total	4.80	%Sft
	Wooden Door						
20	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partal wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)						
	D-1	1	3.50		7.00	24.50	Sft
					Total	24.50	Sft
	Lock						
21	Providing and fixing, approved quality mortice lock.	1				1.00	Each
	Paint						
22	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):- i) priming coat.						
	ii)Two coat				Total	0.49	Sft
	Steel Window						
23	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-						
	b) fixed with wire gauze, 22 SWG						
	v) glass pane 5 mm thick						

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DETAILED COST ESTIMATE

GUARD ROOM

PLUMBING WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		uPVC Pipe				
1	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)				
		(v) 4"(110 mm)	Rft	30.00	218.00	6,540
		Total Rs.				6,540.00

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GUARD ROOM

ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		<u>Scheduled Items (A)</u>				
1	C-24/3-ii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (20 mm i/d)	Rft.	200.00	86.40	17,280
2	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	150.00	101.60	15,240
3	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	500.00	27.85	13,925
4	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	200.00	44.05	8,810
5	C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	4.00	296.00	1,184
6	C-24/14-ii	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (7"x4")	Each	1.00	409.95	410
7	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	3.00	96.95	291
8	C-24/36-i	Supply and erection of 3 pin switch and Plug combined, recessed type. (5Amps)	Each	1.00	126.95	127

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DETAILED COST ESTIMATE

GUARD ROOM

ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
9	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	3.00	167.75	503
10	C-24/43	Supply and erection of tube light, including rod, choke, starter with frame, flexible wire, including connection from ceiling rose, etc., complete ii) single rod (40 watts) with one choke and one starter.	Each	2.00	2,579.25	5,159
Sub Total (A)						62,929
11	N.S	Supply, Installation, testing and commissioning of following size 56" ceiling fan, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect.	Each	1.00	7,000.00	7,000
Sub Total (B)						7,000
Sub Total (A+B)						69,929

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DETAILED COST ESTIMATE

TYRE SHOP

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	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.	1000Cft	0.27	11,658.25	3,148
		Anti-Termite				
2	26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	Sft	422.50	9.90	4,183
		Plain Cement Concrete				
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	100 Cft	0.35	29,723.50	10,403
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	2.23	32,358.60	72,160
		Horizontal D.P.C				
5	6/36	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-				
		(a) with one coat bitumen and one coat polythene sheet 500gauge				
		i) 1½" thick (40 mm)	100 Sft	0.32	9,272.70	2,967
		Vertical D.P.C				
6	6/38	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-				
		(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:				

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DETAILED COST ESTIMATE

TYRE SHOP

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		ii) Ratio 1:3 ¾ " thick (20 mm)	100 Sft	0.43	6,932.65	2,981
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:-				
		i) Cement, sand mortar:- Ratio 1:5	100 Cft	3.22	34,761.00	111,930
		Concrete Work				
8	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.):-				
		Above foundation				
		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	78.31	580.05	45,425
		Steel Work.				
9	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	2.52	31,940.05	80,489
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	4.00	2,982.00	11,928
		Brick ballast				
11	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100 Cft	0.33	9,900.00	3,267

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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

TYRE SHOP

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Plain Cement Concrete				
12	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		Ratio 1: 2: 4	100 Cft	0.17	38,723.50	6,583
		Porcelain Tile				
13	10/42/d	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over 3/4" thick (1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.				
		d) (Non-Skid Chequered Tiles) 300mmx300mm	Per Sft	100.00	225.65	22,565
14	10/43/a	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.				
		a) Full body Glazed Tile				
		(i) 400 mm x 400 mm	Per Sft	13.20	310.10	4,093
		Slab Plaster				
15	11/10/b	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)	100 Sft	1.00	3,963.30	3,963
		Cement Plaster				
16	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	3.36	4,650.85	15,627
		Pointing				
17	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:-				
		a) ratio 1:2	100 Sft	4.83	3,776.40	18,240
18	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	4.83	822.00	3,970

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DETAILED COST ESTIMATE

TYRE SHOP

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Distempering				
19	11/23	Distempering:- iii) three coats	100 Sft	4.36	1,446.35	6,306
		Rolling Shutter				
20	25/37	Providing and fixing 24 SWG G.I. sheet rolling shutter, consisting of steel frame of M.S. channel 2"x1¼"x1/8" (50x30x3 mm), angle iron 1½"x1½"x1/8" (40x40x3 mm), M.S. plate 1"x1"x1/8" (300x300x3 mm), G.I. pipe 1½" (37 mm) dia, springs 2' (600 mm) centre to centre, rollers, 24 SWG G.I. covering 1 ft. x 1 ft. (300x300 mm), handles, holdfast, and painting three coats, complete in all respects.	Per Sft	68.00	653.05	44,407
		Steel Window				
21	25/41/b	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:- b) fixed with wire gauze, 22 SWG v) glass pane 5 mm thick	Per Sft	16.00	1,170.70	18,731
		Roof Insulation				
22	9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	100 Sft	1.32	12,104.25	15,978
23	26/37/ii	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc. ii) 500 gauge (.005" thick)	Per Sft	132.00	8.65	1,142
		Khurras				
24	9/15	Khurras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	1.00	905.25	905

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DETAILED COST ESTIMATE

TYRE SHOP

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Bottom Khuras				
25	9/16	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	1.00	1,908.05	1,908
		Crush				
26	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	117.04	109.79	12,850
		Total Rs.				526,150

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TYRE SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	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)						
	ii) in ordinary soil.						
	Room wall	1	43.00	2.50	2.50	268.75	Cft
					Total	268.75	Cft
					Total	0.27	%oCft
	Anti-Termite						
2	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge						
	Room wall	1	43.00	7.50		322.50	Sft
	Floor	1	10.00	10.00		100.00	Sft
					Total	422.50	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Room wall	1	43.00	2.50	0.33	35.48	Cft
					Total	35.48	Cft
					Total	0.35	%Cft
	Brick work in Foundation						
4	Pacca brick work in foundation and plinth in:-						
	Cement, sand mortar:- Ratio 1:5						
	Room wall						
	Step - 1	1	43.00	1.875	0.25	20.16	Cft
	Step - 2	1	43.00	1.500	0.25	16.13	Cft
	Step - 3	1	43.00	1.125	0.25	12.09	Cft
	Step - 4	1	43.00	0.750	5.42	174.80	Cft
					Total	223.17	Cft

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TYRE SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
						Total	2.23 %Cft
	Horizontal D.P.C						
5	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-						
	(a) with one coat bitumen and one coat polythene sheet 500gauge						
	i) 1½" thick (40 mm)						
	Room wall	1	43.00	0.75		32.25	Sft
						Total	32.25 Sft
						Total	0.32 %Sft
	Vertical D.P.C						
6	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-						
	(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:						
	ii) Ratio 1:3 ¾ " thick (20 mm)						
	Room wall	1	43.00		1.00	43.00	Sft
						Total	43.00 Sft
						Total	0.43 %Sft
	Brick work in Super Structure						
7	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5						
	Room wall	1	43.00	0.75	10.50	338.63	Cft
	Parapet Wall	1	43.00	0.38	2.50	40.31	Cft
	Entrance step	2	4.00	1.00	0.75	6.00	Cft
	D/d Doors and Window						
	Shutter	-1	8.00	0.75	8.50	(51.00)	Cft
	W-1	-1	4.00	0.75	4.00	(12.00)	Cft
						Total	321.94 Cft
						Total	3.22 %Cft

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TYRE SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
					Total	4.00	%Cft
	Brick ballast						
11	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.						
	Floor	1	10.00	10.00	0.33	33.00	Cft
					Total	33.00	Cft
					Total	0.33	%Cft
	P.C.C						
12	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	Ratio 1: 2: 4						
	Floor	1	10.00	10.00	0.17	16.67	Cft
					Total	0.17	%Cft
	Porcelain Tile						
13	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over ¾" thick (1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.						
	d) (Non-Skid Chequered Tiles) 300mmx300mm	1	10.00	10.00		100.00	Sft
					Total	100.00	Sft
14	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over ½" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.						
	a) Full body Glazed Tile						
	(i) 400 mm x 400 mm	1	40.00		0.33	13.20	Sft
					Total	13.20	Sft
	Slab Plaster						

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TYRE SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
					Total	436.00	Sft
					Total	4.36	%Sft
	Wooden Door						
20	Providing and fixing 24 SWG G.I. sheet rolling shutter, consisting of steel frame of M.S. channel 2"x1¼"x1/8" (50x30x3 mm), angle iron 1½"x1½"x1/8" (40x40x3 mm), M.S. plate 1"x1"x1/8" (300x300x3 mm), G.I. pipe 1½" (37 mm) dia, springs 2' (600 mm) centre to centre, rollers, 24 SWG G.I. covering 1 ft. x 1 ft. (300x300 mm), handles, holdfast, and painting three coats, complete in all respects.						
	Shutter	1	8.00		8.50	68.00	Sft
					Total	68.00	Sft
	Steel Window						
21	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-						
	b) fixed with wire gauze, 22 SWG						
	v) glass pane 5 mm thick						
	W-1	1	4.00		4.00	16.00	Sft
					Total	16.00	Sft

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TYRE SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Roof Insulation						
22	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.						
	Roof area	1	11.50	11.50		132.25	Sft
					Total	132.25	Sft
					Total	1.32	%Sft
23	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.						
	ii) 500 gauge (.005" thick)				Total	132.00	Sft
	Khurras						
24	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	1				1.00	Each
	Bottom Khuras						
25	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	1				1.00	Each

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DETAILED COST ESTIMATE

TYRE SHOP

PLUMBING WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		uPVC Pipe				
1	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)				
		(v) 4"(110 mm)	Rft	30.00	218.00	6,540
		Total Rs.				6,540.00

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DETAILED COST ESTIMATE

TYRE SHOP

ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		<u>Scheduled Items (A)</u>				
1	C-24/3-ii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (20 mm i/d)	Rft.	200.00	86.40	17,280
2	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	150.00	101.60	15,240
3	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit / G.I pipe/ wooden strip batten/wooden casing an capping /G.I. wire/trenches (rate for cables only). (3.029)	Rft.	500.00	27.85	13,925
4	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	200.00	44.05	8,810
5	C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	4.00	296.00	1,184
6	C-24/14-ii	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (7"x4")	Each	1.00	409.95	410
7	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	3.00	96.95	291
8	C-24/36-i	Supply and erection of 3 pin switch and Plug combined, recessed type. (5Amps)	Each	1.00	126.95	127

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TYRE SHOP

ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
9	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	3.00	167.75	503
10	C-24/43	Supply and erection of tube light, including rod, choke, starter with frame, flexible wire, including connection from ceiling rose, etc., complete ii) single rod (40 watts) with one choke and one starter.	Each	2.00	2,579.25	5,159
		Sub Total (A)				62,929
11	N.S	Supply, Installation, testing and commissioning of following size 56" ceiling fan, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect.	Each	1.00	7,000.00	7,000
		Sub Total (B)				7,000
		Sub Total (A+B)				69,929

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DETAILED COST ESTIMATE

STORE ROOM

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	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.	1000Cft	0.61	11,658.25	7,112
		Anti-Termite				
2	26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	Sft	1,237.50	9.90	12,251
		Plain Cement Concrete				
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	100 Cft	0.80	29,723.50	23,779
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	5.03	32,358.60	162,764
		Horizontal D.P.C				
5	6/36	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-				
		(a) with one coat bitumen and one coat polythene sheet 500gauge				
		i) 1½" thick (40 mm)	100 Sft	0.73	9,272.70	6,769
		Vertical D.P.C				
6	6/38	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-				
		(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:				
		ii) Ratio 1:3 ¾ " thick (20 mm)	100 Sft	0.97	6,932.65	6,725
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:-				
		i) Cement, sand mortar:- Ratio 1:5	100 Cft	7.57	34,761.00	263,141

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STORE ROOM

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Concrete Work				
8	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.):-				
		Above foundation				
		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	328.88	580.05	190,764
		Steel Work.				
9	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	10.58	31,940.05	337,926
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	20.40	2,982.00	60,833
		Brick ballast				
11	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100 Cft	1.68	9,900.00	16,632

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STORE ROOM

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Tuff Paver				
12	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)				
		b) 60-mm thick	Per Sft	510.00	158.90	81,039
		Slab Plaster				
13	11/10/b	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)	100 Sft	5.10	3,963.30	20,213
		Cement Plaster				
14	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	8.49	4,650.85	39,486
		Pointing				
15	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2	100 Sft	14.00	3,776.40	52,870
16	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	14.00	822.00	11,508
		Distempering				
17	11/23	Distempering:- iii) three coats	100 Sft	13.59	1,446.35	19,656
		Wooden Door				
18	12/50-i	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partial wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)	Per Sft	42.00	2,084.35	87,543

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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

STORE ROOM

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Lock				
19	12/22	Providing and fixing, approved quality mortice lock.	Each	1.00	1,142.40	1,142
		Paint				
20	13/5/c	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-				
		i) priming coat.	100 Sft	0.84	1,460.05	1,226
		ii)Two coat	100 Sft	0.84	841.65	707
		Steel Window				
21	25/41/b	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-				
		b) fixed with wire gauze, 22 SWG				
		v) glass pane 5 mm thick	Per Sft	96.00	1,170.70	112,387
		Roof Insulation				
22	9/35	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	100 Sft	5.83	12,104.25	70,568
23	26/37/ii	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.				
		ii) 500 gauge (.005" thick)	Per Sft	583.00	8.65	5,043
		Khurras				
24	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	1.00	905.25	905
		Bottom Khuras				
25	9/16	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	1.00	1,908.05	1,908

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DETAILED COST ESTIMATE

STORE ROOM

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Crush				
26	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	365.23	109.79	40,097
		Total Rs.				1,634,992

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SUPERVISION IN 16 CITIES OF PUNJAB

STORE ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
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)						
	ii) in ordinary soil.						
	Room wall	1	97.00	2.50	2.50	606.25	Cft
					Total	606.25	Cft
					Total	0.61	%Cft
Anti-Termite							
2	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge						
	Room wall	1	97.00	7.50		727.50	Sft
	Floor	1	30.00	17.00		510.00	Sft
					Total	1,237.50	Sft
Plain Cement Concrete							
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Room wall	1	97.00	2.50	0.33	80.03	Cft
					Total	80.03	Cft
					Total	0.80	%Cft
Brick work in Foundation							
4	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5						
	Room wall						
	Step - 1	1	97.00	1.875	0.25	45.47	Cft
	Step - 2	1	97.00	1.500	0.25	36.38	Cft
	Step - 3	1	97.00	1.125	0.25	27.28	Cft
	Step - 4	1	97.00	0.750	5.42	394.31	Cft
					Total	503.43	Cft
					Total	5.03	%Cft

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SUPERVISION IN 16 CITIES OF PUNJAB

STORE ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Horizontal D.P.C						
5	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-						
	(a) with one coat bitumen and one coat polythene sheet 500gauge						
	i) 1½" thick (40 mm)						
	Room wall	1	97.00	0.75		72.75	Sft
					Total	72.75	Sft
					Total	0.73	%Sft
	Vertical D.P.C						
6	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-						
	(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:						
	ii) Ratio 1:3 ¾ " thick (20 mm)						
	Room wall	1	97.00		1.00	97.00	Sft
					Total	97.00	Sft
					Total	0.97	%Sft
	Brick work in Super Structure						
7	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5						
	Room wall	1	97.00	0.75	10.50	763.88	Cft
	Parapet Wall	1	97.00	0.38	2.50	90.94	Cft
	Entrance step	2	4.00	1.00	0.75	6.00	Cft
	D/d Doors and Window						
	D-1	-1	6.00	0.75	7.00	(31.50)	Cft
	W-1	-4	6.00	0.75	4.00	(72.00)	Cft
					Total	757.31	Cft
					Total	7.57	%Cft

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SUPERVISION IN 16 CITIES OF PUNJAB

STORE ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Concrete Work						
8	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.):-						
	Above foundation						
	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	Type C (nominal mix 1: 2: 4)						
	Top Slab	1	31.50	18.50	0.50	291.38	Cft
	Sun shade	1	31.50	1.50	0.25	11.81	Cft
	Sun shade	2	8.00	1.50	0.25	6.00	Cft
	Doors and window Lintels						
	D-1	1	7.00	0.75	0.75	3.94	Cft
	W-1	4	7.00	0.75	0.75	15.75	Cft
						Total	328.88
							Cft
	Steel Work.						
9	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):-						
	Deformed bars (Grade-60)					328.88	Cft
	Top Slab & lintel @ 6.75 lbs / Cft		6.75		=	2,219.91	lbs/cft
					Total	=	2,219.91
					Total	=	1,007.22
					Add 5% Wastage.	=	50.36
					Total	=	1,058
							Kg
						Total	10.58
							%kg
	Sand Filling						
10	Supplying and filling sand under floor; or plugging in wells.						
	Floor	1	30.00	17.00	4.00	2,040.00	Cft
					Total	2,040.00	Cft

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STORE ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
					Total	20.40	%Cft
	Brick ballast						
11	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.						
	Floor	1	30.00	17.00	0.33	168.30	Cft
					Total	168.30	Cft
					Total	1.68	%Cft
	Tuff Paver						
12	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)						
	b) 60-mm thick	1	30.00	17.00		510.00	Sft
					Total	510.00	Sft
	Slab Plaster						
13	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)						
		1	30.00	17.00		510.00	Sft
					Total	5.10	%Sft
	Cement Plaster						
14	Cement plaster 1:4 upto 20' (6.00 m) height:-						
	3/4" (20 mm) thick						
	Sitting Room						
		2	30.00		10.50	630.00	Sft
		2	17.00		10.50	357.00	Sft
	D/d Doors and Window						
	D-1	-1	6.00		7.00	(42.00)	Sft
	W-1	-4	6.00		4.00	(96.00)	Sft
					Total	849.00	Sft
					Total	8.49	%Sft

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STORE ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Pointing						
15	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-						
	a) ratio 1:2						
	Outer Walls	1	100.00		14.00	1,400.00	Sft
					Total	1,400.00	Sft
					Total	14.00	%Sft
16	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
					Total	14.00	%Sft
	Distempering						
17	Distempering:-						
	iii) three coats						
	Store Room	2	30.00		10.50	630.00	Sft
		2	17.00		10.50	357.00	Sft
	Ceiling	1	30.00	17.00		510.00	Sft
	D/d Doors and Window						
	D-1	-1	6.00		7.00	(42.00)	Sft
	W-1	-4	6.00		4.00	(96.00)	Sft
					Total	1,359.00	Sft
					Total	13.59	%Sft
	Wooden Door						
18	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partal wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)						
	D-1	1	6.00		7.00	42.00	Sft
					Total	42.00	Sft

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STORE ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Lock						
19	Providing and fixing, approved quality mortice lock.	1				1.00	Each
	Paint						
20	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-						
	i) priming coat.						
	ii) Two coat						
					Total	0.84	Sft
	Steel Window						
21	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-						
	b) fixed with wire gauze, 22 SWG						
	v) glass pane 5 mm thick						
	W-1	4	6.00		4.00	96.00	Sft
					Total	96.00	Sft
	Roof Insulation						
22	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.						
	Roof area	1	31.50	18.50		582.75	Sft
					Total	582.75	Sft
					Total	5.83	%Sft
	23						
	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.						
	ii) 500 gauge (.005" thick)						
					Total	583.00	Sft

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DETAILED COST ESTIMATE

STORE ROOM

PLUMBING WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		uPVC Pipe				
1	19-47	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)				
		(v) 4"(110 mm)	Rft	30.00	218.00	6,540
		Total Rs.				6,540.00

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DETAILED COST ESTIMATE

STORE ROOM

ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		<u>Scheduled Items (A)</u>				
1	C-24/3-ii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (20 mm i/d)	Rft.	300.00	86.40	25,920
2	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	150.00	101.60	15,240
3	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	750.00	27.85	20,888
4	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	300.00	44.05	13,215
5	C-24/10a.iv	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.036)	Rft.	200.00	58.50	11,700
6	C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	5.00	296.00	1,480
7	C-24/14-ii	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (7"x4")	Each	1.00	409.95	410

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STORE ROOM

ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
8	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	5.00	96.95	485
9	C-24/36-i	Supply and erection of 3 pin switch and Plug combined, recessed type. (5Amps)	Each	1.00	126.95	127
10	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	4.00	167.75	671
11	C-24/43	Supply and erection of tube light, including rod, choke, starter with frame, flexible wire, including connection from ceiling rose, etc., complete ii) single rod (40 watts) with one choke and one starter.	Each	6.00	2,579.25	15,476
12	C-24/102/a	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas /G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge. (a) Plastic body (ii) 12 " dia	Each	2.00	3,380.85	6,762
Sub Total (A)						112,372
13	N.S	Supply, Installation, testing and commissioning of following size 56" ceiling fan, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect.	Each	1.00	7,000.00	7,000
Sub Total (B)						7,000
Sub Total (A+B)						119,372

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WORK SHOP

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	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.	1000Cft	1.23	11,658.25	14,340
		Anti-Termite				
2	26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	Sft	2,010.89	9.90	19,908
		Plain Cement Concrete				
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	100 Cft	1.13	29,723.50	33,588
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	3.37	32,358.60	109,048
		Horizontal D.P.C				
5	6/36	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-				
		(a) with one coat bitumen and one coat polythene sheet 500gauge				
		i) 1½" thick (40 mm)	100 Sft	0.49	9,272.70	4,544
		Vertical D.P.C				
6	6/37	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-				
		(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:				
		ii) Ratio 1:3 ¾ " thick (20 mm)	100 Sft	0.65	6,932.65	4,506

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WORK SHOP

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:-				
		i) Cement, sand mortar:- Ratio 1:5	100 Cft	5.27	34,761.00	183,190
		Concrete Work				
8	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.):-				
		In Foundation				
		(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)	P.Cft	192.50	470.70	90,610
		Above foundation				
		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	172.75	580.05	100,204
		Steel Work.				
9	6/11/c	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):-				
		Deformed bars (Grade-60)	100kg	12.18	31,940.05	389,030
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	33.95	2,982.00	101,239

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WORK SHOP

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Brick ballast				
11	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100 Cft	0.49	9,900.00	4,851
		Plain Cement Concrete				
12	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		Ratio 1: 2: 4	100 Cft	0.10	38,723.50	3,872
		Sub Base Course				
13	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. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	2.31	13,687.35	31,618
		Water Bound Macadam				
14	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	2.31	27,419.98	63,340
		Tuff Paver				
15	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)				
		For Tool Room b) 60-mm thick	Per Sft	89.25	158.90	14,182
		For Work shop c) 80-mm thick	Per Sft	700.00	197.40	138,180
		Ceramic Tile				
16	10/24	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over ¾" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.				
		i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	Per Sft	59.50	255.50	15,202

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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

WORK SHOP

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
17	10/25	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.				
		i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	Per Sft	217.00	310.10	67,292
		Slab Plaster				
18	11/10/b	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)	100 Sft	1.49	3,963.30	5,905
		Cement Plaster				
19	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	6.63	4,650.85	30,835
		Pointing				
20	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2	100 Sft	8.33	3,776.40	31,457
21	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	8.33	822.00	6,847
		Distempering				
22	11/23	Distempering:- iii) three coats	100 Sft	8.11	1,446.35	11,730

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DETAILED COST ESTIMATE

WORK SHOP

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Wooden Door				
23	12/49-i	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partal wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)	Per Sft	42.00	2,084.35	87,543
		Lock				
24	12/21	Providing and fixing, approved quality mortice lock.	Each	2.00	1,142.40	2,285
		Paint				
25	13/5/c	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-				
		i) priming coat.	100 Sft	0.84	1,460.05	1,226
		ii)Two coat	100 Sft	0.84	841.65	707
		Steel Window				
26	25/41/b	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-				
		b) fixed with wire gauze, 22 SWG				
		v) glass pane 5 mm thick	Per Sft	20.00	1,170.70	23,414

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DETAILED COST ESTIMATE

WORK SHOP

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Roof Insulation				
27	9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	100 Sft	2.00	12,104.25	24,209
28	26/37/ii	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.				
		ii) 500 gauge (.005" thick)	Per Sft	200.00	8.65	1,730
		Khurras				
29	9/15	Khurras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	1.00	905.25	905
		Bottom Khurras				
30	9/16	Bottom Khurras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	1.00	1,908.05	1,908
		Crush				
31	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	437.31	109.79	48,011
		Parking Shed				
32	N.S	Providing, laying and fixing in position shed as per drawings, manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick fixed with rivet and bolts over Purlins and truss frame of 50X50X4.75 mm with approved Colour/ paint supported with Steel Hexagonal / round shaped Columns size 200 to 300 mm diameter fitted with J-Type bolt having length 450 to 500 mm and not less than 38mm diameter. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought prior to placing order.	Sft	700.00	1,800.00	1,260,000
		Total Rs.				2,927,456

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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	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)						
	ii) in ordinary soil.						
	Tool Room wall	1	41.00	2.50	2.50	256.25	Cft
	Toilet wall	1	24.00	2.50	2.50	150.00	Cft
	Columns	4	7.50	6.00	4.58	824.40	Cft
					Total	1,230.65	Cft
					Total	1.23	%oCft
	Anti-Termite						
2	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge						
	Tool Room wall	1	41.00	7.50		307.50	Sft
	Toilet wall	1	24.00	7.50		180.00	Sft
	Floor	1	8.50	10.50		89.25	Sft
		1	8.50	7.00		59.50	Sft
		1	35.00	20.00		700.00	Sft
	Columns	4	27.00	4.58		494.64	Sft
		4	7.50	6.00		180.00	Sft
					Total	2,010.89	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Tool Room wall	1	41.00	2.50	0.33	33.83	Cft
	Toilet wall	1	24.00	2.50	0.33	19.80	Cft
	Columns	4	7.50	6.00	0.33	59.40	Cft
					Total	113.03	Cft
					Total	1.13	%Cft
	Brick work in Foundation						

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WORK SHOP
CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
4	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5						
	Tool Room wall						
	Step - 1	1	41.00	1.875	0.25	19.22	Cft
	Step - 2	1	41.00	1.500	0.25	15.38	Cft
	Step - 3	1	41.00	1.125	0.25	11.53	Cft
	Step - 4	1	41.00	0.750	5.42	166.67	Cft
	Toilet wall						
	Step - 1	1	24.00	1.875	0.25	11.25	Cft
	Step - 2	1	24.00	1.500	0.25	9.00	Cft
	Step - 3	1	24.00	1.125	0.25	6.75	Cft
	Step - 4	1	24.00	0.750	5.42	97.56	Cft
						Total	337.35 Cft
						Total	3.37 %Cft
	Horizontal D.P.C						
5	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-						
	(a) with one coat bitumen and one coat polythene sheet 500gauge						
	i) 1½" thick (40 mm)						
	Tool Room wall	1	41.00	0.75		30.75	Sft
	Toilet wall	1	24.00	0.75		18.00	Sft
						Total	48.75 Sft
						Total	0.49 %Sft
	Vertical D.P.C						
6	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-						
	(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:						
	ii) Ratio 1:3 ¾ " thick (20 mm)						
	Tool Room wall	1	41.00		1.00	41.00	Sft
	Toilet wall	1	24.00		1.00	24.00	Sft
						Total	65.00 Sft
						Total	0.65 %Sft
	Brick work in Super Structure						
7	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5						
	Tool Room wall	1	41.00	0.75	10.50	322.88	Cft
	Toilet wall	1	24.00	0.75	10.50	189.00	Cft
	Parapet Wall	1	59.50	0.38	2.50	55.78	Cft

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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Entrance step	2	4.00	1.00	0.75	6.00	Cft
	D/d Doors and Window						
	D-1	-1	3.50	0.75	7.00	(18.38)	Cft
	D-2	-1	2.50	0.75	7.00	(13.13)	Cft
	W-1	-1	4.00	0.75	4.00	(12.00)	Cft
	V-1	-1	2.00	0.70	2.00	(2.80)	Cft
					Total	527.36	Cft
					Total	5.27	%Cft
	Concrete Work						
8	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.):-						
	In Foundation						
	(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:-						
	Columns	4	7.00	5.50	1.25	192.50	Cft
					Total	192.50	Cft
	Above foundation						
	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	Type C (nominal mix 1: 2: 4)						
	Top Slab	1	200.00	1.00	0.50	100.00	Cft
	Sun shade	2	5.00	1.50	0.25	3.75	Cft
	Columns	4	1.25	1.50	8.00	60.00	Cft
	Doors and window Lintels						
	D-1	1	4.50	0.75	0.75	2.53	Cft
	D-2	1	3.50	0.75	0.75	1.97	Cft
	W-1	1	5.00	0.75	0.75	2.81	Cft
	V-1	1	3.00	0.75	0.75	1.69	Cft

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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
					Total	172.75	Cft
	Steel Work.						
9	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):-						
	Deformed bars (Grade-60)					365.25	Cft
	Top Slab, lintel & Columns @ 7 lbs / Cft		7.00		=	2,556.75	lbs/cft
				Total	=	2,556.75	lbs/cft
				Total	=	1,160.05	Kg.
				Add 5% Wastage.	=	58.00	Kg.
				Total	=	1,218	Kg
					Total	12.18	%kg
	Sand Filling						
10	Supplying and filling sand under floor; or plugging in wells.						
	Tool Floor	1	8.50	10.50	4.00	357.00	Cft
	Toilet	1	8.50	7.00	4.00	238.00	Cft
	Work Shop Area	1	35.00	20.00	4.00	2,800.00	Cft
					Total	3,395.00	Cft
					Total	33.95	%Cft
	Brick ballast						
11	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.						
	Tool Floor	1	8.50	10.50	0.33	29.45	Cft
	Toilet	1	8.50	7.00	0.33	19.64	Cft
					Total	49.09	Cft
					Total	0.49	%Cft
	P.C.C						
12	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	Ratio 1: 2: 4						
	Toilet	1	8.50	7.00	0.17	9.92	Cft
					Total	0.10	%Cft

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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Sub Base Course						
13	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. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Work Shop Area	1	35.00	20.00	0.33	231.00	Cft
					Total	2.31	%Cft
	Water Bound Macadam						
14	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)						
	Work Shop Area	1	35.00	20.00	0.33	231.00	Cft
					Total	2.31	%Cft
15	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)						
	For Tool Room b) 60-mm thick						
	Tool Floor	1	8.50	10.50		89.25	Sft
	Work Shop Area	1	35.00	20.00		700.00	Sft
	Ceramic Tile						

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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
16	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.						
	i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	1	8.50	7.00		59.50	Sft
						Total	59.50 Sft
17	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.						
	i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	2	8.50		7.00	119.00	Sft
		2	7.00		7.00	98.00	Sft
						Total	217.00 Sft
	Slab Plaster						
18	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)						
		1	8.50	10.50		89.25	Sft
		1	8.50	7.00		59.50	Sft
						Total	1.49 %Sft
	Cement Plaster						
19	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick						
	Tool Room wall						
		2	8.50		10.50	178.50	Sft
		2	10.50		10.50	220.50	Sft
	Toilet						
		2	8.50		10.50	178.50	Sft
		2	7.00		10.50	147.00	Sft
	D/d Doors and Window						
	D-1	-1	3.50		7.00	(24.50)	Sft
	D-2	-1	2.50		7.00	(17.50)	Sft
	W-1	-1	4.00		4.00	(16.00)	Sft

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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	V-1	-1	2.00		2.00	(4.00)	Sft
					Total	662.50	Sft
					Total	6.63	%Sft
	Pointing						
20	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-						
	a) ratio 1:2						
	Outer Walls	1	59.50		14.00	833.00	Sft
					Total	833.00	Sft
					Total	8.33	%Sft
21	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
					Total	8.33	%Sft
	Distempering						
22	Distempering:-						
	iii) three coats						
	Tool Room wall						
		2	8.50		10.50	178.50	Sft
		2	10.50		10.50	220.50	Sft
	Toilet						
		2	8.50		10.50	178.50	Sft
		2	7.00		10.50	147.00	Sft
	Slab	1	8.50	10.50		89.25	Sft
		1	8.50	7.00		59.50	Sft
	D/d Doors and Window						
	D-1	-1	3.50		7.00	(24.50)	Sft
	D-2	-1	2.50		7.00	(17.50)	Sft
	W-1	-1	4.00		4.00	(16.00)	Sft
	V-1	-1	2.00		2.00	(4.00)	Sft
					Total	811.25	Sft
					Total	8.11	%Sft
	Wooden Door						

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SUPERVISION IN 16 CITIES OF PUNJAB

WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
23	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partal wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)						
	D-1	1	3.50		7.00	24.50	Sft
	D-2	1	2.50		7.00	17.50	Sft
					Total	42.00	Sft
	Lock						
24	Providing and fixing, approved quality mortice lock.	2				2.00	Each
	Paint						
25	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-						
	i) priming coat.						
	ii)Two coat				Total	0.84	Sft
	Steel Window						
26	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-						
	b) fixed with wire gauze, 22 SWG						
	v) glass pane 5 mm thick						
	W-1	1	4.00		4.00	16.00	Sft
	V-1	1	2.00		2.00	4.00	Sft
					Total	20.00	Sft

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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Roof Insulation							
27	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.						
	Roof area	1	200.00	1.00		200.00	Sft
					Total	200.00	Sft
					Total	2.00	%Sft
28	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.						
	ii) 500 gauge (.005" thick)				Total	200.00	Sft
Khurras							
29	Khurras on roof 2'x2'x6" (600 x 600 x 150 mm)	1				1.00	Each
Bottom Khurras							
30	Bottom Khurras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	1				1.00	Each
Parking Shed							
31	Providing, laying and fixing in position shed as per drawings, manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick fixed with rivet and bolts over Purlins and truss frame of 50X50X4.75 mm with approved Colour/ paint supported with Steel Hexagonal / round shaped Columns size 200 to 300 mm diameter fitted with J-Type bolt having length 450 to 500 mm and not less than 38mm diameter. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought prior to placing order.	1	35.00	20.00		700.00	Sft
					Total	700.00	Sft

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DETAILED COST ESTIMATE

WORK SHOP

PLUMBING WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Indian W.C				
1	19-4-i	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest.				
		i) white	Each	1.00	2,461.85	2,462
2	19-13-i	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.				
		i) white	Each	1.00	3,061.65	3,062
3	19-7-i	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc.				
		i) white, with pedestal	Each	1.00	6,160.50	6,161
5	19-30	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	Each	1.00	2,477.00	2,477
7	19-16	Providing and fixing, chromium plated soap dish.	Each	1.00	538.60	539
9	19-20	Providing and fixing looking glass 55x40 cm (22"x16") size	Each	1.00	800.30	800
10	19-26	Providing and fixing chromium plated bib cock:-				
		i) 2 cm (¾")	Each	1.00	1,099.75	1,100
11	19-28	Providing and fixing chromium plated tee stop cock 15mm (½").	Each	3.00	1,081.60	3,245
12	19-34-i	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:-				
		i) 10x5 cm (4"x2")	Each	1.00	670.20	670
13	19-36	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").	Each	1.00	1,214.75	1,215
14	19-35-ii	Providing and fitting "P" trap:-				
		ii) 10 cm (4") glazed.	Each	2.00	323.25	647

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WORK SHOP

PLUMBING WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		PPRC Pipe				
15	23-47	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/ Popular /Beta/ BBJ)with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directedby Engineer Incharge.(Internal / External Diameters mentioned).				
		b) PN-20 pipe				
		(ii) (3/4") 25 mm	Rft	50.00	67.15	3,358
		(iii) (1") 32 mm	Rft	50.00	107.65	5,383
		Valve				
16	23/46	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified dia meter made of Faisal/ Sonex/ Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
		ii) 3/4" dia	Each	1.00	1,545.60	1,546
		iii) 1" dia	Each	1.00	1,809.60	1,810
		uPVC Pipe				
17	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)				
		(iii) 2"(60 mm)	Rft	10.00	89.25	893
		(v) 4"(110 mm)	Rft	50.00	218.00	10,900
		(vi) 6"(160 mm)	Rft	10.00	422.55	4,226

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DETAILED COST ESTIMATE

WORK SHOP

PLUMBING WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		HDPE Tank				
18	19/51	Providing and hoisting vertical /horizontal type storage tank of required capacity made of rotationally molded from (HDPE), double ply polyethelene of approved manufacturer i/c cost of making connection for inlet/outlet pipe, float valve i/c all cost of specials & labour complete in all respect as approved and directed by the Engineer Incharge.	P.Gln	200.00	117.30	23,460
		Total Rs. (A)				73,949
		Non-Schedule Item				
19	N.S	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	Each	1.00	19,199.71	19,200
		Total Rs. (B)				19,200
		Total Amount Rs. (A + B)				93,149

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DETAILED COST ESTIMATE

WORK SHOP

ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		<u>Scheduled Items (A)</u>				
1	C-24/3-ii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (20 mm i/d)	Rft.	200.00	86.40	17,280
2	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	300.00	101.60	30,480
3	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	800.00	27.85	22,280
4	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	500.00	44.05	22,025
5	C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	10.00	296.00	2,960
6	C-24/14-ii	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (7"x4")	Each	2.00	409.95	820
7	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	12.00	96.95	1,163
8	C-24/36-i	Supply and erection of 3 pin switch and Plug combined, recessed type. (5Amps)	Each	2.00	126.95	254

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WORK SHOP

ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
9	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	8.00	167.75	1,342
10	C-24/102/a	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas /G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge. (a) Plastic body (ii) 12 " dia	Each	1.00	3,380.85	3,381
Sub Total (A)						101,985
11	N.S	Supply, installation and commissioning high bay light 100W with 120lm/w LED hanging with all accessories complete in all respects	Each	6.00	35,035.00	210,210
12	N.S	Supply, Installation, testing and commissioning of following size 56" ceiling fan, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect.	Each	1.00	7,000.00	7,000
Sub Total (B)						217,210
Sub Total (A+B)						319,195

PUNJAB CITIES PROGRAM (PCP)
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DETAILED COST ESTIMATE

PARKING SHED (SIZE 150' x 32')

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	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.	1000Cft	3.50	11,658.25	40,804
		Anti-Termite				
2	26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	Sft	7,323.72	9.90	72,505
		Plain Cement Concrete				
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	100 Cft	2.52	29,723.50	74,903
		Concrete Work				
4	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.):-				
		In Foundation				
		(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 C (nominal mix 1: 2: 4)	P.Cft	840.00	470.70	395,388
		Above foundation				

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DETAILED COST ESTIMATE

PARKING SHED (SIZE 150' x 32')

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		(2) Type B (nominal mix 1: 1½: 3)	P.Cft	288.00	634.75	182,808
		Steel Work.				
5	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	64.49	31,940.05	2,059,814
		Sand Filling				
6	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	192.00	2,982.00	572,544
		Sub Base Course				
7	18/3/a/ (i) + 1/1	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	15.84	13,687.35	216,808

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DETAILED COST ESTIMATE

PARKING SHED (SIZE 150' x 32')

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Water Bound Macadam				
8	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	15.84	27,419.98	434,332
		Tuff Paver				
9	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	Per Sft	4,800.00	197.40	947,520
		Crush				
10	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	1,219.94	109.79	133,934
		Parking Shed				
11	N.S	Providing, laying and fixing in position shed as per drawings, specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick fixed with rivet and bolts over Purlins of size 10ZS 2.25X0.085 (Grade 50) and truss frame of 2-1/2"X2-1/2"X1/2" Double angle with Gusset Plate 3/16" thick with approved Colour/ paint supported with Steel Hexagonal / round shaped Columns size 9" to 12" diameter having not less than 3/16" thick fitted with J-Type bolt 3/4" diameter having shown in drawings. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought prior to placing order.	Sft	4,800.00	2,000.00	9,600,000
		Total Rs.				14,731,360

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SUPERVISION IN 16 CITIES OF PUNJAB

PARKING SHED (SIZE 150' x 32')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	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)						
	ii) in ordinary soil.						
	Columns	12	8.50	7.50	4.58	3,503.70	Cft
					Total	3,503.70	Cft
					Total	3.50	%Cft
	Anti-Termite						
2	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge						
	Floor	1	150.00	32.00		4,800.00	Sft
	Columns	12	32.00	4.58		1,758.72	Sft
		12	8.50	7.50		765.00	Sft
					Total	7,323.72	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Columns	12	8.50	7.50	0.33	252.45	Cft
					Total	252.45	Cft
					Total	2.52	%Cft

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SUPERVISION IN 16 CITIES OF PUNJAB
PARKING SHED (SIZE 150' x 32')
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Concrete Work						
4	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.):-						
	In Foundation						
	(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:-						
	Columns	12	8.00	7.00	1.25	840.00	Cft
					Total	840.00	Cft
	Above foundation						
	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	(2) Type B (nominal mix 1: 1½: 3)						
	Columns	12	1.50	2.00	8.00	288.00	Cft
					Total	288.00	Cft
	Steel Work.						
5	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):-						
	Deformed bars (Grade-60)					1,128.00	Cft
	Columns @ 12 lbs / Cft		12.00		=	13,536	lbs/cft
					Total	13,536	lbs/cft
					Total	6,142	Kg.
					Add 5% Wastage.	307	Kg.
					Total	6,449	Kg
					Total	64.49	%kg
	Sand Filling						

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PARKING SHED (SIZE 150' x 32')
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
6	Supplying and filling sand under floor; or plugging in wells.						
	Shed	1	150.00	32.00	4.00	19,200.00	Cft
					Total	19,200.00	Cft
					Total	192.00	%Cft
	Sub Base Course						
7	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	150.00	32.00	0.33	1,584.00	Cft
					Total	15.84	%Cft
	Water Bound Macadam						
8	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	150.00	32.00	0.33	1,584.00	Cft
					Total	15.84	%Cft
9	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)						
	Shed	1	150.00	32.00		4,800	Sft

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DETAILED COST ESTIMATE

PARKING SHED (SIZE 150' x 32')

ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		<u>Scheduled Items (A)</u>				
1	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	400.00	101.60	40,640
2	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaidd PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	800.00	27.85	22,280
3	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaidd PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	400.00	44.05	17,620
4	C-24/10a.iv	Supply and erection of single core PVC insulated copper conductor cables, in prelaidd PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.036)	Rft.	200.00	58.50	11,700
5	C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	6.00	296.00	1,776
4	C-24/14-ii	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (7"x4")	Each	2.00	409.95	820
5	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	10.00	96.95	970
		Sub Total (A)				95,805

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DETAILED COST ESTIMATE

PARKING SHED (SIZE 150' x 32')

ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
6	N.S	Supply, installation and commissioning high bay light 100W with 120lm/w LED hanging with all accessories complete in all respects	Each	10.00	35,035.00	350,350
		Sub Total (B)				350,350
		Sub Total (A+B)				446,155

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DETAILED COST ESTIMATE

PARKING SHED (SIZE 120' x 32')

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	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.	1000Cft	2.92	11,658.25	34,042
		Anti-Termite				
2	26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	Sft	5,943.10	9.90	58,837
		Plain Cement Concrete				
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	100 Cft	2.10	29,723.50	62,419
		Concrete Work				
4	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.):-				
		In Foundation				
		(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 B (nominal mix 1: 2: 4)	P.Cft	700.00	470.70	329,490
		Above foundation				

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

DETAILED COST ESTIMATE

PARKING SHED (SIZE 120' x 32')

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		(2) Type B (nominal mix 1: 1½: 3)	P.Cft	240.00	634.75	152,340
		Steel Work.				
5	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	53.74	31,940.05	1,716,458
		Sand Filling				
6	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	153.60	2,982.00	458,035
		Sub Base Course				
7	18/3/a/ (i) + 1/1	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	12.67	13,687.35	173,419

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

DETAILED COST ESTIMATE

PARKING SHED (SIZE 120' x 32')

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Water Bound Macadam				
8	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	12.67	27,419.98	347,411
		Tuff Paver				
9	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	Per Sft	3,840.00	197.40	758,016
		Crush				
10	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	1,016.62	109.79	111,612
		Parking Shed				
11	N.S	Providing, laying and fixing in position shed as per drawings, specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick fixed with rivet and bolts over Purlins of size 10ZS 2.25X0.085 (Grade 50) and truss frame of 2-1/2"X2-1/2"X1/2" Double angle with Gusset Plate 3/16" thick with approved Colour/ paint supported with Steel Hexagonal / round shaped Columns size 9" to 12" diameter having not less than 3/16" thick fitted with J-Type bolt 3/4" diameter having shown in drawings. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought prior to placing order.	Sft	3,840.00	2,000.00	7,680,000
		No of One unit cost				11,882,079
		No of two unit cost				23,764,159

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

PARKING SHED (SIZE 120' x 32')
CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	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)						
	ii) in ordinary soil.						
	Columns	10	8.50	7.50	4.58	2,919.75	Cft
					Total	2,919.75	Cft
					Total	2.92	%oCft
	Anti-Termite						
2	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge						
	Floor	1	120.00	32.00		3,840.00	Sft
	Columns	10	32.00	4.58		1,465.60	Sft
		10	8.50	7.50		637.50	Sft
					Total	5,943.10	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Columns	10	8.50	7.50	0.33	210.38	Cft
					Total	210.38	Cft
					Total	2.10	%Cft

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

**PARKING SHED (SIZE 120' x 32')
 CALCULATION OF QUANTITIES**

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Concrete Work						
4	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.):-						
	In Foundation						
	(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:-						
	Columns	10	8.00	7.00	1.25	700.00	Cft
					Total	700.00	Cft
	Above foundation						
	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	(2) Type B (nominal mix 1: 1½: 3)						
	Columns	10	1.50	2.00	8.00	240.00	Cft
					Total	240.00	Cft
	Steel Work.						
5	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):-						
	Deformed bars (Grade-60)					940.00	Cft
	Columns @ 12 lbs / Cft		12.00		=	11,280	lbs/cft
				Total	=	11,280	lbs/cft
				Total	=	5,118	Kg.
				Add 5% Wastage.	=	256	Kg.
				Total	=	5,374	Kg
					Total	53.74	%kg
	Sand Filling						

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

PARKING SHED (SIZE 120' x 32')
CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
6	Supplying and filling sand under floor; or plugging in wells.						
	Shed	1	120.00	32.00	4.00	15,360.00	Cft
					Total	15,360.00	Cft
					Total	153.60	%Cft
	Sub Base Course						
7	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	120.00	32.00	0.33	1,267.20	Cft
					Total	12.67	%Cft
	Water Bound Macadam						
8	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	120.00	32.00	0.33	1,267.20	Cft
					Total	12.67	%Cft
9	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)						
	Shed	1	120.00	32.00		3,840	Sft

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

DETAILED COST ESTIMATE

PARKING SHED (SIZE 120' x 32')

ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		<u>Scheduled Items (A)</u>				
1	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	300.00	101.60	30,480
2	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe / M.S. conduit / G.I pipe / wooden strip batten/wooden casing an capping / G.I. wire / trenches (rate for cables only). (3.029)	Rft.	650.00	27.85	18,103
3	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit / G.I pipe / wooden strip batten/wooden casing an capping / G.I. wire/trenches (rate for cables only). (7.029)	Rft.	300.00	44.05	13,215
4	C-24/14-ii	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (7"x4")	Each	2.00	409.95	820
5	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	10.00	96.95	970
		Sub Total (A)				63,587
6	N.S	Supply, installation and commissioning high bay light 100W with 120lm/w LED hanging with all accessories complete in all respects	Each	8.00	35,035.00	280,280
		Sub Total (B)				280,280
		Sub Total (A+B)				343,867
		No of One unit cost				343,867
		No of two unit cost				687,734

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

DETAILED COST ESTIMATE

PARKING SHED (SIZE 90' x 32')

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	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.	1000Cft	2.34	11,658.25	27,280
		Anti-Termite				
2	26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	Sft	4,562.48	9.90	45,169
		Plain Cement Concrete				
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	100 Cft	1.68	29,723.50	49,935
		Concrete Work				
4	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.):-				
		In Foundation				
		(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)	P.Cft	560.00	470.70	263,592

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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 90' x 32')

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Above foundation				
		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		(2) Type B (nominal mix 1: 1½: 3)	P.Cft	192.00	634.75	121,872
		Steel Work.				
5	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	42.99	31,940.05	1,373,103
		Sand Filling				
6	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	115.20	2,982.00	343,526
		Sub Base Course				
7	18/3/a/ (i) + 1/1	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	9.50	13,687.35	130,030

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DETAILED COST ESTIMATE

PARKING SHED (SIZE 90' x 32')

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Water Bound Macadam				
8	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	9.50	27,419.98	260,490
		Tuff Paver				
9	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	Per Sft	2,880.00	197.40	568,512
		Crush				
10	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	813.29	109.79	89,289
		Parking Shed				
11	N.S	Providing, laying and fixing in position shed as per drawings, specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick fixed with rivet and bolts over Purlins of size 10ZS 2.25X0.085 (Grade 50) and truss frame of 2-1/2"X2-1/2"X1/2" Double angle with Gusset Plate 3/16" thick with approved Colour/ paint supported with Steel Hexagonal / round shaped Columns size 9" to 12" diameter having not less than 3/16" thick fitted with J-Type bolt 3/4" diameter having shown in drawings. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought prior to placing order.	Sft	2,880.00	2,000.00	5,760,000
		Total Amount Rs.				9,032,799

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

**PARKING SHED (SIZE 90' x 32')
 CALCULATION OF QUANTITIES**

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	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)						
	ii) in ordinary soil.						
	Columns	8	8.50	7.50	4.58	2,335.80	Cft
					Total	2,335.80	Cft
					Total	2.34	%oCft
	Anti-Termite						
2	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge						
	Floor	1	90.00	32.00		2,880.00	Sft
	Columns	8	32.00	4.58		1,172.48	Sft
		8	8.50	7.50		510.00	Sft
					Total	4,562.48	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Columns	8	8.50	7.50	0.33	168.30	Cft
					Total	168.30	Cft
					Total	1.68	%Cft
	Concrete Work						

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

**PARKING SHED (SIZE 90' x 32')
 CALCULATION OF QUANTITIES**

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
4	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.):-						
	In Foundation						
	(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:-						
	Columns	8	8.00	7.00	1.25	560.00	Cft
					Total	560.00	Cft
	Above foundation						
	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	(2) Type B (nominal mix 1: 1½: 3)						
	Columns	8	1.50	2.00	8.00	192.00	Cft
					Total	192.00	Cft
	Steel Work.						
5	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):-						
	Deformed bars (Grade-60)					752.00	Cft
	Columns @ 12 lbs / Cft		12.00		=	9,024	lbs/cft
				Total	=	9,024	lbs/cft
				Total	=	4,094	Kg.
				Add 5% Wastage.	=	205	Kg.
				Total	=	4,299	Kg
					Total	42.99	%kg
	Sand Filling						

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

**PARKING SHED (SIZE 90' x 32')
 CALCULATION OF QUANTITIES**

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
6	Supplying and filling sand under floor; or plugging in wells.						
	Shed	1	90.00	32.00	4.00	11,520.00	Cft
					Total	11,520.00	Cft
					Total	115.20	%Cft
	Sub Base Course						
7	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	90.00	32.00	0.33	950.40	Cft
					Total	9.50	%Cft
	Water Bound Macadam						
8	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	90.00	32.00	0.33	950.40	Cft
					Total	9.50	%Cft
9	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						

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

DETAILED COST ESTIMATE

PARKING SHED (SIZE 90' x 32')

ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		<u>Scheduled Items (A)</u>				
1	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	200.00	101.60	20,320
2	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	500.00	27.85	13,925
3	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	200.00	44.05	8,810
4	C-24/14-ii	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (7"x4")	Each	2.00	409.95	820
5	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	6.00	96.95	582
		Sub Total (A)				44,457
6	N.S	Supply, installation and commissioning high bay light 100W with 120lm/w LED hanging with all accessories complete in all respects	Each	6.00	35,035.00	210,210
		Sub Total (B)				210,210
		Sub Total (A+B)				254,667

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

DETAILED COST ESTIMATE

PARKING SHED (SIZE 60' x 32')

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	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.	1000Cft	1.75	11,658.25	20,402
		Anti-Termite				
2	26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	Sft	3,181.86	9.90	31,500
		Plain Cement Concrete				
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	100 Cft	1.26	29,723.50	37,452
		Concrete Work				
4	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.):-				
		In Foundation				
		(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)	P.Cft	420.00	470.70	197,694

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

DETAILED COST ESTIMATE

PARKING SHED (SIZE 60' x 32')

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Above foundation				
		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		(2) Type B (nominal mix 1: 1½: 3)	P.Cft	144.00	634.75	91,404
		Steel Work.				
5	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	32.24	31,940.05	1,029,747
		Sand Filling				
6	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	76.80	2,982.00	229,018
		Sub Base Course				
7	18/3/a/ (i) + 1/1	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	6.34	13,687.35	86,778

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

DETAILED COST ESTIMATE

PARKING SHED (SIZE 60' x 32')

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Water Bound Macadam				
8	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	6.34	27,419.98	173,843
		Tuff Paver				
9	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	Per Sft	1,920.00	197.40	379,008
		Crush				
10	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	609.97	109.79	66,967
		Parking Shed				
11	N.S	Providing, laying and fixing in position shed as per drawings, specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick fixed with rivet and bolts over Purlins of size 10ZS 2.25X0.085 (Grade 50) and truss frame of 2-1/2"X2-1/2"X1/2" Double angle with Gusset Plate 3/16" thick with approved Colour/ paint supported with Steel Hexagonal / round shaped Columns size 9" to 12" diameter having not less than 3/16" thick fitted with J-Type bolt 3/4" diameter having shown in drawings. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought prior to placing order.	Sft	1,920.00	2,000.00	3,840,000
		Total Amount Rs.				6,183,812

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

**PARKING SHED (SIZE 60' x 32')
 CALCULATION OF QUANTITIES**

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	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)						
	ii) in ordinary soil.						
	Columns	6	8.50	7.50	4.58	1,751.85	Cft
					Total	1,751.85	Cft
					Total	1.75	%oCft
	Anti-Termite						
2	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge						
	Floor	1	60.00	32.00		1,920.00	Sft
	Columns	6	32.00	4.58		879.36	Sft
		6	8.50	7.50		382.50	Sft
					Total	3,181.86	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Columns	6	8.50	7.50	0.33	126.23	Cft
					Total	126.23	Cft
					Total	1.26	%Cft
	Concrete Work						

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

PARKING SHED (SIZE 60' x 32')
CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
4	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.):-						
	In Foundation						
	(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:-						
	Columns	6	8.00	7.00	1.25	420.00	Cft
					Total	420.00	Cft
	Above foundation						
	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	(2) Type B (nominal mix 1: 1½: 3)						
	Columns	6	1.50	2.00	8.00	144.00	Cft
					Total	144.00	Cft
	Steel Work.						
5	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):-						
	Deformed bars (Grade-60)					564.00	Cft
	Columns @ 12 lbs / Cft		12.00		=	6,768	lbs/cft
				Total	=	6,768	lbs/cft
				Total	=	3,071	Kg.
				Add 5% Wastage.	=	154	Kg.
				Total	=	3,224	Kg
					Total	32.24	%kg
	Sand Filling						

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

**PARKING SHED (SIZE 60' x 32')
 CALCULATION OF QUANTITIES**

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
6	Supplying and filling sand under floor; or plugging in wells.						
	Shed	1	60.00	32.00	4.00	7,680.00	Cft
					Total	7,680.00	Cft
					Total	76.80	%Cft
	Sub Base Course						
7	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	60.00	32.00	0.33	633.60	Cft
					Total	6.34	%Cft
	Water Bound Macadam						
8	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	60.00	32.00	0.33	633.60	Cft
					Total	6.34	%Cft
9	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						

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

PARKING SHED (SIZE 60' x 32')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Shed	1	60.00	32.00		1,920	Sft
	Parking Shed						
10	Providing, laying and fixing in position shed as per drawings, specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick fixed with rivet and bolts over Purlins of size 10ZS 2.25X0.085 (Grade 50) and truss frame of 2-1/2"X2-1/2"X1/2" Double angle with Gusset Plate 3/16" thick with approved Colour/ paint supported with Steel Hexagonal / round shaped Columns size 9" to 12" diameter having not less than 3/16" thick fitted with J-Type bolt 3/4" diameter having shown in drawings. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought prior to placing order.	1	60.00	32.00		1,920	Sft

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

DETAILED COST ESTIMATE

PARKING SHED (SIZE 60' x 32')

ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		<u>Scheduled Items (A)</u>				
1	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	150.00	101.60	15,240
2	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	400.00	27.85	11,140
3	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/ M.S. conduit /G.I pipe /wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	200.00	44.05	8,810
4	C-24/14-ii	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (7"x4")	Each	2.00	409.95	820
5	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	4.00	96.95	388
		Sub Total (A)				36,398
6	N.S	Supply, installation and commissioning high bay light 100W with 120lm/w LED hanging with all accessories complete in all respects	Each	4.00	35,035.00	140,140
		Sub Total (B)				140,140
		Sub Total (A+B)				176,538

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

DETAILED COST ESTIMATE

WASHING PIT

CIVIL WORK

Sr. No.	1 st BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Excavation				
1	3/21/a/ii	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.	1000Cft	0.96	11,658.25	11,192
		Sand Filling				
2	7/30	Supplying and filling sand under floor; or plugging in wells.	100Cft	1.12	2,982.00	3,340
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(c) Ratio 1: 1½: 3	100 Cft	0.57	44,303.50	25,253
		(f) Ratio 1: 2: 4	100 Cft	0.15	38,723.50	5,809
		(i) Ratio 1: 4: 8	100 Cft	1.12	29,723.50	33,290
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:4	100 Cft	11.04	33,293.40	367,559
		Plaster				
5	11/8/b	Cement plaster 1:3 upto 20' (6.00 m) height:- b) ½" (13 mm) thick	100 Sft	3.32	3,639.10	12,082
		Mosaic flooring				
6	10/22/a	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :-				
		(a) using grey cement	100 Sft	0.88	21,681.35	19,080

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

DETAILED COST ESTIMATE

WASHING PIT

CIVIL WORK

Sr. No.	1nd BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Mosaic dado or skirting				
7	10/37	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing:				
		(a) using grey cement:				
		ii) ½"(13 mm) thick	100 Sft	3.32	23,268.60	77,252
		Crush				
8	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	167.22	109.79	18,359
		Total Amount Rs.				573,215

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

WASHING PIT
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	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)						
	ii) in ordinary soil.						
	Washing Pit	1	35.00	9.67	2.83	958.93	Cft
					Total	0.96	%Cft
2	Supplying and filling sand under floor; or plugging in wells.	1	35.00	9.67	0.33	111.69	Cft
					Total	1.12	%Cft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(c) Ratio 1: 1½: 3	2	35.00	3.25	0.25	56.88	Cft
					Total	0.57	%Cft
	(f) Ratio 1: 2: 4	1	35.00	2.50	0.17	14.58	Cft
					Total	0.15	%Cft
	(i) Ratio 1: 4: 8						
	Washing Pit	1	35.00	9.67	0.33	111.69	Cft
					Total	1.12	%Cft
	Brick work in Foundation						
4	Pacca brick work in foundation and plinth in:-						
	Cement, sand mortar:- Ratio 1:4						
	Washing Pit						
	Step - 1	1	9.00	1.875	0.50	8.44	Cft
	Step - 2	1	9.00	1.500	0.50	6.75	Cft
	Step - 3	1	9.00	1.125	5.50	55.69	Cft
	Side walls	2	19.00	3.250	6.00	741.00	Cft
		2	15.00	3.250	3.00	292.50	Cft
					Total	1,104.38	Cft
					Total	11.04	%Cft
	Plaster						

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
5	Cement plaster 1:3 upto 20' (6.00 m) height:-						
	b) ½" (13 mm) thick						
	Wall	1	2.50		5.50	13.75	Sft
	Side Wall	2	19.00		6.00	228.00	Sft
		2	15.00		3.00	90.00	Sft
					Total	331.75	Sft
					Total	3.32	%Sft
	Mosaic flooring						
6	1½"(40 mm) thick mosaic flooring, consisting of ½"(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :-						
	(a) using grey cement	1	35.00	2.50		87.50	Sft
					Total	0.88	%Sft
	Mosaic dado or skirting						
7	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing:						
		1	2.50		5.50	13.75	Sft
		2	19.00		6.00	228.00	Sft
		2	15.00		3.00	90.00	Sft
					Total	331.75	Sft
					Total	3.32	%Sft

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

DETAILED COST ESTIMATE

GENERATOR PAD

CIVIL WORK

Sr. No.	1 st BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Excavation				
1	3/21/a/ii	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.	1000Cft	0.08	11,658.25	933
		Plain Cement Concrete				
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	100 Cft	0.17	29,723.50	5,053
		Concrete Work				
3	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.):-				
		In Foundation				
		(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)	P.Cft	80.00	470.70	37,656
		Steel Work.				
4	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	3.05	31,940.05	97,417

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

DETAILED COST ESTIMATE

GENERATOR PAD

CIVIL WORK

Sr. No.	1nd BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Thermopore Sheet				
5	6/35	Providing and fixing thermopore (foamed polythene) sheet in horizontal and vertical expansion joints:				
		a) 1" (25 mm) thick thermopore sheet	Sft	34.58	21.15	731
		Heavy Steel Work				
6	25/10	Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, tanks, etc., including cutting, drilling, rebitting, handling, assembling and fixing, but excluding erection in position.	100Kg	0.45	33,389.40	15,078
7	25/11	Erection and fitting in position iron trusses, staging of water tanks, etc.	100Kg	0.45	1,414.70	639
		Crush				
8	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	86.51	109.79	9,498
		Total Amount Rs.				167,005

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

GENERATOR PAD

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	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)						
	ii) in ordinary soil.						
	Generator Pad	1	8.84	5.84	1.50	77.44	Cft
					Total	77.44	Cft
					Total	0.08	%oCft
	Plain Cement Concrete						
2	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Generator Pad	1	8.84	5.84	0.33	17.04	Cft
					Total	17.04	Cft
					Total	0.17	%Cft
	Concrete Work						
3	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.):-						
	In Foundation						
	(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:-						
		1	8.00	5.00	2.00	80.00	Cft
					Total	80.00	Cft

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

DETAILED COST ESTIMATE

PUMP PAD

CIVIL WORK

Sr. No.	1 st BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Excavation				
1	3/21/a/ii	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.	1000Cft	0.01	11,658.25	117
		Plain Cement Concrete				
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	100 Cft	0.03	29,723.50	892
		Concrete Work				
3	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.):-				
		In Foundation				
		(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)	P.Cft	8.00	470.70	3,766
		Steel Work.				
4	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	0.30	31,940.05	9,582

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DETAILED COST ESTIMATE

PUMP PAD

CIVIL WORK

Sr. No.	1st BI-Annual- 2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Crush				
5	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	9.88	109.79	1,085
		Total Amount Rs.				15,441

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PUMP PAD

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	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)						
	ii) in ordinary soil.						
	Pump Pad	1	2.50	2.50	1.00	6.25	Cft
						Total	0.01 %oCft
	Plain Cement Concrete						
2	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Pump Pad	1	2.50	2.50	0.50	3.13	Cft
						Total	3.13 Cft
						Total	0.03 %Cft
	Concrete Work						
3	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.):-						
	In Foundation						
	(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:-						
		1	2.00	2.00	2.00	8.00	Cft
						Total	8.00 Cft

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DETAILED COST ESTIMATE

SEPTIC TANK

CIVIL WORK

Sr. No.	1 st BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Excavation				
1	3/21/a/ii	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.	1000Cft	0.71	11,658.25	8,277
		Plain Cement Concrete				
2	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(f) Ratio 1: 2: 4	100 Cft	0.34	38,723.50	13,166
		(i) Ratio 1: 4: 8	100 Cft	0.55	29,723.50	16,348
		Brick work				
3	7/7/i	Pacca brick work other than building upto 10ft. (3 m)				
		Ratio 1:3	100 Cft	4.21	35,897.90	151,130
		Concrete Work				
4	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) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	50.63	580.05	29,365

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DETAILED COST ESTIMATE

SEPTIC TANK

CIVIL WORK

Sr. No.	1nd BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Steel Work.				
5	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	1.27	31,940.05	40,424
		Cement Pointing				
6	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-				
		a) ratio 1:2	100Sft	5.19	3,776.40	19,600
		RCC Manhole Cover				
7	21/15/A	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	Each	2.00	12,474.55	24,949
		Angle Iron Step				
8	21/13	Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	Each	14.00	610.65	8,549
		Crush				
9	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	126.59	109.79	13,898
		Total Amount Rs.				325,707

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SEPTIC TANK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	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)						
	ii) in ordinary soil.						
	Septic tank	1	13.50	7.50	7.00	708.75	Cft
					Total	708.75	Cft
					Total	0.71	%oCft
	Plain Cement Concrete						
2	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(f) Ratio 1: 2: 4	3	3.75	6.00	0.50	33.75	Cft
					Total	33.75	Cft
					Total	0.34	%Cft
	(i) Ratio 1: 4: 8						
	Septic tank	3	3.75	6.00	0.33	22.50	Cft
	Outer Wall	1	39.00	2.00	0.33	26.00	Cft
	Baffle wall	2	6.00	1.50	0.33	6.00	Cft
					Total	54.50	Cft
					Total	0.55	%Cft
	Brick work						
3	Pacca brick work other than building upto 10ft. (3 m)						
	Ratio 1:3						
	Outer wall	1	39.00	1.88	0.50	36.56	Cft
		1	39.00	1.50	0.50	29.25	Cft
		1	39.00	1.13	0.50	21.94	Cft
		1	39.00	0.75	9.00	263.25	Cft
	Baffle wall	2	6.00	1.13	0.50	6.75	Cft
		2	6.00	0.75	7.00	63.00	Cft
					Total	420.75	Cft
					Total	4.21	%Cft

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Concrete Work							
4	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) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	Type C (nominal mix 1: 2: 4)	1	13.50	7.50	0.50	50.63	Cft
Steel Work.							
5	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):-						
	Deformed bars (Grade-60)		2.50 kg/cft			126.56	Kg
					Total	1.27	%Kg
Cement Pointing							
6	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-						
	a) ratio 1:2	1	39.00		9.00	351.00	Sft
		4	6.00		7.00	168.00	Sft
					Total	519.00	Sft
					Total	5.19	%Sft
RCC Manhole Cover							
7	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	2				2.00	Nos.
Angle Iron Step							
8	Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	14				14.00	Nos.

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DETAILED COST ESTIMATE

SOAKAGE WELL

CIVIL WORK

Sr. No.	1 st BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Excavation				
1	22/1	Excavation of well in dry upto 20'(6 metre) below ground level, and disposal of soil within one chain (30 metre)				
		a) in ordinary soil or sand :-				
		i) from 0' to 5' (0 to 1.5 m) depth	1000Cft	0.17	8,238.40	1,367
		ii) from 5.1' to 10' (1.5 to 3.0 metre) depth	1000Cft	0.17	8,604.30	1,428
		iii) from 10.1' to 15' (3.0 to 4.5 metre) depth	1000Cft	0.17	9,679.80	1,606
		iv) from 15.1' to 20' (4.5 metre to 6.0 metre) depth	1000Cft	0.17	11,110.20	1,844
		Brick work				
2	7/7/i	Pacca brick work other than building upto 10ft. (3 m) Ratio 1:3				
		0 to 10 Height / depth	100 Cft	1.35	35,897.90	48,462
		10 to 20 Height / depth	100 Cft	1.15	37,376.30	42,983
3	7/10	Extra for pacca brick work in steining of wells or any other circular masonry.	100 Cft	2.50	3,028.80	7,572
		Concrete Work				
4	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) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	43.35	580.05	25,145

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DETAILED COST ESTIMATE

SOAKAGE WELL

CIVIL WORK

Sr. No.	1 st BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Steel Work.				
5	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	1.08	31,940.05	34,615
		Cement Pointing				
6	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-				
		a) ratio 1:2	100Sft	3.34	3,776.40	12,613
		RCC Manhole Cover				
7	21/16	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	Each	2.00	16,068.40	32,137
		Brick Ballast				
8	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	Each	0.17	9,900.00	1,683
		Crush				
9	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	38.15	109.79	4,188
		Total Amount Rs.				215,643

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SOAKAGE WELL

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Excavation						
1	Excavation of well in dry upto 20'(6 metre) below ground level, and disposal of soil within one chain (30 metre)						
	i) from 0' to 5' (o to 1.5 m) depth	1	33.19	1.00	5.00	0.17	Cft
	ii) from 5.1' to 10' (1.5 to 3.0 metre) depth	1	33.19	1.00	5.00	0.17	Cft
	iii) from 10.1' to 15' (3.0 to 4.5 metre) depth	1	33.19	1.00	5.00	0.17	Cft
	iv) from 15.1' to 20' (4.5 metre to 6.0 metre) depth	1	33.19	1.00	5.00	0.17	Cft
	Brick work						
2	Pacca brick work other than building upto 10ft. (3 m) Ratio 1:3						
	0 to 10 Height / depth						
	Outer wall	1	18.07	0.75	10.00	135.50	Cft
					Total	135.50	Cft
					Total	1.35	%Cft
	10 to 20 Height / depth						
	Outer wall	1	18.07	0.75	8.50	115.17	Cft
					Total	115.17	Cft
					Total	1.15	%Cft
	Concrete Work						
3	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) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	Type C (nominal mix 1: 2: 4)						
	Top Slab	1	33.19	1.00	0.50	16.59	Cft
	Mid Slab	1	33.19	1.00	0.50	16.59	Cft
	Bottom Beam	1	18.07	0.75	0.75	10.16	Cft
					Total	43.35	Cft
	Steel Work.						

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DETAILED COST ESTIMATE

EXTERNAL WORK

CIVIL WORK

Sr. No.	1 st BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		BOUNDARY WALL				
		Excavation				
1	3/21/a/ii	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.	1000Cft	7.12	11,658.25	83,007
		Anti-Termite				
2	26/43	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	Sft	8,086.00	9.90	80,051
		Plain Cement Concrete				
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	100 Cft	9.39	29,723.50	279,104
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	96.12	32,358.60	3,110,309
		Horizontal D.P.C				
5	6/36	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-				
		(a) with one coat bitumen and one coat polythene sheet 500gauge				
		i) 1½" thick (40 mm)	100 Sft	7.50	9,272.70	69,545

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DETAILED COST ESTIMATE

EXTERNAL WORK

CIVIL WORK

Sr. No.	1 st BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Vertical D.P.C				
6	6/38	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-				
		(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:				
		ii) Ratio 1:3 ¾ " thick (20 mm)	100 Sft	10.00	6,932.65	69,327
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:-				
		i) Cement, sand mortar:- Ratio 1:5	100 Cft	64.01	34,761.00	2,225,052
		Concrete Work				
8	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.):-				
		In Foundation				
		(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)	P.Cft	73.50	470.70	34,596
		Above foundation				
		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	123.47	556.05	68,655
		Steel Work.				
9	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	11.26	31,940.05	359,645

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DETAILED COST ESTIMATE

EXTERNAL WORK

CIVIL WORK

Sr. No.	1 st BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Cement Plaster				
10	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	82.52	4,650.85	383,788
		Pointing				
11	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2	100 Sft	82.52	3,776.40	311,629
12	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	82.52	822.00	67,831
		Distempering				
13	11/23	Distempering:- iii) three coats	100 Sft	80.00	1,446.35	115,708
		Main Gate				
14	25/30	Making and fixing steel grated doors, complete with locking arrangement, angle iron frame 2"x2"x3/8" (50x50x10 mm) and 3/4" (20 mm) square bars 4" (100 mm) centre to centre.	Sft	240.00	1,998.60	479,664
		Painting new surface:-				
15	13/5/d	d) Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:-				
		i) priming coat.	100 Sft	4.80	927.05	4,450
		ii) each subsequent coat of paint.	100 Sft	4.80	572.20	2,747
		Razor Wire				
16	26/46	Providing and fixing anti climb high security galvanized razor cut wire having double sharp four U-shaped pointed 0.5 mm thick (22mmx15 mm barbs) spaced @ 33 mm c/c clad over 2.5 mm dia high tensile Core wire making coil fencing of specified diameter @ 4" c/c fixed on 2'-3" high M/S angle iron post 1½"x1½"x3/16" embeded in base of PCC (1:2:4) (4"x4"x9") @ 4' apart i/c the cost of 2 No. bars 3/8" dia welded horizontally with angle iron posts , binding wire, painting of posts, etc. complete in all respects as approved and directed by the Engineer incharge.				
		(ii) 18 " diameter	Rft	1,000.00	526.30	526,300
		Crush				

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DETAILED COST ESTIMATE

EXTERNAL WORK

CIVIL WORK

Sr. No.	1 st BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
17	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	1,063.22	109.79	116,729
Total Rs. "A"						8,388,135
Tuff Paver						
Jungle Clearance						
18	3/47	Jungle clearance and removing within 100 ft. (30 m).				
		b) thick	100Sft	70.73	554.40	39,213
Borrow Earth						
19	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	172.64	17,627.60	3,043,229
Sub Base Course						
20	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. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	132.53	13,687.35	1,813,984
Water Bound Macadam						

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EXTERNAL WORK

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
21	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	132.53	27,419.98	3,633,969
		Tuff Paver				
22	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	Per Sft	40,160	197.40	7,927,584
23	3/32	Turfing slopes of banks or lawns with grass sods including ploughing, laying, setting and watering (Turf got from within a distance of 5 miles (8 Km.) and maintenance for 15 days).	100 Sft	65.00	1,848.00	120,120
		Wire Fencing				
24	26/3	Providing and fixing barbed wire fencing, with 4 horizontal and 2 number cross wires fixed with posts of R.C.C., 1:2:4 (straining posts 7'x9"x9" (2.13m x225 x 225mm) at 100' (30 m) centre to centre, stiffening posts 7'x6"x6" (2.13m x150x150 mm) at 50 ft. (15 m) interval and intermediate post 7'x5"x5" (2.13 mx125x125 mm) at 8 ft.(2.4 m) centre to centre), including cost of steel, its fabrication and placing of steel reinforcement, eye bolts, washers, etc. complete.	100Lft	3.25	56,692.00	184,249
		Total Rs. "B"				16,762,348
		Total Rs. "A+B"				25,150,483

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EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	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)						
	ii) in ordinary soil.						
	Boundary wall	1	1,000	2.75	2.50	6,875.00	Cft
	Columns	6	4.00	4.00	2.50	240.00	Cft
					Total	7,115.00	Cft
					Total	7.12	%oCft
	Anti-Termite						
2	Spraying anti termite proofing by using liquid FMC Biflex 2.5%EC Mixing Ratio 1:50=137-Sft or using liquid MIRAGE Ali Akbar /RANGERS Auriga 5% SC Mixing Ability-HEXTAR Ratio 1:110=205-Sft or any other equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge						
	Boundary wall	1	1,000	7.75		7,750.00	Sft
	Columns	6	16.00	2.50		240.00	Sft
		6	4.00	4.00		96.00	Sft
					Total	8,086.00	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Boundary wall	1	1,000	2.75	0.33	907.50	Cft
	Columns	6	4.00	4.00	0.33	31.68	Cft
					Total	939.18	Cft
					Total	9.39	%Cft
	Brick work in Foundation						
4	Pacca brick work in foundation and plinth in:-						
	Cement, sand mortar:- Ratio 1:5						

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EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Boundary wall						
	Step - 1	1	1,000	2.250	0.50	1,125.00	Cft
	Step - 2	1	1,000	1.875	0.50	937.50	Cft
	Step - 3	1	1,000	1.500	4.42	6,630.00	Cft
	Step - 4	1	1,000	1.125	0.75	843.75	Cft
	Columns						
	Gate Columns	6	6.50	0.38	5.17	75.61	Cft
						Total	9,611.86 Cft
						Total	96.12 %Cft
	Horizontal D.P.C						
5	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-						
	(a) with one coat bitumen and one coat polythene sheet 500gauge						
	i) 1½" thick (40 mm)						
	Boundary wall	1	1,000	0.75		750.00	Sft
						Total	750.00 Sft
						Total	7.50 %Sft
	Vertical D.P.C						
6	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-						
	(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:						
	ii) Ratio 1:3 ¾ " thick (20 mm)						
	Boundary wall	1	1,000		1.00	1,000.00	Sft
						Total	1,000.00 Sft
						Total	10.00 %Sft
	Brick work in Super Structure						
7	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5						
	Boundary wall	1	905.50	0.75	8.00	5,433.00	Cft
	Columns	84	1.13	1.13	8.00	850.50	Cft
	Gate Columns	6	6.50	0.38	8.00	117.00	Cft
						Total	6,400.50 Cft
						Total	64.01 %Cft
	Concrete Work						

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EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Cement Plaster							
10	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick						
	Boundary wall	1	905.50		8.00	7,244.00	Sft
	Columns	84	1.50		8.00	1,008.00	Sft
					Total	8,252.00	Sft
					Total	82.52	%Sft
Pointing							
11	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2						
	Outer Walls	1	905.50		8.00	7,244.00	Sft
	Columns	84	1.50		8.00	1,008.00	Sft
					Total	8,252.00	Sft
					Total	82.52	%Sft
12	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
					Total	82.52	%Sft
Distempering							
13	Distempering:- iii) three coats						
	Boundary wall	1	1,000		8.00	8,000.00	Sft
					Total	8,000.00	Sft
					Total	80.00	%Sft
Main Gate							
14	Making and fixing steel grated doors, complete with locking arrangement, angle iron frame 2"x2"x3/8" (50x50x10 mm) and 3/4" (20 mm) square bars 4" (100 mm) centre to centre.	2	20.00		6.00	240.00	Sft
Painting new surface:-							
15	d) Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:-						
	i) priming coat.					4.80	%Sft
	ii) each subsequent coat of paint.					4.80	%Sft

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EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Sub Base Course							
19	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. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Parking Area	1	31,160	1.00	0.33	10,282.80	Cft
	Approach Road	1	300	30.00	0.33	2,970.00	Cft
					Total	132.53	%Cft
Water Bound Macadam							
20	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)						
	Parking Area	1	31,160	1.00	0.33	10,282.80	Cft
	Approach Road	1	300	30.00	0.33	2,970.00	Cft
					Total	132.53	%Cft
Tuff Paver							
21	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	1	31,160	1.00		31,160	Sft
		1	300	30.00		9,000	Sft
					Total	40,160	Sft

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DETAILED COST ESTIMATE

EXTERNAL WORKS

PLUMBING WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Excavation				
1	3/44	Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	1000Cft	4.28	8,321.30	35,574
		PPRC Pipe				
2	23-47	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/ Popular /Beta/ BBJ)with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directedby Engineer Incharge.(Internal / External Diameters mentioned).				
		b) PN-20 pipe				
		(iii) (1") 32 mm	Rft	275.00	107.65	29,604
		(v)(1-1/2") 50 mm	Rft	175.00	250.00	43,750
		(vi)(2") 63 mm	Rft	100.00	378.65	37,865
		Valve				
3	23/46	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified dia meter made of Faisal/ Sonex/ Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
		iii) 1" dia	Each	2.00	1,809.60	3,619
		v) 1-1/2" dia	Each	2.00	2,289.60	4,579
		vi) 2" dia	Each	2.00	2,709.60	5,419
		uPVC Pipe				
4	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)				

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DETAILED COST ESTIMATE

EXTERNAL WORKS

PLUMBING WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		(vi) 6"(160 mm)	Rft	400.00	422.55	169,020
5	N.S	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	Each	7.00	19,199.71	134,398
		Ejector Pump				
6	23/45/ii	P/F Ejector Pump of specified Suction and Delivery heads, coupled with Single Phase Seimen Electric Motor of required rating for water supply i/c the cost of connection charges, necessary wire, PVC pipes etc complete in all respect as approved and directed by the Engineer Incharge.				
		ii) G-IV (2-1/2"x2") with 2.5 HP Electric Motor, 38-Mtr Suction and 38 M delivery head	Each	1.00	19,360.20	19,360
		Boring				
7	23/1	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft. (30 m) depth, including sinking and withdrawing of casing pipe, complete:-				
		c) 5" (125 mm) i/d	Rft	100.00	646.70	64,670
8	23/2	Boring for tubewell in all types of soil except shingle, gravel & rock, from a depth of 100.1 ft. to 200 ft. (30 to 60 m) below ground level, including sinking and withdrawing of casing pipe, complete:-				
		a) 5" (125 mm) i/d	Rft	100.00	1,083.25	108,325
9	23/16	Providing and installing P.V.C. blind pipe, B.S.S. Class `B', in tubewell bore hole, including sockets and solvents and jointing with strainer, etc. complete.				
		b) 4" i/d (100 mm)	Rft	50.00	451.30	22,565
10	23/17	Providing and installing P.V.C. blind pipe, B.S.S. Class `D', in tubewell bore hole, including sockets and solvents and jointing with strainer, etc. complete.				
		b) 1½" i/d (40 mm)	Rft	200.00	152.95	30,590
		c) 2" i/d (50 mm)	Rft	70.00	221.20	15,484

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EXTERNAL WORKS

PLUMBING WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
11	23/11	Providing and installing, P.V.C. strainer B.S.S. Class 'B', in tubewell bore hole, including sockets and solvents, etc. complete:- a) 3" i/d (75 mm)	Rft	30.00	187.95	5,639
12	23/14	Providing and installing P.V.C. Bail/End plug, in tubewell bore hole:- a) B.S.S. Class `B' i) 3" i/d (75 mm)	Rft	1.00	92.45	92
		Booster Pump				
13	N.S	Providing, installing, Fixing and commisioning of reciprocating pump with a capacity of 30 USGPM against a total head of 90 ft Cast Iron, Cylinder & Piston Rod in S.S., Crank Shaft in super finish S.G. Iron, Gland Nut in Brass and abrasion proof silently working Valves fitted on easily Feat accessible S.S., ABS or Cast Iron Valve Plate with Brass Seats, All Gaskets are in Rubber and Rocker Rail in Galvanized Mild Steel with Insulation Bushes complete system installed upto satisfaction of engineer in charge, complete in all respects	Each	1.00	20,000	20,000
Total Rs						750,553

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EXTERNAL WORKS

PLUMBING WORKS

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
	Excavation						
1	Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.						
	Water supply Pipe+Drainage pipe	1	950.00	1.50	3.00	4,275.00	Cft
					Total	4.28	%oCft
	PPRC Pipe						
2	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/ Popular /Beta/ BBJ)with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directedby Engineer Incharge.(Internal / External Diameters mentioned).						
	b) PN-20 pipe						
	(iii) (1") 32 mm	1	275.00			275.00	Rft
	(v)(1-1/2") 50 mm	1	175.00			175.00	Rft
	(vi)(2") 63 mm	1	100.00			100.00	Rft
	Valve						
3	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified dia meter made of Faisal/ Sonex/ Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.						
	iii) 1" dia	2				2.00	Nos.
	v) 1-1/2" dia	2				2.00	Nos.
	vi) 2" dia	2				2.00	Nos.
	uPVC Pipe						
4	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)						
	(vi) 6"(160 mm)	1	400.00			400.00	Rft

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EXTERNAL WORKS

PLUMBING WORKS

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
5	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	7				7.00	Nos.

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EXTERNAL ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		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	5.21	11,658.25	60,786
		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	264.00	470.70	124,265
		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	6.60	31,940.05	210,804
4	24/13b.iii	Supply and erection of 3 core PVC insulated copper conductor cables, in prelaidd PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	500.00	126.30	63,150

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EXTERNAL ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
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	1,650.00	177.75	293,288
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	800.00	119.20	95,360
		iv) 16 mm sq (7/0.064")	Rft	100.00	208.35	20,835
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):-				
		a) PVC insulated, PVC sheathed twin core, 250/440 volts.				
		v) 7/1.12 mm (7/0.044")	Rft	1,150.00	173.45	199,468
		vi) 7/1.63 mm (7/0.064")	Rft	50.00	331.30	16,565
		b) PVC insulated, PVC sheathed 3 core 660/1100 volt non armoured cable:-				
		v) 7/1.12 mm (7/0.044")	Rft	200.00	267.15	53,430
		c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-				
		v) 6 mm (7/0.044")	Rft	265.00	344.40	91,266
		vii) 16 mm (7/0.064")	Rft	100.00	694.80	69,480
		viii) 25 mm (19/0.052")	Rft	165.00	1,301.65	214,772
8	24/68	Supplying, installation testing and commissioning of Octagonal shape electric street light pole, made of hot dipped 4.5 mm thick (7 SWG) galvanized steel ,tapered from 225 mm at bottom to 100 mm at top,with 1500 mmx60 mm dia. arm for luminaire installation, duly G.I.welded with 470x470x20 mm base plate with the help of 4 no triangular stiffeners 100x350x20 mm of GI sheet,with built in junction box with shutter,i/c the cost of nuts & J-rag bolts, duly fixed in prelaid concrete foundation, foundation will be paid additionally as approved and directed by the Engineer Incharge.				
		a) Single Arm				
		(i) 10 mtr height	Each	8.00	116,323.35	930,587
		b) Double Arm				
		(i) 10 mtr height	Each	3.00	120,139.35	360,418

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**DETAILED COST ESTIMATE
 EXTERNAL ELECTRICAL WORKS**

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
9	24/69/c	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	Each	14.00	52,598.60	736,380
10	24/77	Supply and erection of electric energy meter, including meter testing fee, etc.				
		b) three phase, 4 wires:				
		iii) 3x80 Amp, 400 volts	Each	1.00	15,987.30	15,987
11	24/86	Suppling, Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaidd DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
		a) Single Pole				
		(ii) 6-40 Amp (6 KA)				
		DB-Shed 1, Store&W.S	Each	9.00	1,184.45	10,660
		DB-Shed 2 to 5 & Sitting Area	Each	12.00	1,184.45	14,213
		DB-Office/Guard Room	Each	9.00	1,184.45	10,660
		DB-Tyre Shop	Each	3.00	1,184.45	3,553
		b) Double Pole				
		(ii) 6-40 Amp (6 KA)	Each			
		DB-Shed 1, Store&W.S	Each	1.00	3,614.45	3,614
		DB-Shed 2 to 5 & Sitting Area	Each	1.00	3,614.45	3,614
		DB-Office/Guard Room	Each	1.00	3,614.45	3,614
		DB-Tyre Shop	Each	1.00	3,614.45	3,614
		LCP Ext	Each	4.00	3,614.45	14,458
		MPB	Each	1.00	3,614.45	3,614
		c) Triple Pole				
		(iii) 6-63 Amp (10 KA)	Each			
		MPB & All DBs	Each	12.00	9,036.95	108,443

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**DETAILED COST ESTIMATE
EXTERNAL ELECTRICAL WORKS**

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
12	24/88	Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/ABB SWITZERL(with adjustable Thermal-Magnetic Trip) in prelaid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge				
		a) Tripple Pole With Adjustable Thermal-Magnetic Trip /Electronic Trip (60-100%)				
		(i) 25-100 Amp(25 KA)				
		MPB	Each	1.00	28,956.95	28,957
13	24/90	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).				
		(a) 6" deep				
		(i) 20~60A (18"x24"x6")				
		DB-Shed 1, Store&W.S	Cft	1.50	2,233.00	3,350
		DB-Shed 2 to 5 & Sitting Area	Cft	1.50	2,233.00	3,350
		DB-Office/Guard Room	Cft	1.50	2,233.00	3,350
		DB-Tyre Shop	Cft	1.50	2,233.00	3,350
		LCP Ext	Cft	1.50	2,233.00	3,350
14	24/91	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights,thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).				
		i) LT Switchboards MPB				
		a) 2.50 Ft deep				
		(i)300~600A (3.0x6'x2.5')	Cft	45.00	3,489.45	157,025

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DETAILED COST ESTIMATE

EXTERNAL ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
15	24/92	P/F floor mounted ATS (Auto Transfer Switch) panel board , fabricarted with 14S WG M.S sheet (Indoor Type) duly painted with 100 microns powder coated paint in approved colour , front access ,extendable,insulation class of 600 volts IP-44, incoming & outgoing connections from bottom with flexible copper cable suitable for 415 VAC, 3-phase 4 wire, 50 HZ TPN&E system having rated service, short circuit breaking capacity at 400VAC conforming to IEC-947-2 to accomodate given no of circuit components, instruments & accessories,assembled & wired with Electrolitic Copper bus bars at 50 deg and cables duly cleaned down to bare shining metal phosphate, manual change Over i/c the cost of Lock, Indication lights,thimbles, Copper Comb, Wiring, Netural & Earth Bar,CTs,Contactors,Relays, Door Earthing, Brass glands complete in all respects as approved and directed by the Engineer Incharge. (Breakers wil be paid additionally)				
		a) 1.00 Ft deep				
		(i) 15-40 KVA	Each	1.00	843,621.70	843,622
16	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) 50 KVA	Each	1.00	581,485.15	581,485
17	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	6.00	10,199.15	61,195
18	24/72	Bonding to earth with wire on surface, including cost of wire, clamps, thimbles, etc.				

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DETAILED COST ESTIMATE

EXTERNAL ELECTRICAL WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		a) G.I. wire:				
		i) 8 SWG	Per Rft	100.00	25.20	2,520
		Crush				
19	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	232.32	109.79	25,506
Sub Total Scheduled Items: (A)						5,453,959
Non Schedule Part-B						
20		Supply at site brand new 30KVA Prime Power Diesel Generator with fuel tank for 8 hour operation and Sound and Weather Proof canopy installed and commission at site on RCC PAD as per Manufacturer specifications to bear the Load of 35KVA DGSet complete in all respect, Loding and unloading on site to install on PAD and Control wires from ATS panel to DG Set for smooth operation including all necessary accessories required to complete this job as per enigneer incharge instructions.	Set	1.00	4,120,260	4,120,260
21	N.S.	Supply, installation, testing, and comissioning of following equipment to be installed in already made DB Box for motor including cost of all necessary accessories i.e: contactors, relay, indication lights, with ON/OFF push button complete in all respects.				
		i) Direct of Line (DOL) Starter for 3kW Motor	Set	1.00	56,200	56,200
		ii) Automatic Star Delta Starter ASDS for 7.5kW Motor	Set	1.00	74,220	74,220
Total Cost (Part B)					Rs.	4,250,680
Grand Total (Part A + Part B)					Rs.	9,704,639

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DETAILED COST ESTIMATE

TUBE WELL

Installation of Tubewell (0.25 Cusec)

Sr. No	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
1	23/5	Direct Rotary/Reverse Rotary drilling of bore for tubewells, in all types of soil except shingle, gravel and rock:- a) from ground level to 200 ft. (60 m) below ground level:- i) 15" to 18" (375 to 450 mm) i/d	P.Rft	200.00	755.35	151,070
		b) exceeding 200 ft. (60 m) depth below ground level:- i) 15" to 18" (375 to 450 mm) i/d	P.Rft	100.00	755.35	75,535
2	23/7	Providing strong substantially built box of deodar wood 4'x2½'x9" (1200x750x225 mm), with compartments, lock and locking arrangement, for preserving samples of strata from bore hole.	Job	1.00	37,257.95	37,258
3	23/8	Furnishing sample of water from borehole each set of 2 bottles.	Per Set of Two bottles	2.00	188.40	377
4	6/5-f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (f) Ratio 1: 2: 4	100Cft	0.18	38,723.50	6,970
		Housing Pipe				
5	23/15-i	Providing and Installing MS blind pipe (Housing) socket/welded joints, including MS Reducer in tubewell borehole, including jointing/welding with strainer etc. complete in all respect. i) 10" i/d, ¼" (250 mm i/d 6 mm) thick	Per Rft	150.00	4,041.60	606,240
		Blind Pipe				
6	23/15	Providing and Installing MS blind pipe (Housing) socket/welded joints, including MS Reducer in tubewell borehole, including jointing/welding with strainer etc. complete in all respect. e) 6" i/d, 3/16" (150 mm i/d 5 mm) thick	Per Rft	100.00	2,432.80	243,280
		Strainer				
7	23/13	Providing and installing Fiberglass reinforced Polypropelene (FRP) strainer of specifid wall thickness having slot size of 0.9mm to1.00mm in Tubewell bore hole i/c the cost of male/ female coupling with Nylone Strip, studs complete in all respect as approved and directed by the Engineer Incharge. iv) 6" inch dia	Per Rft	50.00	1,858.30	92,915
		Bail Plug				
8	23/10	Providing and installing M.S. Bail plug in tubewell bore hole: e) 6" i/d, 2 ft. (150 mm i/d 600 mm) long.	Each	1.00	4,104.35	4,104

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DETAILED COST ESTIMATE

TUBE WELL

Installation of Tubewell (0.25 Cusec)

Sr. No	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Pea Gravel				
9	23/19	Shrouding with graded pea gravel 3/8" to 1/8" around tubewell in borehole	Per Cft	368.00	160.55	59,082
10	23/18 i	Development and Testing (D&T) at 150 % of the rated capacity of tubewell for a minimum period of 72 hours. D&T will include pumping, disposal and backwashing as approved by the Engineer.	Per hour	72.00	2,383.95	171,644
11	23/16 a	Providing and installing PVC gravel makeup pipe 3" dia class 'B' in tube well bore hole for gravel feeding including sockets, solvents and jointing etc complete in all respect.	Per Rft	40.00	314.45	12,578
		Sluice Valve				
12	23/52	Providing and fixing heavy duty Gate valve of specified diameter and material for pressure rating PN-16 mde of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge.				
		(b) Flange Ended Ductile Iron Valve				
		(ix) 4" dia	Each	1.00	45,252.00	45,252
		Air Valve				
13	23/34b	Providing and fixing, air valve 2½ (65mm) dia of B.S.S.quality and weight (complete with jointing material). Double	Each	1.00	12,467.60	12,468
		Non Return Valve				
14	23/54	Providing and fixing heavy duty Check valve of specified diameter and material for pressure rating PN-16 made of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge				
		(b) Flange Ended Ductile Iron Valve				
		(ix) 4" dia	Each	1.00	30,158.40	30,158
		M.S Plate				
15	25/10	Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, tanks, etc., including cutting, drilling, revitting, handling, assembling and fixing, but excluding erection in position.	100Kg	0.21	33,389.40	6,959
16	25/11	Erection and fitting in position iron trusses, staging of water tanks, etc.	100Kg	0.21	1,414.70	295
					Total. A	1,556,186
		NON SCHEDULE ITEMS				

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DETAILED COST ESTIMATE

TUBE WELL

Installation of Tubewell (0.25 Cusec)

Sr. No	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
17	NS	Grouting of top 100 ft of annular space between bore and pump housing casing with 1:1 cement sand mortar complete in all respect as per drawings and specifications (Sanitary seal)	Per Rft	100.00	500.00	50,000
18	NS	Taking samples and preserving of starta from borehole, from each strata change or as directed by Engineer including submission of starta charts along with results of strata analysis.	Each	10.00	1,000.00	10,000
PUMP & MOTOR						
19	NS	Providing, installing, testing and lowering submersible pump of 0.25 cusecs capacity against a pumping head of 200 ft. including lowering of bowl assembly about 150 ft. column pipe/setting alongwith flow meter, pressure guage, CI. Bends tail pieces etc. upto duck foot bend, motor control unit and earthing, testing complete in all respects as per specifications, drawings and as approved by the Engineer incharge.	Each	1.00	1,800,000	1,800,000
					Total. B	1,860,000
Total Amount Rs.					Total A+B	3,416,186

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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	10.00	700.00	7,000
2	Safety Gum Shoes	Nos	15.00	1,350.00	20,250
3	Hand Gloves	Nos	15.00	245.00	3,675
4	First Aid Box (Including essential Medicine)	Nos	1.00	5,000.00	5,000
5	Safety Hard Helmets MSA	Nos	15.00	2,000.00	30,000
6	Safety Goggles	Nos	15.00	550.00	8,250
7	Reflective Safety Vests	Nos	15.00	550.00	8,250
				Sub Total	82,425
	Working Site Safety				
1	Reflective Safety Signs Boards	Nos	2.00	10,000.00	20,000
2	Reflective Safety Barricading Tape	Nos	2.00	1,500.00	3,000
3	Fire Extinguishers DCP	Nos	1.00	7,000.00	7,000
				Sub Total	30,000
	Total Amount (Rs)				112,425

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Rate Analysis Road - 3

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.

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Lead (Km)	Rate (Rs)	Amount (Rs.)
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	305.40	305.40
		2nd KM	100 Cft	1	145.65	145.65
		3rd KM	100 Cft	1	114.10	114.10
		4th KM	100 Cft	1	81.20	81.20
		5th KM	100 Cft	1	75.85	75.85
		6th KM	100 Cft	1	74.60	74.60
		7th KM	100 Cft	1	69.60	69.60
		8th KM	100 Cft	1	68.85	68.85
		9th KM	100 Cft	1	64.75	64.75
		10th KM	100 Cft	1	60.75	60.75
		From 11 km to 200 km	100 Cft	190.00	52.20	9,918.00
		Total.				10,978.75
		Total Amount per 100 Cft				10,978.75
		Total cast for Per Cft				109.79

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EARTH WORK LEAD CHART

Rate Analysis Road- 1

Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	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:-	1	1000Cft	1	9,963.35	9,963.35
		i) 95% to 100% maximum modified AASHO dry density.					
2	3/17a.b.c	Carriage					
		upto ¼ mile (400 m).	1	1000 Cft	1	4,472.30	4,472.30
		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	36.85	442.20
		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	323.50	2,749.75
		for every ½ mile (800 m) additional lead or part thereof, beyond 5 miles (8 Km).	0	1000 Cft	1	305.45	-
		Total Amount I,000 (Rs.).					17,627.60
		Total Amount Per Cft					17.63

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Rate Analysis Road- 2

Description							
Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from Dina quarry to site, actual compacted depth shall be considered for payment)							
Crush Stone							
Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	Unit	Lead (Km)	Qty	Rate (Rs)	Amount (Rs)
1		Material					
	18-3 a(i)	Pit run or bed run gravel.	100 Cft	1	1	7,403.25	7,403.25
2		Carriage					
	1/1	1st KM	100 Cft	1	1.2	305.40	366.48
		2nd KM	100 Cft	1	1.2	145.65	174.78
		3rd KM	100 Cft	1	1.2	114.10	136.92
		4th KM	100 Cft	1	1.2	81.20	97.44
		5th KM	100 Cft	1	1.2	75.85	91.02
		6th KM	100 Cft	1	1.2	74.60	89.52
		7th KM	100 Cft	1	1.2	69.60	83.52
		8th KM	100 Cft	1	1.2	68.85	82.62
		9th KM	100 Cft	1	1.2	64.75	77.70
		10th KM	100 Cft	1	1.2	60.75	72.90
		From 11 km to 200 km	100 Cft	80.00	1.2	52.20	5,011.20
		Total.					13,687.35
		Total Amount per 100 Cft					13,687.35
		Total cast for Per Cft					136.87

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Rate Analysis Road - 4

Manhole Construction 2 x 2 Ft											
										Unit	Each
Sr. No.	Ind BI-Annual-2023 (Jan to June) Wazirabad	Description	No.	Length	Width	Height	Qty	Unit	Rate (Rs)	Amount (Rs)	
1		Excavation. (0 to 7 feet depth)	1	3.50	3.50	3.00	36.75	1000 Cft	12,836.55	471.74	
2	6-3-b	Cement concrete brick or stone ballast (1:4:8)	1	3.50	3.50	0.33	4.04	100 Cft	25,832.40	1,044.27	
3	6-5-f	Base slab	1	3.50	3.50	0.25	3.06	100 Cft	38,723.50	1,185.91	
4	6-6-(a)(i)	Top ring Beam Ratio 1:2:4	1	3.500	3.50	0.33	4.04	100 Cft	580.05	2,344.85	
5	6/12 (c)	Steel work		3.00 kg per cft			14.15	kg	31,940.05	4,519.12	
6	7-7-i	Brick Work Ratio 1:3 Step - 1	1	11.00	0.75	2.00	16.50	100 Cft	35,897.90	5,923.15	
7	11-8-c	3/4" thick Plaster Ratio 1:3 (External)	1	11.00		2.00	22.00	100 Sft	4,856.75	1,068.49	
8	11-18-a	Cement pointing struck joints, on walls (1:2) (Internal)	1	8.00		2.00	16.00	100 Sft	3,776.40	604.22	
9	13-9-i	Bitumen Coating on External Plaster	1	11.00		2.00	22.00	100 Sft	2,297.95	505.55	
10	19-40-ii	Supply and fitting of cast iron manhole cover ii) 45 cm (18") dia	1				1.00	Each	1,532.40	1,532.40	
Grand Total.									19,200		

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RATE ANALYSIS

Description										
Supply, installation and commissioning of wall mounted mirror LED light 10 watt with tube rod and frame all necessary fixing accessories, complete in all respects										
								Unit.	Each	
Sr. No.	Ref	Detail				Unit Rate (British System) per Each				
					Qty	Rate Per Unit	Amount (Rs.)			
		<u>Material</u>								
1	MR	Mirror Light			1.00	No	850	No.	850.00	
								Total.	850.00	
2		Carriage & Installation Charges		5	%				42.50	
								Total.	892.50	
		GST 17% on item No. 1		17	%				144.50	
		Contractor's Profit on item No. (1&2)		20	%				178.50	
		Total							1,215.50	
		<u>ITEM RATES</u>								
		Composite rate Per Each						Rs.	1,215.00	

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RATE ANALYSIS

Description										
Supply, installation and commissioning recessed 10W LED Down Light complete in all respects.										
								Unit.	Each	
Sr. No.	Ref	Detail	Unit Rate (British System) per Each							
			Qty	Rate Per Unit	Amount (Rs.)					
		<u>Material</u>								
1	MR	LED Down Light	1.00	No.	1,000	No.	1,000.00			
								Total.	1,000.00	
2		Carriage & Installation Charges	5	%				50.00		
								Total.	1,050.00	
		GST 17% on item No. 1	17	%				170.00		
		Contractor's Profit on item No. (1&2)	20	%				210.00		
		Total						1,430.00		
		<u>ITEM RATES</u>								
		Composite rate Per Each						Rs.	1,430.00	

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

RATE ANALYSIS

Description										
Supply, installation and commissioning high bay light 100W with 120lm/w LED hanging with all accessories complete in all respects										
								Unit.	Each	
Sr. No.	Ref	Detail				Unit Rate (British System) per Each				
					Qty	Rate Per Unit	Amount (Rs.)			
		<u>Material</u>								
1	MR	Highbay Light			1.00	No.	24,500	No.	24,500	
								Total.	24,500	
2		Carriage & Installation Charges		5	%				1,225	
								Total.	25,725	
		GST 17% on item No. 1		17	%				4,165	
		Contractor's Profit on item No. (1&2)		20	%				5,145	
		Total							35,035	
		<u>ITEM RATES</u>								
		Composite rate Per Each							Rs.	35,035

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

RATE ANALYSIS

Description

Supply, installation, testing, and commissioning of following equipment to be installed in already made DB Box for motor including cost of all necessary accessories i.e: contactors, relay, indication lights, with ON/OFF push button complete in all respects.

								Unit.	Each
Sr. No.	Ref	Detail				Unit Rate (British System) per Each			
						Qty	Rate Per Unit	Amount (Rs.)	
		<u>Material</u>							
1	MR	i) Direct of Line (DOL) Starter for 3kW Motor				1.00	No. 39,300	No. 39,300	
								Total. 39,300	
2		Carriage & Installation Charges		5	%			1,965	
								Total. 41,265	
		GST 17% on item No. 1		17	%			6,681	
		Contractor's Profit on item No. (1&2)		20	%			8,253	
		Total						56,199	
		<u>ITEM RATES</u>							
		Composite rate Per Each						Rs. 56,200	

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

RATE ANALYSIS

Description

Supply, installation, testing, and comissioning of following equipment to be installed in already made DB Box for motor including cost of all necessary accessories i.e: contactors, relay, indication lights, with ON/OFF push button complete in all respects.

Unit. Each

Sr. No.	Ref	Detail	Unit Rate (British System) per Each		
			Qty	Rate Per Unit	Amount (Rs.)
		<u>Material</u>			
1	MR	ii) Automatic Star Delta Starter ASDS for 7.5kW Motor	1.00	No. 51,900	No. 51,900
					Total. 51,900
2		Carriage & Installation Charges	5	%	2,595
					Total. 54,495
		GST 17% on item No. 1	17	%	8,823
		Contractor's Profit on item No. (1&2)	20	%	10,899
		Total			74,217
		<u>ITEM RATES</u>			
		Composite rate Per Each			Rs. 74,220

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

RATE ANALYSIS

Description

Providing, laying and fixing in position shed as per drawings, manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick fixed with rivet and bolts over Purlins and truss frame of 50X50X4.75 mm with approved Colour/ paint supported with Steel Hexagonal / round shaped Columns size 200 to 300 mm diameter fitted with J-Type bolt having length 450 to 500 mm and not less than 38mm diameter. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought prior to placing order.

Unit. **Per Sft**

Sr. No.	Ref	Detail	Unit Rate (British System) per Sft					
			Qty	Rate Per Unit	Amount (Rs.)			
		Area 1920 Sft						
		<u>Material</u>						
1	MR	Supply of PEB Shed (32' x 60')	1	Sft	3,198,934	Sft		3,198,934
							Total.	3,198,934
		Contractor's Profit						639,787
								3,838,721
		Total						3,838,721
		<u>ITEM RATES</u>						
		Composite rate 1920 Sft					Rs.	3,838,730
		Composite rate Per Sft					Rs.	2,000

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

RATE ANALYSIS

Description

Supply at site brand new 30KVA Prime Power Diesel Generator with fuel tank for 8 hour operation and Sound and Weather Proof canopy installed and commission at site on RCC PAD as per Manufacturer specifications to bear the Load of 30KVA DGSet complete in all respect, Loding and unloading on site to install on PAD and Control wires from ATS panel to DG Set for smooth operation including all necessary accessories required to complete this job as per enigneer incharge instructions.

	Unit.	Each

Sr. No.	Ref	Detail	Unit Rate (British System) per Each						
			Qty	Rate Per Unit	Amount (Rs.)				
		<u>Material</u>							
					1 \$ = 225				
1	MR	Brand New KOHLER-SDMO France Diesel Generator Set, Model K33; 30 kVA Prime Power	1	No.	2,616,300	No.	2,616,300		
2	MR	Sound and Weather Proof Canopy	1	No.	265,000	No.	265,000		
								Total.	2,881,300
3		Transportation & Installation Charges	5	%					144,065
								Total.	3,025,365
		GST 17% on item No. (1&2)							489,821
		Contractor's Profit on item No. (1,2&3)							605,073
		Total							4,120,259
		<u>ITEM RATES</u>							
		Composite rate Per Each						Rs.	4,120,260

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

RATE ANALYSIS

Description

Supply, Installation, testing and commissioning of following size 56" ceiling fan, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect.

								Unit.	Each	
Sr. No.	Ref	Detail				Unit Rate (British System) per Each				
						Qty	Rate Per Unit	Amount (Rs.)		
		<u>Material</u>								
1	MR	Ceiling Fan				1.00	No.	5,525	No.	
									Total.	
									5,525	
2		Carriage & Installation Charges		5	%				276.25	
									Total.	
									5,801	
		Contractor's Profit on item No. (1&2)		20	%				1,160	
		Total							6,962	
		<u>ITEM RATES</u>								
		Composite rate Per Each							Rs.	6,961
		Say							Rs.	7,000

ANNEXURE C
ECONOMIC BENEFITS

Economic Benefits

The construction of parking shed can be beneficial for the community in multiple ways. The Economic benefits of a parking shed are given below:

- A safe yard is provided for SWM vehicles in mechanized form.
- Parking shed helps to save a lot of energy. Car parking shade can be very beneficial to save a lot of energy by protecting it from the heat sun. The shades can allow maintaining a cooler environment for the vehicles and also reduces the amount of energy required to cool down from the heat of the sun.
- The parking shed helps in prevention of vehicles from rusting, sunlight, weather conditions, etc.
- In-house workshops are provided for the repairing and maintenance of vehicles.
- The parking shed provides safety to SWM vehicles.
- The parking shed helps in prevention from heating up of engines.

Annexure-D
Gant Chart

**TENTATIVE PROJECT IMPLEMENTATION SCHEDULE FOR CONSTRUCTION OF PARKING SHED FOR SWM MACHINERY
YEAR (2022-2023)**

Sr.No	Activity Name	MAY-23	JUN-23	JUL-23	AUG-23	SEP-23	OCT-23																
1	Approach Road	█	█	█	█	█	█	█	█	█	█	█	█	█									
2	Boundary wall & Gates	█	█	█	█	█	█	█	█														
3	Building Works					█	█	█	█	█	█	█	█										
4	Parking Shed								█	█	█	█	█	█	█								
5	Workshop & Washing area										█	█	█	█	█	█							
6	Pathways																█	█	█	█	█	█	█

Annexure-E
E&S Checklist and SOPs

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: *Wajaz Ahmed*
Name of MC: *Municipal Committee Wazirabad*
Sub-Project Sector: *Parking Shed*
Sub-Project Title: *Construction of Parking Shed for Machinery, Azazi*
Sub-Project Categorization: E-1 S-1 *Jhalalan near*
 E-2 S-2 *Vegetable & fruit*
 (E-3) **(S-3)** *market, GT road*
 Wazirabad
Date of Screening:
Anticipated Project Activities *Construction of Parking Shed*
for machinery, workshop, Puncture shop, Service Station
for washing of machinery etc.
Estimated Cost of Subprojects
Tentative Completion Time/Duration
Estimated Labor for Subproject

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-1 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 ¹	✓		Nullah Pakhu
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?		✓	
B. Potential Environmental Impacts			
Will the Sub-Project cause...			
1. Disturbance to habitats/biodiversity of environmentally sensitive or protected areas?		✓	
2. Cutting of trees?		✓	
3. Disruption to habitats/biodiversity of surrounding ecosystem/environment?		✓	

³ Ibid.

⁴ According to Environmental Assessment Guidelines adopted by Punjab EPA

⁵ Ibid.

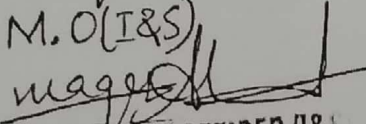
⁶ due to caste, creed, religion or gender e.g. transgender

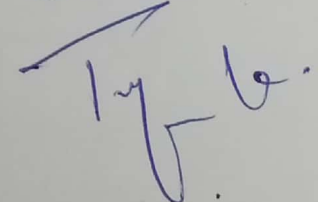
⁷ Sewerage /Drainage system, Water supply lines, tube-wells, WAPDA/Telephone transmission lines/electric poles, Railway tracks, Gas pipelines, Roads, Shops/Plazas, Banks, Industry, Disposal stations etc.

4. Generation of wastewater during construction or operation?		✓	
5. Pollution of surface water/ground water due to wastewater discharge from construction site or due to direct/indirect disposal of waste water?		✓	
6. Alteration of surface water hydrology of waterways resulting in increased sediment in streams/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?		✓	
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?		✓	
13. Noise and vibration due to sub-project construction or operation?		✓	
14. Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents due to solid/liquid?		✓	
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)		✓	
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?		✓	

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)?		✓	
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?		✓	
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		✓	

Prepared By: Uqar Ahmed
Name: M.O(I&S)
Signature: 
Date: _____
MUNICIPAL OFFICER (I&S),
Municipal Committee
Wazirabad

Endorsed By: DPO ESS
Name: Tehmina Kiran
Signature: 
Date: _____

PUNJAB CITIES PROGRAM

ENVIRONMENT, HEALTH AND SAFETY SOPs FOR LABOR/WORKERS

Labor /workers play key role in the infrastructure development and construction activities. The objective of preparation of the EHS SOPs for Labor/Workers is to address environment, health and safety issues related to the proposed sub-project implementation. These SOPs will provide guidelines to be followed by the contractors for effective management of EHS issues related to labor/workers/daily wagers (including women). These SOPs will be annexed in the general conditions of all the contracts carried out under the PCP. These SOPs are designed for Punjab Cities Program and will be applicable to all types of labor/workers/daily wagers (including women), hired for the construction activities under PCP. Following are the anticipated Environment, Health and Safety issues and their recommended mitigation measures.

Table 1: Construction Camp Management

Activity/ Impact Source	EHS Concerns/issues	Mitigation Measures/ Management Guidelines
Siting and Location of construction camps	<p>Camp sites for construction workers are the important locations that have significant impacts such as health and safety hazards on labor/workers</p> <p>Lack of proper infrastructure facilities, such as housing, water supply and sanitation facilities will increase pressure on the local services and generate substandard living standards and health hazards.</p>	<p>The Contractor shall:</p> <p>Locate the construction camps at areas which are acceptable from environmental, cultural or social point of view.</p> <p>Consider the location of construction camps away from communities in order to avoid social conflict with the surrounding communities.</p> <p>Submit to the relevant MC for approval of a detailed layout plan for the development of the construction camp showing the relative locations of all temporary buildings and facilities that are to be constructed together with the location of site roads, fuel storage areas (for use in power supply generators), solid waste management and dumping locations, and drainage facilities, prior to the development of the construction camps.</p> <p>Local authorities responsible for health, religious and security shall be duly informed on the set up of camp facilities so as to maintain effective surveillance over public health, social and security matters</p>
Construction Camp Facilities	<p>Lack of proper infrastructure facilities, such as housing, water supply and sanitation facilities will generate social issues and impacts on health and environment.</p>	<p>Contractor shall provide the following facilities in the campsites:</p> <p>Adequate ventilation facilities</p> <p>Safe and reliable drinking water supply for personal hygiene (washing or bathing)</p> <p>Adequate housing for all workers</p> <p>Safe and reliable drinking water supply. Water supply from tube wells that meets the Punjab Environment Quality Standards</p> <p>Hygienic sanitary facilities, hand washing facilities and sewerage system.</p> <p>The toilets and domestic waste water will be collected</p>

Activity/ Impact Source	EHS Concerns/issues	Mitigation Measures/ Management Guidelines
		<p>through a common sewerage.</p> <p>Provide separate latrines and bathing places for males and females with total isolation by wall or by location. Female toilets should be clearly marked in language or signage clearly understood by the persons using them to avoid miscommunication. The minimum number of toilet facilities required is one toilet for every ten persons.</p> <p>Storm water drainage facilities. Both sides of roads are to be provided with shallow v drains to drain off storm water to a silt retention pond which shall be sized to provide a minimum of 20 minutes retention of storm water flow from the whole site. Channel all discharge from the silt retention pond to natural drainage via a grassed swale at least 20 meters in length with suitable longitudinal gradient.</p> <p>Paved internal roads. Ensure with grass/vegetation coverage to be made of the use of top soil that there is no dust generation from the loose/exposed sandy surface. Pave the internal roads of at least haring-bond bricks to suppress dusts and to work against possible muddy surface during monsoon.</p> <p>Provide child crèches for women working on the construction site. The crèche should have facilities for dormitory, kitchen, indoor/outdoor play area. Schools should be attached to these crèches so that children are not deprived of education whose mothers are construction workers</p> <p>Provide in-house community/common entertainment facilities. Dependence of local entertainment outlets by construction camps to be discouraged/prohibited to the extent possible.</p>
Disposal of Labor Camp waste	Management of wastes is crucial to minimize impacts on the environment as well as on the health of the workers/labor	<p>The Contractor shall:</p> <p>Ensure proper collection and disposal of solid wastes within the construction camps</p> <p>Insist waste separation by source; organic wastes in one pot and inorganic wastes in another pot at household level.</p> <p>Store inorganic wastes in a safe place within the household and clear organic wastes on daily basis to waste collector. Establish waste collection, transportation and disposal systems at their own.</p> <p>Dispose organic wastes in a designated safe place on daily basis. At the end of the day cover the organic wastes with a thin layer of sand so that flies, mosquitoes, dogs, cats, rats, are not attracted. One may dig a large hole to put organic wastes in it; take care to protect groundwater from contamination by leachate formed due to decomposition. Cover the bed of the pit with impervious layer of materials (clayey, thin concrete) to protect groundwater from</p>

Activity/ Impact Source	EHS Concerns/issues	Mitigation Measures/ Management Guidelines
		<p>contamination.</p> <p>Locate the garbage pit/waste disposal site min 500 m away from the residence so that peoples are not disturbed with the odor likely to be produced from anaerobic decomposition of wastes at the waste dumping places. Encompass the waste dumping place by fencing and tree plantation to prevent children to enter and play with.</p> <p>All solid waste will be collected and removed from the work camps and disposed in approval waste disposal sites.</p>
Fuel supplies for cooking purposes	Illegal sourcing of fuel wood by construction workers will impact the natural flora and fauna	<p>The Contractor shall:</p> <p>Provide fuel to the construction camps for their domestic purpose, in order to discourage them to use fuel wood or other biomass.</p> <p>Make available alternative fuels like natural gas or kerosene on ration to the workforce to prevent them using biomass for cooking.</p> <p>Conduct awareness campaigns to educate workers on preserving the protecting of biodiversity in the project area, and relevant government regulations and punishments on wildlife protection.</p>
Health and Hygiene	There will be a potential for diseases to be transmitted including COVID-19, malaria, exacerbated by inadequate health and safety practices. There will be an increased risk of work crews spreading sexually transmitted infections and HIV/AIDS.	<p>The Contractor shall:</p> <p>Provide adequate health care facilities within construction sites.</p> <p>Provide first aid box facility at the construction site round the clock. Maintain stock of medicines in the first aid facility in camp sites facility and appoint fulltime designated first aider or nurse.</p> <p>Provide ambulance facility for the laborers during emergency to be transported to nearest hospitals and telephone/mobile facility to call for Emergency Services 1122.</p> <p>Initial health screening of the laborers coming from outside areas</p> <p>Train all construction workers in basic sanitation and health care issues and safety matters, and on the specific hazards of their work</p> <p>Provide HIV awareness programming, including STI (sexually transmitted infections) and HIV information, education and communication for all workers on regular basis</p> <p>Provide adequate drainage facilities throughout camps to ensure that disease vectors habitats (stagnant water bodies, puddles) do not form.</p> <p>Regular mosquito repellent sprays in monsoon.</p> <p>Carryout short training sessions on best hygiene practices to</p>

Activity/ Impact Source	EHS Concerns/issues	Mitigation Measures/ Management Guidelines
		<p>be mandatorily participated by all workers.</p> <p>Place display boards at strategic locations within the camps containing messages on best hygienic practices</p> <p>Place display boards of contact information of nearest dispensary/health clinic/hospital</p>
Safety	<p>In adequate safety facilities to the construction camps may create security problems and fire hazards</p>	<p>The Contractor shall:</p> <p>Provide appropriate security personnel (police / home guard or private security guards) and enclosures to prevent unauthorized entry in to the camp area.</p> <p>Maintain register to keep track on a head count of persons present in the camp at any given time.</p> <p>Encourage use of flame proof material for the construction of labor housing/site office. Ensure that these houses/rooms are of sound construction and capable of withstanding storms/cyclones.</p> <p>Provide appropriate type of firefighting equipment suitable for the construction camps</p> <p>Display emergency contact numbers clearly and prominently at strategic places in camps.</p> <p>Communicate the roles and responsibilities of laborers in case of emergency in the monthly meetings with contractor.</p>
Food Safety	<p>There is potential for exposure to poisonous substances by ingestion</p>	<p>Suitable arrangements are to be made for provision of clean eating areas where workers are not exposed to the hazardous or noxious substances</p>
Site Restoration	<p>Restoration of the construction camps to original condition requires demolition of construction camps.</p>	<p>The Contractor shall:</p> <p>Dismantle and remove from the site all facilities established within the construction camp including the perimeter fence and lockable gates at the completion of the construction work.</p> <p>Dismantle camps in phases as the work decreases (do not wait for completion of the entire work.</p> <p>Give prior notice to the laborers before demolishing their camps/units</p> <p>Maintain the noise levels within the national standards during demolition activities</p> <p>Different contractors should be hired to demolish different structures to promote recycling or reuse of demolished material.</p> <p>Reuse the demolition debris to a maximum extent. Dispose remaining debris at the designated waste disposal site by MCs/ESFPs.</p> <p>Handover the construction camps with all built facilities as it is if agreement between both parties (contractor and land-owner) has been made so.</p>

Activity/ Impact Source	EHS Concerns/issues	Mitigation Measures/ Management Guidelines
		<p>Restore the site to its original condition or to an agreed condition with the landowner defined prior to the commencement of the works (in writing).</p> <p>Not make false promises to the laborers for future employment in O&M of the project.</p>

Table 2: Cultural and Religious Issues

Activity/ Impact Source	Environmental Impacts	Mitigation Measures/ Management Guidelines
Construction activities	Disturbance in performance of religious activities	<p>The Contractor shall:</p> <p>Provide separate prayer facilities (men and women) to the construction workers.</p> <p>Show appropriate and non-biased behavior with all construction workers irrespective of their religious or cultural affinities</p> <p>Allow the workers to participate in praying during construction time</p> <p>Inform the local authorities responsible for health, religious and security duly informed before commencement of civil works so as to maintain effective surveillance over public health, social and security matters</p> <p>In case of working during COVID-19 pandemic, SOPs for prayers in Mosque issued by the Government of Punjab, will be applicable and it will be responsibility of contractor to sensitize the labor/workers about it</p>

Table 3: Workers/Labor Health and Safety at Construction Site

Activity/ Impact Source	Impacts	Mitigation Measures/ Management Guidelines
Construction Activities	Construction works may pose health and safety risks to the construction workers and site visitors leading to severe injuries and deaths. The population in the proximity of the construction site and the construction workers will be exposed to a number of (i) biophysical health risk factors, (e.g. noise,	<p>The Contractor shall:</p> <p>Implement suitable safety standards for all workers and site visitors which should not be less than those laid down on the international standards (e.g. International Labor Office guideline on ‘Safety and Health in Construction; World Bank Group’s ‘Environmental Health and Safety Guidelines’) and contractor’s own national standards or statutory regulations, in addition to complying with the national acts and rules of the Government of Pakistan</p> <p>Provide the workers with a safe and healthy work environment, taking into account inherent risks in its particular construction activity and specific classes of</p>

Activity/ Impact Source	Impacts	Mitigation Measures/ Management Guidelines
	<p>dust, chemicals, construction material, solid waste, waste water, vector transmitted diseases etc), (ii) risk factors resulting from human behavior (e.g. STD, HIV etc) and (iii) road accidents from construction traffic.</p>	<p>hazards in the work areas, Provide Personal Protection Equipment (PPEs)¹ for workers, such as safety boots, helmets, masks, gloves, protective clothing, goggles, full-face eye shields, and ear protection. Maintain the PPE properly by cleaning dirty ones and replacing them with the damaged ones. Safety procedures include provision of information, training and protective clothing to workers involved in hazardous operations and proper performance of their job Appoint an environment, health and safety manager to look after the health and safety of the workers Inform the local authorities responsible for health, religious and security before commencement of civil works and establishment of construction camps so as to maintain effective surveillance over public health, social and security matters</p>
	<p>Child and pregnant labor</p>	<p>The Contractor shall: not hire children of less than 14 years of age and pregnant women or women who delivered a child within 8 preceding weeks, in accordance with the Employment of Children Act (2015)² and Pakistani Labor Laws and policies respectively .</p>

¹ Table 4 presents general examples of occupational hazards and types of PPE available for different purposes.

² The ECA 2015 defines a child as a person who has not completed his/her 14th year of age. The ECA states that no child shall be employed or permitted to work in any of the occupations set forth in the ECA (such as transport sector, railways, construction, and ports) or in any workshop wherein any of the processes defined in the Act is carried out

Activity/ Impact Source	Impacts	Mitigation Measures/ Management Guidelines
Accidents	Lack of first aid facilities and health care facilities in the immediate vicinity will aggravate the health conditions of the victims	<p>Provide health care facilities and first aid facilities are readily available. Appropriately equipped first-aid stations should be easily accessible throughout the place of work</p> <p>Document and report occupational accidents, diseases, and incidents.</p> <p>Prevent accidents, injury, and disease arising from, associated with, or occurring in the course of work by minimizing, so far as reasonably practicable, the causes of hazards. In a manner consistent with good international industry practice.</p> <p>Identify potential hazards to workers, particularly those that may be life-threatening and provide necessary preventive and protective measures.</p> <p>Provide awareness to the construction drivers to strictly follow the driving rules</p> <p>Provide adequate lighting in the construction area and along the roads</p>
Water and sanitation facilities at the construction sites	Lack of Water sanitation facilities at construction sites cause inconvenience to the construction workers and affect their personal hygiene.	<p>The contractor shall provide separate portable toilets and hand washing facilities at the construction sites, if about 25 people are working the whole day for a month. Location of portable facilities should be at least six m away from storm drain system and surface waters. These portable toilets should be cleaned once a day and all the sewerage should be pumped from the collection tank once a day and should be brought to the common septic tank for further treatment.</p> <p>Contractor should provide bottled drinking water facilities to the construction workers at all the construction sites.</p>
Other issues	Potential risks on health and hygiene of construction workers and general public	<p>The Contractor shall follow the following management measures to reduce health risks to the construction workers and nearby community:</p> <p>Drainage Management</p> <p>Air Quality Management</p> <p>Noise and Vibration Management</p> <p>Road Transport and Road Traffic Management</p>
Trainings	Lack of awareness and basic knowledge in health care among the construction workforce, make them susceptible to potential diseases.	<p>The Contractor shall:</p> <p>Train all construction workers in basic sanitation and health care issues (e.g., how to avoid COVID-19, malaria and transmission of sexually transmitted infections (STI) HIV/AIDS.</p> <p>Train all construction workers in general health and safety matters, and on the specific hazards of their work Training should consist of basic hazard awareness, site specific</p>

3 .SOPs issued by the GoPunjab during COVID-19 Pandemic will be implemented

Activity/ Impact Source	Impacts	Mitigation Measures/ Management Guidelines
		<p>hazards, safe work practices, and emergency procedures for fire, evacuation, and natural disaster, as appropriate.</p> <p>Commence the COVID-19, malaria, HIV/AIDS and STI education campaign before the start of the construction phase and complement it with by a strong condom marketing, increased access to condoms in the area as well as to voluntary counseling and testing.</p> <p>Implement COVID-19, malaria, HIV/AIDS and STI education campaign targeting all workers hired, international and national, female and male, skilled, semi- and unskilled occupations, at the time of recruitment and thereafter pursued throughout the construction phase on ongoing and regular basis. This should be complemented by easy access to condoms at the workplace as well as to voluntary counseling and testing.</p>

Table 4: Summary of Recommended Personal Protective Equipment According to Hazard⁴

Objective	Workplace Hazards	Suggested PPE
Eye and face protection	Flying particles, molten metal, liquid chemicals, gases or vapors, light radiation.	Safety Glasses with side-shields, protective shades, etc.
Head protection	Falling objects, inadequate height clearance, and overhead power cords.	Plastic Helmets with top and side impact protection.
Hearing protection	Noise, ultra-sound.	Hearing protectors (ear plugs or ear muffs).
Foot protection	Falling or rolling objects, pointed objects. Corrosive or hot liquids.	Safety shoes and boots for protection against moving & falling objects, liquids and chemicals.
Hand protection	Hazardous materials, cuts or lacerations, vibrations, extreme temperatures.	Gloves made of rubber or synthetic materials (Neoprene), leather, steel, insulating materials, etc.
Respiratory protection	Dust, fogs, fumes, mists, gases, smokes, vapors.	Facemasks with appropriate filters for dust removal and air purification (chemicals, mists, vapors and gases). Single or multi-gas personal monitors, if available.
	Oxygen deficiency	Portable or supplied air (fixed lines). On-site rescue equipment.
Body/leg protection	Extreme temperatures, hazardous materials, biological agents, cutting and laceration.	Insulating clothing, body suits, aprons etc. of appropriate materials.

⁴ Source: IFC Environmental, Health, and Safety (EHS) Guidelines



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

حق اشاعت

جملہ حقوق محفوظ ہیں۔

اس اشاعت کا کوئی بھی حصہ پی ایم ڈی ایف سی (PMDFC) کی پیشگی اجازت کے بغیر کسی بھی شکل میں الیکٹرانکس، مکینیکل، فوٹوکاپی، ریکارڈنگ یا کسی اور طرح سے دوبارہ بنایا یا منتقل نہیں کیا جاسکتا۔



پیش لفظ

لوکل گورنمنٹ اینڈ کمیونٹی ڈویلپمنٹ ڈیپارٹمنٹ اور پنجاب میونسپل ڈویلپمنٹ فنڈ کمپنی (PMDFC) نے ورلڈ بینک کے اشتراک سے پنجاب سٹیٹس پروگرام (PCP) کا کامیابی سے اجرا کر دیا ہے۔ اس منصوبے کے تحت صوبہ پنجاب کے 16 چھوٹے شہروں (MCs) بشمول بہاولنگر، بورویالا، خانیوال، کوٹ ادو، وہاڑی، گوجرہ، جھنگ، کمالیہ، اوکاڑا، ڈسکہ، حافظ آباد، جہلم، کاموکی، مرید کی اور منڈی بہاؤالہ کی ترقیاتی کاموں پر کامیابی سے کام جاری ہے۔ ان ترقیاتی منصوبوں میں ویسٹ مینجمنٹ، پانی کی فراہمی، نکاسی آب اور سڑکوں کی مرمت، کمیونٹی پارکس کی بحالی اور قدرتی آفات کی روک تھام کے منصوبہ جات شامل ہیں۔

پنجاب سٹیٹس پروگرام (PCP) کے منصوبہ جات کی تکمیل کے دوران سماجی اور ماحولیاتی مسائل کی جانچ پڑتال اور اس کے حل کے لئے انوائرنمنٹل اینڈ سوشل سیف گارڈز (ESSs) ٹیم نے انوائرنمنٹل اینڈ سوشل مینجمنٹ فریم ورک (ESMF) بنایا ہے۔ مختلف منصوبہ جات اسی فریم ورک کی رو سے پایہ تکمیل تک پہنچ رہے ہیں۔

تعمیراتی اور ترقیاتی کاموں کی تکمیل میں تعمیراتی جگہوں پر کام کرنے والے مزدوروں (بشمول خواتین) کی صحت اور کام کرنے کے دوران حفاظت بہت اہمیت رکھتی ہے۔ اس اہم مسئلہ کو ملحوظ خاطر رکھتے ہوئے، پی ایم ڈی ایف سی کے زیر اہتمام پنجاب سٹیٹس پروگرام کی انوائرنمنٹ اینڈ سوشل مینجمنٹ ٹیم نے "ترقیاتی منصوبوں کی تعمیر و مرمت کے دوران کام کرنے والے مزدوروں، ورکرز (بشمول خواتین لیبر ورکرز) کی صحت، حفاظت اور ماحول کیلئے بنیادی اصول و ضوابط" مرتب کیے ہیں تاکہ متعلقہ میونسپل کمیٹیز/کارپوریشنز (MCs) کے عہدیداران اور ٹھیکیداران کو آگاہی فراہم کی جائے۔



اغراض و مقاصد

۱۔ مجوزہ معیاری اصول و ضوابط پنجاب سیٹیز پروگرام (PCP) کے تحت پنجاب میونسپل ڈویلپمنٹ فنڈ کمپنی (PMDFC) کے ماہرین ماحولیات نے پروگرام ڈائریکٹر (PCP) اور ڈپٹی پروگرام ڈائریکٹر (PCP) کی زیر نگرانی تشکیل دیئے ہیں۔

۲۔ شہری ترقی کے ترقیاتی منصوبہ جات کی تعمیر و مرمت میں مزدور ورکرز بنیادی کردار ادا کرتے ہیں۔ ان (SOPs) کا بنیادی مقصد مزدور ورکرز (بشمول خواتین لیبر ورکرز) کو تعمیراتی جگہوں (Construction sites) اور لیبر کیمپس میں ماحولیاتی اور سماجی تحفظ فراہم کرنا اور صحت، ماحولیات اور کسی خطرناک صورتحال سے بچنے کے لئے حفاظت فراہم کرنا ہے۔

۳۔ یہ SOPs (PCP) پنجاب سیٹیز پروگرام کے تحت 16 شہروں کی میونسپل کمیٹیز/کارپوریشنز میں تعمیر و مرمت کے تمام پراجیکٹس پر لاگو ہوں گے۔

۴۔ یہ SOPs مزدوروں/کام کرنے والوں/دیہاڑی دار (بشمول خواتین) پر بلا تخصیص لاگو ہوں گے۔

۵۔ ان SOPs کو موثر اور یقینی بنانے کے لئے انھیں ٹھکیداروں کے کنٹریکٹ کا حصہ بنانا اور ان پر عمل درآمد کرنا میونسپل کمیٹیز/کارپوریشنز کی ذمہ داری ہے۔ جسے پی ایم ڈی ایف سی کی متعلقہ پروگرام ٹیم یقینی بنائے گی۔

پیغام



پاکستان کی ترقی میں تعمیراتی کاموں کے دوران کام کرنے والا مزدور طبقہ نہایت اہمیت کا حامل ہے اور انکے صحت و تندرستی سے متعلق مسائل کا مؤثر حل انتہائی ضروری ہے۔ "ترقیاتی منصوبوں کی تعمیر و مرمت کے دوران کام کرنے والے مزدوروں / ورکرز (بشمول خواتین لیبر ورکرز) کی صحت، حفاظت اور ماحول کیلئے بنیادی اصول و ضوابط" کی اشاعت و

ترویج اور ان پر بروقت عمل درآمد بے حد ضروری ہے جس سے اس طبقے کے بنیادی حقوق کا تحفظ یقینی بنایا جاسکے گا اور اس طرح اس طبقے کی کارکردگی میں بھی بہتری نظر آئے گی۔ ان اصولوں کے تحت ہر ٹھیکیدار کو ورکرز کی صحت اور حفاظت کی ذمہ داری دی گئی ہے۔ مزدور تعمیراتی کاموں کے دوران خطرات کے مطابق ذاتی حفاظتی سامان بھی استعمال کریں گے جس سے دوران کام حادثات میں بھی نمایاں کمی نظر آئے گی۔ ماحولیات اور صحت کے اصولوں کو مد نظر رکھتے ہوئے ہر سطح پر ہم اس بات کو یقینی بنانے کی کوشش کریں گے کہ ہماری پالیسیاں اور طرز عمل فعال ہوں۔ ماحولیات، صحت اور حفاظت (EHS) کے اصولوں کو اپنانے میں کسی بھی قسم کا سمجھوتہ نہیں کیا جائے گا۔ میں امید کرتا ہوں کہ ان اصول و ضوابط کی روشنی میں مزدور / ورکرز (بشمول خواتین لیبر) کے حقوق کی پاسداری کو ایک نیا رخ ملے گا اور حکومتی عہدیداران اور ٹھیکیداران بھی اپنی ذمہ داریوں کا احساس کریں گے۔ اور اس سلسلے میں پی ایم ڈی ایف سی اور پنجاب سیٹییز پروگرام کی انوائرنمنٹ اینڈ سوشل سیف گارڈز (ESSs) ٹیم بلاشبہ مبارکباد کی مستحق ہے اور یہ توقع کی جاسکتی ہے کہ وہ مستقبل میں ان قواعد و ضوابط کی نگرانی کے لئے بھرپور اقدامات کریں گے۔

محمد عامر نذیر

پروگرام ڈائریکٹر
پنجاب سیٹییز پروگرام (PCP)



زیر نگرانی

عاشق چوہدری

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

افتخار رسول

ڈپٹی پروگرام ڈائریکٹر
پنجاب سیٹیز پروگرام (PCP)

تکنیکی ٹیم

رضوانہ انجم

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

کنزلی ندیم

ریسرچ اینالسٹ
پنجاب سیٹیز پروگرام (PCP)

تہمینہ کرن

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



(۱) لیبر کیمپس کے لئے معیاری اصول و ضوابط

سرگرمیاں

۱. مزدور / لیبر کیلئے عارضی کیمپ / رہائش گاہ کے انتظام و قیام کے لئے جگہ کا انتخاب

مسائل

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

حفاظتی اقدامات

تھیکیدار لیبر کیمپس کے قیام کے وقت مندرجہ ذیل باتوں کا خیال رکھے گا :

- ◆ کیمپس ایسی جگہوں پر لگائے جائیں جو ماحولیاتی، مذہبی، سماجی اور ثقافتی نقطہ نظر سے قابل قبول ہوں۔
- ◆ مقامی آبادی کے ساتھ کسی تنازعہ سے بچنے کے لئے آبادی سے دور جگہ کا انتخاب کیا جائے
- ◆ لیبر کیمپ کی جگہ اور سہولیات سے متعلق ایک تفصیلی نقشہ تیار کر کے متعلقہ میونسپل کمیٹی / کارپوریشن میں جمع کرایا جائے۔
- ◆ دیگر مقامی ادارے جیسے صحت، سیورٹی وغیرہ کو لیبر کیمپ کے مقام اور مدت کے بارے میں مطلع کیا جائے تاکہ کسی ناگہانی صورتحال سے بچا جاسکے۔
- ◆ لیبر کیمپس کے قیام کیلئے عارضی جگہ زمین کا حصول زمین کے مالک کی مرضی، طے کردہ کرایہ اور باقاعدہ تحریری معاہدے کی صورت میں کیا جائے۔
- ◆ لیبر کیمپس سے ملحقہ بنیادی سہولتوں جیسے پینے کا پانی اور نکاسی آب کے انتظامات سے ماحولیاتی آلودگی میں اضافہ نہ ہو





سرگرمیاں

۲. لیبر کیمپ میں مہیا کی جانے والی سہولیات

مسائل

- ◆ مناسب انفراسٹرکچر کی کمی
- ◆ بنیادی ضروریات اور سہولیات جیسے پانی اور بجلی کی فراہمی، صفائی ستھرائی کی سہولیات اور نکاسی آب کی فراہمی

حفاظتی اقدامات

تھیکیدار کیمپ سائٹس پر درج ذیل باتوں کا خیال رکھے گا:

- ◆ ہوادار اور صاف ستھری رہائش گاہ
- ◆ عارضی کمروں کیلئے ایسے میٹریل کا استعمال جو جلد آگ نہ پکڑیں۔
- ◆ نہانے، دھونے اور پانی پینے کیلئے صاف اور مناسب پانی کی فراہمی۔
- ◆ تمام مزدوروں کیلئے مناسب جگہ کی موجودگی اور محفوظ ماحولیاتی معیار۔
- ◆ صاف ستھرے واش رومز اور نکاسی آب کا مناسب انتظام۔
- ◆ خواتین لیبر کیلئے پردے اور پرائیویسی کا انتظام اور الگ کمروں کا قیام مزید براں خواتین لیبر کی موجودگی کی صورت میں اُنکے لیے علیحدہ ٹوائلٹس رومز کا انتظام۔
- ◆ بین الاقوامی معیار کے مطابق ہر دس افراد کیلئے مطلوبہ ٹوائلٹ کی سہولت کی تعداد ایک ہے۔
- ◆ اگر لیبر کیمپ طویل مدت کیلئے لگایا جانا ہو تو بارشوں، سیلاب کے پانی سے بچنے کیلئے مناسب انتظامات کا ہونا اور نکاسی آب کی فراہمی بے حد ضروری ہے۔
- ◆ ٹوائلٹس اور عارضی رہائش گاہوں میں بجلی کی فراہمی کو یقینی بنایا جائے۔

سرگرمیاں

۳. لیبر کیمپ سے پیدا ہونے والا سالت اور لیکونڈ ویسٹ

مسائل

- ◆ تغفن اور بدبو
- ◆ صحت کے لئے نقصان
- ◆ ماحولیات کے لئے نقصان
- ◆ مقامی آبادی کے لئے نقصان
- ◆ بیماریاں پیدا کرنے والے بیکٹیریا اور مچھروں کا ذریعہ



حفاظتی اقدامات

- ◆ روزمرہ پیدا ہونے والے کوڑا کرکٹ اور چکن کے کوڑا کرکٹ کے لیے الگ الگ کوڑا دانوں کا انتظام
- ◆ میونسپل کمیٹی رکار پوریشن کی جانب سے منتخب کردہ جگہ پر روزانہ کی بنیاد پر کوڑے کو اٹھانے اور تلف کرنے کا مناسب انتظام۔
- ◆ عارضی ٹوائلٹس سے پیدا شدہ فضلے اور لیکویڈ ویسٹ کو حفظان صحت کے اصولوں کے مطابق ٹھکانے لگانے کا انتظام۔
- ◆ فضلے کو ٹھکانے لگانے کے لیے رہائش گاہ سے کم از کم 500 میٹر دور جگہ کا انتخاب کیا جائے جس کے ارد گرد لوگوں کی رہائش نہ ہو۔
- ◆ عارضی ٹوائلٹس سے پیدا شدہ فضلے کو ٹھکانے لگانے کے لیے منتخب کردہ جگہ کے ارد گرد باڑا لگائی جائے یا درخت لگا دے جائیں تاکہ بچے اور دیگر رہائشی داخل نہ ہوں اور چھرا اور بدبو بھی پیدا نہ ہو۔

سرگرمیاں

۴. کھانا پکانے کے لیے ایندھن کی فراہمی

مسائل

- ◆ گیس اور دیگر ایندھن سے چلنے والے چولہوں کے پھٹنے کا اندیشہ
- ◆ ایندھن کے لیے لکڑی کے حصول کے لیے درختوں کی کٹائی

حفاظتی اقدامات

ٹھیکیدار کیمپ سائٹس پر درج ذیل سہولیات مہیا کرے گا۔

- ◆ لیبر کیمپس میں کھانا پکانے، کمروں کے گرم رکھنے نیز سردیوں میں نہانے اور دھونے کے لیے گرم پانی کے لیے ایندھن کی لکڑی یا دیگر بائیو گیس استعمال کرنے کی حوصلہ شکنی کریں اور ایندھن کیلئے درختوں کی کٹائی نہ کریں۔
- ◆ درختوں اور ارد گرد جنگلات کی حفاظت کیلئے مزدوروں/لیبر کو آگاہی دی جائے۔
- ◆ کھانا پکانے کے لیے قدرتی گیس یا مٹی کے تیل کے محفوظ چولہے استعمال کیے جائیں۔





سرگرمیاں

۵۔ جانوروں / پرندوں کا شکار خرید و فروخت

مسائل

- ◆ جنگلی حیات کو خطرات
- ◆ ماحولیاتی وسائل کو خطرات

حفاظتی اقدامات

◆ لیبر / مزدوروں کو گاہی فراہم کی جائے کیونکہ ارد گرد موجود کسی بھی قسم کی جنگلی حیات کو نقصان پہنچانا ، ان کے گھونسلوں / پناہ گاہوں میں کوئی مداخلت کرنا، شکار کرنا یا جانوروں / پرندوں کو قید کرنا اور خرید و فروخت کرنا، پنجاب وائلڈ لائف (پروٹیکشن، پریزرویشن، کنزرویشن اینڈ مینجمنٹ ایکٹ 1974) کے مطابق ممنوع اور سزا قابل تعزیر جرم ہے۔

سرگرمیاں

۶۔ حفظانِ صحت کے اصول

مسائل

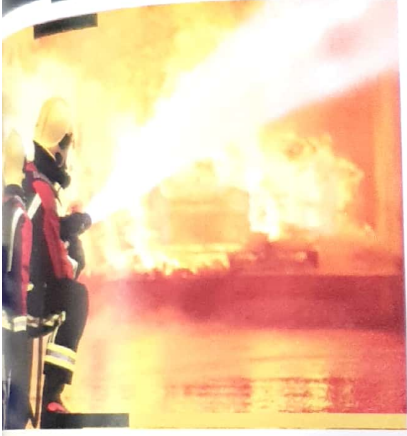
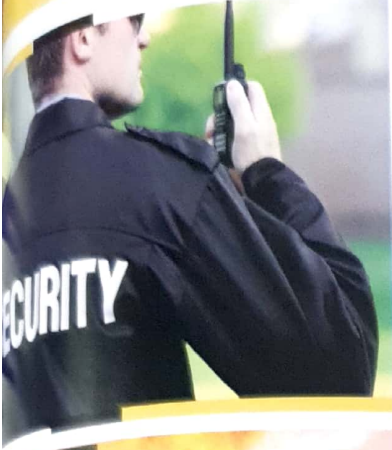
◆ حفظانِ صحت کے رہنما اصولوں پر عملدرآمد کرنے کی صورت میں مختلف بیماریاں مثلاً کرونا وائرس، ملیئریا اور ایچ آئی وی ایڈز اور دیگر انفیکشنز کے پھیلنے کا خطرہ

حفاظتی اقدامات

ٹھیکیدار لیبر کیمپس میں درج ذیل انتظامات مہیا کرے گا:

- ◆ لیبر کیمپس میں صحت و صفائی کی مناسب سہولیات کی فراہمی
- ◆ بیرونی علاقوں سے آنے والے مزدوروں کی صحت کی ابتدائی سکریننگ

- ◆ چوبیس گھنٹے لیبر کیمپس میں پرفرسٹ ایڈیکس کی سہولت موجود ہو۔ کیمپ سائنس میں ابتدائی طبی امداد سے متعلقہ دواؤں کا موجود ہونا یقینی بنایا جائے۔ اور طویل المدتی کیمپ کی صورت میں کسی ڈسپنسر رڈ اکثر کیمپ میں موجود ہونا چاہئے۔
- ◆ کسی ایمرجنسی کے دوران مزدوروں کے لیے ایمرجنسی کی سہولت فراہم کی جائے اور ایمرجنسی سروسز 1122 یا 15 پر کال کرنے کے لیے ٹیلیفون رموبائل کی سہولت مہیا کی جائے۔
- ◆ حفظانِ صحت کے بہترین اصولوں، صفائی ستھرائی اور صحت کی دیکھ بھال کے امور کیلئے مزدوروں/لیبر کو تربیت فراہم کی جائے جس میں تمام مزدوروں کی شرکت کو یقینی بنایا جائے۔
- ◆ جنسی طور پر منتقل ہونے والی بیماریوں اور ایڈز وغیرہ کے بارے میں مزدوروں کو مکمل معلومات فراہم کی جائیں اور ان بیماریوں سے بچنے کے لیے حفاظتی اصول اپنانے پر زور دیا جائے۔
- ◆ چھڑوں اور دیگر بیکٹیریا کو پیدا ہونے سے روکنے کیلئے حفاظتی سپرے لازمی کرائے جائیں۔
- ◆ کرونا سے بچنے کے لیے ابتدائی سکریننگ یقینی بنائیں اور بار بار ہاتھ دھونے پر زور دیں اور علامات ظاہر ہونے پر فوری طور پر دیگر مزدوروں سے آئسولیشن کے مکمل اصولوں پر سختی سے عمل کیا جائے۔
- ◆ لیبر کیمپس کے اندر مناسب مقامات پر حفظانِ صحت کے اصولوں سے متعلقہ پیغامات اور طریقے ڈسپلے کیے جائیں اور تربیتی پروگرام کا اہتمام کیا جائے۔
- ◆ قریبی ڈسپینسری/ہیلتھ کلینک/ہسپتال کے رابطہ نمبر وغیرہ واضح مقامات پر آویزاں کئے جائیں۔



سرگرمیاں

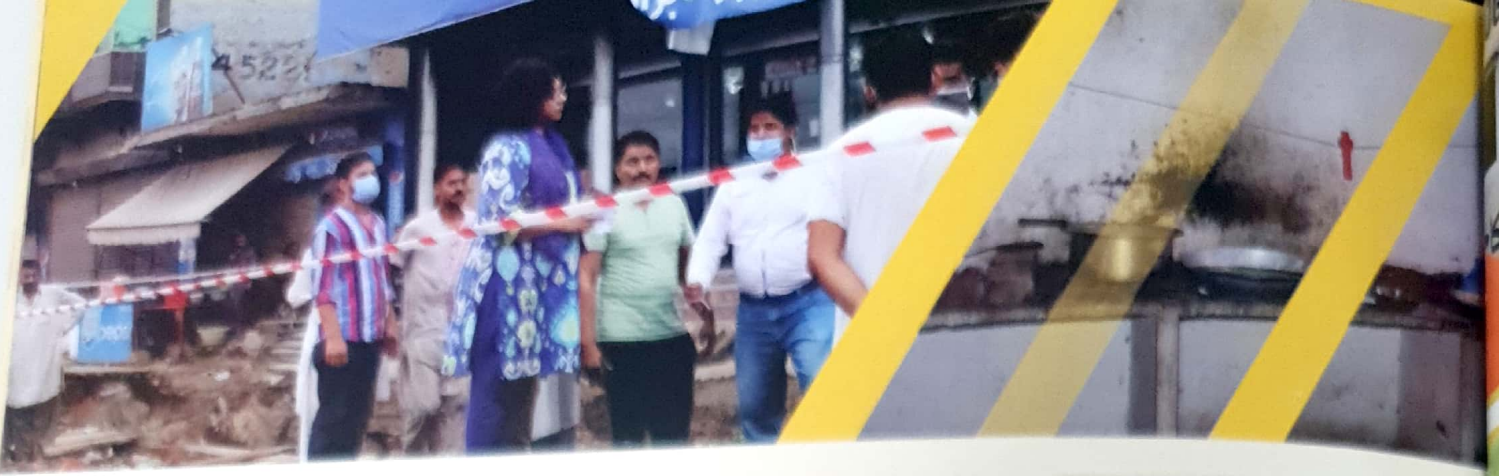
۷. سکیورٹی اور حفاظت کی سہولیات

مسائل

- ◆ سکیورٹی کے مسائل
- ◆ چوری کا خطرہ
- ◆ دہشت گردی کا خطرہ
- ◆ آگ لگنے کے خطرات

حفاظتی اقدامات

- ◆ کیپ کے گرد حفاظتی باڑی فراہمی
- ◆ حفاظتی اہلکار (پولیس یا نجی سکیورٹی گارڈ / ہوم گارڈ وغیرہ) کی تعیناتی
- ◆ کیپ میں موجود افراد کی صحیح تعداد اور آمدورفت کا حساب کتاب رکھنے کے لیے رجسٹر میں اندراج۔
- ◆ آگ سے بچاؤ کے لیے لیبر کیپ بنانے میں ایسا کوئی میٹریل استعمال نہ کیا جائے جس سے آگ لگنے کا اندیشہ ہو۔
- ◆ بارش، طوفان، سیلاب وغیرہ سے بچنے کیلئے اس بات کو یقینی بنایا جائے کہ کیپ سائٹ اور عارضی کمرے / ہائٹس گاہیں محفوظ رہیں۔
- ◆ لیبر کیپس میں آگ بجھانے والی آلات موجود ہوں جن پر انکی آخری معیاد کی تاریخ درج ہو۔ اور سکیورٹی گارڈ یا لیبر وغیرہ میں سے نمایاں افراد کو آگ بجھانے والے آلہ استعمال کرنے کی تربیت دی جائے۔
- ◆ لیبر کیپ میں واضح مقامات پر ہنگامی ایمر جنسی رابطہ نمبر نمایاں درج ہوں۔
- ◆ ٹھیکیدار، لیبر کے ساتھ ماہانہ میٹنگز میں ایمر جنسی کی صورت میں ہر ایک مزدور کو اسکی ذمہ داریوں اور تربیت سے آگاہ کرے اور اسکی تفصیلات کنسلٹنٹ اور میونسپل کمیٹی رکارڈ پر اپڈیشن کو فراہم کرے۔ اور کسی بھی قسم کی شکایات ایک رجسٹر میں درج کرے۔



سرگرمیاں

۸. حفظانِ صحت کے اصولوں پر مبنی خوراک (Food Safety)

مسائل

◆ نوڈ پوائزنگ کا خدشہ

◆ بیماری کا ڈر

حفاظتی اقدامات

◆ مزدوروں کو صاف ستھرے اور تازہ کھانے کی فراہمی کو یقینی بنایا جائے۔

سرگرمیاں

۹. مذہبی و سماجی میل جول

مسائل

◆ مذہبی عبادات میں رکاوٹ

◆ سماجی تعلقات میں دشواری

◆ سماجی، ثقافتی اور مذہبی خیالات میں شدت پسندی یا لڑائی جھگڑا وغیرہ

حفاظتی اقدامات

◆ مزدوروں رلیبر کو ان کے مذہب اور فرقے کے مطابق مذہبی عبادات کی سہولیات فراہم کرنا۔

◆ خواتین لیبر کی موجودگی کی صورت میں ان کے لیے علیحدہ وضو، نماز اور پردے کا اہتمام کیا جائے۔

◆ تمام مزدوروں کی مذہبی، ثقافتی یا فرقے کی وابستگی سے قطع نظر غیر متعصبانہ اور برابری کا سلوک کیا جائے۔

◆ مزدوروں کو تعمیراتی کام کے دوران نماز میں شرکت کرنے یا دیگر عبادات کی اجازت دی جائے اور اس سلسلے میں مذہبی اور سکیورٹی امور کے ذمہ دار

مقامی حکام کو تعمیراتی کاموں کے آغاز سے پہلے باضابطہ طور پر آگاہ کیا جائے تاکہ صحت عامہ، معاشرتی اور حفاظتی امور پر موثر نگرانی برقرار رکھی جاسکے۔



سرگرمیاں

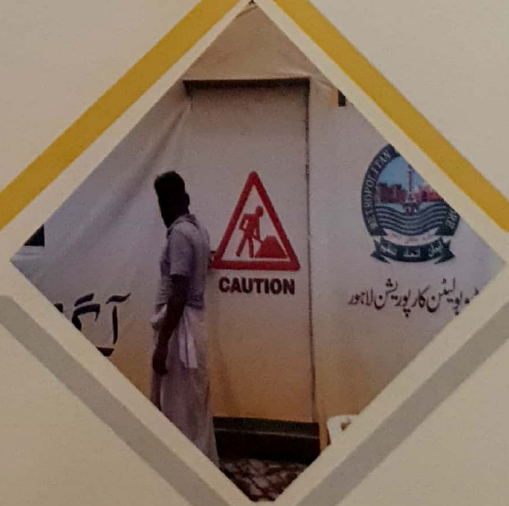
10. تعمیراتی کام ختم ہونے کے بعد کی ذمہ داریاں

مسائل

◆ فالتو سامان اور کوڑا کرکٹ کی گندگی

حفاظتی اقدامات

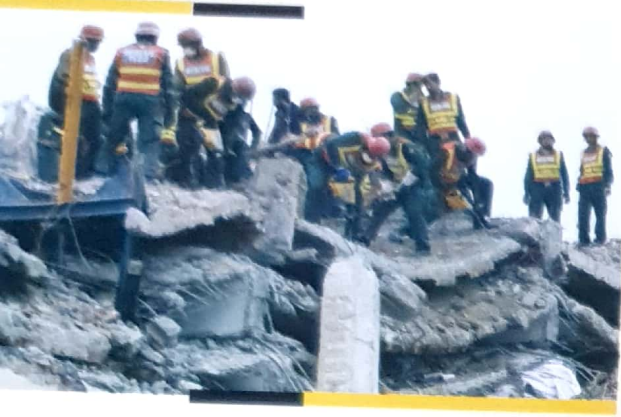
- ◆ کیپ سائٹ کو اصل حالت میں بحال کیا جائے۔
- ◆ تعمیراتی کام کے مکمل ہونے پر فریم اور باڈی لگنے والے دروازوں سمیت لیبر کیپ میں قائم تمام سہولیات کو ایسے ختم کیا جائے کہ وہاں کا کوئی کام نہ رہے۔
- ◆ کام مکمل ہونے کے ساتھ لیبر کیپ کو مرحلہ وار ختم کیا جائے (پورے کام کی تکمیل کا انتظار نہ کریں)
- ◆ لیبر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



انوائرنمنٹ اینڈ سوشل سیف گارڈ

پی ایم ڈی ایف سی

۱۳



سرگرمیاں

۱. تمام قسم کے تعمیراتی سرگرمیاں اور کام

مسائل

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

حفاظتی اقدامات

- تمام مزدوروں / لیبر سے مقامی / بین الاقوامی معیار کے مطابق مناسب حفاظتی اور قانونی ضوابط کی پیروی کروائی جائے۔
- کام کی جگہ پر ارد گرد کے علاقوں میں موجود دہشت گردی اور سیوریٹی کے خطرات کے مطابق حکمت عملی کی بروقت تیاری اور ایک محفوظ و صحت مند ماحول مہیا کیا جائے۔
- مزدوروں / لیبر کیلئے ذاتی حفاظت کے سامان (PPEs) کی فراہمی مثلاً حفاظتی جوتے، ہیلیمٹ، ماسک، دستانے، حفاظتی لباس، چشمے، چہرے اور کان کی حفاظت کے سامان وغیرہ کی فراہمی
- تمام مزدوروں / لیبر کو ذاتی حفاظت کے ساز و سامان کے بارے میں مکمل آگاہی اور استعمال کے طریقے کار کے بارے میں تربیت کا انتظام۔
- اگر تعمیراتی کام ایک ماہ سے زائد عرصہ کیلئے جاری رہنا ہو تو تمام مدت کے لیے صحت، صفائی اور تربیت یافتہ ماحولیات کی تعیناتی کی جائے جو مزدوروں کی صحت، صفائی اور ماحولیات کے امور کی نگرانی کرے اور انہیں تربیت و آگاہی فراہم کرے۔
- تعمیراتی کاموں کے دوران کسی چوٹ لگنے / انجریز کی صورت میں مزدور / لیبر کے علاج معالجے کی سہولت مہیا کرنا اور بروقت ہسپتال / ڈسپنسری وغیرہ پہنچانا ٹھیکیدار کی ذمہ داری ہے۔
- مزید برآں دوران تعمیراتی کام کی وجہ سے لگنے والی چوٹ / انجریز کے نتیجے میں ہلاکت ہو جانے کی وجہ سے مزدور / لیبر کی انشورنس اور اس کی بروقت ادائیگی کو یقینی بنایا جائے۔
- ایمرجنسی رابطہ نمبر مثلاً ریسکیو 1122 یا 15 اور دیگر قریبی ہسپتالوں / ڈسپنسری وغیرہ کے نمبر تعمیراتی جگہوں پر واضح درج ہونے چاہیں اور کال کی سہولت فراہم کی جائے۔
- شہری ترقی کے تعمیراتی منصوبہ جات کے آغاز سے قبل صحت، مذہبی امور اور شہری تحفظ / سیوریٹی فراہم کرنے والے مقامی اداروں کو آگاہ رکھا جائے اور اس سلسلے میں متعلقہ میونسپل کمیٹی / رکارپوریشن کے تعاون سے موثر حکمت عملی تشکیل دی جائے۔

سرگرمیاں

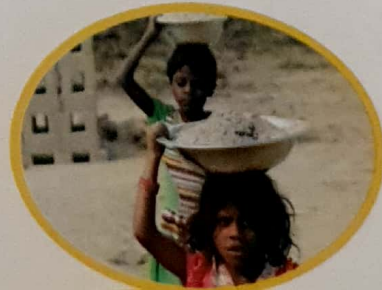
۲. تمام قسم کی تعمیراتی سرگرمیاں اور کنسٹرکشن کے کام

مسائل

- ◆ 15 سال سے کم عمر بچوں کی صحت اور تعلیم کا نقصان
- ◆ 18 سال اور اس سے کم عمر بچوں کی صحت کا نقصان
- ◆ حاملہ مزدور عورتوں کی صحت سے متعلقہ خطرات

حفاظتی اقدامات

- ◆ دی پنجاب رسٹرکشن آن ایمپلائمنٹ آف چلڈرن ایکٹ 2016 کے مطابق 15 سال سے کم عمر بچوں کو مزدوری یا کسی سرگرمی کے لیے کام پر نہیں رکھا جاسکتا۔
- ◆ ویسٹ پاکستان میٹرنٹی بٹیفٹ آرڈیننس 1958 کے مطابق حاملہ خواتین یا ایسی خواتین جنہوں نے چھ ہفتے قبل بچے کو جنم دیا ہو، کو مزدوری یا کسی سرگرمی کے لیے کام پر نہیں رکھا جاسکتا۔
- ◆ دی پنجاب رسٹرکشن آن ایمپلائمنٹ آف چلڈرن ایکٹ 2016 کے مطابق 18 سال اور اس سے کم عمر کے بچوں کو محنت مزدوری کے ایسے کام کے لیے نہیں رکھا جاسکتا جن میں صحت کو نقصان پہنچنے یا چوٹ لگنے یا کسی کیمیائی زہریلے مادے سے نقصان پہنچنے یا جہاں ہڈی ٹوٹنے کا اندیشہ ہو۔





سرگرمیاں

۳. دوران تعمیر حادثات کا پیش آنا

مسائل

◆ فوری طبی امداد کی کمی

◆ اردگرد کے علاقوں میں ابتدائی طبی سہولیات اور صحت عامہ کا فقدان

حفاظتی اقدامات

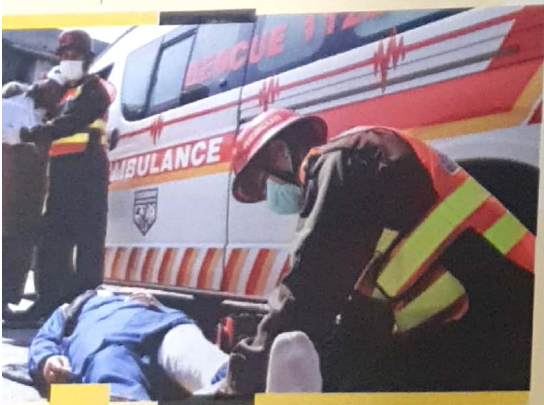
◆ تعمیراتی جگہ پر فرسٹ ایڈ باکس کی موجودگی کہ یقینی بنایا جائے اور فرسٹ ایڈ باکس میں تمام ضروری ادویات اور طبی امداد کا ضروری سامان موجود ہو۔

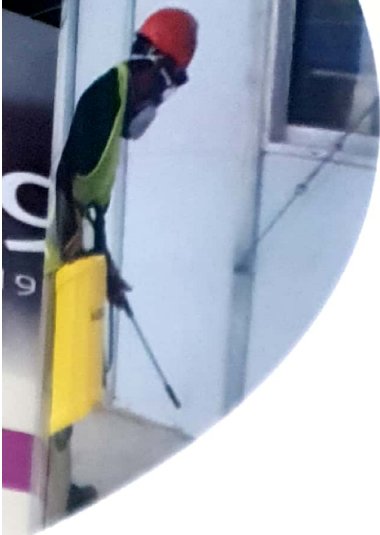
◆ تعمیراتی کاموں کے دوران پیش آنے والے حادثات بیمار یوں اور واقعات کا مکمل ریکارڈ رکھا جائے۔ اسی طرح حادثات کی نوعیت و وجوہات کا مکمل ریکارڈ موجود ہو۔

◆ مزدوروں کی صحت و سیورٹی سے متعلق ممکنہ خطرات کی بروقت نشاندہی کی جائے خاص کر وہ خطرات جو جان لیوا ثابت ہو سکتے ہیں۔ اور ضروری حفاظتی اقدامات بروقت کئے جائیں۔

◆ تعمیراتی کاموں سے متعلق مشینری چلانے والے ڈرائیوروں کو دوران ڈرائیونگ قواعد و ضوابط پر سختی سے عملدرآمد کرانے کے لئے آگاہی فراہم کی جائے۔

◆ تعمیراتی علاقوں اور سڑکوں کے ساتھ ساتھ روشنی کا معقول انتظام ہو۔





سرگرمیاں

۴. تعمیراتی مقامات پر پانی اور صفائی ستھرائی کی سہولیات اور سالڈ ویسٹ مینجمنٹ

مسائل

- ♦ صحت کو خطرہ
- ♦ ارد گرد علاقے کے لوگوں کے لئے ناگواری کا باعث
- ♦ چھردوں اور دیگر بیکٹیریا کی افزائش نسل کا ذریعہ

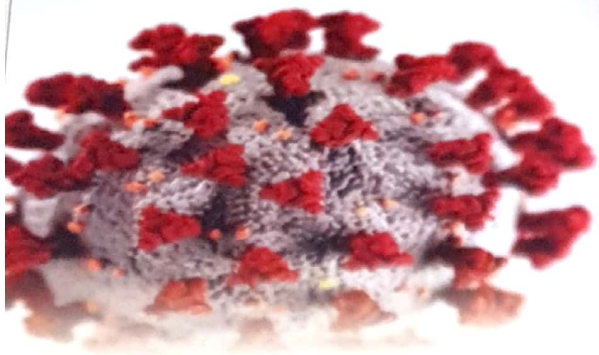
حفاظتی اقدامات

- ♦ تعمیراتی جگہوں پر تمام مزدوروں کے لئے پینے کے لئے صاف ستھرا پانی مہیا کیا جائے۔
- ♦ اگر تقریباً 25 مزدور ایک مہینہ کے لئے سارا دن کام کر رہے ہوں تو ان کے لئے تعمیراتی جگہوں پر پورٹ ایبل ٹوائلٹ کا انتظام کیا جائے جو مقامی ڈرنیج سسٹم سے ملحق ہوں اور مقامی ڈرنیج سسٹم کی غیر موجودگی میں مقامی ندی نالوں وغیرہ سے کم از کم 6 میٹر کے فاصلے پر ہوں۔ مزید برآں پورٹ ایبل ٹوائلٹس کی صفائی ستھرائی کو روزانہ کی بنیاد پر یقینی بنایا جائے۔
- ♦ تعمیراتی کاموں کے دوران کھدائی سے حاصل شدہ گارا، مٹی، ریت، کنکریٹ وغیرہ کو تعمیراتی جگہ پر ہر دو دن سے زائد مدت کے لئے کھلانہ نہ دیا جائے۔ اور روزانہ کی بنیاد پر متعلقہ میونسپل کمیٹی رکارپوریشن کی جانب سے مقرر کردہ جگہ پر مناسب طریقے سے ٹھکانے لگایا جائے۔

پی ایم ڈی ایف سی

۱۷

انوائٹمنٹ اینڈ سوشل سیف گارڈز



COVID-19

CORONAVIRUS DISEASE 2019

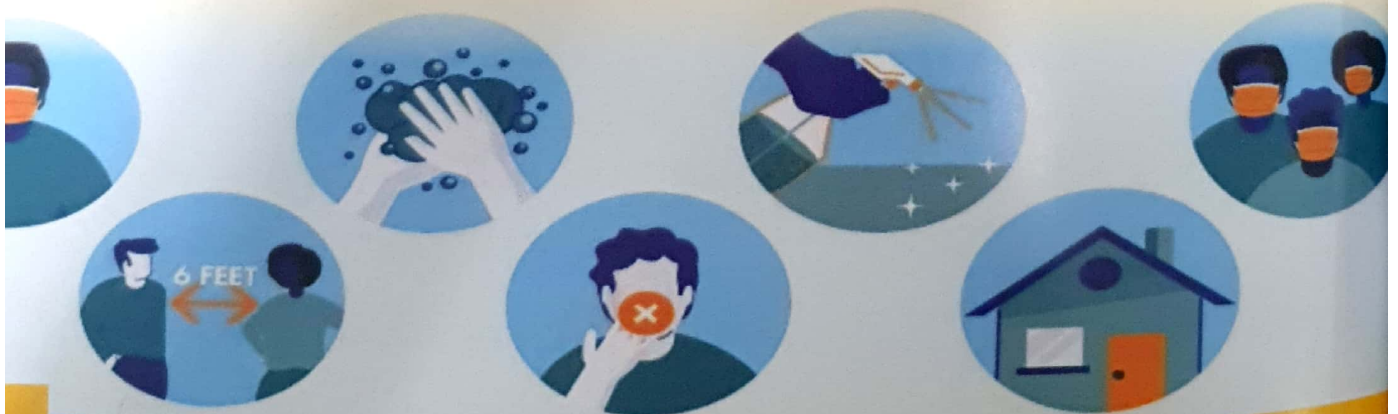
سرگرمیاں

کرونا وائرس کی وبا کے دوران حفاظتی تدابیر

حفاظتی اقدامات

گورنمنٹ آف پنجاب اور ورلڈ بینک کی ہدایات کے مطابق کرونا کی وبا کے دوران درج ذیل حفاظتی اقدامات کی پابندی کروانا کنٹریکٹر کی ذمہ داری ہے:

- ◆ کرونا وائرس کی وبا کے دنوں میں کنسٹرکشن سائٹ پر ہاتھ دھونے کیلئے پانی (پورٹ ایبل ہینڈ واشنگ کی سہولت) اور صابن مہیا کیا جائے اور لیبر کو بار بار صابن سے ہاتھ دھونے کی تلقین کی جائے۔
- ◆ لیبر کیمپس میں اور کنسٹرکشن سائٹ پر سوشل ڈسٹینسنگ (6m کا فاصلہ) کے اصولوں کو مدنظر رکھا جائے۔
- ◆ کرونا وائرس کی وبا کے دوران اس بات کا خاص خیال رکھا جائے کہ اگر کنسٹرکشن سائٹ پر آبادی میں وبا پھیلی ہوئی ہے تو آبادی اور مقامی لوگوں سے دور رہیں اور کسی قسم کا میل جول نہ رکھیں۔ اسی طرح اگر کوئی مزدور وبا کے علاقے سے روزانہ کی بنیاد پر آ رہا ہے تو اسے باقی لوگوں/مزدوروں سے میل جول سے دور رکھا جائے۔
- ◆ اگر کسی مریض میں وائرس کی علامات (خشک کھانسی، نزلہ، زکام، بخار وغیرہ) پائی جائیں تو اسے فوراً دوسرے مزدوروں سے آئسولیٹ کر دیا جائے اور ٹیسٹ کروانے کیلئے کہا جائے۔
- ◆ وبا کے دوران کنسٹرکشن سائٹ پر دیگر PPEs کے ساتھ ساتھ مزدوروں کو ماسک لازمی استعمال کرایا جائے۔













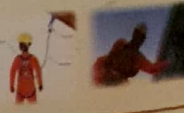
تعمیراتی کاموں کے دوران خطرات / حادثات سے بچنے کیلئے سامان برائے ذاتی حفاظت کا خلاصہ

تعمیراتی کام	مقصد
اڑنے والے ذرات کا استعمال جیسے پکھلی ہوئی دھات مائع کیمیکل، گیسوں، اور بخارات، روشنی کی شعاعیں۔	آنکھوں اور چہرے کی حفاظت / تحفظ
ایسے تمام کام جن میں گرنے کا خطرہ ہو، بلندی پر کام کرنا، تعمیراتی کام کو سنبھالنے اور دوسری جگہ پر منتقل کرنے والے کام۔	سر کی حفاظت / تحفظ
کھدائی / شور پیدا کرنے والے کام یا بھاری مشینری استعمال کرنے کی وجہ سے شور۔	سماعت کی حفاظت / تحفظ
تمام تعمیراتی کام جن میں چیزوں کا گرنا یا گھمانا، نوکیلی اشیاء شامل ہوں۔ گلانے والا یا گرم مائع، کچرے کے ڈھیر سے کچرا اٹھانا۔	پاؤں کی حفاظت / تحفظ
جسمانی صحت کیلئے نقصان دہ سامان جیسے کچرے کو سنبھالنا، ایسے کام جس میں کاٹ یا گہرے زخم لگنے کا اندیشہ ہو، ارتعاش، بہت زیادہ درجہ حرارت۔	ہاتھوں کی حفاظت / تحفظ
دھول، دھند، شعلے، گیسوں، دھواں، بخارات	تحفظ تنفس
آکسیجن کی کمی	جسم / ٹانگوں کی حفاظت / تحفظ
تمام کام جن میں شدید درجہ حرارت، نقصان دہ مواد، حیاتیاتی ایجنٹ، چھوٹے یا گہرے زخم لگنے کا اندیشہ ہو	اونچائی پر کام کرتے ہوئے حفاظت
تمام تعمیراتی کام جو 4 فٹ یا اس سے زیادہ کی اونچائی پر کے جانے ہوں بشمول سٹریٹ لائٹس وغیرہ	اونچائی پر کام کرتے ہوئے حفاظت
تمام تعمیراتی کام جو 4 فٹ یا اس سے زائد اونچائی پر مسلسل ایک دن کیلئے کیے جانے ہوں	اونچائی پر کام کرتے ہوئے حفاظت

تجویز کردہ سامان برائے ذاتی حفاظت

حفاظتی عینکیں	اوپر اور اطراف سے نقصان سے بچاؤ کیلئے پلاسٹک کے ہیلمٹ
ساعت کی حفاظت کے آلہ جات جیسے کن پوٹ یا ایئر پگ	پہننے اور گرنے والی اشیاء، مائع اور کیمیائی مواد سے بچاؤ کیلئے حفاظتی جوتے یا بوٹ
رہڑیا مصنوعی مواد (نیوروپین)، چمڑا، سٹیل، غیر موصل مواد سے بنے گلووز	ایک جگہ سے دوسری جگہ لے جانے والے یا ایک ہی جگہ پڑے مواد کی فراہمی تعمیراتی جگہ پر بچاؤ کا سامان
چہرے کے ماسک جن میں دھول ہٹانے اور ہوا کو صاف رکھنے کیلئے (کیمیائی مواد، دھند، بخارات اور گیسوں سے) مناسب فلٹر لگے ہوں	چہرے کے ماسک جن میں دھول ہٹانے اور ہوا کو صاف رکھنے کیلئے (کیمیائی مواد، دھند، بخارات اور گیسوں سے) مناسب فلٹر لگے ہوں
مناسب میٹرل سے بنے غیر موصل کپڑے، ایپرن وغیرہ	مناسب میٹرل سے بنے غیر موصل کپڑے، ایپرن وغیرہ
ہیلمٹ، حفاظتی عینکیں، گلووز اور ربڑ کے بوٹ	ہیلمٹ، حفاظتی عینکیں، گلووز اور ربڑ کے بوٹ
اینٹکر، بیلٹ، رسی، کنیکٹر، سہلے، تہہ جگہ اور ایک ساتھی فرد	اینٹکر، بیلٹ، رسی، کنیکٹر، سہلے، تہہ جگہ اور ایک ساتھی فرد

Summary of Recommended Personal Protective Equipment According to Hazard

Objective	Workplace Hazards	Suggested PPE	Pictures
Eye and face protection	Flying particles, molten metal, liquid chemicals, gases or vapors, light radiation.	Safety Glasses with side-shields, protective shades, etc.	
Head protection	Falling objects, inadequate height clearance, and overhead power cords.	Plastic Helmets with top and side impact protection.	
Hearing protection	Noise, ultra-sound.	Hearing protectors (ear plugs or ear muffs).	
Foot protection	Falling or rolling objects, pointed objects. Corrosive or hot liquids.	Safety shoes and boots for protection against moving & falling objects, liquids and chemicals.	
Hand protection	Hazardous materials, cuts or lacerations, vibrations, extreme temperatures.	Gloves made of rubber or synthetic materials (Neoprene), leather, steel, insulating materials, etc.	
Respiratory protection	Dust, fogs, fumes, mists, gases, smokes, vapors.	Facemasks with appropriate filters for dust removal and air purification (chemicals, mists, vapors and gases). Single or multi-gas personal monitors, if available.	 
	Oxygen deficiency	Portable or supplied air (fixed)	
Body/leg protection	Extreme temperatures, hazardous materials, biological agents, cutting and	Insulating clothing, body suits, aprons etc.	
Working at *height	Rehabilitation Projects	Helmet, Safety glasses,	
	New Construction Projects	Anchor, belt, lanyard,	

*In general, use of PPEs is required for any height of 4 ft or more. Ref: OSHA standards

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

سرگرمیاں

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

مسائل

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

حفاظتی اقدامات

تھیکیدار کو چاہئے کہ:

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



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

(a) تعمیراتی کام کی نوعیت

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

(c) ایئر جیسی اور شکایت کیلئے رابطہ نمبرز

(d) (PMDFC) کی جانب سے جاری کردہ سماجی و ماحولیاتی پیغامات پر مبنی پوسٹرز۔

تعمیراتی کام کی جگہ کے ارد گرد 100 میٹر تک کی حدود میں موجود ثقافتی، سماجی، مذہبی ورثہ، تاریخی عمارتوں اور مذہبی مقامات جیسے قبرستان، مساجد، مندر، گرجا گھروں وغیرہ کو کسی قسم کا نقصان نہ پہنچایا جائے اور ان کی حدود میں کوڑا کرکٹ ڈالنے یا فالتو پانی چھوڑنے سے گریز کیا جائے۔ مزید برآں کھدائی کے دوران کسی نئے آثارِ قدیمہ ملنے کی صورت میں متعلقہ مقامی محکمے سے رجوع کیا جائے اور کھدائی کا کام بند کر کے تعمیراتی کام روک دیا جائے۔

سرگرمیاں

2- کھدائی کی جگہ اور اس سے متعلقہ کام اور نالوں کی صفائی اور اس سے حاصل شدہ بھل وغیرہ

مسائل



کھدائی سے حاصل شدہ مٹی رکنکر کے ڈھیر (Debris) سے رہائشیوں کی آمدورفت اور ٹریفک میں رکاوٹ

مقامی رہائشیوں کیلئے ناگواری کا باعث

چٹخروں اور دیگر بیماری پھیلانے والے جراثیم کی افزائش کا ذریعہ

کھدائی کی جگہ پر گرنے اور حادثات کے خطرات

حفاظتی اقدامات

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

سرگرمیاں

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

مسائل

- ◆ ٹریفک میں رکاوٹ۔

حفاظتی اقدامات

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



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انوائٹ مینٹ اینڈ سوشل سرف گارڈز ٹیم

4- تعمیراتی کاموں کی وجہ سے راستوں میں عارضی رکاوٹ اور زمین کا عارضی حصول

مسائل

- ◆ روزمرہ معمولات اور کاموں میں رکاوٹ
- ◆ رہائشی خواتین کیلئے آنے جانے میں رکاوٹ
- ◆ دکانداروں کے دکانوں کے آگے رکاوٹیں اور گاہکوں کیلئے مشکلات
- ◆ مستقل و عارضی سائز لگا کر بیچنے والے چھوٹے بڑے مستقل دکانداروں کا گاہک کم ہو جانے کی وجہ سے مالی نقصان

حفاظتی اقدامات

- ◆ تعمیراتی علاقے میں ارد گرد موجود تمام چھوٹی بڑی دکانوں، ٹھیلوں، عارضی خوانچہ فروشوں اور گھروں کا مکمل سروے (تعداد اور مالی حیثیت وغیرہ) اور ان پر ممکنہ سماجی اور ماحولیاتی اثرات کا جائزہ لے کر ایک تفصیلی رپورٹ اور متعلقہ پلان میونسپل کمیٹی رکارپوریشن کے دفتر میں موجود ہونی چاہئے جو کہ فوکل پرسنز، متعلقہ علاقائی آفس میں موجود ڈپٹی پروگرام آفیسر (ESSs) کے ساتھ تعمیراتی کاموں کی مالیت کا اندازہ لگائے وقت تیار کیا جائیگی۔ اس رپورٹ اور پلان میں موجود سماجی اور ماحولیاتی مسائل کے حل کیلئے مختص رقم اور ان کا صحیح طریقے سے استعمال ٹھیکیدار کے کنٹریکٹ حصہ ہوگا۔

◆ رہائشیوں کیلئے آنے جانے اور دکانوں، گھروں تک رسائی کے لیے متبادل راستے مہیا کرنا ٹھیکیدار کی ذمہ داری ہے۔

- ◆ دکانوں، تھڑوں، ٹھیلوں وغیرہ کے باہر کسی بھی قسم کے نقصان یا توڑ پھوڑ کی صورت میں ٹھیکیدار طے شدہ ضوابط کے مطابق اس کی قیمت متاثرہ لوگوں کو ادا کرے گا۔

- ◆ لیبر مزدور کو تربیت دی جائے کہ وہ ارد گرد رہائشی عورتوں اور بچوں کے آنے جانے میں کوئی رکاوٹ نہ بنیں اور رہائشیوں کے ساتھ بلا ضرورت کوئی میل جول نہ رکھیں۔

- ◆ تعمیراتی ٹیمپ لگانے، تعمیراتی کام کرنے یا مشینری اور تعمیراتی سامان رکھنے کے لیے عارضی طور پر حاصل کی گئی زمین کا کرایہ مالک مکان کو وقت پر ادا کی جائے گا۔ اور تحریری معاہدے کی صورت میں ٹھیکیدار تمام قواعد و ضوابط کا پابند ہوگا۔

- ◆ تعمیراتی کاموں کی ٹیمپ لگانے کے لیے عارضی زمین حاصل کرنے کے لئے مقامی رہائشیوں سے مشاورت اور دنوں کے حساب سے کرایہ اور اس کا مکمل طریقہ کار وضع کر کے باقاعدہ لکھا جائے گا۔ اور خلاف ورزی کی صورت میں ٹھیکیدار ذمہ دار ہوگا۔



سرگرمیاں

5. تعمیراتی کام اور ہیوی مشینری کا استعمال

مسائل

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

حفاظتی اقدامات

- ◆ تعمیراتی علاقے میں موجود ہسپتالوں، سکولوں رکالوجوں وغیرہ اور رہائشی گھروں ردکانوں کی تمام تفصیلات کی رپورٹ متعلقہ میونسپل کمیٹی کے دفتر میں موجود ہونی چاہئے جو کہ ٹھیکیدار کے کنٹریکٹ کا حصہ ہوگی۔ اور ٹھیکیدار ان تفصیلات کے مطابق ایسا پلان ترتیب دے گا جس سے ارد گردی عمارتوں پر ہائیکیوں اور ردکانوں کو کم سے کم پریشانی کا سامنا کرنا پڑے مثلاً زیادہ شور پیدا کرنے والے کام دن کے اس حصے میں کئے جائیں جب ہسپتالوں، اور سکولوں رکالوجوں وغیرہ کے مصروف اوقات کار نہ ہوں اور ایسے کام جن کی وجہ سے راستوں کی عارضی بندش ضروری ہوں وہ رات کو کیئے جائیں جب رہائشیوں کی آمدورفت نہ ہو۔
- ◆ تعمیراتی کاموں کے دوران پیدا شدہ فاضل پانی یا پورٹیل ٹوائلٹس کا پانی فضلہ وغیرہ کا محفوظ اور مناسب طریقے سے ٹھکانے لگانے کا بندوبست کیا جائے اور فاضل پانی کو پینے کے صاف پانی کے ساتھ شامل ہونے سے بچانے کا ہر ممکن قدم اٹھایا جائے۔
- ◆ دائرہ پلائی کی سکیموں یا ایسی تمام کام جن کی وجہ سے رہائشیوں کو پانی یا سیوریج وغیرہ میں عارضی بندش کا سامنا کرنا پڑ سکتا ہو، ایسے تمام کاموں کے آغاز سے پہلے رہائشیوں کو پیشگی اطلاع دی جائے اور متبادل انتظامات کا خطرہ خواہ انتظام کیا جائے۔
- ◆ تعمیراتی کاموں کی وجہ سے درختوں کی کٹائی سے ہر حال میں گریز کیا جائے اور ناگزیر صورت حال میں ایک درخت کی کٹائی کے متبادل کے طور پر چار درخت لگانا ضروری ہیں۔
- ◆ تعمیراتی جگہ پر پیدا ہونے والے کوڑا کرکٹ کو ٹھکانے لگانے کیلئے ڈسٹ بن لگائے جائیں اور ان کو روزانہ کی بنیاد پر متعلقہ میونسپل کمیٹی کی طرف سے مقرر کردہ مقام پر ٹھکانے لگایا جائے۔
- ◆ کوڑا کرکٹ اور فاضل پانی ارد گرد موجود فصلوں اور ندی نالوں میں پھینکنے سے گریز کریں۔
- ◆ گردوغبار اور ہوائی آلودگی کی صورت میں پانی کا باقاعدہ چھڑکاؤ کریں۔
- ◆ تعمیراتی کام کی مدت اور نوعیت کے مطابق کام کے آغاز سے پہلے، کام کے دوران اور کام کے بعد پانی کی آلودگی، ہوائی آلودگی اور آبی آلودگی کے نمونہ جات حاصل کر کے ان کی جانچ پڑتال کرنا ٹھیکیدار کی ذمہ داری ہے۔ اس سلسلے میں ریجنل آفس میں موجود ڈپٹی پروگرام آفیسر (ESS) سے مزید رہنمائی حاصل کریں۔
- ◆ تعمیراتی کام مکمل ہو جانے کے بعد علاقے کی صفائی ستھرائی اور ماحولیاتی خوبصورتی کا خاص خیال رکھیں اور پہلے سے بہتر حالت میں چھوڑیں۔

* سپریم کورٹ آف پاکستان کے سو موڈیس نمبر 25 برطانیہ 2009 حوالہ نمبر "کنگ آف نریز فار کینال دو ایڈجٹک پراجیکٹ لاہور" تعمیراتی کاموں کے دوران ہر ایک درخت کی کٹائی کے متبادل چار درخت لگانے کا حکم ہے۔

انوائٹمنٹ اینڈ سوشل سیف گارڈ ٹیم

پی ایم ڈی ایف سی

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

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

