



Local Government & Community Development Department

Punjab Cities Program Construction of General Bus Stand in Kamalia City

PC-I

Estimated Cost Million PKR. 113.033

October 2022

Municipal Committee Kamalia



JERS CONSULTANCY (PVT) LTD

(Formerly Jers Engineering Consultants)

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PC-I FORM
for
Construction of General Bus Stand (GSB) in Kamalia City

Project Serial Number

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

Sub Sector: **Social**

1. Name of the project	Punjab Cities Program Construction of General Bus Stand (GSB) in Kamalia city	
2. Location	Kamalia Town is located at 72°-39' East longitude and 30°-43' North latitude. The town is located at a distance of 105 km from Faisalabad, 240 km from Lahore, and 32 km from Toba Taik Singh. Location map of the city is attached in Annexure-A	
3. Authorities responsible for		
i- Sponsoring	Government of the Punjab (through World Bank funding)	
ii- Execution	Municipal Committee Kamalia.	
iii- Operation and Maintenance	Municipal Committee Kamalia.	
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 with allocation of PKR 1329.90 million as foreign component.
ii- If not included in the current plan, what warrants its inclusion and how it is now proposed to be accommodated	Not applicable
iii If the project is proposed to be financed out of block provision indicate.	The Project is being financed by World Bank as Donor along with 20% co-financing from the Program Units and is not proposed to be financed out of block allocation.
4b- Provision in the current year PSDP/ADP	PKR.1329.90 million
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 a General Bus Stand (GBS) in Kamalia City.</p> <p>The Project has the following objectives;</p> <ol style="list-style-type: none"> 1. Provision of disciplined travelling facilities to the people.

	<ol style="list-style-type: none"> 2. Provision of waiting facilities for the travelers in the form of respectable sitting, ablution & prayer, drinking water, toilets, shopping and ticketing. 3. Provision of car parking facilities to the public, 4. Rickshaw stand facilities 5. Revenue generation from shops and parking lot 6. Improvement in the air pollution in city area due to parking and waiting by the buses 7. Reduction in the traffic congestion created by buses at various locations of the city 8. Effective protection of the buses against the solar radiation and Ultraviolet rays, rain, hail, wind, and dust. 9. Slowing down the deterioration of buses, therefore reducing the amount of maintenance. 10. Improvement in the economic growth potential of the city. <p>Hence, the objectives of the project are in line with the sector objectives at Serial No-1, 2, 3 & 6 and the project forms integral part of the concerned sector.</p>
6. Description, justification, technical parameters and technology transfer aspects	
i. Present Condition	<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>At present, there is no appropriate parking space or departure lounge available for buses in Kamalia city and currently the buses are being parked on rental places and at many locations on roads in the city. This is creating congestion on various roads and chowks apart from compromise the safety of the busses and passengers.</p>
ii. Description of the subproject-	<p>The project comprises of construction of General Bus Stand (GBS) with total area of 9.16 Kanals on Chichwatni Road. Detail of the General Bus Stand has been given in the table below.</p>

<p>iii Detail of civil works, equipment & machinery and other physical facilities</p>	<p>The detail of General Bus Stand to be constructed in the city, is given below: Location: At Chichawatni Road near Jhakhar More Chowk</p> <table border="1" data-bbox="446 235 1388 1041"> <thead> <tr> <th>S. N.</th> <th>Detail of components</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>a) Bus Stand Main Building comprising of : <ul style="list-style-type: none"> • Waiting hall • Ticketing booths • Toilets • Ablution place • Prayer place • Tuck shop • Drinking water facilities </td> </tr> <tr> <td>2</td> <td>Parking sheds for buses</td> </tr> <tr> <td>3</td> <td>Workshop</td> </tr> <tr> <td>4</td> <td>Bus departure sheds</td> </tr> <tr> <td>5</td> <td>Car parking lot</td> </tr> <tr> <td>6</td> <td>Rickshaw stand</td> </tr> <tr> <td>7</td> <td>Shops</td> </tr> <tr> <td>8</td> <td>Water supply and drainage/sewerage facilities</td> </tr> <tr> <td>9</td> <td>Boundary wall and gates</td> </tr> <tr> <td>10</td> <td>Illumination & electrification</td> </tr> </tbody> </table>	S. N.	Detail of components	1	a) Bus Stand Main Building comprising of : <ul style="list-style-type: none"> • Waiting hall • Ticketing booths • Toilets • Ablution place • Prayer place • Tuck shop • Drinking water facilities 	2	Parking sheds for buses	3	Workshop	4	Bus departure sheds	5	Car parking lot	6	Rickshaw stand	7	Shops	8	Water supply and drainage/sewerage facilities	9	Boundary wall and gates	10	Illumination & electrification
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<p>iv Indicate governess issues of the sector relevant to the project and strategy to resolve them</p>	<ul style="list-style-type: none"> • MC Kamalia 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 MCs. 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. 																						
<p>7- Capital Cost of Project</p>	<p>The Summary Of The Works Included In The Project Is Given Below;</p> <table border="1" data-bbox="446 1579 1396 1960"> <thead> <tr> <th>S. No</th> <th>Components</th> <th>Cost (PKR Million)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>General Bus Stand</td> <td>68.847</td> </tr> <tr> <td>2</td> <td>External Illumination And Electrical Works</td> <td>12.261</td> </tr> <tr> <td>3</td> <td>Washing Pit</td> <td>0.516</td> </tr> <tr> <td>4</td> <td>Septic Tank</td> <td>0.312</td> </tr> <tr> <td>5</td> <td>External Plumbing Work</td> <td>0.433</td> </tr> </tbody> </table>	S. No	Components	Cost (PKR Million)	1	General Bus Stand	68.847	2	External Illumination And Electrical Works	12.261	3	Washing Pit	0.516	4	Septic Tank	0.312	5	External Plumbing Work	0.433				
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	8	Dismantling Works	0.054																					
	9	Environmental Health Safety Budget	0.212																					
			105.639																					
		Contingencies @2%	2.112																					
		Punjab Sales Tax @5%	5.281																					
		Grand Total	113.033																					
	See Annexure-B For Details																							
i- Indicate date of estimation of the project cost	The project estimates have been framed during the month of October, 2022																							
ii- Basis of determining the estimates be provided.	<p>The cost estimates have been framed on the basis of bill of quantities actually required at site and unit rates from the Market Rate System (MRS) issued by the Government of Punjab (District Toba Tek Singh 2nd biannual of year 2022).</p> <p>For items not available in the MRS, the same have been analyzed as per prevailing market rates.</p>																							
iii- Provide year wise estimation of physical activities	<p>The physical phasing is included in the following table:</p> <table border="1"> <thead> <tr> <th>S. #</th> <th>Works</th> <th>Year 2022-2023</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>General Bus Stand main building along with all allied facilities</td> <td>100%</td> </tr> <tr> <td>2</td> <td>Drainage System</td> <td>100%</td> </tr> <tr> <td>3</td> <td>Illumination and electrical works</td> <td>100%</td> </tr> <tr> <td>4</td> <td>Boundary wall and gates</td> <td>100%</td> </tr> <tr> <td>5</td> <td>Environmental Health Safety Budget</td> <td>100%</td> </tr> <tr> <td>6</td> <td>Contingencies & PRA Tax</td> <td>100%</td> </tr> </tbody> </table>			S. #	Works	Year 2022-2023	1	General Bus Stand main building along with all allied facilities	100%	2	Drainage System	100%	3	Illumination and electrical works	100%	4	Boundary wall and gates	100%	5	Environmental Health Safety Budget	100%	6	Contingencies & PRA Tax	100%
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iv- Phasing of capital cost on the basis of each item of work.	<p>The financial 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="454 224 1380 913"> <thead> <tr> <th>S. #</th> <th>Items of Bus Stand</th> <th>Total (Million Rs.)</th> <th>Year 2022-2023 (Million Rs.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>General Bus Stand</td> <td>68.847</td> <td>68.847</td> </tr> <tr> <td>2</td> <td>External Illumination And Electrical Works</td> <td>12.261</td> <td>12.261</td> </tr> <tr> <td>3</td> <td>Washing Pit</td> <td>0.516</td> <td>0.516</td> </tr> <tr> <td>4</td> <td>Septic Tank</td> <td>0.312</td> <td>0.312</td> </tr> <tr> <td>5</td> <td>External Plumbing Work</td> <td>0.433</td> <td>0.433</td> </tr> <tr> <td>6</td> <td>Tubewell</td> <td>2.549</td> <td>2.549</td> </tr> <tr> <td>7</td> <td>Boundary Wall and Gates</td> <td>20.451</td> <td>20.451</td> </tr> <tr> <td>8</td> <td>Dismantling Works</td> <td>0.054</td> <td>0.054</td> </tr> <tr> <td>9</td> <td>Environmental Health Safety Budget</td> <td>0.212</td> <td>0.212</td> </tr> <tr> <td></td> <td>PST and contingencies</td> <td>7.394</td> <td>7.394</td> </tr> <tr> <td></td> <td>Total project cost</td> <td>113.033</td> <td>113.033</td> </tr> </tbody> </table>	S. #	Items of Bus Stand	Total (Million Rs.)	Year 2022-2023 (Million Rs.)	1	General Bus Stand	68.847	68.847	2	External Illumination And Electrical Works	12.261	12.261	3	Washing Pit	0.516	0.516	4	Septic Tank	0.312	0.312	5	External Plumbing Work	0.433	0.433	6	Tubewell	2.549	2.549	7	Boundary Wall and Gates	20.451	20.451	8	Dismantling Works	0.054	0.054	9	Environmental Health Safety Budget	0.212	0.212		PST and contingencies	7.394	7.394		Total project cost	113.033	113.033
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8-Annual recurrent cost after completion of the project and source of financing	PKR Million 1.956 (Details are attached as Annexure-1)																																																
9- Demand & Supply Analysis i- Existing Capacity of services	<p>Existing supply level</p> <p>At present, there is no appropriate parking space or departure lounge available for buses in Kamalia city and currently the buses are being parked on rental places and at many locations on roads in the city. This is creating congestion on various roads and chowks apart from compromising the safety of the busses and passengers</p>																																																
ii- Projected Demand for 10 years	<ul style="list-style-type: none"> • The influence and value of bus stands in planning for livable communities is very essential. It 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 bus stands reduces the congestion on streets & roads and also generates revenue through the facilities it provides. The proposal is to construct a bus stand in Kamalia city for the easiness of operation and resultantly revenue generation. It would consist of several facilities for the users i.e., rest area, washrooms, waiting area, shops and vehicle parking. • The municipal services require radical improvement to enhance the efficiency of the service to increase service delivery to a satisfactory level. 																																																

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	<p>The nature of supply and demand gap has been explained in the preceding paras which concludes;</p> <ul style="list-style-type: none"> • In Kamalia City, project involves establishment of Bus Stand on a total area of 9.16 kanals near Jhakar Morr Chowk. Site includes construction of Main Office Building, Parking Shed for Buses, Shops and Car Parking Area. • There is no such existing facility at present and the buses are being parked or stationed at various locations on roads and in chowks which is creating congestions apart from compromising the safety of passengers. • As such there is large gap between the supply and demand. 												
v-Designed capacity and output of the project	<p>1. Table showing details of the Bus Stand is given below:</p> <table border="1" data-bbox="445 824 1425 1088"> <thead> <tr> <th>Location</th> <th>Area</th> <th>Facilities provided</th> </tr> </thead> <tbody> <tr> <td>Near Jhakar Morr Chowk</td> <td>9.16 Kanals</td> <td>Main waiting hall, ticketing booths, prayer area, drinking water facilities, shops, bus departure sheds, bus parking sheds, work shop, car parking lot, rickshaw stand, boundary wall & gate, water supply and sewerage system and allied facilities</td> </tr> </tbody> </table> <p>2. Buildings & Allied structures of the GBS are designed for 80-year life.</p> <p>3. Pre-fabricated Aluzinc Bus Shed of the GBS are designed for 28-year lfe.</p> <p>4. The Parking shed is designed for 10 Nos buses.</p> <p>5. Departure shed is designed for 3 buses.</p>	Location	Area	Facilities provided	Near Jhakar Morr Chowk	9.16 Kanals	Main waiting hall, ticketing booths, prayer area, drinking water facilities, shops, bus departure sheds, bus parking sheds, work shop, car parking lot, rickshaw stand, boundary wall & gate, water supply and sewerage system and allied facilities						
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<p>10. Financial Plan</p> <p>Sources of financing</p> <p><u>Debt</u></p> <p>a) Indicate the local and foreign debt Loan</p>	<p>Below given loan for the Punjab Cities Program has been funded by World Bank for 16 PCP cities in Punjab.</p> <table border="1" data-bbox="445 1480 1425 1883"> <tbody> <tr> <td>Total loan to Government of Pakistan/Punjab</td> <td>USD 200 million</td> </tr> <tr> <td>Component-1 for Infrastructure Development</td> <td>USD 180 million</td> </tr> <tr> <td>Component-2 for Investment Project Financing For capacity building of MCs & three Govt. organization and program management.</td> <td>USD 20 million</td> </tr> <tr> <td>20% share of Municipalities is equivalent to</td> <td>USD 36 million</td> </tr> <tr> <td>Total funds available for Infrastructure Development</td> <td>USD 216 million</td> </tr> <tr> <td colspan="2">This project will be funded under this financing.</td> </tr> </tbody> </table>	Total loan to Government of Pakistan/Punjab	USD 200 million	Component-1 for Infrastructure Development	USD 180 million	Component-2 for Investment Project Financing For capacity building of MCs & three Govt. organization and program management.	USD 20 million	20% share of Municipalities is equivalent to	USD 36 million	Total funds available for Infrastructure Development	USD 216 million	This project will be funded under this financing.	
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	<p>A. Loan/grant to MC</p>												

b) Equity	<p>The amount of loan converted to grant to Kamalia Unit will be Rs 90.427 Million. The financing of the project will be as given below:</p> <table border="1" data-bbox="491 226 1385 353"> <tr> <td>Grant to MC (80% of cost of PC-I)</td> <td>Rs. 90.427 Million</td> </tr> <tr> <td>20% Co-finance by MC</td> <td>Rs. 22.606 Million</td> </tr> <tr> <td>Total cost of project</td> <td>Rs.113.033 Million</td> </tr> </table> <p>B. Project Cost Rs. 113.033 million</p> <p>*The loan is from World Bank to Government of Pakistan/Punjab which will trickle down to Kamalia Unit as grant.</p>	Grant to MC (80% of cost of PC-I)	Rs. 90.427 Million	20% Co-finance by MC	Rs. 22.606 Million	Total cost of project	Rs.113.033 Million
Grant to MC (80% of cost of PC-I)	Rs. 90.427 Million						
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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	<p>It is a social sector project and the capital cost of the project is not intended to be recovered. However, the O&M cost of the GBS will be recovered by imposition of adda fee on the buses in addition to rent of sector shops. The project economic financial analysis is given as Annexure-C.</p> <ul style="list-style-type: none"> • The economic analysis of the project is given as Annexure-C. 						
ii. Social benefits to the target group	<p>The completion of the project will result in:</p> <ol style="list-style-type: none"> 1. Provision of disciplined travelling facilities to the people. 2. Provision of waiting facilities for the travelers in the form of respectable sitting, ablution & prayer, drinking water, toilets, shopping and ticketing. 3. Provision of car parking facilities to the public, 4. Rickshaw stand facilities 5. Revenue generation from shops and parking lot 6. Improvement in the air pollution in city area due to parking and waiting by the buses 7. Reduction in the traffic congestion created by buses at various locations of the city 8. Effective protection of the buses against the solar radiation and Ultraviolet rays, rain, hail, wind, and dust. 9. Slowing down the deterioration of buses, therefore reducing the amount of maintenance. 10. Improvement in the economic growth potential of the city 11. Improvement in the environment of the city. 12. Minimized public mental tension and frustration. 13. Easiness for the operators. 						

	<p>14. Facilities to the travelers.</p> <p>15. Revenue generation from the facilities provided to the users.</p> <p>16. Improved local economy.</p> <p>17. Improvement of city growth potential.</p>
iii.Environmental Impact negative/positive	<p>Primary and secondary data has been collected and used to assess the environmental impacts of the proposed Bus Stand construction. Site visit was conducted to the project area for the proposed works to examine the project area 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 shed and main building. This 'activity wise' screening enabled to obtain a clear picture of the expected level of impacts resulting from the different activities and helped identify required mitigation measures to mitigate them to within acceptable limits as per the guidelines provided by the World Bank in the form of Environment and Social Management Framework. However, the impacts will be temporary and there will be no negative impacts after completion of the project, rather, during the operation phase of the Bus Stand, mostly positive impacts are expected as to effectively manage odor and waste water generated from machinery washing.</p> <p>To facilitate the selection of an optimal solution and for the inclusion of Safe Operating Procedures for Construction workers/labors; assessment indicators or an Environmental Screening 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).</p> <p>The social benefits to the citizen have been described at Sr. No-11(ii).</p>



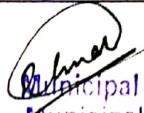

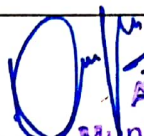
v. Unit cost analysis	<p>The unit cost analysis is produced below;</p> <p>A-Unit Capital Cost</p> <table border="1" data-bbox="502 246 1348 369"> <tr> <td>Project capital cost</td> <td>PKR 112.975 million</td> </tr> <tr> <td>Population of the city in year 2023</td> <td>425,593 persons</td> </tr> <tr> <td>Unit capital cost per capita</td> <td>PKR 265.59</td> </tr> </table> <p>B-Unit O&M cost;</p> <table border="1" data-bbox="502 448 1348 571"> <tr> <td>Annual O&M cost</td> <td>PKR 1.956 million</td> </tr> <tr> <td>Population of the city in year 2023</td> <td>425,593 persons</td> </tr> <tr> <td>Unit O&M cost per capita</td> <td>PKR 4.60</td> </tr> </table>	Project capital cost	PKR 112.975 million	Population of the city in year 2023	425,593 persons	Unit capital cost per capita	PKR 265.59	Annual O&M cost	PKR 1.956 million	Population of the city in year 2023	425,593 persons	Unit O&M cost per capita	PKR 4.60
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vi. Employment generation (direct and indirect)	<p><u>Employment Analysis</u></p> <p>Direct Employment</p> <p>a) <i>Planning and Design of projects</i></p> <p>The planning and design of the project has been entrusted to local consultants (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) <i>Execution of the Project</i></p> <p>a) <i>PMDFC</i></p> <p>PMDFC has the project monitoring and supervisory role and the company has enough experts and staff to complete this assignment. PMDFC has already deployed under mentioned staff for these projects:</p> <ul style="list-style-type: none"> • Civil Engineers • Accounts, administration and audit personnel • Urban planners • GIS experts • Support staff like computer operators, vehicle drivers, office boys and guards. • Procurement experts • Communication experts • Environmental and social experts • Contract management experts <p>b) <i>Consultants</i></p> <p>PMDFC has employed consultants for detailed design and resident supervision of the projects who will deploy their staff for execution of the project.</p> <p>c) <i>Municipality</i></p>												

v. Unit cost analysis	<p>The unit cost analysis is produced below;</p> <p>A-Unit Capital Cost</p> <table border="1" data-bbox="504 248 1362 371"> <tr> <td>Project capital cost</td> <td>PKR 112.975 million</td> </tr> <tr> <td>Population of the city in year 2023</td> <td>425,593 persons</td> </tr> <tr> <td>Unit capital cost per capita</td> <td>PKR 265.59</td> </tr> </table> <p>B-Unit O&M cost;</p> <table border="1" data-bbox="504 450 1362 573"> <tr> <td>Annual O&M cost</td> <td>PKR 1.956 million</td> </tr> <tr> <td>Population of the city in year 2023</td> <td>425,593 persons</td> </tr> <tr> <td>Unit O&M cost per capita</td> <td>PKR 4.60</td> </tr> </table>	Project capital cost	PKR 112.975 million	Population of the city in year 2023	425,593 persons	Unit capital cost per capita	PKR 265.59	Annual O&M cost	PKR 1.956 million	Population of the city in year 2023	425,593 persons	Unit O&M cost per capita	PKR 4.60
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	<p>MC Kamalia has regular staff like engineers, sub engineers and other administrative & accounts keeping staff which will be responsible for execution of the project and contract management. No additional staff will be needed for execution of this project</p> <p>d) Contractor The contractor responsible for execution of the sub project will employ skilled and un-skilled labor on this work.</p> <p>Indirect Employment Indirect employment for production of material such as cement, steel, stone metal, bitumen, bricks etc. will be generated.</p>
vii. Impacts of delays on project cost and viability	<p>The impact of delay in project implementation will;</p> <ul style="list-style-type: none"> • Result in increased project cost due to escalation in cost of material and labor. • Delay the benefits to the target group • Increase traffic congestions in the city at various locations
12-Implementation Schedule	
a) Indicate starting and completion date of the project	The project is anticipated to commence by January 2023 and to be completed by August 2023 with project implementation period of 08 months.
b) Item wise/year wise schedule in line chart	The Gant chart has been attached at Annexure-D
13- Management Structure and manpower requirements	
i. Administrative arrangements for the implementation of the project	<p>i. 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>ii. 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>iii. Execution of the project</p> <ul style="list-style-type: none"> • The project will be executed by MC Kamalia 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.

	<ul style="list-style-type: none"> • MO (I&S) of 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 Kamalia Unit as per PPRA Rules. <p>iv. Verification of quantities included in PC-Is and Resident Supervision of the works by consultants</p> <p>The works will be supervised by Supervision Consultants in resident supervision mode by assuring the quantity and quality of works. The consultants will verify the items of work and their quantities contained in the PC-Is and cost estimates initially and then the quantities and quality of works included in the contractor claims at the stage of payments. Payments will be made by the MC after these contractor claims have been entered in the measurement books by the Project Manager/Engineer in Charge and pre audited as per LG Works Rules.</p>																
<p>ii- The manpower requirements by skills during execution and operation of the project and; The job description, qualification, experience, age and salary of each post</p>	<p>a) PMDFC experts and staff</p> <p>For rendering assistance in implementation of infrastructure projects in 16 MCs, PMDFC has the experts and staff in the required fields. In order to facilitate the Program Units, three regional offices have been established by PMDFC at Gujranwala, Faisalabad and Multan/Khanewal.</p> <p>b) Resident Supervision Consultants</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="486 1317 1359 1886"> <thead> <tr> <th>S #</th> <th>Personnel</th> <th>Nos</th> <th>Qualification</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Chief Resident Engineer/Team Leader</td> <td>01</td> <td>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>2</td> <td>Assistant Resident Engineer</td> <td>01</td> <td>Bachelor Degree in Civil engineering with minimum 8 years' experience in site supervision and execution for projects of similar nature</td> </tr> <tr> <td>3</td> <td>Site Inspectors</td> <td>01</td> <td>DAE in Civil with minimum 10 years' experience in site supervision for projects of similar nature</td> </tr> </tbody> </table>	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
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3	Site Inspectors	01	DAE in Civil with minimum 10 years' experience in site supervision for projects of similar nature														

	<p>c) Contractor's Technical staff, skilled & non skilled labor The contractors will employ the supervisory technical staff and skilled & non skilled labor for execution of works. The works will be supervised by experienced Engineers and sub engineers and the number of slots for engineers and skilled and non-skilled will depend upon the type and quantity of work and its period of completion.</p> <p>d) Repair & maintenance of the project MC has its own regular staff which has been deployed for repair and maintenance of the municipal services infrastructure. However, it has been observed that the existing staff is not adequate to repair and maintain the services in a manner which can give good service delivery. Hence it is proposed to;</p> <ul style="list-style-type: none"> • Fill up the presently vacant slots • Recruit additional staff as per need of the infrastructure after obtaining the sanctions from the competent authorities.
<p>14-Additional projects /decisions required to optimize the investment being undertaken</p>	<p>1) Shortage & frequent transfers of Provincially appointed staff MC is facing shortage in provincially appointed and locally appointed cadres. This will seriously affect the pace of progress of the program and the implementation of the infrastructure projects may be delayed. Provincial Government should fill up the vacant staff immediately for optimizing the investments in MC.</p> <p>2) Repair & Maintenance (R&M) staff The R&M staff is also deficient and this is adversely affecting the service delivery level. Number of slots are vacant but MC is not allowed to recruit the persons to fill these slots due to ban on recruitments. Further the sanctioned strength of the field staff is much lesser than the actual requirement because with the increase in population and extension of services, additionally required staff has not been sanctioned by the competent authorities. Both of the above issues need to be addressed for optimal utilization of the investments and giving targeted benefits to the resident population of these cities.</p>
<p>15-Certificate</p>	<p>Certified that the project proposal has been prepared on the basis of guidelines provided by the Planning Commission for the preparation of PC-I for social sectors projects.</p>

Prepared by	JERS Consultancy (Pvt) Ltd	Stamp & Signatures	 
Checked by	Municipal Officer (Infrastructure) MC Kamalia	Stamp & Signatures	 Municipal Officer (I&S) Municipal Committee Kamalia
	Chief Officer MC Kamalia	Stamp & Signatures	 Chief Officer Municipal Committee Kamalia
Forwarded by	Administrator MC Kamalia	Stamp & Signatures	 Administrator Municipal Committee Kamalia
Vetted By	Senior Program Officer (PMDFC)	Stamp & Signatures	

Program Officer-1
Infrastructure Development
Punjab Cities Program-Lahore

vetted


Senior Program Officer
Infrastructure Development
Punjab Cities Program

5/12/22

Annexure-1

Annual Recurrent Cost

Annual Recurrent Cost after Completion of the Project

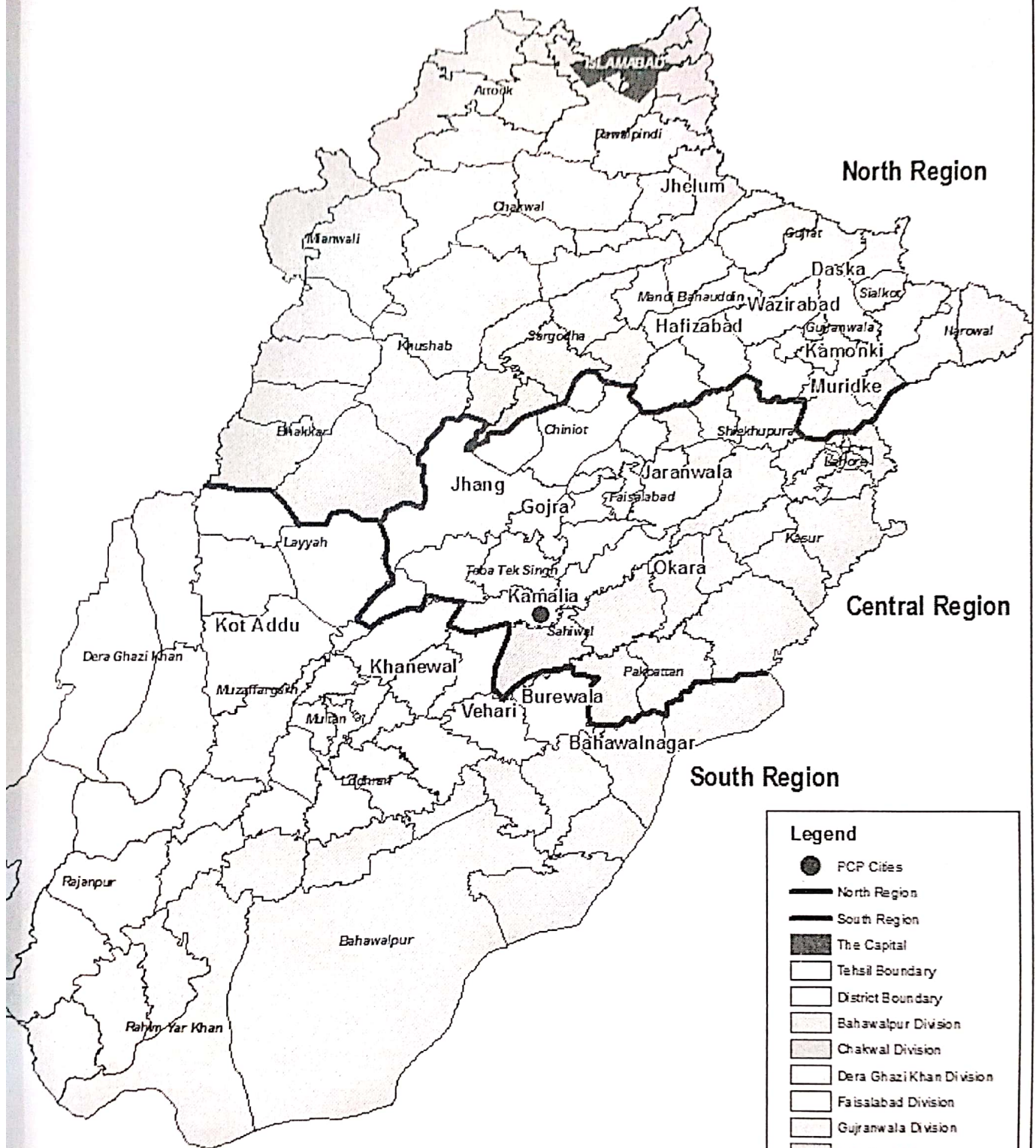
Cost Category	Cost Breakup	Cost per Annum
Annual Maintenance Cost of the Civil Works	1% of Project Cost = $0.01 * (105,639,237)$	1,056,392.370
Annual Man Power Cost of Three Guard	$Rs.25,000 * 3 = 75000/month$	900,000
Total cost per Annum (Million Rs.)		1.956

Annexure-A

Location Map

Location Map (Punjab Cities Program)

ANNEXURE - A



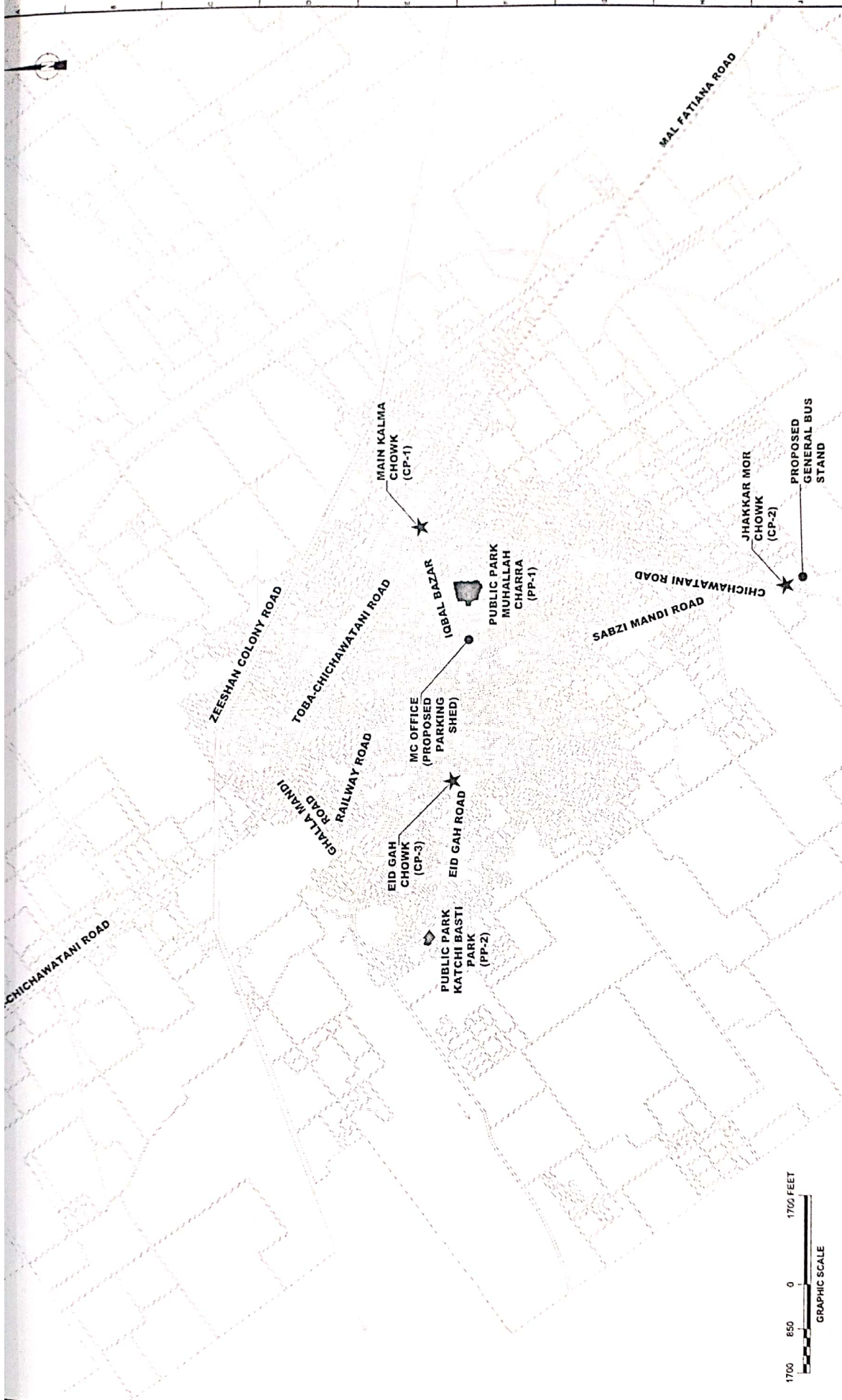
Legend



- FCP 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



18
Local Government & Community Development Department, Government of The Punjab





CLIENT:  PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS:  JERS CONSULTANCY (PVT) LTD <small>24-CAN, Canal, Gumbaz Park, Town, Dera Ghokher, Lahore (Punjab)</small> <small>Tel: 042-3533325</small> <small>Fax: 042-3533325</small> <small>Email: info@jers.com.pk, web@jers.com.pk</small> <small>Web: www.jers.com.pk</small>	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB.	DRAWING TITLE: PROJECT AREA KEY PLAN (KAMALIA CITY)	DRAWING NO: TS-01	DRAWN BY: AJ	CHECKED BY: MASEEB	DATE: May, 2022	SHEET: 1 OF 1	JOB NO: 48601
					UNIT-FOOT 1"=1700'	REC'D BY: 	DATE: 	SHEET: 	JOB NO:

Annexure-B

Detailed Cost Estimate



Local Government & Community Development Department

Punjab Cities Program Construction of General Bus Stand in Kamalia City

Detailed Cost Estimate

October 2022

Municipal Committee Kamalia



JERS CONSULTANCY (PVT) LTD
(Formerly Jers Engineering Consultants)

24-Civic Center, Qasid-e-Azzam Town, Township, Lahore (Pakistan)
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Web: http://www.jers.com.pk

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

DETAILED COST ESTIMATE

GENERAL BUS STAND (KAMALIA)

SUMMARY

Sr. No.	Description	Amount (Rs)
1	WAITING HALL	
i	Civil Work <i>Detail attached</i>	22,330,775 ✓
ii	Plumbing Work <i>-do-</i>	404,845 ✓
iii	Electrical Work <i>-do-</i>	2,877,210 ✓
2	SHOP BLOCK "A"	
i	Civil Work <i>Detail attached</i>	6,200,471 ✓
iii	Electrical Work <i>-do-</i>	1,316,476 ✓
3	SHOP BLOCK "B"	
i	Civil Work <i>Detail attached</i>	8,149,963 ✓
iii	Electrical Work <i>-do-</i>	955,318 ✓
4	BUS PARKING SHED	
i	Civil Work <i>Detail attached</i>	25,421,181 ✓
iii	Electrical Work <i>-do-</i>	1,191,402 ✓
5	WASHING PIT	516,137 ✓
6	SEPTIC TANK	312,910 ✓
7	EXTERNAL WORK (BOUNDARY WALL + TUFF RIVER + LAWN)	20,451,757 ✓
8	EXTERNAL PLUMBING WORK	433,203 ✓
9	EXTERNAL ELECTRICAL WORK	12,261,788 ✓
10	TUBEWELL	2,549,484 ✓
11	DISMANTLING WORK	54,216 ✓
12	ENVIRONMENTAL MITIGATION COST	212,100 ✓
	Total Rs.	105,639,237 ✓
	Contingencies @ 2%	2,112,785 ✓
	PRA Charges @ 5%	5,281,962 ✓
	Total Amount. Rs.	113,033,984 ✓

Estimate Technically vetted.

Chief Engineer (North)
Punjab Local Govt Board
LG & C.D. Deptt.
LAHORE

22
5/24/12
D.M

Adat

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

DETAILED COST ESTIMATE

WAITING HALL

CIVIL WORK

Sr No	2nd BI-Annual-2022 (July to Dec) Toba tek singh	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	7.80	10,677.75	83,286
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/ Biflex/ Terminex Exin / Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or 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	12,250.44	9.25	113,317
		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	7.47	28,986.90	216,532
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	21.93	29,326.30	643,126
		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	3.71	8,639.45	32,052
		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	4.94	6,459.70	31,911

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
WAITING HALL
CIVIL WORK

Sr No	2nd BI-Annual-2022 (July to Dec) Toba tek singh	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	44.26	31,510.10	1,394,637
		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	1,075.00	457.75	492,081
		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	5,103.40	556.50	2,840,041
		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	235.47	31,784.50	7,484,296
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	42.56	2,943.30	125,267

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

DETAILED COST ESTIMATE

WAITING HALL

CIVIL WORK

Sr No	2nd BI-Annual-2022 (July to Dec) Toba tek singh	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	14.04	8,891.50	124,837
		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	7.09	38,178.90	270,688
		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 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	Per Sft	4,061.00	211.60	859,308
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 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	Per Sft	210.54	292.75	61,636
		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 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	195.00	240.00	46,800

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
WAITING HALL
CIVIL WORK

Sr No	2nd BI-Annual-2022 (July to Dec) Toba tek singh	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	1,339.50	292.75	392,139
		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	42.56	3,708.60	157,838
		Cement Plaster				
18	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	96.45	4,379.60	422,412
		Pointing				
19	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2	100 Sft	45.90	3,518.35	161,492
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	45.90	652.50	29,950
		Distempering				
21	11/23	Distempering:- iii) three coats	100 Sft	139.01	1,295.00	180,018
		False Ceiling				
22	9/49	P/L false ceiling comprising of 5/8" thick plaster of paris sheet of required size in approved design with one line of 6" wide niche all around, hanging with Copper wire (16 SWG) duly enriched with POP and flaxen i/c the cost of making space for rope light /screws/ jute /making holes for lights and rawal plugs complete in all respects as approved and directed by the Incharge. (Measurement will be made as per carpet Area).	P.Sft	4,300.00	133.45	573,835

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

DETAILED COST ESTIMATE

WAITING HALL

CIVIL WORK

Sr No	2nd BI-Annual-2022 (July to Dec) Toba tek singh	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	283.50	1,930.15	547,198
		Lock				
24	12/22	Providing and fixing, approved quality mortice lock.	Each	14.00	771.50	10,801
		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	5.67	1,292.00	7,326
		ii) Second coat	100 Sft	5.67	711.40	4,034
		Aluminium Doors				
26	25/51	Providing and fixing all types of partly fixed and partly openable glazed anodised bronze colour aluminium doors, using delux section of M/s Al-Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1½" x 4") and leaf frame of 60x40mm (2½"x1½") wide sections including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge.	Per Sft	166.50	1,437.60	239,360

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
WAITING HALL
CIVIL WORK

Sr No	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Steel Window				
27	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	767.50	1,081.95	830,397
		Glass Partition				
28	25/57	Providing and fixing aluminium glazed partition of anodized bronze colour using section of M/s. Al-Cop/ Pakistan Cable having 2 mm thick Frame size D48-A , i/c 12 mm tinted TEMPERED glass with sand blasting and edge polishing i/c the cost of tear resistance film, rubber gasket and hardware etc. complete in all respect as approved and directed by the Engineer Incharge.(Floor hinge will be paid separately)	Per Sft	210.00	1,242.45	260,915
		Roof Insulation				
29	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	42.56	11,317.60	481,677
30	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	4,256.00	7.85	33,410
		Khurras				
31	9/15	Khurras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	4.00	855.00	3,420

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DETAILED COST ESTIMATE

WAITING HALL

CIVIL WORK

Sr No	2nd BI-Annual 2022 (July to Dec) Toba tek singh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Bottom Khuras				
32	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	4.00	1,744.00	6,976
33	1/1 Rate Analysis	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.	Cft	6,768.84	104.21	705,364
		Parking Shed				
34	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	1,368.00	1,800.00	2,462,400
		Total Rs.				22,330,775

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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.						
	Wall length 9 inch thick	1	454.00	2.50	2.50	2,837.50	Cft
	Toilet wall	1	40.00	2.50	2.50	250.00	Cft
	Circular Columns	8	5.50	5.50	4.58	1,108.36	Cft
	Square Columns	24	5.50	5.50	4.58	3,325.08	Cft
	Shed Footing	4	5.00	3.00	4.58	274.80	Cft
					Total	7,795.74	Cft
					Total	7.80	%oCft
	Anti-Termite						
2	Spraying termite proofing by using liquid FMC/ Biflex/ Terminex Exin / Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or 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.						
	Wall length 9 inch thick	1	454.00	7.50		3,405.00	Sft
	Toilet wall	1	40.00	7.50		300.00	Sft
	Circular Columns	8	22.00	4.58		806.08	Sft
		8	5.50	5.50		242.00	Sft
	Square Columns	24	22.00	4.58		2,418.24	Sft
		24	5.50	5.50		726.00	Sft
	Shed Footing	4	16.00	4.58		293.12	Sft
		4	5.00	3.00		60.00	Sft
	Floor area	1	4,000	1.00		4,000.00	Sft
					Total	12,250	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						
	Wall length 9 inch thick	1	454.00	2.50	0.33	374.55	Cft
	Toilet wall	1	40.00	2.50	0.33	33.00	Cft
	Circular Columns	8	5.50	5.50	0.33	79.86	Cft
	Square Columns	24	5.50	5.50	0.33	239.58	Cft

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CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Shed Footing	4	5.00	3.00	0.33	19.80	Cft
					Total	746.79	Cft
					Total	7.47	%Cft
	Brick work in Foundation						
4	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5						
	Wall length 9 inch thick						
	Step - 1	1	454.00	1.875	0.25	212.81	Cft
	Step - 2	1	454.00	1.500	0.25	170.25	Cft
	Step - 3	1	454.00	1.125	0.25	127.69	Cft
	Step - 4	1	454.00	0.750	4.42	1,505.01	Cft
	Toilet wall						
	Step - 1	1	40.00	1.875	0.25	18.75	Cft
	Step - 2	1	40.00	1.500	0.25	15.00	Cft
	Step - 3	1	40.00	1.125	0.25	11.25	Cft
	Step - 4	1	40.00	0.750	4.42	132.60	Cft
					Total	2,193.36	Cft
					Total	21.93	%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)						
	Wall length 9 inch thick	1	454.00	0.75		340.50	Sft
	Toilet wall	1	40.00	0.75		30.00	Sft
					Total	370.50	Sft
					Total	3.71	%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)						
	Wall length 9 inch thick	1	454.00		1.00	454.00	Sft
	Toilet wall	1	40.00		1.00	40.00	Sft
					Total	494.00	Sft
					Total	4.94	%Sft

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CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Brick work in Super Structure						
7	Paeca brick work in ground floor:- i) Cement, sand mortar:- Ratio 1:5						
	Wall length 9 inch thick	1	454.00	0.75	14.00	4,767.00	Cft
	Toilet wall	1	40.00	0.38	14.00	210.00	Cft
	Parapet Wall	1	270.00	0.38	3.00	303.75	Cft
	Entrance step	2	12.00	1.00	0.75	18.00	Cft
	D/d Doors and Window						
	DW-1	-2	8.00	0.75	7.50	(90.00)	Cft
		-2	3.88	0.75	6.00	(34.88)	Cft
	D-1	-3	3.50	0.75	7.00	(55.13)	Cft
	D-2	-5	3.00	0.75	7.00	(78.75)	Cft
	D-3	-6	2.50	0.38	7.00	(39.38)	Cft
	W-1	-2	14.50	0.75	6.00	(130.50)	Cft
	W-2	-2	12.63	0.75	6.00	(113.63)	Cft
	W-3	-2	8.00	0.75	6.00	(72.00)	Cft
	W-4	-8	6.00	0.75	6.00	(216.00)	Cft
	W-5	-2	4.00	0.75	6.00	(36.00)	Cft
	V-1	-2	2.50	0.70	2.00	(7.00)	Cft
					Total	4,425.50	Cft
					Total	44.26	%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:-						
	Circular Columns	8	5.00	5.00	1.25	250.00	Cft
	Square Columns	24	5.00	5.00	1.25	750.00	Cft
	Shed Footing	4	5.00	3.00	1.25	75.00	Cft
					Total	1,075.00	Cft

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CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	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	76.00	56.00	0.50	2,128.00	Cft
	Plinth Beams	1	716.00	1.00	1.50	1,074.00	Cft
	Slab beams	1	716.00	1.00	1.50	1,074.00	Cft
	Circular Columns	8	0.79	1.00	20.00	125.68	Cft
	Square Columns	24	1.00	1.00	20.00	480.00	Cft
	Shed Footing	8	1.00	1.00	6.00	48.00	Cft
	Sun shades						
	W-1	2	15.50	1.50	0.25	11.63	Cft
	W-2	2	13.63	1.50	0.25	10.22	Cft
	W-3	2	9.00	1.50	0.25	6.75	Cft
	W-4	8	7.00	1.50	0.25	21.00	Cft
	W-5	2	5.00	1.50	0.25	3.75	Cft
	Doors and window Lintels						
	DW-1	2	9.00	0.75	0.75	10.13	Cft
		2	4.88	0.75	0.75	5.48	Cft
	D-1	3	4.50	0.75	0.75	7.59	Cft
	D-2	5	4.00	0.75	0.75	11.25	Cft
	D-3	6	3.50	0.38	0.75	5.91	Cft
	W-1	2	15.50	0.75	0.75	17.44	Cft
	W-2	2	13.63	0.75	0.75	15.33	Cft
	W-3	2	9.00	0.75	0.75	10.13	Cft
	W-4	8	7.00	0.75	0.75	31.50	Cft
	W-5	2	5.00	0.75	0.75	5.63	Cft
					Total	5,103.40	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)					6,178.40	Cft
	Top Slab, columns and Beams @ 8 lbs / Cft		8.00		=	49,427.19	lbs/cft
				Total	=	49,427.19	lbs/cft
				Total	=	22,426.13	Kg.
				Add 5% Wastage.	=	1,121.31	Kg.
				Total	=	23,547	Kg
				Total		235.47	%kg

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CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Sand Filling						
10	Supplying and filling sand under floor; or plugging in wells.						
	Floor	1	76.00	56.00	1.00	4,256.00	Cft
					Total	4,256.00	Cft
					Total	42.56	%Cft
	Brick ballast						
11	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.						
	Floor	1	76.00	56.00	0.33	1,404.48	Cft
					Total	1,404.48	Cft
					Total	14.04	%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	76.00	56.00	0.17	709.33	Cft
					Total	7.09	%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	76.00	56.00		4,256.00	Sft
	Toilet floor area d/d	-2	9.75	10.00		(195.00)	Sft
					Total	4,061.00	Sft

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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	2	454.00		0.33	299.64	Sft
	Outer Wall D/d	-1	270.00		0.33	(89.10)	Sft
					Total	210.54	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"	2	10.00	9.75		195.00	Sft
					Total	195.00	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"						
		12	3.00		7.00	252.00	Sft
		12	5.00		7.00	420.00	Sft
		4	5.00		7.00	140.00	Sft
		4	10.00		7.00	280.00	Sft
	Ablution Area on walls	1	49.50		5.00	247.50	Sft
					Total	1,339.50	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	76.00	56.00		4,256.00	Sft
					Total	42.56	%Sft

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CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Cement Plaster							
18	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick						
	Wall length 9 inch thick	2	454.00		14.00	12,712.00	Sft
	Toilet wall	2	40.00		14.00	1,120.00	Sft
	Parapet Wall	1	270.00		3.00	810.00	Sft
	Outer wall Outer side d/d	-1	270.00		14.00	(3,780.00)	Sft
	D/d Doors and Window						
	DW-1	-2	8.00		7.50	(120.00)	Sft
	0	-2	3.88		6.00	(46.50)	Sft
	D-1	-3	3.50		7.00	(73.50)	Sft
	D-2	-5	3.00		7.00	(105.00)	Sft
	D-3	-6	2.50		7.00	(105.00)	Sft
	W-1	-2	14.50		6.00	(174.00)	Sft
	W-2	-2	12.63		6.00	(151.50)	Sft
	W-3	-2	8.00		6.00	(96.00)	Sft
	W-4	-8	6.00		6.00	(288.00)	Sft
	W-5	-2	4.00		6.00	(48.00)	Sft
	V-1	-2	2.50		2.00	(10.00)	Sft
					Total	9,644.50	Sft
					Total	96.45	%Sft
Pointing							
19	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:-						
	a) ratio 1:2						
	Outer Walls	1	270.00		14.00	3,780.00	Sft
	Parapet Wall	1	270.00		3.00	810.00	Sft
					Total	4,590.00	Sft
					Total	45.90	%Sft
20	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
					Total	45.90	%Sft
Distempering							
21	Distempering:-						
	iii) three coats						
	Walls Plaster Area					96.45	%Sft
	Soffit Plaster Area					42.56	%Sft
					Total	139.01	%Sft

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CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
22	P/L false ceiling comprising of 5/8" thick plaster of paris sheet of required size in approved design with one line of 6" wide niche all around, hanging with Copper wire (16 SWG)duly enriched with POP and flaxen i/e the cost of making space for rope light /screws/ jute /making holes for lights and rawal plugs complete in all respects as approved and directed by the Incharge. (Measurement will be made as per carpet Area).						
	Total Area	1	4,300	1.00		4,300	Sft
					Total	4,300.00	Sft
	Wooden Door						
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-2	3	3.50		7.00	73.50	Sft
	D-3	5	3.00		7.00	105.00	Sft
	D-4	6	2.50		7.00	105.00	Sft
					Total	283.50	Sft
	Lock						
24	Providing and fixing, approved quality mortice lock.	14				14.00	Each
	Paint						
25	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-						
	i) priming coat.						
	ii)Second coat						
					Total	5.67	Sft

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CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Aluminium Doors							
26	Providing and fixing all types of partly fixed and partly openable glazed anodised bronze colour aluminium doors, using delux section of M/s Al-Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1½" x 4") and leaf frame of 60x40mm (2½"x1½") wide sections including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge.						
	DW-1	2	8.00		7.50	120.00	Sft
		2	3.88		6.00	46.50	Sft
					Total	166.50	Sft
Steel Window							
27	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	2	14.50		6.00	174.00	Sft
	W-2	2	12.63		6.00	151.50	Sft
	W-3	2	8.00		6.00	96.00	Sft
	W-4	8	6.00		6.00	288.00	Sft
	W-5	2	4.00		6.00	48.00	Sft
	V-1	2	2.50		2.00	10.00	Sft
					Total	767.50	Sft

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Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Glass Partition							
28	Providing and fixing aluminium glazed partition of anodized bronze colour using section of M/s. Al-Cop/ Pakistan Cable having 2 mm thick Frame size D48-A , i/c 12 mm tinted TEMPERED glass with sand blasting and edge polishing i/c the cost of tear resistance film, rubber gasket and hardware etc. complete in all respect as approved and directed by the Engineer Incharge.(Floor hinge will be paid separately)	1	35.00		6.00	210.00	Sft
					Total	210.00	Sft
Roof Insulation							
29	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	76.00	56.00		4,256.00	Sft
					Total	4,256.00	Sft
					Total	42.56	%Sft
30	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.						
	ii) 500 gauge (.005" thick)				Total	4,256.00	Sft
Khurras							
31	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	4				4.00	Each
Bottom Khuras							
32	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	4				4.00	Each
Parking Shed							

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CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
33	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	76.00	18.00		1,368	Sft

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PLUMBING WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	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	4.00	2,218.35	8,873
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	4.00	2,649.35	10,597
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	4.00	5,169.95	20,680
4	19-30	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	Each	4.00	2,228.75	8,915
6	19-16	Providing and fixing, chromium plated soap dish.	Each	4.00	278.75	1,115
8	19-20	Providing and fixing looking glass 55x40 cm (22"x16") size	Each	4.00	638.15	2,553
9	19-27	Providing and fixing chromium plated bib cock:-				
		i) 2 cm (¾")	Each	4.00	1,015.00	4,060
10	19-28	Providing and fixing chromium plated tee stop cock 15mm (½").	Each	4.00	955.00	3,820
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	4.00	627.95	2,512
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	2.00	1,096.85	2,194

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PLUMBING WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
13	19-35-ii	Providing and fitting "P" trap:- ii) 10 cm (4") glazed.	Each	10.00	283.15	2,832
		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 directed by Engineer Incharge.(Internal / External Diameters mentioned).				
		b) PN-20 pipe				
		(ii) (3/4") 25 mm	Rft	120.00	66.50	7,980
		(iii) (1") 32 mm	Rft	150.00	106.90	16,035
		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	2.00	1,434.00	2,868
		iii) 1" dia	Each	2.00	1,674.00	3,348
		uPVC Pipe				
16	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	30.00	88.45	2,654
		(v) 4"(110 mm)	Rft	250.00	217.25	54,313

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PLUMBING WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		HDPE Tank				
17	19/51	Providing and hoisting vertical /horizontal type storage tank of 1000 Gallons capacity made of rotationally molded from (HDPE), double ply polyethylene 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	2,000.00	106.60	213,200
		Total Rs. (A)				368,547
		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	2.00	18,148.97	36,298
		Total Rs. (B)				36,298
		Total Amount Rs. (A + B)				404,845

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ELECTRICAL WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
Scheduled Items (A)						
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.	2,000.00	81.70	163,400
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.	3,000.00	94.60	283,800
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.	5,000.00	25.70	128,500
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.	4,500.00	40.75	183,375
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.	1,600.00	53.80	86,080
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	40.00	270.60	10,824

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ELECTRICAL WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
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	20.00	372.35	7,447
8	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	70.00	87.35	6,115
9	C-24/36-i	Supply and erection of 3 pin switch and Plug combined, recessed type. (5Amps)	Each	5.00	112.00	560
10	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	30.00	149.80	4,494
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	10.00	2,164.65	21,647
12	C-24/102/a	Providing and fixing Copper wined 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	5.00	3,133.00	15,665
DATA CABLING SYSTEM						
13	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharies and repairing surface etc. completed with all specials. (25 mm i/d)	Rft.	1,600.00	94.60	151,360

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ELECTRICAL WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
14	24/106	Supply, Installation and commissioning of wiring with 4-pair data Cable, 23 AWG UL/EN listed cable * Conforming to following standards: TIA/EIA 568 /ISO/IEC 11801, in prelaid conduit / cable tray from including all accessories, anufacturer/OEM Authorization, Make: chneider / i-connect UK/3M Corning USA/ D-Link/ Pollo Australian or equivalent complete in all respect as approved and directed by Engineer Incharge.				
		a) UTP (Unshielded Twisted pair)				
		(i)CAT-6	Rft	1,700.00	32.05	54,485
15	24/125/a	Supply, installation & connecting IP based Camera of specified resolution, lens, motorized, auto-iris and auto-focus function,f=2.8~12 mm, human/ vehicle object classification ,D/N function-IR cut filter,Video content analysis based on Deep learning,micro SD card support,WDR with double scan sensor, Min, illumination: 0.007 lx(01xIR on),IR LED,range upto 50 m, i/c the cost of mounting bracket,accessories,made of AXIS Europe/NOVAS Europe/Avigilon by Motorola USA/Bosch Germany or Equivalent, as approved as directed by the Engineer Incharge.				
		a) 2 Mega Pixel				
		(i) Fixed Bullet Type	Each	8.00	81,487.50	651,900
16	24/116	Supply & Installation of NVR (Network Video Recorder) for Real Time View of specified Channels, video and Audio channels,Supported protocols: ONVIF,RTSP etc, Internal HDDs mount support:2/4/8 or higher as per site requirement,Monitor outputs,(HDMI,4K Ultra HD),VGA (Video Graphic array), Support Raid 5/6, Embeded OS, Data Encryption, Min. 1 x RJ-45 1000Mbps Ports, with PC Video Monitoring Software, Web Server, Embedded Server complete in all respect. made of AXIS Europe/NOVAS Europe/Avigilon by Motrola USA /Huawei, Pollo Australia or equivalent as approved and directed by the Engineer Incharge.				
		(ii) 16-Channel	Each	1.00	91,126.80	91,127

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ELECTRICAL WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
DATA NETWORK & WIFI SYSTEM						
17	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.	2,000.00	94.60	189,200
18	24/131	Supply, Installation and commissioning of Simple type, Dual Shutter Face Plates having fully populated I/O: Option 1:RJ-11 with RJ45/8P8C I/Os supporting either Cat6 or Cat6a cables as required by project				
		(i) Single I/O	Each	16.00	1,306.50	20,904
19	24/106	Supply, Installation and commissioning of wiring with 4-pair data Cable, 23 AWG UL/EN listed cable * Conforming to following standards: TIA/EIA 568 / ISO/IEC 11801, in prelaidd conduit / cable tray from including all accessories, Manufacturer/OEM Authorization, Make: Schneider / i-connect UK/3M Corning USA/ D-Link/ Pollo Australian or equivalent complete in all respect as approved and directed by Engineer Incharge.				
		a) UTP (Unshielded Twisted pair)				
		(i) CAT-6	Rft	2,000.00	32.05	64,100
20	24/135	Supply, Installation of OFDF (Optical Fiber Distribution Frame) having specified mode ports Loaded with Splicing Tray, with splicing of Pigtails, Fully loaded DUPLEX SC Couplers & Pigtail supplied with Patch Leads (LC-SC) or as per site SFP based required cords, UL Listed, Made of Schneider / Norden, Pollo Australia or equivalent or as approved and directed by the Engineer Incharge.				
		a) Multimode (MM) Ports				
		(iii) 24 Ports	Each	1.00	100,278.00	100,278
Sub Total (A)						2,235,260

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ELECTRICAL WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
21	N.S	Supply, installation, testing and commissioning of smart LED Monitor of 50" size, brand Samsung, LG, Sony for CCTV camera viewing, including cost of all necessary accessories complete in all respects.	Each	1.00	147,420	147,420
22	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	4.00	1,215	4,860
23	N.S	Supply, installation and commissioning recessed 10W LED Down Light complete in all respects	Each	8.00	1,430	11,440
24	N.S	Supply, installation and commissioning recessed 20W LED Down Light complete in all respects	Each	8.00	2,860	22,880
25	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	15.00	7,000	105,000
26	N.S	Supply, installation and commissioning high bay light 50W with 120lm/w LED hanging with all accessories complete in all respects	Each	10.00	35,035	350,350
		Sub Total (B)				641,950
		Sub Total (A+B)				2,877,210

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SHOP BLOCK "A"

CIVIL WORK

Sr No	2nd BI-Annual 2022 (July to Dec) Toba tek singh	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	3.44	10,677.75	36,731
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/ Biflex/ Terminex Exin / Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or 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	4,458.64	9.25	41,242
		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	3.22	28,986.90	93,338
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	8.72	29,326.30	255,725
		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	1.47	8,639.45	12,700
		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	1.96	6,459.70	12,661

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CIVIL WORK						
Sr No	2nd BI-Annual-2022 (July to Dec) Toba tek singh	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	16.02	31,510.10	504,792
		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	500.00	457.75	228,875
		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	1,134.38	556.50	631,280
		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	62.29	31,784.50	1,979,857
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	8.90	2,943.30	26,195

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CIVIL WORK

Sr No	2nd BI-Annual-2022 (July to Dec) Toba tek singh	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	2.94	8,891.50	26,141
		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	1.48	38,178.90	56,505
		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 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	Per Sft	890.00	211.60	188,324
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	82.94	292.75	24,281
		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	8.90	3,708.60	33,007
		Cement Plaster				
16	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- ¾" (20 mm) thick	100 Sft	34.63	4,379.60	151,666
		Pointing				
17	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-				
		a) ratio 1:2	100 Sft	24.03	3,518.35	84,546

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CIVIL WORK

Sr No	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
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	24.03	652.50	15,680
		Distempering				
19	11/23	Distempering:- iii) three coats	100 Sft	43.53	1,295.00	56,371
		G.I. Sheet 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	400.00	619.60	247,840
		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	80.00	1,081.95	86,556

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DETAILED COST ESTIMATE

SHOP BLOCK "A"

CIVIL WORK

Sr No	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
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	8.90	11,317.60	100,727
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	890.00	7.85	6,987
Khurras						
24	9/15	Khurras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	2.00	855.00	1,710
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	2.00	1,744.00	3,488
26	1/1 Rate Analysis	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.	Cft	1,873.65	104.21	195,248
Parking Shed						
27	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	610.00	1,800.00	1,098,000
Total Rs.						6,200,471

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
SHOP BLOCK "A"
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.						
	Wall length 9 inch thick	1	141.33	2.50	2.50	883.31	Cft
	Center wall	1	55.00	2.50	2.50	343.75	Cft
	Square Columns	16	5.50	5.50	4.58	2,216.72	Cft
					Total	3,443.78	Cft
					Total	3.44	%Cft
Anti-Termite							
2	Spraying termite proofing by using liquid FMC/ Biflex/ Terminex Exin / Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or 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.						
	Wall length 9 inch thick	1	141.33	7.50		1,059.98	Sft
	Center wall	1	55.00	7.50		412.50	Sft
	Square Columns	16	22.00	4.58		1,612.16	Sft
		16	5.50	5.50		484.00	Sft
	Floor area	1	890	1.00		890.00	Sft
					Total	4,459	Sft
					Total	4,459	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						
	Wall length 9 inch thick	1	141.33	2.50	0.33	116.60	Cft
	Center wall	1	55.00	2.50	0.33	45.38	Cft
	Square Columns	16	5.50	5.50	0.33	159.72	Cft
					Total	321.69	Cft
					Total	3.22	%Cft
Brick work in Foundation							
4	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5						

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

SHOP BLOCK "A"

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Wall length 9 inch thick						
	Step - 1	1	141.33	1.875	0.25	66.25	Cft
	Step - 2	1	141.33	1.500	0.25	53.00	Cft
	Step - 3	1	141.33	1.125	0.25	39.75	Cft
	Step - 4	1	141.33	0.750	4.42	468.51	Cft
	Center wall						
	Step - 1	1	55.00	1.875	0.25	25.78	Cft
	Step - 2	1	55.00	1.500	0.25	20.63	Cft
	Step - 3	1	55.00	1.125	0.25	15.47	Cft
	Step - 4	1	55.00	0.750	4.42	182.33	Cft
					Total	871.71	Cft
					Total	8.72	%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)						
	Wall length 9 inch thick	1	141.33	0.75		106.00	Sft
	Center wall	1	55.00	0.75		41.25	Sft
					Total	147.25	Sft
					Total	1.47	%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)						
	Wall length 9 inch thick	1	141.33		1.00	141.33	Sft
	Center wall	1	55.00		1.00	55.00	Sft
					Total	196.33	Sft
					Total	1.96	%Sft
	Brick work in Super Structure						
7	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5						
	Wall length 9 inch thick	1	141.33	0.75	14.00	1,483.97	Cft
	Center wall	1	55.00	0.38	14.00	288.75	Cft
	Parapet Wall	1	141.33	0.38	3.00	159.00	Cft
	Entrance step	5	8.00	1.00	0.75	30.00	Cft

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

SHOP BLOCK "A"

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	D/d Doors and Window						
	Shutter	-5	8.00	0.75	10.00	(300.00)	Cft
	W-1	-5	4.00	0.75	4.00	(60.00)	Cft
					Total	1,601.71	Cft
					Total	16.02	%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:-						
	Square Columns	16	5.00	5.00	1.25	500.00	Cft
					Total	500.00	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:-						
	Type C (nominal mix 1: 2: 4)						
	Top Slab	1	890.00	1.00	0.50	445.00	Cft
	Plinth Beams	1	200.00	1.00	1.00	200.00	Cft
	Slab beams	1	200.00	1.00	1.00	200.00	Cft
	Square Columns	11	1.00	1.00	20.00	220.00	Cft
	Shed Footing	5	1.00	1.00	6.00	30.00	Cft
	Doors and window Lintels						
	Shutter	5	9.00	0.75	0.75	25.31	Cft
	W-1	5	5.00	0.75	0.75	14.06	Cft
					Total	1,134.38	Cft

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SUPERVISION IN 16 CITIES OF PUNJAB
SHOP BLOCK "A"
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)					1,634.38	Cft
	Top Slab, columns and Beams @ 8 lbs / Cft		8.00		=	13,075.00	lbs/cft
				Total	=	13,075.00	lbs/cft
				Total	=	5,932.40	Kg.
				Add 5% Wastage.	=	296.62	Kg.
				Total	=	6,229	Kg
						Total	62.29 %kg
Sand Filling							
10	Supplying and filling sand under floor; or plugging in wells.						
	Floor	1	890.00	1.00	1.00	890.00	Cft
					Total	890.00	Cft
					Total	8.90	%Cft
Brick ballast							
11	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.						
	Floor	1	890.00	1.00	0.33	293.70	Cft
					Total	293.70	Cft
					Total	2.94	%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	890.00	1.00	0.17	148.33	Cft
					Total	1.48	%Cft

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
SHOP BLOCK "A"
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	1	890.00	1.00		890.00	Sft
						Total	890.00 Sft
Slab Plaster							
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	251.33		0.33	82.94	Sft
						Total	82.94 Sft
Slab Plaster							
15	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)						
		1	890.00	1.00		890.00	Sft
						Total	8.90 %Sft
Cement Plaster							
16	Cement plaster 1:4 upto 20' (6.00 m) height:-						
	3/4" (20 mm) thick						
	Wall length 9 inch thick	1	141.33		14.00	1,978.62	Sft
	Center wall	2	55.00		14.00	1,540.00	Sft
	Parapet wall	1	141.33		3.00	423.99	Sft
	D/d Doors and Window						
	Shutter	-5	8.00		10.00	(400.00)	Sft
	W-1	-5	4.00		4.00	(80.00)	Sft
						Total	3,462.61 Sft
						Total	34.63 %Sft

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SHOP BLOCK "A"
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Pointing						
17	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:-						
	a) ratio 1:2						
	Outer Walls	1	141.33		14.00	1,978.62	Sft
	Parapet wall	1	141.33		3.00	423.99	Sft
					Total	2,402.61	Sft
					Total	24.03	%Sft
18	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.				Total	24.03	%Sft
	Distempering						
19	Distempering:-						
	iii) three coats						
	Walls Plaster Area					34.63	%Sft
	Soffit Plaster Area					8.90	%Sft
					Total	43.53	%Sft
	G.I. Sheet Rolling Shutter						
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	5	8.00		10.00	400.00	Sft
					Total	400.00	Sft

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SHOP BLOCK "A"
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
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	5	4.00		4.00	80.00	Sft
					Total	80.00	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	890.00	1.00		890.00	Sft
					Total	890.00	Sft
					Total	8.90	%Sft
23	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.						
	ii) 500 gauge (.005" thick)				Total	890.00	Sft
Khurras							
24	Khurras on roof 2'x2'x6" (600 x 600 x 150 mm)	2				2.00	Each
Bottom Khurras							
25	Bottom Khurras 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
Parking Shed							

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SUPERVISION IN 16 CITIES OF PUNJAB
SHOP BLOCK "A"
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
26	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	61.00	10.00		610	Sft

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
SHOP BLOCK "A"
ELECTRICAL WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
Scheduled Items (A)						
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	81.70	81,700
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.	1,600.00	94.60	151,360
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.	2,600.00	25.70	66,820
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.	3,000.00	40.75	122,250
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.	900.00	53.80	48,420
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	23.00	270.60	6,224
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	12.00	372.35	4,468

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SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

SHOP BLOCK "A"

ELECTRICAL WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
8	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	30.00	87.35	2,621
9	C-24/36-i	Supply and erection of 3 pin switch and Plug combined, recessed type. (5Amps)	Each	3.00	112.00	336
10	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	25.00	149.80	3,745
DATA CABLING SYSTEM						
11	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.	800.00	94.60	75,680
12	24/106	Supply, Installation and commissioning of wiring with 4-pair data Cable,23 AWG support 1 Giga @ 250 Mhz upto 100 meter UL/EN listed cable conforming IEEE 802.3 or equivalent, in pre-laid conduit / cable tray from including all accessories, Make: Schneider / i-connect UK/3M Corning USA, complete in all respect as approved and directed by Engineer Incharge.				
		a) UTP (Unshielded Twisted pair)				
		(i)CAT-6	Rft	850.00	32.05	27,243
13	24/125/a	Supply, installation & connecting IP based Camera of specified resolution, lens, motorized, auto-iris and auto-focus function, f=2.8~12 mm, human/ vehicle object classification, D/N function-IR cut filter, Video content analysis based on Deep learning, micro SD card support, WDR with double scan sensor, Min, illumination: 0.007 lx(01xIR on), IR LED, range upto 50 m, i/c the cost of mounting bracket, accessories, made of AXIS Europe/NOVAS Europe/Avigilon by Motorola USA/Bosch Germany or Equivalent, as approved as directed by the Engineer Incharge.				
		a) 2 Mega Pixel				
		(i) Fixed Bullet Type	Each	2.00	81,487.50	162,975
Sub Total (A)						753,841

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SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
SHOP BLOCK "A"
ELECTRICAL WORKS

Sr. No.	2nd BI-Annual 2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
11	N.S	Supply, installation and commissioning recessed 10W LED Down Light complete in all respects	Each	26.00	1,430.00	37,180
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	10.00	7,000.00	70,000
13	N.S	Supply, installation and commissioning high bay light 50W with 120lm/w LED hanging with all accessories complete in all respects	Each	13.00	35,035.00	455,455
		Sub Total (B)				562,635
		Sub Total (A+B)				1,316,476

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

DETAILED COST ESTIMATE

SHOP BLOCK "B"

CIVIL WORK

Sr No	2nd BI-Annual-2022 (July to Dec) Toba tek singh	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	4.25	10,677.75	45,380
		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	5,591.69	9.25	51,723
		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	4.03	28,986.90	116,817
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	11.50	29,326.30	337,252
		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	1.94	8,639.45	16,761
		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	2.59	6,459.70	16,731

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SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
SHOP BLOCK "B"
CIVIL WORK

Sr No	2nd BI-Annual-2022 (July to Dec) Toba tek singh	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	22.83	31,510.10	719,376
		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	593.75	457.75	271,789
		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	1,374.94	556.50	765,153
		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	75.03	31,784.50	2,384,791
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	11.65	2,943.30	34,289

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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

SHOP BLOCK "B"

CIVIL WORK

Sr No	2nd BI-Annual-2022 (July to Dec) Toba tek singh	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	3.84	8,891.50	34,143
		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	1.94	38,178.90	74,067
		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 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	Per Sft	1,165.00	190.60	222,049
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 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	Per Sft	103.29	260.75	26,933
		Slab Plaster				
15	11/10/b	Cement plaster ¾" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)	100 Sft	11.65	3,708.60	43,205
		Cement Plaster				
16	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- ¾" (20 mm) thick	100 Sft	44.37	4,379.60	194,323
		Pointing				
17	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-				
		a) ratio 1:2	100 Sft	34.85	3,518.35	122,614

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DETAILED COST ESTIMATE
SHOP BLOCK "B"
CIVIL WORK

Sr No	2nd BI-Annual 2022 (July to Dec) Toba tek singh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
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	34.85	652.50	22,740
		Distemping				
19	11/23	Distemping:- iii) three coats	100 Sft	56.02	1,295.00	72,546
		G.I. Sheet 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	480.00	619.60	297,408
		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	80.00	1,081.95	86,556

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DETAILED COST ESTIMATE

SHOP BLOCK "B"

CIVIL WORK

Sr No	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
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	11.65	11,317.60	131,850
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	1,165.00	7.85	9,145
Khurras						
24	9/15	Khurras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	2.00	855.00	1,710
Bottom Khurras						
25	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	2.00	1,744.00	3,488
26	1/1 Rate Analysis	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.	Cft	2,285.09	104.21	238,123
Parking Shed						
27	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	1,005.00	1,800.00	1,809,000
Total Rs.						8,149,963

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SUPERVISION IN 16 CITIES OF PUNJAB

SHOP BLOCK "B"

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.						
	Wall length 9 inch thick	1	205.00	2.50	2.50	1,281.25	Cft
	Center wall	1	54.00	2.50	2.50	337.50	Cft
	Square Columns	19	5.50	5.50	4.58	2,632.36	Cft
					Total	4,251.11	Cft
					Total	4.25	%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						
	Wall length 9 inch thick	1	205.00	7.50		1,537.50	Sft
	Center wall	1	54.00	7.50		405.00	Sft
	Square Columns	19	22.00	4.58		1,914.44	Sft
		19	5.50	5.50		574.75	Sft
	Floor area	1	1,160	1.00		1,160.00	Sft
					Total	5,592	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						
	Wall length 9 inch thick	1	205.00	2.50	0.33	169.13	Cft
	Center wall	1	54.00	2.50	0.33	44.55	Cft
	Square Columns	19	5.50	5.50	0.33	189.67	Cft
					Total	403.34	Cft
					Total	4.03	%Cft
Brick work in Foundation							
4	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5						

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB
SHOP BLOCK "B"
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Wall length 9 inch thick						
	Step - 1	1	205.00	1.875	0.25	96.09	Cft
	Step - 2	1	205.00	1.500	0.25	76.88	Cft
	Step - 3	1	205.00	1.125	0.25	57.66	Cft
	Step - 4	1	205.00	0.750	4.42	679.58	Cft
	Center wall						
	Step - 1	1	54.00	1.875	0.25	25.31	Cft
	Step - 2	1	54.00	1.500	0.25	20.25	Cft
	Step - 3	1	54.00	1.125	0.25	15.19	Cft
	Step - 4	1	54.00	0.750	4.42	179.01	Cft
					Total	1,149.96	Cft
					Total	11.50	%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)						
	Wall length 9 inch thick	1	205.00	0.75		153.75	Sft
	Center wall	1	54.00	0.75		40.50	Sft
					Total	194.25	Sft
					Total	1.94	%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)						
	Wall length 9 inch thick	1	205.00		1.00	205.00	Sft
	Center wall	1	54.00		1.00	54.00	Sft
					Total	259.00	Sft
					Total	2.59	%Sft
	Brick work in Super Structure						
7	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5						
	Wall length 9 inch thick	1	205.00	0.75	14.00	2,152.50	Cft
	Center wall	1	54.00	0.38	14.00	283.50	Cft
	Parapet Wall	1	205.00	0.38	3.00	230.63	Cft
	Entrance step	6	8.00	1.00	0.75	36.00	Cft

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SUPERVISION IN 16 CITIES OF PUNJAB
SHOP BLOCK "B"
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	D/d Doors and Window						
	Shutter	-6	8.00	0.75	10.00	(360.00)	Cft
	W-1	-5	4.00	0.75	4.00	(60.00)	Cft
					Total	2,282.63	Cft
					Total	22.83	%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:-						
	Square Columns	19	5.00	5.00	1.25	593.75	Cft
					Total	593.75	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	1,165.00	1.00	0.50	582.50	Cft
	Plinth Beams	1	205.00	1.00	1.00	205.00	Cft
	Slab beams	1	205.00	1.00	1.00	205.00	Cft
	Square Columns	16	1.00	1.00	20.00	320.00	Cft
	Shed Footing	3	1.00	1.00	6.00	18.00	Cft
	Doors and window Lintels						
	Shutter	6	9.00	0.75	0.75	30.38	Cft
	W-1	5	5.00	0.75	0.75	14.06	Cft
					Total	1,374.94	Cft

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SUPERVISION IN 16 CITIES OF PUNJAB
SHOP BLOCK "B"
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)					1,968.69	Cft
	Top Slab, columns and Beams @ 8 lbs / Cft		8.00		=	15,749.50	lbs/cft
				Total	=	15,749.50	lbs/cft
				Total	=	7,145.87	Kg.
				Add 5% Wastage.	=	357.29	Kg.
				Total	=	7,503	Kg
						Total	75.03 %kg
Sand Filling							
10	Supplying and filling sand under floor; or plugging in wells.						
	Floor	1	1,165.00	1.00	1.00	1,165.00	Cft
					Total	1,165.00	Cft
					Total	11.65	%Cft
Brick ballast							
11	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.						
	Floor	1	1,165.00	1.00	0.33	384.45	Cft
					Total	384.45	Cft
					Total	3.84	%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	1	1,165.00	1.00	0.17	194.17	Cft
	Floor						
					Total	1.94	%Cft

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SUPERVISION IN 16 CITIES OF PUNJAB
SHOP BLOCK "B"
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	1	1,165.00	1.00		1,165.00	Sft
						Total	1,165.00 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 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	313.00		0.33	103.29	Sft
						Total	103.29 Sft
Slab Plaster							
15	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)						
		1	1,165.00	1.00		1,165.00	Sft
						Total	11.65 %Sft
Cement Plaster							
16	Cement plaster 1:4 upto 20' (6.00 m) height:-						
	3/4" (20 mm) thick						
	Wall length 9 inch thick	1	205.00		14.00	2,870.00	Sft
	Center wall	2	54.00		14.00	1,512.00	Sft
	Parapet wall	1	205.00		3.00	615.00	Sft
	D/d Doors and Window						
	Shutter	-6	8.00		10.00	(480.00)	Sft
	W-1	-5	4.00		4.00	(80.00)	Sft
						Total	4,437.00 Sft
						Total	44.37 %Sft

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SUPERVISION IN 16 CITIES OF PUNJAB
SHOP BLOCK "B"
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Pointing						
17	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-						
	a) ratio 1:2						
	Outer Walls	1	205.00		14.00	2,870.00	Sft
	Parapet wall	1	205.00		3.00	615.00	Sft
					Total	3,485.00	Sft
					Total	34.85	%Sft
18	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
					Total	34.85	%Sft
	Distemperring						
19	Distemperring:-						
	iii) three coats						
	Walls Plaster Area					44.37	%Sft
	Soffit Plaster Area					11.65	%Sft
					Total	56.02	%Sft
	G.I. Sheet Rolling Shutter						
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	6	8.00		10.00	480.00	Sft
					Total	480.00	Sft

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SUPERVISION IN 16 CITIES OF PUNJAB
SHOP BLOCK "B"
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
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	5	4.00		4.00	80.00	Sft
					Total	80.00	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	1,165.00	1.00		1,165.00	Sft
					Total	1,165.00	Sft
					Total	11.65	%Sft
23	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.						
	ii) 500 gauge (.005" thick)				Total	1,165.00	Sft
Khurras							
24	Khurras on roof 2'x2'x6" (600 x 600 x 150 mm)	2				2.00	Each
Bottom Khurras							
25	Bottom Khurras 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
Parking Shed							

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SHOP BLOCK "B"

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
26	Providing, laying and fixing in position shed as per drawings, manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzine 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	1,005.00	1.00		1,005	Sft

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DETAILED COST ESTIMATE

SHOP BLOCK "B"

ELECTRICAL WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
Scheduled Items (A)						
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.	800.00	81.70	65,360
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.	1,450.00	94.60	137,170
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.	2,000.00	25.70	51,400
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.	2,600.00	40.75	105,950
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.	700.00	53.80	37,660
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	22.00	270.60	5,953
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	10.00	372.35	3,724

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DETAILED COST ESTIMATE

SHOP BLOCK "B"

ELECTRICAL WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
8	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	23.00	87.35	2,009
9	C-24/36-i	Supply and erection of 3 pin switch and Plug combined, recessed type. (5Amps)	Each	2.00	112.00	224
10	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	22.00	149.80	3,296
DATA CABLING SYSTEM						
11	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.	1,000.00	94.60	94,600
12	24/106	Supply, Installation and commissioning of wiring with 4-pair data Cable,23 AWG support 1 Giga @ 250 Mhz upto 100 meter UL/EN listed cable conforming IEEE 802.3 or equivalent, in prelaidd conduit / cable tray from including all accessories, Make: Schneider / i-connect UK/3M Corning USA, complete in all respect as approved and directed by Engineer Incharge.				
		a) UTP (Unshielded Twisted pair)				
		(i)CAT-6	Rft	1,050.00	32.05	33,653
13	24/125/a	Supply, installation & connecting IP based Camera of specified resolution, lens, motorized, auto-iris and auto-focus function,f=2.8-12 mm, human/ vehicle object classification ,D/N function-IR cut filter,Video content analysis based on Deep learning,micro SD card support,WDR with double scan sensor, Min, illumination: 0.007 lx(01xIR on),IR LED,range upto 50 m, i/c the cost of mounting bracket,accessories,made of AXIS Europe/NOVAS Europe/Avigilon by Motorola USA/Bosch Germany or Equivalent, as approved as directed by the Engineer Incharge.				
		a) 2 Mega Pixel	Each	2.00	81,487.50	162,975
		(i) Fixed Bullet Type				
Sub Total (A)						703,973

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DETAILED COST ESTIMATE

SHOP BLOCK "B"

ELECTRICAL WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
11	N.S	Supply, installation and commissioning recessed 10W LED Down Light complete in all respects	Each	19.00	1,430.00	27,170
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	7.00	7,000.00	49,000
13	N.S	Supply, installation and commissioning high bay light 50W with 120lm/w LED hanging with all accessories complete in all respects	Each	5.00	35,035.00	175,175
Sub Total (B)						251,345
Sub Total (A+B)						955,318

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DETAILED COST ESTIMATE

BUS PARKING SHED

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	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	9.06	10,677.75	96,740
		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	6,949.93	9.25	64,287
		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	7.06	28,986.90	204,648
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	6.28	29,326.30	184,169
		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	1.06	8,639.45	9,158
		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	1.42	6,459.70	9,173

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SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
BUS PARKING SHED
CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	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	11.30	31,510.10	356,064
		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	2,035.00	457.75	931,521
		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	919.38	556.50	511,632
		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	112.60	31,784.50	3,578,935
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	4.12	2,943.30	12,126

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DETAILED COST ESTIMATE
BUS PARKING SHED
CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	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	1.36	8,891.50	12,092
		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	0.69	38,178.90	26,343
		Tuff Paver				
13	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	205.00	156.40	32,062
		Porcelain Tile				
14	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 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	Per Sft	206.70	190.60	39,397
15	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 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	Per Sft	26.84	260.75	6,999
		Slab Plaster				
16	11/10/b	Cement plaster ¾" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)	100 Sft	4.12	3,708.60	15,279

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CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Cement Plaster				
17	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	15.43	4,379.60	67,577
		Pointing				
18	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2	100 Sft	11.71	3,518.35	41,200
19	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	11.71	652.50	7,641
		Distempering				
20	11/23	Distempering:- iii) three coats	100 Sft	19.55	1,295.00	25,317
		Wooden Door				
21	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	98.00	1,461.90	143,266
		Lock				
22	12/22	Providing and fixing, approved quality mortice lock.	Each	4.00	771.50	3,086
		Paint				
23	13/5/c	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-				
		i) priming coat.	100 Sft	1.96	1,292.00	2,532
		ii) Two coat	100 Sft	1.96	711.40	1,394

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BUS PARKING SHED

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Steel Window				
24	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	64.00	1,081.95	69,245
		Roof Insulation				
25	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	5.10	11,317.60	57,720
26	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	510.00	7.85	4,004
		Khurras				
27	9/15	Khurras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	1.00	855.00	855
		Bottom Khurras				
28	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	1,744.00	1,744
29	1/1 Rate Analysis	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.	Cft	3,329.65	104.21	346,974

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BUS PARKING SHED
CIVIL WORK

Sr. No.	2nd BI-Annual 2022 (July to Dec) Toba tek singh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Parking Shed				
30	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	10,310.00	1,800.00	18,558,000
		Total Rs.				25,421,181

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BUS PARKING SHED
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 walls	1	141.50	2.50	2.50	884.38	Cft
	Columns	28	8.50	7.50	4.58	8,175.30	Cft
					Total	9,059.68	Cft
					Total	9.06	%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 walls	1	141.50	7.50		1,061.25	Sft
	Columns	28	32.00	4.58		4,103.68	Sft
		28	8.50	7.50		1,785.00	Sft
					Total	6,949.93	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	1	141.50	2.50	0.33	116.74	Cft
	Tool Room walls	28	8.50	7.50	0.33	589.05	Cft
	Columns				Total	705.79	Cft
					Total	7.06	%Cft

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BUS PARKING SHED
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Brick work in Foundation							
4	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5						
Tool Room walls							
	Step - 1	1	141.50	1.875	0.25	66.33	Cft
	Step - 2	1	141.50	1.500	0.25	53.06	Cft
	Step - 3	1	141.50	1.125	0.25	39.80	Cft
	Step - 4	1	141.50	0.750	4.42	469.07	Cft
					Total	628.26	Cft
					Total	6.28	%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 walls	1	141.50	0.75		106.13	Sft
					Total	106.13	Sft
					Total	1.06	%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 walls	1	141.50		1.00	141.50	Sft
					Total	141.50	Sft
					Total	1.42	%Sft
Brick work in Super Structure							
7	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5						
	Tool Room walls	1	141.50	0.75	10.50	1,114.31	Cft
	Parapet Wall	1	111.50	0.38	3.00	125.44	Cft
	Entrance step	4	4.00	1.00	0.75	12.00	Cft
	D/d Doors and Window						
	D-1	-4	3.50	0.75	7.00	(73.50)	Cft
	W-1	-4	4.00	0.75	4.00	(48.00)	Cft
					Total	1,130.25	Cft
					Total	11.30	%Cft

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BUS PARKING SHED
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.):-						
	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	28	8.00	7.00	1.25	1,960.00	Cft
	Bus Maintenance base slab	1	30.00	5.00	0.50	75.00	Cft
					Total	2,035.00	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:-						
	Type C (nominal mix 1: 2: 4)						
	Top Slab	1	225.00	1.00	0.50	112.50	Cft
	Columns	28	1.50	2.00	5.00	420.00	Cft
		4	1.50	2.00	11.50	138.00	Cft
	Bus Maintenance walls	2	65.00	0.50	3.50	227.50	Cft
	Doors and window Lintels						
	D-1	4	4.50	0.75	0.75	10.13	Cft
	W-1	4	5.00	0.75	0.75	11.25	Cft
					Total	919.38	Cft

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BUS PARKING SHED
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)					2,954.38	Cft
	Top Slab, lintel & Columns @ 8 lbs / Cft		8.00		=	23,635.00	lbs/cft
				Total	=	23,635.00	lbs/cft
				Total	=	10,723.68	Kg.
				Add 5% Wastage.	=	536.18	Kg.
				Total	=	11,260	Kg
				Total		112.60	%kg
Sand Filling							
10	Supplying and filling sand under floor; or plugging in wells.						
	Tool Room	1	10.00	10.50	1.00	105.00	Cft
	Pump Room	1	10.00	10.00	1.00	100.00	Cft
	Tool Room	1	10.00	10.00	1.00	100.00	Cft
	Office Room	1	10.00	10.67	1.00	106.70	Cft
					Total	411.70	Cft
					Total	4.12	%Cft
Brick ballast							
11	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.						
	Tool Room	1	10.00	10.50	0.33	34.65	Cft
	Pump Room	1	10.00	10.00	0.33	33.00	Cft
	Tool Room	1	10.00	10.00	0.33	33.00	Cft
	Office Room	1	10.00	10.67	0.33	35.21	Cft
					Total	135.86	Cft
					Total	1.36	%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						
	Tool Room	1	10.00	10.50	0.17	17.50	Cft
	Pump Room	1	10.00	10.00	0.17	16.67	Cft

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BUS PARKING SHED
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Tool Room	1	10.00	10.00	0.17	16.67	Cft
	Office Room	1	10.00	10.67	0.17	17.78	Cft
						Total	0.69 %Cft
13	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						
	Tool Room	1	10.00	10.50		105.00	Sft
	Tool Room	1	10.00	10.00		100.00	Sft
						Total	205.00 Sft
	Porcelain Tile						
14	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	1	10.00	10.00		100.00	Sft
		1	10.00	10.67		106.70	Sft
						Total	206.70 Sft
15	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	20.00		0.33	13.20	Sft
		2	20.67		0.33	13.64	Sft
						Total	26.84 Sft

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
BUS PARKING SHED
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Slab Plaster							
16	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)						
	Tool Room	1	10.00	10.50		105.00	Sft
	Pump Room	1	10.00	10.00		100.00	Sft
	Tool Room	1	10.00	10.00		100.00	Sft
	Office Room	1	10.00	10.67		106.70	Sft
					Total	411.70	Sft
					Total	4.12	%Sft
Cement Plaster							
17	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick						
	Tool Room walls						
	Tool Room	2	20.50		10.50	430.50	Sft
	Pump Room	2	20.00		10.50	420.00	Sft
	Tool Room	2	20.00		10.50	420.00	Sft
	Office Room	2	20.67		10.50	434.07	Sft
	D/d Doors and Window						
	D-1	-4	3.50		7.00	(98.00)	Sft
	W-1	-4	4.00		4.00	(64.00)	Sft
					Total	1,542.57	Sft
					Total	15.43	%Sft
Pointing							
18	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:-						
	a) ratio 1:2						
	Outer Walls	1	111.50		10.50	1,170.75	Sft
					Total	1,170.75	Sft
					Total	11.71	%Sft
19	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
					Total	11.71	%Sft
Distempering							
20	Distempering:-						
	iii) three coats						
	Total Paster Walls and Slabs				Total	19.55	%Sft

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SUPERVISION IN 16 CITIES OF PUNJAB
BUS PARKING SHED
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Wooden Door						
21	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	4	3.50		7.00	98.00	Sft
					Total	98.00	Sft
	Lock						
22	Providing and fixing, approved quality mortice lock.	4				4.00	Each
	Paint						
23	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-						
	i) priming coat.						
	ii)Two coat				Total	1.96	%Sft

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BUS PARKING SHED
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Steel Window							
24	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	4.00		4.00	64.00	Sft
					Total	64.00	Sft
Roof Insulation							
25	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	510.00	1.00		510.00	Sft
					Total	510.00	Sft
					Total	5.10	%Sft
26	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.						
	ii) 500 gauge (.005" thick)				Total	510.00	Sft
Khurras							
27	Khurras on roof 2'x2'x6" (600 x 600 x 150 mm)	1				1.00	Each
Bottom Khurras							
28	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

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BUS PARKING SHED
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Parking Shed						
29	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	10,310	1.00		10,310	Sft
					Total	10,310	Sft

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

DETAILED COST ESTIMATE

BUS PARKING SHED

ELECTRICAL WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
Scheduled Items (A)						
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.	1,500.00	81.70	122,550
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.	1,800.00	94.60	170,280
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.	3,600.00	25.70	92,520
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.	3,200.00	40.75	130,400
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.	1,200.00	53.80	64,560
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	25.00	270.60	6,765
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	372.35	745
8	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	28.00	87.35	2,446

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DETAILED COST ESTIMATE

BUS PARKING SHED

ELECTRICAL WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
9	C-24/36-i	Supply and erection of 3 pin switch and Plug combined, recessed type. (5Amps)	Each	5.00	112.00	560
10	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	20.00	149.80	2,996
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	6.00	2,164.65	12,988
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	3,133.00	3,133
		Sub Total (A)				609,942
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	4.00	1,430.00	5,720
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	7.00	7,000.00	49,000
16	N.S	Supply, installation and commissioning high bay light 50W with 120lm/w LED hanging with all accessories complete in all respects	Each	15.00	35,035.00	525,525
		Sub Total (B)				581,460
		Sub Total (A+B)				1,191,402

**PUNJAB CITIES PROGRAM (PCP)
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DETAILED COST ESTIMATE

WASHING PIT

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toback singh	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	10,677.75	10,251
		Sand Filling				
2	7/30	Supplying and filling sand under floor; or plugging in wells.	100Cft	1.12	2,943.30	3,296
		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	43,876.50	25,010
		(f) Ratio 1: 2: 4	100 Cft	0.15	38,178.90	5,727
		(i) Ratio 1: 4: 8	100 Cft	1.12	28,986.90	32,465
		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	29,326.30	323,762
		Plaster				
5	11/8/b	Cement plaster 1:3 upto 20' (6.00 m) height:- b) ½" (13 mm) thick	100 Sft	3.32	3,424.50	11,369
		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	19,573.00	17,224
		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	20,965.90	69,607
8	1/1 Rate Analysis	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.	Cft	167.22	104.21	17,426
		Total Amount Rs.				516,137

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	1	35.00	9.67	0.33	111.69	Cft
	Washing Pit					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

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SUPERVISION IN 16 CITIES OF PUNJAB
WASHING PIT
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Plaster							
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

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

DETAILED COST ESTIMATE

SEPTIC TANK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	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	10,677.75	7,581
		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	38,178.90	12,981
		(i) Ratio 1: 4: 8	100 Cft	0.55	28,986.90	15,943
		Brick work				
3	7/7/i	Pacca brick work other than building upto 10ft. (3 m)				
		Ratio 1:3	100 Cft	4.21	32,796.10	138,072
		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	556.50	28,173

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SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

SEPTIC TANK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	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	31,784.50	40,227
		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	3,518.35	18,260
		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	15,106.30	30,213
		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	590.60	8,268
9	1/1 Rate Analysis	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.	Cft	126.59	104.21	13,192
		Total Amount Rs.				312,910

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SUPERVISION IN 16 CITIES OF PUNJAB
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	%Cft
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
		2	6.00	1.13	0.50	6.75	Cft
	Baffle wall	2	6.00	0.75	7.00	63.00	Cft
					Total	420.75	Cft
					Total	4.21	%Cft

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SUPERVISION IN 16 CITIES OF PUNJAB
SEPTIC TANK
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.):-						
	(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) height:-						
	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 1 1/4"x1 1/4"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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EXTERNAL WORK
CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	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	5.63	10,677.75	60,116
		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	6,750.00	9.25	62,438
		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	7.43	28,986.90	215,373
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	31.01	29,326.30	909,409
		Horizontal D.P.C				
5	6/35	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	6.75	8,639.45	58,316

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Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Vertical D.P.C				
6	6/35	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	9.00	6,459.70	58,137
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:- i) Cement, sand mortar:- Ratio 1:5	100 Cft	56.57	31,510.10	1,782,526
		Cement Plaster				
8	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- ¾" (20 mm) thick	100 Sft	72.00	4,589.85	330,469
		Pointing				
9	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2	100 Sft	72.00	3,518.35	253,321
10	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	72.00	652.50	46,980
		Distempering				
11	11/23	Distempering:- iii) three coats	100 Sft	72.00	1,295.00	93,240
		Razor Wire				
12	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" embed 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.	Rft	900.00	500.00	450,000
		(ii) 18 " diameter				

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CIVIL WORK

Sr. No.	2nd III-Annual. 2022 (July to Dec) Toba tek singh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
13	1/1 Rate Analysis	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.	Cft	704.14	104.21	73,377
Total Rs. "A"						4,393,702
Tuff Paver						
Borrow Earth						
1	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	21.59	17,222.30	371,829
Sub Base Course						
2	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	142.51	19,017.90	2,710,241

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EXTERNAL WORK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Water Bound Macadam				
3	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	142.51	26,489.72	3,775.049
		Tuff Paver				
4	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	43,185.00	194.90	8,416,757
		Kerb Stone				
5	6/52/b	Providing and fixing precast Edge Kerb Stone (4" to 6" thick), of 3500 PSI Compressive Strength, embeded in PCC 1:2:4 over lean concrete 1:4:8 etc. complete in all respect.				
		b) With Painting				
		(i) 14" high	P.Rft	1,500.00	516.90	775,350
		Sweet Earth				
6	N.S	Supplying and Filling of Sweet earth for plantation in loops/general areas other than embankment and compact to degree of compaction of natural ground complete in all respect as per specifications and as directed by the engineer incharge.	Cft	150.00	25.00	3,750

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Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
7	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	3.00	1,693.10	5,079
		Total Rs. "B"				16,058,055
		Total Rs. "A+B"				20,451,757

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Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
BOUNDARY WALL							
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	900.00	2.50	2.50	5,625.00	Cft
					Total	5,625.00	Cft
					Total	5.63	%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	900.00	7.50		6,750.00	Sft
					Total	6,750.00	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	900.00	2.50	0.33	742.50	Cft
					Total	742.50	Cft
					Total	7.43	%oCft
Brick work in Foundation							
4	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5						
	Boundary wall	1	900.00	1.875	0.25	421.88	Cft
	Step - 1	1	900.00	1.500	0.25	337.50	Cft
	Step - 2	1	900.00	1.125	0.25	253.13	Cft
	Step - 3						

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Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Step - 4	1	814.50	0.750	2.92	1,783.76	Cft
	Columns	76	1.13	1.13	3.17	304.91	Cft
					Total	3,101.17	Cft
					Total	31.01	%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	900.00	0.75		675	Sft
					Total	675	Sft
					Total	6.75	%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	900.00		1.00	900	Sft
					Total	900	Sft
					Total	9.00	%Sft
	Brick work in Super Structure						
7	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5						
	Boundary wall	1	814.50	0.75	8.00	4,887	Cft
	Columns	76	1.13	1.13	8.00	770	Cft
					Total	5,657	Cft
					Total	56.57	%Cft
	Cement Plaster						
8	Cement plaster 1:4 upto 20' (6.00 m) height:-						
	¾" (20 mm) thick						
	Boundary wall	1	900.00		8.00	7,200	Sft
					Total	7,200	Sft
					Total	72.00	%Sft

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Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Pointing						
9	Cement pointing struck joints, on walls, upto 20' (6.00 m) high:-						
	a) ratio 1:2						
	Outer Walls	1	900.00		8.00	7,200	Sft
					Total	7,200	Sft
					Total	72.00	%Sft
10	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.				Total	72.00	%Sft
	Distempering						
11	Distempering:-						
	iii) three coats						
	Boundary wall	1	900.00		8.00	7,200.00	Sft
					Total	7,200.00	Sft
					Total	72.00	%Sft
	Razor Wire						
12	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 pproved and directed by the Engineer incharge.	1	900.00			900.00	Rft
	(ii) 18 " diameter						

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CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Tuff Paver						
	Borrow Earth						
1	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.		Area				
	Total Area	1	43,185	1.00	0.50	21,593	Cft
					Total	21.59	%Cft
	Sub Base Course						
2	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)						
		1	43,185	1.00	0.33	14,251.05	Cft
					Total	142.51	%Cft
	Water Bound Macadam						
3	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
		1	43,185	1.00	0.33	14,251.05	Cft
					Total	142.51	%Cft

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CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Tuff Paver						
4	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	43,185	1.00		43,185	Sft
5	Providing and fixing precast Edge Kerb Stone (4" to 6" thick), of 3500 PSI Compressive Strength, embeded in PCC 1:2:4 over lean concrete 1:4:8 etc. complete in all respect.						
	b) With Painting						
	(i) 14" high	1	1,500			1,500	Rft
	Sweet Earth						
6	Supplying and Filling of Sweet earth for plantation in loops/general areas other than embankment and compact to degree of compaction of natural ground complete in all respect as per specifications and as directed by the engineer incharge.	1	300	1.00	0.50	150.00	Cft
7	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).	1	300	1.00		300	Sft
					Total	3.00	%Sft

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 DETAILED COST ESTIMATE
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 PLUMBING WORKS**

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	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	1.53	7,622.75	11,663
		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	35.00	106.90	3,742
		(viii) (2-1/2") 90 mm	Rft	150.00	907.55	136,133
		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	1,674.00	3,348
		vii) 2-1/2" dia	Each	2.00	2,670.00	5,340
		uPVC Pipe				
4	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)	Rft	90.00	420.65	37,859
		(vi) 6"(160 mm)	Rft	155.00	451.15	69,928
		(vii) 8"(200 mm)				

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PLUMBING WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
5	Rate Analysis	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	8.00	18,148.97	145,192
		Pump				
6	N.S	Providing, installing, Fixing and commissioning 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				433,203

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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	340.00	1.50	3.00	1,530.00	Cft
					Total	1.53	%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	35.00			35.00	Rft
	(viii)(2-1/2") 63 mm	1	150.00			150.00	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.						
	i) 1" dia	2				2.00	Nos.
	ii) 2-1/2" dia	2				2.00	Nos.
uPVC Pipe							
4	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)	1	90.00			90.00	Rft
	(vi) 6"(160 mm)	1	155.00			155.00	Rft
	(vii) 7.5"(200 mm)						

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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.	8				8.00	Nos.

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Sr. No.	2nd BI- Annual-2022 (July to Dec) Toba tek singh	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	5.94	10,677.75	63,394
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	192.00	457.75	87,888
3	1/1 Rate Analysis	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.	Cft	168.96	104.21	17,607
Steel Work						
3	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):-	100Kg	4.80	31,784.50	152,566
		(c) Deformed bars (Grade-60)				

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DETAILED COST ESTIMATE
EXTERNAL ELECTRICAL WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
4	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.	350.00	40.75	14,263
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	1,800.00	185.85	334,530
		iii) 100 mm i/d	Rft	115.00	290.75	33,436
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	3,000.00	117.70	353,100
		iv) 16 mm sq (7/0.064")	Rft	700.00	173.95	121,765
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.	Rft	100.00	160.20	16,020
		v) 7/1.12 mm (7/0.044")	Rft	1,950.00	306.30	597,285
		vi) 7/1.63 mm (7/0.064")				
		c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-				
		vi) 10 mm (7/0.052")	Rft	350.00	523.85	183,348
		ix) 35 mm sq (19/0.064")	Rft	250.00	1,705.35	426,338
		xii) 95 mm sq (37/0.072")	Rft	120.00	3,676.05	441,126

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**DETAILED COST ESTIMATE
EXTERNAL ELECTRICAL WORKS**

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
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 ,tappered 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	6.00	106,229.10	637,375
		b) Double Arm				
		(i) 10 mtr height	Each	2.00	109,871.10	219,742
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	Each	10.00	51,675.00	516,750
		(v) 90 Watt with 10800 Lumens				
10	24/77	Supply and erection of electric energy meter, including meter testing fee, etc.				
		a) single phase:				
		ii) 1x30 Amp, 250 volts	Each	12.00	3,940.50	47,286
		b) three phase, 4 wires:				
		iii) 3x80 Amp, 400 volts	Each	1.00	14,659.25	14,659

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DETAILED COST ESTIMATE
EXTERNAL ELECTRICAL WORKS**

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
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 prelaid 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- Waiting Hall	Each	18.00	1,101.75	19,832
		DB-Workshop	Each	9.00	1,101.75	9,916
		DB-Shops 1 & 2	Each	33.00	1,101.75	36,358
		LCP Ext	Each	9.00	1,101.75	9,916
		b) Double Pole				
		(ii) 6-40 Amp (6 KA)				
		DB- Waiting Hall	Each	1.00	3,351.75	3,352
		DB-Workshop	Each	1.00	3,351.75	3,352
		DB-Shops 1 & 2	Each	11.00	3,351.75	36,869
		DB-Shops 1 & 2	Each	11.00	3,351.75	36,869
		Meter panal board - Shops				
		c) Tripple Pole				
		(ii) 6-40 Amp (6 KA)				
		DB- Waiting Hall	Each	2.00	6,753.00	13,506
12	24/87	Supplying ,Installation and comissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/ SIEMEN/ ABB SWITZERLAND (with fixed 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				
		(ii) 15-100 Amp (10 KA,15KA)				
		DB-Workshop	Each	1.00	11,433.00	11,433
		DB-Workshop	Each	1.00	11,433.00	11,433
		LCP - Ext	Each	5.00	11,433.00	57,165
		LT MPB				
		(iv) 125-250 Amp(18 KA)				
		LT MPB	Each	2.00	23,493.00	46,986
		(vi) 125-250 Amp(25KA)				
		LT MPB	Each	1.00	31,653.00	31,653
		DB- Waiting Hall	Each	1.00	31,653.00	31,653
		Meter panal board - Shops				

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EXTERNAL ELECTRICAL WORKS**

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
13	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 prelaidd 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%)				
		(v) 200-250 Amp(36 KA)				
		LT - MPB	Each	1.00	68,433.00	68,433
14	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")	Cft	1.50	18,634.45	27,952
		DB-Workshop	Cft	1.50	18,634.45	27,952
		LCP - Ext				
		(b) 12" deep				
		(iii) 125~150A (3'x3'x12")	Cft	18.00	5,131.05	92,359
		MPB - Shops and waiting hall				

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**DETAILED COST ESTIMATE
EXTERNAL ELECTRICAL WORKS**

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
15	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				
		a) 2.50 Ft deep				
		(i)300~600A (3.0x6'x2.5')	Cft	45.00	3,433.80	154,521
16	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	Each	1.00	789,790.75	789,791
		(i) 15-40 KVA				

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DETAILED COST ESTIMATE
EXTERNAL ELECTRICAL WORKS

Sr. No.	2nd BI- Annual-2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
17	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) 100 KVA	Each	1.00	672,291.70	672,292
18	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	10.00	9,592.65	95,927
19	24/72	Bonding to earth with wire on surface, including cost of wire, clamps, thimbles, etc.				
		a) G.I. wire:	Rft.	100.00	23.25	2,325
		i) 8 SWG				
20	24/76	Supply and erection of 25 mm (1") dia and one metre long lightning conductor copper rod with 5 spikes on ball and base, etc. complete.	Job	10.00	4,274.00	42,740
Sub Total Scheduled Items: (A)						6,613,058

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**DETAILED COST ESTIMATE
 EXTERNAL ELECTRICAL WORKS**

Sr. No.	2nd BI- Annual-2022 (July to Dec) Toba tek singh	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
21	N.S	Supply at site brand new 60KVA 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 60KVA 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	5,648,730	5,648,730
		Total Cost (Part B)			Rs.	5,648,730
		Grand Total (Part A + Part B)			Rs.	12,261,788

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DETAILED COST ESTIMATE

TUBE WELL

Installation of Tubewell (0.25 Cusec)

Sr. No	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit	Qty.	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	770.65	154,130
		b) exceeding 200 ft. (60 m) depth below ground level:-				
		i) 15" to 18" (375 to 450 mm) i/d	P.Rft	120.00	770.65	92,478
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	34,378.70	34,379
3	23/8	Furnishing sample of water from borehole each set of 2 bottles.	Per Set of Two bottles	2.00	183.95	368
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	38,178.90	6,872
		Housing Pipe				
5	23/17/g	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.	Per Rft	150.00	1,683.10	252,465
		g) 6" i/d (150 mm)				
		Blind Pipe				
6	23/17/e	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.	Per Rft	130.00	794.40	103,272
		e) 4" i/d (100 mm)				

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DETAILED COST ESTIMATE
TUBE WELL

Installation of Tubewell (0.25 Cusec)

Sr. No	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit	Qty.	Unit Rate (Rs)	Amount (Rs)
		Strainer				
7	23/12/c	Providing and installing P.V.C. strainer B.S.S. Class 'D', in tubewell bore hole, including sockets and solvent, etc. complete:- e) 4" i/d (100 mm)	Per Rft	40.00	408.45	16,338
		Bail Plug				
8	23/14	Providing and installing P.V.C. Bail/End plug, in tubewell bore hole:- v) 4" i/d (100 mm)	Each	1.00	155.75	156
		Pea Gravel				
9	23/19	Shrouding with graded pea gravel 3/8" to 1/8" around tubewell in borehole	Per Cft	736.00	145.30	106,941
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	2,828.55	203,656
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	319.50	12,780
		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 (viii) 3" dia	Each	1.00	30,804.00	30,804
13	23/34b	Air Valve Providing and fixing, air valve 2½ (65mm) dia of B.S.S.quality and weight (complete with jointing material). Double	Each	1.00	11,458.05	11,458

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DETAILED COST ESTIMATE

TUBE WELL

Installation of Tubewell (0.25 Cusec)

Sr. No	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit	Qty.	Unit Rate (Rs)	Amount (Rs)
		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 gasket where required complete in all respect as approved and directed by the Engineer Incharge				
		(b) Flange Ended Ductile Iron Valve				
		(viii) 3" dia	Each	1.00	21,732.00	21,732
		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	32,478.30	6,769
16	25/11	Erection and fitting in position iron trusses, staging of water tanks, etc.	100Kg	0.21	1,277.25	266
					Total. A	1,054,864
		NON SCHEDULE ITEMS				
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

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DETAILED COST ESTIMATE

TUBE WELL

Installation of Tubewell (0.25 Cusec)

Sr. No	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit	Qty.	Unit Rate (Rs)	Amount (Rs)
		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	1,434,620	1,434,620
					Total. B	1,494,620
					Total A+B	2,549,484
		Total Amount Rs.				

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DETAILED COST ESTIMATE
DISMANTLING WORK

Sr. No.	2nd Bi-Annual-2022 (July to Dec) Toba tek singh	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
Existing Ticket Counter (Size 12 x 28 ft)						
Dismantling						
1	4/13	Dismantling brick work in lime or cement mortar.	100Cft	5.93	4,317.45	25,597
2	4/20	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same	100Cft	1.68	18,285.70	30,720
3	4/32	a) Removing door with chowkat.	No.	1.00	438.00	438
4	4/32	b) Removing windows and sky lights with chowkat.	No.	1.00	341.50	342
5	4/19	c) Dismantling cement concrete 1:2:4 plain.	100Cft	0.84	11,174.60	9,387
Deduction						
6	40% of Input Rate - Materials 2nd Bi Annual 07.001	Deduction of used bricks from original quantity.	1000 No.	8.00	4,200.00	(33,616)
Existing Office + Toilet (Size 12 x 10 ft)						
Dismantling						
1	4/13	Dismantling brick work in lime or cement mortar.	100Cft	9.08	4,317.45	39,221
2	4/20	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same	100Cft	1.26	18,285.70	23,040
3	4/32	a) Removing door with chowkat.	No.	5.00	438.00	2,190
4	4/32	b) Removing windows and sky lights with chowkat.	No.	4.00	341.50	1,366
5	4/19	c) Dismantling cement concrete 1:2:4 plain.	100Cft	0.63	11,174.60	7,040
Deduction						
6	40% of Input Rate - Materials 2nd Bi Annual 07.001	Deduction of used bricks from original quantity.	1000 No.	12.26	4,200.00	(51,508)
Total						54,216

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DISMANTLING WORK
CALCULATION OF QUANTITIES

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Existing Ticket Counter (Size 12 x 28 ft)							
Dismantling							
1	Dismantling brick work in lime or cement mortar.						
		1	62	0.75	11.00	511.50	Cft
		1	62	1.13	0.50	34.88	Cft
		1	62	1.50	0.50	46.50	Cft
					Total	592.88	Cft
					Total	5.93	%Cft
2	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same						
		1	12.00	28.00	0.50	168.00	Cft
					Total	1.68	%Cft
3	a) Removing door with chowkat.	1				1.00	No
4	b) Removing windows and sky lights with chowkat.	1				1.00	No
5	c) Dismantling cement concrete 1:2:4 plain.	1	12.00	28.00	0.25	84.00	Cft
					Total	0.84	%Cft
Existing Office + Toilet (Size 12 x 10 ft)							
Dismantling							
1	Dismantling brick work in lime or cement mortar.						
		1	95	0.75	11.00	783.75	Cft
		1	95	1.13	0.50	53.44	Cft
		1	95	1.50	0.50	71.25	Cft
					Total	908.44	Cft
					Total	9.08	%Cft
2	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same						
		1	12.00	21.00	0.50	126.00	Cft
					Total	1.26	%Cft
						5.00	No
3	a) Removing door with chowkat.	5					

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DISMANTLING WORK
CALCULATION OF QUANTITIES

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
4	b) Removing windows and sky lights with chowkat.	4				4.00	No
5	c) Dismantling cement concrete 1:2:4 plain.	1	12.00	21.00	0.25	63.00	Cft
					Total	0.63	%Cft

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 DETAILED COST ESTIMATE
 ENVIRONMENTAL MITIGATION COST**

Sr No	Description	Unit	Quantity	Unit Rate (Rs.)	Amount Rs.
Labor Safety					
1	Face Masks (3 PLY)	Nos	15.00	500.00	7,500
2	Safety Gum Shoes	Nos	15.00	1,000.00	15,000
3	Hand Gloves	Nos	15.00	1,000.00	15,000
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	500.00	7,500
7	Reflective Safety Vests	Nos	15.00	500.00	7,500
				Sub Total	87,500
Working Site Safety					
1	Reflective Safety Signs Boards	Nos	3.00	10,000.00	30,000
2	Reflective Safety PVC Cones (18 inch)	Nos	8.00	1,200.00	9,600
3	Road Guiding Portable Delineators with Chain	Nos	2.00	2,500.00	5,000
4	Reflective Safety Barricading Tape	Nos	10.00	1,500.00	15,000
5	Emergency Portable Light	Nos	1.00	5,000.00	5,000
6	Solid Waste Collection Drums	Nos	1.00	5,000.00	5,000
7	Fire Extinguishers DCP	Nos	1.00	5,000.00	5,000
				Sub Total	74,600
Others					
1	Water Sprinkling(Dust Abatement)	L.S	1.00	50,000.00	50,000
				Sub Total	50,000
Total Amount (Rs)					212,100

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
EARTH WORK LEAD CHART
Rate Analysis Road- 1

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Lead	Unit.	Qty	Rate (Rs)	Amount (Rs)
1	3/5/i	Earthwork in ordinary soil for embankments lead upto 100 ft. (30 m), including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- i) 95% to 100% maximum modified AASHO dry density.	1	1000Cft	1	9,527.90	9,527.90
2	3/17a.b.c	Carriage					
		upto ¼ mile (400 m).	1	1000 Cft	1	4,248.00	4,248.00
		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	47.50	570.00
		for every ¼ mile (400 m) additional lead or part thereof, beyond one mile (1.6 Km.) upto 5 mile (8 Km).	8.5	1000 Cft	1	338.40	2,876.40
		for every ½ mile (800 m) additional lead or part thereof, beyond 5 miles (8 Km).	0	1000 Cft	1	320.35	-
		Total Amount I,000 (Rs.).					17,222.30
		Total Amount Per Cft					17.22

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
Rate Analysis Road- 2

Description							
Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)							
Crush Stone							
Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	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	6,513.00	6,513.00
2		Carriage					
	1/1	1st KM	100 Cft	1	1.2	299.40	359.28
		2nd KM	100 Cft	1	1.2	145.25	174.30
		3rd KM	100 Cft	1	1.2	116.85	140.22
		4th KM	100 Cft	1	1.2	85.30	102.36
		5th KM	100 Cft	1	1.2	80.20	96.24
		6th KM	100 Cft	1	1.2	79.00	94.80
		7th KM	100 Cft	1	1.2	74.25	89.10
		8th KM	100 Cft	1	1.2	73.50	88.20
		9th KM	100 Cft	1	1.2	69.55	83.46
		10th KM	100 Cft	1	1.2	65.70	78.84
		From 11 km to 200 km	100 Cft	163.00	1.2	57.25	11,198.10
		Total.					19,017.90
		Total Amount per 100 Cft					19,017.90
		Total cast for Per Cft					190.18

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
Rate Analysis Road - 3**

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

Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba tek singh	Description	Unit	Lead (Km)	Qty	Rate (Rs)	Amount (Rs.)
1	18/4(a)	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100 Cft		1	13,776.40	13,776.40
2		Carriage of 100 cft of all materials like stone aggregate spawl kanker lime surkhi etc or 150 cft of timber by truck or by any other means owned by the contractor.					
			100 Cft	1	1.22	299.40	365.27
		1st KM	100 Cft	1	1.22	145.25	177.21
		2nd KM	100 Cft	1	1.22	116.85	142.56
		3rd KM	100 Cft	1	1.22	85.30	104.07
		4th KM	100 Cft	1	1.22	80.20	97.84
		5th KM	100 Cft	1	1.22	79.00	96.38
		6th KM	100 Cft	1	1.22	74.25	90.59
		7th KM	100 Cft	1	1.22	73.50	89.67
		8th KM	100 Cft	1	1.22	69.55	84.85
		9th KM	100 Cft	1	1.22	65.70	80.15
		10th KM	100 Cft	163.00	1.22	57.25	11,384.74
		From 11 km to 200 km					26,489.72
		Total.					26,489.72
		Total Amount per 100 Cft					264.90
		Total cast for Per Cft					

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

Rate Analysis Road - 4

Manhole Construction 2 x 2 Ft										
Sl. No.	2nd BI Annual-2022 (July to Dec) Teha tek singh	Description	No.	Length	Width	Height	Qty	Unit	Rate (Rs)	Amount (Rs)
1	3-42-i	Excavation. (0 to 7 feet depth)	1	3.50	3.50	3.00	36.75	1000 Cft	11,740.40	431.46
2	6-3-b	Cement concrete brick or stone ballast (1:4:8)	1	3.50	3.50	0.33	4.04	100 Cft	24,796.45	1,002.40
3	6-5-f	Base slab	1	3.50	3.50	0.25	3.06	100 Cft	38,178.90	1,169.23
4	6-6-(a)(i)	Top ring Beam Ratio 1:2:4	1	3.500	3.50	0.33	4.04	100 Cft	556.50	2,249.65
5	6/12 (c)	Steel work		3.00 kg per cft			14.15	kg	31,784.50	4,497.11
6	7-7-i	Brick Work Ratio 1:3 Step - 1	1	11.00	0.75	2.00	16.50	100 Cft	32,796.10	5,411.36
7	11-8-c	3/4" thick Plaster Ratio 1:3 (External)	1	11.00		2.00	22.00	100 Sft	4,589.85	1,009.77
8	11-18-a	Cement pointing struck joints, on walls (1:2) (Internal)	1	8.00		2.00	16.00	100 Sft	3,518.35	562.94
9	13-9-i	Bitumen Coating on External Plaster	1	11.00		2.00	22.00	100 Sft	2,148.00	472.56
10	19-40-ii	Supply and fitting of cast iron manhole cover ii) 45 cm (18") dia	1				1.00	Each	1,342.50	1,342.50
Grand Total.										18,149

**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 of wall mounted mirror LED light 10 watt with tube rod and frame all necessary fixing accessories, complete in all respects

Sr. No.	Ref	Detail	Unit Rate (British System) per Each		
			Qty	Rate Per Unit	Amount (Rs.)
		Material			
1	MR	Mirror Light	1.00	No. 1,015	1,015.00
				Total.	1,015.00
2		Contractor's Profit	20	%	200.00
		Total (1+2)			1,215.00
		ITEM RATES			
		Composite rate Per Each		Rs.	1,215.00

**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 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.)			
		Material							
1	MR	LED Down Light	1.00	No.	1,190	No.			1,190.00
								Total.	1,190.00
2		Contractor's Profit	20	%					240.00
		Total (1+2)							1,430.00
		ITEM RATES							
		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 recessed 10W LED Down Light complete in all respects.

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.	2,385 No.	2,385.00
				Total.	2,385.00
2		Contractor's Profit	20 %		475.00
		Total (1+2)			2,860.00
		<u>ITEM RATES</u>			
		Composite rate Per Each		Rs.	2,860.00

**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 smart LED Monitor of 50" size, brand Samsung, I.G, Sony for CCTV camera viewing, including cost of all necessary accessories complete in all respects.

Sr. No.	Ref	Detail	Unit Rate (British System) per Each		
			Qty	Rate Per Unit	Amount (Rs.)
		Material			
1	MR	Smart LED Monitor 50"	1.00 No.	122,850 No.	122,850
				Total.	122,850
2		Contractor's Profit on item No. (1&2) 20 %			24,570
		Total (1+2)			147,420
		ITEM RATES			
		Composite rate Per Each		Rs.	147,420

**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

Sr. No.	Ref	Detail	Unit Rate (British System) per Each		
			Qty	Rate Per Unit	Amount (Rs.)
		Material			
1	MR	Highbay Light	1.00	No. 29,195	No. 29,195
					Total. 29,195
2		Contractor's Profit	20	%	5,840
		Total (1+2)			35,035
		ITEM RATES			
		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
 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.

Sr. No.	Ref	Detail	Unit Rate (British System) per Sft		
			Qty	Rate Per Unit	Amount (Rs.)
		Area 1920 Sft			
		Material			
1	MR	Supply of PEB Shed (32' x 60')	1 Sft	2,421,927	2,421,927
		GST		17 %	411,728
		Total.			2,833,655
2	MR	Installation Charges			100,914
		PST		-16 %	-16,146
		Total.			117,061
		Contractor's Profit on item No. (1&2)		20 %	504,568
		Total			3,455,284
		ITEM RATES			
		Composite rate 1920 Sft			Rs. 3,455,290
		Composite rate Per Sft			Rs. 1,800
					1791.68

**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.

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.	5,895 No.	5,895
				Total.	5,895
2		Contractor's Profit	20 %		1,100
		Total (1+2)			6,995
		<u>ITEM RATES</u>			
		Composite rate Per Each		Rs.	6,995
		Say		Rs.	7,000

**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 60KVA 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 20KVA DGSet complete in all respect, Loading 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 engineer discharge instructions.

Sr. No.	Ref	Detail	Unit Rate (British System) per Each		
			Qty	Rate Per Unit	Amount (Rs.)
		Material		1 S = 240	
1	MR	Brand New KOHLER-SDMO France Diesel Generator Set, Model K66; 60 kVA Prime Power & 66 kVA Standby Power	1	No. 4,407,270	No. 4,407,270
	MR	Sound and Weather Proof Canopy	1	No. 300,000	No. 300,000
				Total.	4,707,270
2		Contractor's Profit	20	%	941,454
		Total (1+2)			5,648,724
		ITEM RATES			
		Composite rate Per Each			Rs. 5,648,730

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

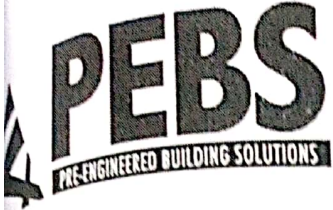
Description
Providing, installing, testing and lowering submersible pump of 0.25 cusecs capacity against a pumping head of 200 ft. including lowering of bowl assembly about 150 ft. column pipe/setting alongwith flow meter, pressure guage, CI. Bends tail pieces etc. upto duck foot bend, motor control unit and earthing, testing complete in all respects as per specifications, drawings and as approved by the Engineer incharge.

Sr. No.	Ref	Detail	Unit Rate (British System) per Each		
			Qty	Rate Per Unit	Amount (Rs.)
		Material			
1	MR	KSB Pump Model: BPDS 6/30-071; Flow: (25-28) m ³ /hr, Head: (58-61) m, Motor: 7.5 KW @ 2 Pole	1	No. 1,195,515	No. 1,195,515
					Total. 1,195,515
		Contractor's Profit	20	%	239,103
		Total (1+2)			1,434,618
		ITEM RATES			
		Composite rate Per Each			Rs. 1,434,620

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

RATE ANALYSIS

Description						
Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.						
						173 Km
Sr. No.	2nd BI-Annual-2022 (July to Dec) Toba Tek Singh	Description	Unit	Lead (Km)	Rate (Rs)	Amount (Rs)
1		Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.				
	1/1	1st KM	100 Cft	1	299.40	299.40
		2nd KM	100 Cft	1	145.25	145.25
		3rd KM	100 Cft	1	116.85	116.85
		4th KM	100 Cft	1	85.30	85.30
		5th KM	100 Cft	1	80.20	80.20
		6th KM	100 Cft	1	79.00	79.00
		7th KM	100 Cft	1	74.25	74.25
		8th KM	100 Cft	1	73.50	73.50
		9th KM	100 Cft	1	69.55	69.55
		10th KM	100 Cft	1	65.70	65.70
		From 11 km to 200 km	100 Cft	163	57.25	9,331.75
						10,420.75
		Total.				10,420.75
		Total Amount per 100 Cft				104.21
		Total Cost for Per Cft				



WAHDAT INDUSTRIAL SERVICES (PRIVATE) LIMITED

Address: 189/190 – Commercial Area, Airline Society, Khayaban-e-Jinnah, Lahore

Date: April 26th, 2022

To: M/s Jers Consultancy

Reference No: PEBS-22-069

Project Name: Parking Shed

Dear Sir,
Thank you for giving us the opportunity to submit our proposal for the above-mentioned project.

Our proposal is based on the drawings and data provided by you and is in accordance with PEBS standard design practices and terms & conditions of sale.

Our scope of work covers design, fabrication, supply and installation of Pre-Engineered Building in accordance to the standards and specifications of PEBS, unless otherwise stated in the proposal.

We intend to comply with your project requirement however kindly refer Section 9 of this proposal for exclusions, deviations and assumptions which are applicable to this offer.

Our prices are valid for a period of 3 days from the date of this quote.

We are keen to secure this project and start new business relations with your esteemed company.

We assure you of superior quality of our buildings and best after sale services.

Sincerely

Saad Khalid
Director

PEBS-22-069

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Tel: +92-42-35955162-6449, +92-306-1111-611



WAHDAT INDUSTRIAL SERVICES (PRIVATE) LIMITED
Address: 189/190 – Commercial Area, Airline Society, Khayaban-e-Jinnah, Lahore

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PEBS-22-069

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Tel: +92-42-35955162-64¹⁵⁰, +92-306-1111-611

WAHDAT INDUSTRIAL SERVICES (PRIVATE) LIMITED
Address: 189/190 – Commercial Area, Airline Society, Khayaban-e-Jinnah, Lahore

Section No.1: Building Parameters

Sr.	Building Description		
1	Frame Type		Mono-Slope
2	Number of interior Columns		-
3	Width (m)		9.753 O/O of Steel Line
4	Length (m)		18.287 27.431 36.574 45.718 O/O of Steel Line
5	Clear Height (m)		6.096
6	Roof Slope (Rise: Run)		As per design
7	Bay Spacing (m)		As per design
8	Width Module		-
9	Base Condition	Exterior Column	Pinned
		Interior Column	Pinned
10	Bracing Types	At Roof	Cable Bracing
		At Wall	
11	Type of Eave		Eave Gutters & Downspouts
12	Type of Gable		Gable Trim
13	Fillet Weld of Built up Sections		Single Side Welding for all Built up Sections

Sr.	Wall Conditions	
1	Front Side Wall	Open
2	Back Side Wall	Open
3	Left End Wall	Open
4	Right End Wall	Open

WAHDAT INDUSTRIAL SERVICES (PRIVATE) LIMITED

Address: 189/190 – Commercial Area, Airline Society, Khayaban-e-Jinnah, Lahore

Item	Roof and Wall Cladding	
Roof Cladding	Outer Sheet	0.5mm (Nominal) Pre-Painted Aluzinc Sheets (Imported)
	Insulation	Not Applicable
	Inner Sheet	Not Applicable
Wall Cladding	Outer Sheet	Not Applicable
	Insulation	Not Applicable
	Inner Sheet	Not Applicable

Exclusions

- All kind of works not offered in our scope of supplies & services.
- Any civil works including but not limited to RCC Screed, Brick Masonry, Excavation, Foundation Works, D.P.C, Flooring, and Plastering is not included in our scope.
- Doors, window, false ceiling, Glasswork, Fascia etc.
- Anchor bolts fixing, Foundations, Electrification and Plumbing etc.
- Electricity and water at site during erection

PEBS-22-069

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Tel: +92-42-35955162-64, +92-306-1111-611

WAHDAT INDUSTRIAL SERVICES (PRIVATE) LIMITED
Address: 189/190 – Commercial Area, Airline Society, Khayaban-e-Jinnah, Lahore

Section No.2 Building Loads

Sr.	Design Load	Value
1	Design Live Load on Roof (kN/m ²)	0.57
2	Design Live Load on Frame (kN/m ²)	0.57
3	Co-lateral Load (kN/m ²)	0.00
4	Wind Speed (km/hr)	135
5	Wind Exposure Category	B
6	Seismic Zone	2B (as per UBC 1997)
7	Rainfall Intensity (mm/hr)	150 mm/hr.
8	Solar Loading (kN/m ²)	0.00

Section No.3 Applicable Codes

is applied on buildings and tolerances for fabrication and erection are in accordance with:

2010 edition of the Low Rise Building Systems
Manual By Metal Building Manufacturers Association, Inc.
(AIA) 1300 Summer Ave., Cleveland, Ohio 44115, USA

rolled sections and built up sections are designed in accordance with:

2005 edition of the Manual of Steel Construction,
American Institute of Steel Construction, Inc. (AISC)
10 Wacker Drive, Suite 3100, Chicago, Illinois 606012001,

formed members are designed in accordance with:

2001 Edition of Cold Formed Steel design
Manual By American Iron and Steel Institute (AISI) 1000
Street, NW, Washington, DC 20036, USA

welding and its inspection / testing for Steel Structure Fabrication will be in accordance with:

latest Edition of Structural Welding Code - Steel (AWS D1.1: 2008)
American Welding Society (AWS)
1100 NW LeJeune Road, Miami, FL 33126, USA

Section No.4: Material Specifications

Sr.	Building Component	Material Specification	Strength
1	Built-up Section		
2	Hot Rolled Sections	I-Sections	ASTM A-36
		Channels	
3	Cold Formed Secondary Members	Purlins	ASTM A653M Grade 340 Class 1 Z275
		Girts	
4	Sheeting Panels	Roof	PPGL as per ASTM A792M Grade 345B Class 1 AZM150
		Wall	
5	Diagonal "X" Bracing	Bracing Cable	ASTM A475 Extra High Strength Class A
		Bracing Rods	ASTM A36M (or Equivalent)
		Flange Braces	ASTM A36 (or Equivalent)
6	Sag Rods	ASTM A36M (or Equivalent)	Fy:25.0 kN/cm2
7	Base and Gable Angles	ASTM A653M Grade 340 Class 1 Z275	Fy:34.0 kN/cm2
8	Anchor Bolts	ASTM A36M (or Equivalent)	Fy:25.0 kN/cm2
9	High Strength Bolts	ASTM A325 Type 1 (Hot-dip Galvanized)	Fy:66.0 kN/cm2

Material Finish

All primary members will be cleaned and then painted with single coat of red oxide primer (DFT 30-40 microns) and then painted with final enamel paint. (70-80 microns)
All secondary members will be made of pre-galvanized coil.



WAHDAT INDUSTRIAL SERVICES (PRIVATE) LIMITED
Address: 189/190 – Commercial Area, Airline Society, Khayaban-e-Jinnah, Lahore

Section No.5: Approval Drawings

Approval drawings under this agreement will be submitted in 2 weeks from the date of receipt of the following:

- Signed Contract
- Advance Payment

Client must sign and return the Approval drawings to PEBS within 1 week of receipt of these drawings.

Any variation requested by client after submission of Approval drawings will result in change in contract and delivery period. Such change must be mutually agreed in writing as Variation Order.

Section No.6 Delivery Schedule

PEBS will design, fabricate and dispatch the material to Job site in 08-10 weeks. However, this period will begin from the latest date of receipt and acceptance of the following:

- Signed Contract
- Advance Payment
- Receipt of Signed Approval Drawings from client
- In case of any variation, Clients written acceptance for variation in price and delivery period.

The delivery period mentioned above is dependent on client fulfilling all its obligation in a timely manner, including the return of approval drawings and adhering to agreed payment schedule.

Erection of the Building will start after the arrival of first dispatch material at job site. Erection schedule will be established at the finalization stage.

PEBS-22-069

7

Tel: +92-42-35955162-64, +92-306-1111-611



WAHDAT INDUSTRIAL SERVICES (PRIVATE) LIMITED
Address: 189/190 – Commercial Area, Airline Society, Khayaban-e-Jinnah, Lahore

Section No. 7: Prices

Sr. #	Description	Price (PKR)
1	Supply of PEB Shed (32' x 60')	
2	Supply of PEB Shed (32'x 90')	2,421,927/-
3	Supply of PEB Shed (32' x 120')	3,632,891/-
4	Supply of PEB Shed (32' x 150')	4,843,855/-
Total Supply Amount (Exclusive of GST)		6,054,818/-
GST @ 17%		16,953,491/-
Total Amount (Inclusive of GST)		2,882,094/-
		19,835,585/-
1	Installation Services (32' x 60')	100,914/-
2	Installation Services (32'x 90')	151,371/-
3	Installation Services (32' x 120')	201,827/-
4	Installation Services (32' x 150')	252,283/-
Total Installation Services Amount (Exclusive of PST)		706,395/-
PST 16%		113,023/-
Total Amount Inclusive of PST)		819,419/-

Supply amount is subjected to sales tax on supplies. Applicable percentage (17%) will be added to our bill and sales tax invoice will be provided of the same upon receipt by Wahdat Industrial Services (Pvt) Ltd.

Supply amount is subjected to 4% income tax under section 153(1)(a)(Income tax Ordinance). Client shall provide withholding challans of the same.

Installation services amount is subjected to sales tax on services. Applicable percentage (16%) will be added to our bill and sales tax invoice will be provided of the same upon receipt by Ittefaq Building Solutions (Pvt) Ltd.

Installation services amount is subjected to 8% income tax under section 153(1)(B)(Income tax Ordinance). Client shall provide withholding challans of the same.

PEBS-22-069

8

Tel: +92-42-35955162-64, 92-306-1111-611



WAHDAT INDUSTRIAL SERVICES (PRIVATE) LIMITED

Address: 189/190 – Commercial Area, Airline Society, Khayaban-e-Jinnah, Lahore

Condition No.8 Payment Terms

Advance Payment

- 50% - Advance on Signing of Contract or Receipt of PO
- 25% - Before Dispatch of Building Framing
- 25% - Before Dispatch of Building Sheeting

Installation Services Payment

- 50% - Before Installation Services
- 50% - After completion of Installation Services

Condition No.9: Deviations, Exclusions and Assumptions

Manufacturing and supply will be initiated only after receipt of complete engineering package duly reviewed by the Client.

The parties agreed that the price quoted in this quotation is based on a lump sum basis calculated according to the building descriptions as well as the required loading and codes shown above and not as a measurable basis. Hence, the project weight given at the quotation stage is only indicative and no weight will be entertained in case of a reduction in the building weight after the final design or the contract. However, should there be any revision to the scope of the work after signing of the contract, it may result in an increase or decrease in the contract value.

PEBS-22-069

9

Tel: +92-42-35955162-64¹⁵⁷, 92-306-1111-611



WAHDAT INDUSTRIAL SERVICES (PRIVATE) LIMITED

Address: 189/190 – Commercial Area, Airline Society, Khayaban-e-Jinnah, Lahore

in No. 10 Standard Terms and Conditions

- **Changes / Revisions**

Any change or revision to the above stated scope of supply may lead to a variation in the price and the delivery period. A change must not hold payment for work completed as per original contract.

- **Additional Works**

For any additional work (which is not included in our scope of work) cost will be charged separately from given price

- **Escalation clause**

Prices are quoted as per prevailing market conditions: any change in material price can affect the quoted price after expiry of quotation validity period.

- **Proposal Validity**

Prices are valid for a period of 3 days from the date of this quote.

If the job (project) is not "Finalized by the client" within 3 days from the date of entering this order, it will be subject to delivery change and price change in accordance with the prevailing delivery schedules and prices at the end of above noted period.

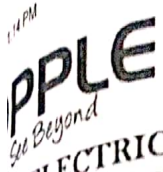
- **Termination of Agreement**

If clients terminate the agreement after payment of advance and submission of approval drawings by PEBS then PEBS have right to keep the advance payment to cover the expenses that occurred during that period and client will have no claim on that payment.

PEBS-22-069

10

Tel: +92-42-35955162-64, 158, 92-306-1111-611



OPPLE ELECTRIC (SMC) PVT LTD.
 #. 5381194, SRTN# 3277876163771

JERS CONSULTANCY PVT LTD

HOUSE NO E279/1, STREET NO 2,
 RIFFLE RANGE ROAD WALTON ROAD
 LAHORE CANTT.
 WWW.OPPLE.COM
 Email: OPPLE.ECOTEK@GMAIL.COM
 Mobile : 0301-8440368, 0332-3877786

QUOTATION

QTN-01544-1

Customer Name: JERS CONSULTANCY PVT LTD
 Date: 05-08-2022
 Supplier Name: JERS CONSULTANCY PVT LTD
 MR ASAD: 03004315935

Description	Quantity	Rate	Amount
140053331 LED-HML455A-D0.2*40-6500K-Knight	Nos 1	Rs 4,000.00	Rs 4,000.00
503002016210 LED-E1-T5 batten-870mm-10.5W-4000K	Nos 1	Rs 850.00	Rs 850.00
540001136310 LEDDownlight RC-US R150-12W-6500-WH-SASA - PF >.95	Nos 1	Rs 1,000.00	Rs 1,000.00
540001136310 WITH BACK BOX LEDDownlight RC-US R150-12W-6500-WH-SASA - PF >.95	Nos 1	Rs 1,500.00	Rs 1,500.00
545001007410 LEDHighbay-P4 110W-5700-60+100D-GY-GP	Nos 1	Rs 24,500.00	Rs 24,500.00

Total: Rs 31,850.00
 Grand Total: Rs 31,850.00
 Rounded Total: Rs 31,850.00
 In Words: PKR Thirty One Thousand, Eight Hundred And Fifty only.

Terms & Conditions:

TERMS:	Ex-Warehouse
PAYMENT:	100% Advance payment.
DELIVERY:	Subject to availability of stock otherwise 7-8 weeks from the date of confirmed PO/Advance.

1:14 PM

TERMS & CONDITIONS:

Quoted Price Ex-clusive of GST 17% , Incom Tax 4.5% not be deducted , exemption certificate available.

DELIVERY:

As per Govt. rules and regulations, In case of any change in the terrif from Govt. of Pakistan that will be applicable accordingly.

LEAD TIME:

20 days.

WARRANTY:

2 Year Warranty against any manufacturing defect.

OTHER:

Force majour clause is applicable, partial payment and partial payment is allowed.

WAN HUSSAIN

Phone: +92 301 8440368



JUBILEE CORPORATION

Wahlgear • Automation • Instrumentation • Controls Technology Driven Quality Service

First Floor, Fakhri Trade Centre, Shahrah-e-Ul-Quat, P.O. Box: 677, Karachi-74200 Pakistan. UAN: 021 111 000 520
Tel: +92 21 3260 2200-07 (8 lines), Fax: +92 21 3260 2211
Web: www.jubilee.com.pk Email: jubilee.corp@cyber.net.pk

Wednesday, 10 August 2022
 Mr. Adil Akhtar
 Consultant
 Question for switchgear components
 P/1809/2022

SR NO.	DESCRIPTION	RATING	MODEL	MAKE	ORIGIN	QTY	U/P	TOTAL
11KV DCL STARTER COMPONENTS BASED ON TERASAKI								
1	AICCB TP ADL	12.5A TO 25A 18kV	S125NI	TERASAKI	JAPAN	1	25,000	25,000
2	MAGNETIC CONTACTOR TP	18A PAC3	TC-18b	TERASAKI	KOREA	1	6,300	6,300
3	THERMAL OVERLOAD RELAY	0-14	TK32a	TERASAKI	KOREA	1	8,000	8,000
							29,300	
							Errors & Omissions Expected (E&O)	
13.5KV STAR DELTA STARTER COMPONENTS BASED ON TERASAKI								
1	AICCB TP	20-31.5 18kV	S125NI	TERASAKI	JAPAN	1	25,000	25,000
2	MAGNETIC CONTACTOR TP (MAIN)	18A PAC3	TC-18b	TERASAKI	KOREA	1	6,300	6,300
3	MAGNETIC CONTACTOR TP (DELTA)	18A PAC3	TC-18b	TERASAKI	KOREA	1	6,300	6,300
4	MAGNETIC CONTACTOR TP (STAR)	18A PAC3	TC-18b	TERASAKI	KOREA	1	6,300	6,300
5	THERMAL OVERLOAD RELAY	0-14	TK32a	TERASAKI	KOREA	1	8,000	8,000
							51,900	
							Errors & Omissions Expected (E&O)	

TERMS & CONDITIONS

Price Validity:
 7 days from the date of offer submission. For further extension in validity, our confirmation in writing is necessary.

Our prices are calculated on current date of currency parity against PKR. In the event of any change in international currency rates / currency devaluation by government and final supply of order, rate difference will be on customer account.

Prices are calculated on present custom duties and government taxes. Any change in government regulation or duties and taxes at the time of import of material or during execution of order against customer's confirmed purchase order will be on customer account.

Delivery Period:
 Mostly from ready stocks. Remaining about 12-14 weeks from the date of confirmed purchase order and advance payment, whichever is later.

Any changes / revision / addition in purchase order after confirmation, delivery date will reset accordingly.

Force Majeure:
 Our offer is subject to usual Force Majeure clause.

General Sales Tax:
 General Sales Tax will be charged on the offered prices adhering to the law of Government of Pakistan. (Note: Sales Tax @ 17% will charge to you if you are a registered person (under Sales Tax Act, 1990). If you are unregistered person (as per law) then additional 3% will charge as further tax)

Our supplies are excluded from S.W.T under S.R.O 897 of 2013 [Point (i)] issued by FBR on October 4, 2013 as the commercial importers who paid value addition tax on such goods at the time of import as prescribed under Chapter II of the Sales Tax Special Procedure Rules, 2007 are excluded from the provision of these rules and the Sales Tax Special (Withholding) Rules, 2007 shall not be applicable on such supplies.

Payment Terms:
 100% advance payment along with confirm purchase order with Sales Tax.

Import Tax:
 Our supplies are exempted from WHT u/s 153(5) of the Income Tax Ordinance, 2001 as all taxes are duly paid at import stage u/s 148 against the supplies made to you by us.

Warranty:
 One-year warranty against any manufacturing defects. Our liability excludes natural wear & tear, defects arising after transfer of risk owing transport risks, installation, operation, maintenance contrary to manuals and instructions, mishandling or negligence on part of the customer.

Upon receipt of customer's intimation, we shall within adequate time repair or replace, at our option, the defective part, to bring the product in working condition.

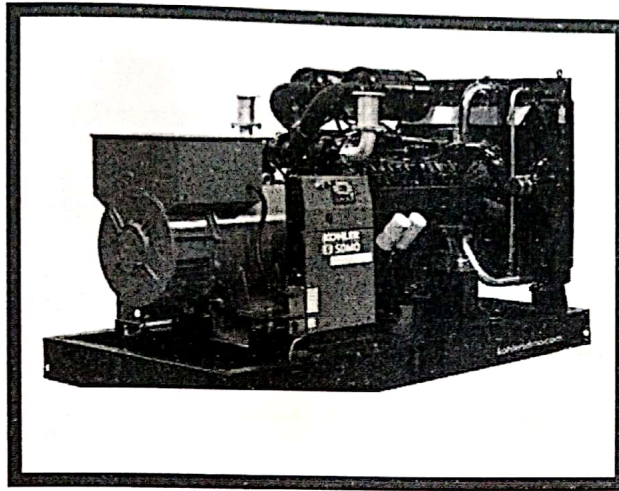
ADIL SHEER
 DEPUTY MANAGER PROJECTS

MANSOOR PASHA
 GM PROJECTS



**GREAVES PAKISTAN
PRIVATE LIMITED**

**KOHLER.
SDMO**



**RS CONSULTANCY
(PVT.) LTD.**

**PROPOSAL FOR 60 kVA
KOHLER-SDMO FRANCE
BRANDED DGSETS**

**Greaves Pakistan (Pvt) Ltd
HEAD OFFICE**

Modern Motor House, Beaumont Road,
Karachi-75530, Pakistan
UAN: 021-111-354-111

Branch Offices

LAHORE

3, Sunder Das Road,
Lahore.
UAN: (042) 111-354-111
Tel: (042) 36362241-2

Islamabad

1st Floor, Razia Sharif Plaza,
Blue Area, Islamabad.
UAN: (051)-111-354-111 Ext: 5117
Tel: (051) 2344543-7

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S. No.		
1.	Kohler SDMO Dealer Ship Certificate	Annex-A
2.	Executive Summary	Annex-B
3.	Price Summary	Annex-C
4.	Terms and condition	Annex-D
5.	Data Sheet Of Generators	

TO WHOM IT MAY CONCERN

Subject : **SALE AUTHORIZATION FOR 2022**

We undersigned SDMO INDUSTRIES, 270 rue Kérervern, 29490 Guipavas, FRANCE,

Hereby confirm that the company GREAVES PAKISTAN (Pvt) Limited having its principal place of business at Modern Motors House, Beaumont Road, Post Box 4908, Karachi 75530, PAKISTAN, is authorized on its behalf to sell, install and maintain the KOHLER-SDMO branded products in the territory of PAKISTAN.

This agreement is valid for one year from the date of signature of this authorization and might be renewed for a one-year period with the written agreement of SDMO Industries.

Each party shall be entitled to terminate this agreement at any moment by giving a 3 (Three) month notice by registered mail.

Neither party shall be required to compensate the other solely by virtue of termination of this agreement.

The sale of our products to GREAVES PAKISTAN (Pvt) Limited is subject to our General Conditions of Sale in force on the date of the order of which GREAVES PAKISTAN (Pvt) Limited has been informed.

This authorization cancels and replaces any previous contracts, correspondence or exchanges of any nature which have the same or similar purpose.

Made in Brest on November 30, 2021.

Olivier ANDRIEU
Director Sales Distribution, PS EMEA

**SDMO Industries**

Headquarters / Siège social : 270 rue de Kerervern – 29490 Guipavas Tel. + 33 (0)2 98 41 41 41

SDMO Industries CS 40047 – 29801 Brest Cedex 9 – France

SDMO Industries – SAS au capital de 17 066 520 € - R.C.S. Br 48 202 985 – N° TVA Intracommunautaire : FR60548202985

www.kohler-sdmo.com



GREAVES PAKISTAN (PVT.) LIMITED

Razia Sharif Plaza, 1st Floor, 90-Jinnah Avenue, Blue Area,
Islamabad, Pakistan



Ref # GFG/LHR/0754/T1
NTN # 0698508-4

SEP 15, 2022

M/s. Jers Consultancy (Pvt.) Limited
24 Civic Center Street,
Township Commercial Area,
Lahore – Pakistan

Kind Atten. : Mr. Asad Khalid

SUBJECT : PROPOSAL FOR KOHLER-SDMO 60 kVA PRIME RATING
DIESEL GENERATORS

Dear Sir,

We are pleased to submit our competitive proposal formulated for subject mentioned rating along with salient features of our branded Diesel GenSet – KOHLER-SDMO (Made in France) for your review and kind consideration.

We Greaves Pakistan is one of the leading names in the business hub of Pakistan, We are authorized dealer of Kohler-SDMO DG Sets (100 Years Old) which has achieved an enormous success throughout the world complying with ISO 9001 quality standards. A strong and committed team from Greaves Pakistan ensures that the offered package gives you best value for your investment.

Greaves Pakistan has its head office in Karachi, offices located at Islamabad, Lahore, Faisalabad, Multan, Hyderabad and Peshawar. Our trained and qualified Engineers are available to provide complete backup support after sales services at your door step 24/7 any time. A complete range of spare parts are kept in order to meet any emergency requirement both during and after the warranty period.

We are also leading business oriented company in Cement Industry-Cherat Cement, CNG-Comp Air, Air conditioning-York, and UPS-ETN Power.

Sincerely,

Engr. Tahir Imran
Deputy Manager Sales
Power Generation Division
Contact: 0336-5366494
tahir.imran@gfg.com.pk

GREAVES PAKISTAN (PVT) LTD. 3 – SUNDAR DAS ROAD, LAHORE UAN: 111-354-111 Ext: 4302 – Mobile:
0336-5366494



**KOHLER-SDMO FRANCE (FOREIGN COUPLED)
BRANDED DIESEL GENERATING SET
60 kVA Prime**

Technical Description

Kohler-SDMO: Powered with Kohler France Engine & Leroy Somer Alternator commercially branded as Kohler.

Complete Machine Manufactured & Shipped from France factory

Diesel Generator 1500 RPM, 400 Volts, 0.8 P.F, 50 HZ

Salient Features:

- IP23 Protection
- Class H Insulation
- Automatic Voltage Regulator
- Emergency Push Button
- User O&M Manual
- First Oil Filled
- First Coolant Filled.
- Engine Sump Oil Drain Tap
- Engine Coolant Drain
- Control Systems
- One Set Instruction Manual And Electrical Wiring Diagram
- Automatic Engine Shutdown Protections
- Batteries

GREAVES PAKISTAN (PVT) LTD. 3 – SUNDAR DAS ROAD, LAHORE UAN: 111-354-111 Ext: 4302 – Mobile:
0336-5366494

PRICE SUMMARY SHEET

(Seller's Scope of Supply) 60
kVA PRIME RATING DG SET
(KOHLER-SDMO FRANCE)

IMPORTED ITEMS:

Sr.	Description of Stores	Qty.	Unit Price (\$)	Total Price (\$)
1.	Brand New KOHLER-SDMO France Diesel Generator Set, Model K66; 60 kVA Prime Power and 66 kVA Standby Power @ 50 Hz, 0.8 PF, 400 V, 1500 RPM (as per specifications attached) Kohler Made in France Engine <i>(Complete Machine Manufactured & Shipped from France Factory)</i>	1 No.	15,209/- \$	15,209/- \$
TOTAL AMOUNT (Excluding GST) – FOR Karachi Rate				15,209/- \$

GREAVES PAKISTAN (PVT) LTD. 3 – SUNDAR DAS ROAD, LAHORE UAN: 111-354-111 Ext: 4302 – Mobile:
0336-5366494

LOCAL EQUIPMENT & WORKS:

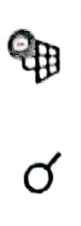
Sr.	Description of stores.	Qty.	Unit Price	Total Price
1.	Supply of sound and weather proof canopy approximate size of provided drawing is 14 SWG base frame and 14/16 swg structure fabricated of Mild steel with less than 85 dba at 3 mtrs in open area – 60 kVA DG	1 No.	300,000	300,000
2.	Charges for Transportation of 1 x 60 kVA Power Generating Set from Karachi till site on ground (including loading, unloading)	1 JOB	85,000	85,000
TOTAL AMOUNT (Excluding GST/PST)				385,000
ADD 17% GST ON SUPPLIES				51,000
ADD 16% PST ON SERVICES				13,600
TOTAL AMOUNT (Including GST/PST)				449,600


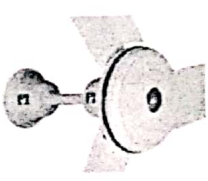

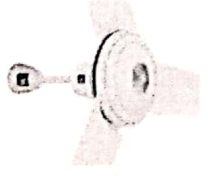
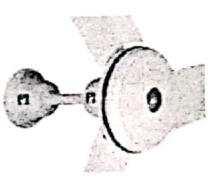

GREAVES PAKISTAN (PVT) LTD. 3 – SUNDAR DAS ROAD, LAHORE UAN: 111-354-111 Ext: 4302 – Mobile: 0336-5366494

GENERAL TERMS & CONDITIONS

VALIDITY	1 week only from quotation date, thereafter, subject to our re-confirmation.
AVAILABILITY	Lead Time: Available ex stock subject to prior sale Local Items: 04 Weeks after issuance of PO & approval of technical submittal.
PAYMENT TERMS	100% of advance payment with confirmed purchase order.
WARRANTY	1 year warranty or 1000hrs* after Delivery/Commissioning whichever comes first. <u>(Standard KOHLER SDMO Warranty Certificate will govern)</u> *For manufacturing default only
FORCE MAJEURE	This offer is subject to standard force majeure conditions
PRICING	Our prices are based on current exchange rates (1\$ = PKR 236/-) and will be revised if there are any escalation in exchange rates. Please note that the quoted rate for 30 kVA DG Set is subject to revision for more than 1% downward fluctuation in dollar price. Any further duties (including regulatory duty) and taxes, imposed after the date of quotation or agreement, will be borne by the customer
CUSTOMER RESPONSIBILITY	Any other work which has not been quoted specifically in the seller's scope of Supply/Work.
TAXES	The subject DG Set is imported and will be supplied to you without any value addition. Advance Income Tax has already been paid at the import stage U/S 148 of the Income Tax Ordinance 2001, this is in compliance to circular No.5 of 2002 dated 11 th April, 2002 issued by CBR. Hence tax under section 153 shall not be deducted from the payment of the cost of Generators (imported) under clause 47 (A) of Part IV of the second schedule to the income tax ordinance 2001, therefore income tax deduction is also not applicable on it.

GREAVES PAKISTAN (PVT) LTD. 3 – SUNDAR DAS ROAD, LAHORE UAN: 111-354-111 Ext: 4302 – Mobile: 0336-5366494



<p>Buy Online</p>  <p>Deluxe Price from 5,525 Rs</p> <p><input type="radio"/> 1 color available</p>	<p>Buy Online</p>  <p>Jazz Price from 5,795 Rs</p> <p><input type="radio"/> 2 colors available</p>	<p>Buy Online</p>  <p>Classic Price from 5,895 Rs</p> <p><input type="radio"/> 1 color available</p>
<p>Out of stock</p>  <p>Classic Super Price from 5,895 Rs</p> <p><input type="radio"/> 1 color available</p>	<p>Buy Online</p>  <p>Hilux Price from 5,975 Rs</p> <p><input type="radio"/> 2 colors available ¹⁷⁰</p>	<p>Out of stock</p>  <p>Classic Gold Price from 5,995 Rs</p> <p><input type="radio"/> 1 color available</p>

Date:	18-Jul-22
Our Ref:	BIE/LHR-R1-510-22
Customer:	JERS Consultancy (PVT), Ltd
Project:	Punjab Aab E Pak, Faisalabad
Attention:	Miss Momlnah Ghayur Zaidi
E-Mail:	momlnah@jers.com.pk

Quotation

Sl.No	Description	Qty.	Unit Price (PKR)	Total Price (PKR)
SAM-4 & 11	KSB Pump Model: BPDS 6/30-071 Flow: (25-28) m ³ /hr, Head: (58-61) m ; Motor 7.5 KW @ 2 Pole	2	1,003,230	2,006,461
SAM-8,9 & 10	KSB Pump Model: BPDS 6/30-081 Flow: (31-33) m ³ /hr, Head: (57-59) m ; Motor 9.2 KW @ 2 Pole	3	1,061,889	3,185,667
SAM-3,5 & 7	KSB Pump Model: BPDS 6/46-071 Flow: (35-38) m ³ /hr, Head: (60-66) m ; Motor 11 KW @ 2 Pole	3	1,059,440	3,178,338
SAM-2 & 12	KSB Pump Model: BPDS 6/46-081 Flow: (47-48) m ³ /hr, Head: (62-66) m ; Motor 13 KW @ 2 Pole	2	1,162,559	2,325,118
Total Selling Price				PKR 10,695,584
GST 17%				Included
Installation & Commissioning				Not Included
Grand Total				10,695,584

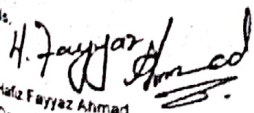
Terms & Conditions:

Scope of supply :	Pump & Motor, with Packing Only.
-------------------	----------------------------------

Delivery Terms: Ex-Works KSB HassanAbdul
Delivery Period: will be confirmed after all commercial and technical clarification
Validity of Offer: 30 Days from the date of offer
Terms Of Payment: 50% Advance, Balance before dispatch from KSB Stores.
Warranty: 6 Months from the date of commissioning and 12 months from the date of dispatch whichever comes first.
 Applicable Document FT-4

Additional Notes (If any):
 GST for Registered Companies will be charged @ 17%
 GST for Non-Registered Companies will be charged @ 20%
 Any new tax introduced by the Government will be applicable at the time of Delivery.

Disclaimer:
 Working out the prices of abovementioned engineered products should be acknowledges KSB's prerogative. This quotation will have no bearing on previously quoted prices anywhere or on prices to be quoted in future to any prospectively. After expiry of quotation's validity, KSB reserve the right to change prices as a result of market forces / manufacturing variables

Regards,

 Engr. Hafiz Fayyaz Ahmad
 Sales Department
 B&I Engineering - KSB Exclusive Partner
 Office # 22, Q block, Gulberg II, Lahore.
 Lahore - Pakistan
 Ph: +92-42-32801273
 0323-0476841



B&I Engineering
 G-E, Sikandar Malhi Road, Gulberg II, Lahore.
 Tel & Fax: +92 42 32801273

Samsung 50" 4K UHD Smart LED Monitor

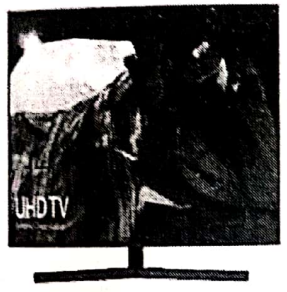
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Samsung 50 Inch 4K UHD Flat Smart TV 50RU7400
Buy Samsung 50 Inch 4K UHD Smart LED TV (50RU7400) Price in Pakistan

WARRANTED



Samsung 50 Inch 4K UHD Smart LED TV (50RU7400)

5.0 ★★★★★ 1 Ratings

PriceOye Assured

Rs. 117,000

Priceye Guarantee
Get the item you order or get your money back.

1/1 photos

ANNEXURE C
ECONOMIC BENEFITS

Economic Benefits

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

- Bus stands have economic benefits for the community. Every dollar invested in public transportation can yield economic gains in the community.
- A mechanized system is formed, people are gathered at a single point.
- A proper parking arrangement is built besides parking shed which has open and closed shaded spaces for buses.
- Bus Stand improves road congestion, more people waiting for bus on a bus stand means there are fewer vehicles on less which is fuel efficient and roads tend to have less maintenance.
- An in-house workshop is built for the repairing and maintenance of buses.
- Sector shops are provided so that people can have access to basic necessities.
- Motorbikes, motorcycles, car parking is provided for the people to park their respective vehicles.
- Parking Shade helps the buses in prevention from rusting, sunlight, weather effects, etc.
- A bus stand is usually employed to allow a bus to lay over at a bus terminus, without giving the appearance of being in service, or blocking the stop from use by other buses that are in service.
- Toilet blocks are built for the community.
- Bus stands also allow short-term parking for driver changes or driver breaks.
- In locations where buses cannot remain stationary for long, nearby but separate bus stands may be provided where other bus parking is not conveniently located.
- For pollution and fuel saving concerns, drivers may be required to switch their engines off if in a bus stand, as opposed to when stopped in a bus stop.

Annexure-D

Gant Chart

**TENTATIVE PROJECT IMPLEMENTATION SCHEDULE FOR CONSTRUCTION OF GENERAL BUS STAND IN
KAMALIA CITY
YEAR(2022-2023)**

Sr.No	Activity Name	JAN-23	FEB-23	MAR-23	APR-23	MAY-23	JUN -23	JUL-23	AUG-23
1	Waiting Hall								
2	Sector Shops								
3	Boundary wall & Gates								
4	Parking Shed								
5	Workshop & Washing area								
6	Road & Pathways								

Annexure-E

EIA Report

Environmental & Social Screening Checklist

Instructions:

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

Deputy Program Officers-Environmental and Social Management deputed by PMDFC in regional offices will technically assist and support the ESFPs/MCs in filling in of this Checklist

It is to be attached with the main document² of sub-projects at planning stage and will be duly signed by the relevant ESFP and endorsed by the respective DPO-ESM

This checklist focuses on environmental issues and social concerns. To ensure that social dimensions are adequately considered, Involuntary Resettlement Screening Checklist will also be used

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

Name of ESFP:

MOI - MOP

Name of MC:

MC Kamalia

Sub-Project Sector:

Sub-Project Title:

Construction of Bus terminal

Sub-Project Categorization:

E-1

S-1

E-2

S-2

E-3

S-3

Date of Screening:

30/03/2022

Anticipated Project Activities

- Boundary wall
- Bus Bays
- Passenger lounge

Estimated Cost of Subprojects

Tentative Completion Time/Duration

06 months approx

Estimated Labor for Subproject

20-25

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		✓	No environmental
Any surface water body (river, canal, stream, lake, wetland) within 250 meter of the proposed sub project ³		✓	Sensitive receptors
Estuarine		✓	observed in vicinity
Special area for protecting biodiversity		✓	of sub. project
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		✓	No PCR or Socially sensitive receptors
Sensitive receptors (Schools, colleges, hospitals and clinics) within 100 meter of the proposed sub project ⁵		✓	observed within
Any graveyard of local community (Muslims or Christians)		✓	jurisdiction of sub-project
Any demographic or socio-economic aspects of the sub-project area that are already vulnerable (e.g., high incidence of marginalized populations, rural-urban migrants, illegal settlements, squatters, ethnic minorities, people with disabilities, people in old age, socially isolated segments ⁶ of the society and women or children)?		✓	
Already existing infrastructure ⁷ (including public amenities) which may be required to dismantle or may be affected temporarily by any means?		✓	No infrastructure public damage envisaged.
B. Potential Environmental Impacts			
Will the Sub-Project cause...			
1. Disturbance to habitats/biodiversity of environmentally sensitive or protected areas?		✓	
2. Cutting of trees?		✓	No tree cutting involved
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?	✓		✓	Groundwater discharge will be converted to drinking water
5. Pollution of surface water/ground water due to wastewater discharge from construction site or due to direct/indirect disposal of waste water?			✓	
6. Alteration of surface water hydrology of waterways resulting in increased sediment in streams/ivers or due to increased soil erosion at construction site?			✓	No such impact anticipated as per scope of work under proposed sub-project.
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?			✓	Negligible impact
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...

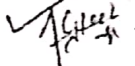
1. Impairment of historical/cultural areas; disfiguration of landscape or potential loss/damage to Physical Cultural Resources (PCRs)?			✓	A vacant land will be utilized for sub-project
2. Displacement or involuntary resettlement of people? (physical displacement and/or economic displacement) (If "Yes", please also fill Involuntary Resettlement Screening Checklist)			✓	No land or Resettlement of peoples required for sub-project
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?			✓	Negligible impact

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?		✓	No such impact anticipated as sub-project is located far from any settlements
10. Any impact on sensitive receptors (mentioned above)		✓	
11. Any impact of negative nature on already existing infrastructure including public amenities		✓	

Prepared By:

Name: Muhammad Sagheer

Signature: 

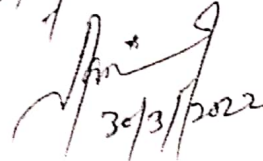
Date:

Endorsed By:

Name:

Asif Gillani

Signature:


30/3/2022

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.</p> <p>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> <ul style="list-style-type: none"> Drainage Management Air Quality Management Noise and Vibration Management Road Transport and Road Traffic Management
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

Annexure-F

Project Drawings