



**BIDDING DOCUMENT**  
**for**  
**Construction of Playground at Tuivamit**

**VOLUME-II**  
**(Price Bid)**

**Issued on** : 2<sup>nd</sup> December, 2021  
**Invitation for Bids No** : No.B.11030/144 (Proc-Gen)/2018-ASCL/140  
**Package No** : MIZ-AIZ-128B/PG-TUVMT/18  
**Employer** : AIZAWL SMART CITY LIMITED, AIZAWL  
**State** : MIZORAM  
**Country** : INDIA



**AIZAWL SMART CITY LIMITED, AIZAWL**

# Price Bid

This Section contains the forms which are to be completed by the Bidder and submitted as part of his Price Bid.

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# Letter of Price Bid

Date: .....

Contract Package No.: .....

Invitation for Bid No.: .....

To: .....

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB) 8;
- (b) We offer to execute in conformity with the Bidding Documents and the Technical Bid submitted for the following Works:
- (c) The total price of our Bid, excluding any discounts offered in item (d) below is:
- (d) The discounts offered and the methodology for their application are:
- (e) Our Bid shall be valid for a period of . . . . . days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) If our Bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents;
- (g) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed; and
- (h) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Name .....

In the capacity of .....

Signed .....

Duly authorized to sign the Bid for and on behalf of .....

Date.....

.....

# Schedules

## Bill of Quantities

### Preamble

#### (A) General

1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, Conditions of Contract, Specifications and Drawings.
2. For the construction of works, the quantities given in the Bill of Quantities are estimated quantities, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the agreed individual item rates. Bills will be raised monthly. The method of measurement shall be as per norms laid out by the Bureau Of Indian Standard's publication IS: 1200 (Latest Editions with updated amendments).
3. A rate or price shall be entered against each item in the Priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the Contractor has failed to enter a price or rate shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
4. The whole cost of complying with the provisions of the contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of work.
5. General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. Reference to relevant sections of the Contract documentation shall be made before entering prices against each item in the priced Bill of Quantities.
6. The rates and prices tendered in the priced Bill of Quantities shall, except in so far as it is otherwise provided under the Contract, include all constructional plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out in the Contract. Import duty and excise duty on materials and goods to be imported shall not be included in the Unit Rates
7. Arithmetic errors will be corrected by the Employer as follows:
  - a. if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Employer there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
  - b. if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
  - c. if there is a discrepancy between words and figures, the Amount (In INR) in words shall prevail, unless the Amount (In INR) expressed in words is related to an arithmetic error, in which case the Amount (In INR) in figures shall prevail subject to (a) and (b) above.

8. Rock is defined as all materials that, in the opinion of the Engineer, require blasting, or the use of metal wedges and sledgehammers, or the use of compressed air drilling for their removal, and that cannot be extracted by ripping with a tractor of at least 150 brake hp with a single, rear-mounted, heavy-duty ripper.

**(B) Work Items**

The Bill of Quantities contains Schedules as below:

Construction of Playground at Tuivamit, Aizawl.

**ABSTRACT COST**

The quoted rate and amount should be inclusive of taxes, duties and cess including all cost payable by the Bidders in executing the subjected contract package.

<b>CONSTRUCTION OF PLAYGROUND AT TUIVAMIT</b>		
<b>Sl.No.</b>	<b>Description</b>	<b>Amount (Rs)</b>
1	Earthwork (Site Preparation)	
2	Main Building (Gallery and Amenities)	
3	Toilet Block	
4	Security Room, Gate Posts & Signboard	
5	Box Culvert	
6	Retaining Wall and Stand	
7	Pathway, Parapet Wall, Chainlink Fencing and Corridor Seating (West Side)	
8	Development of Official Parking Area	
9	Side Drain & Hume Pipe	
	<b>Sub -Total (A)</b>	
10.1	Synthetic Artificial Turf on Playground Area	
10.2	Base Work For Aynthetic Artificial turf	
10.3	Synthetic Grass on Buffer Area	
11.1	Internal Sanitary and Water Supply	
11.2	External Service Connection (Water Supply)	
12.1	Internal Electrification	
12.2	External Service Connection (Electrification)	
	<b>Sub -Total</b>	
	<b><u>ADDITIONAL WORKS</u></b>	
13	Development of Public Parking Area, Bucket Seats, Goal Post, Substitute Bench	
	<b>Sub -Total</b>	
	Contingency	22,17,980.00
	<b>Grand - Total</b>	
	say =	
	<b>Rupees _____ Only</b>	

### Detailed Bill of Quantities

The quoted rates and amounts are inclusive of taxes, duties and cess including all cost payable by the Bidders in executing the subjected contract package.

Sl. No.	Description of Work	Unit	Qty	Rates (₹)	Amount (₹)
<b>1</b>	<b>EARTHWORK</b>				
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. (a) All kinds of soil (excluding ordinary & hard rock)				
	(i)	<i>Earthcutting for levelling of playground on East Side</i>			
		Earthwork analysis enclosed (Annexure-1)	<i>cum</i>	<b>1849.00</b>	
	(ii)	<i>Earthcutting for levelling of playground</i>			
		Earthwork analysis enclosed (Annexure-1)	<i>cum</i>	<b>1420.00</b>	
	(iii)	<i>Earthcutting for levelling on entrance area- South Side</i>			
		Earthwork analysis enclosed (Annexure-1)	<i>cum</i>	<b>38.00</b>	
	(iii)	<i>Earthcutting for levelling on West Side</i>			
		Earthwork analysis enclosed (Annexure-1)	<i>cum</i>	<b>3011.00</b>	
2	(b) Ordinary Rock				
	(i)	<i>Earthcutting for levelling of playground on East Side</i>			
		Earthwork analysis enclosed (Annexure-1)	<i>cum</i>	<b>616.00</b>	
	(ii)	<i>Earthcutting for levelling of playground</i>			

		Earthwork analysis enclosed (Annexure-1)	<i>cum</i>	<b>473.00</b>		
	(iii)	<i>Earthcutting for levelling on entrance area- South Side</i>				
		Earthwork analysis enclosed (Annexure-1)	<i>cum</i>	<b>13.00</b>		
	(iii)	<i>Earthcutting for levelling on West Side</i>				
		Earthwork analysis enclosed (Annexure-1)	<i>cum</i>	<b>1004.00</b>		
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.					
	(i)	<i>Levelling of playground, backfilling etc.</i>				
		Earthwork analysis enclosed (Annexure-1)	<i>cum</i>	<b>9410.00</b>		
					<b>TOTAL(1)=</b>	



Sl. No. / Code No.	Description of Work	Unit	Qty	Rates (₹)	Amount (₹)
<b>2</b>	<b>MAIN BUILDING (Gallery &amp; Amenities)</b>				
<b>2.1.</b>	<b>Foundation Works</b>				
1	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.				
	(c) Very Hard Soil				
		<i>cum</i>	<b>610.40</b>		
2	Filling available excavated earth in trenches, plinth, sides of foundation etc. in layer not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50m lift and lift upto 1.5m.				
		<i>cum</i>	<b>378.01</b>		
3	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:				
	(a) 1:2:4 (1 cement :2 course sand :4 stone aggregate 20mm nominal size)				
		<i>cum</i>	<b>24.42</b>		
4	Providing and laying in position reinforced cement concrete excluding cost of centering and shuttering , finishing and reinforcement in - All work upto plinth level :				
	(a) Providing M-25 Grade concrete.				
		<i>cum</i>	<b>119.02</b>		
5	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	(a) Foundations, footings, bases of columns etc. for mass concrete.				
		<i>sqm</i>	<b>30.60</b>		

6	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.				
	(b)	Thermo-Mechanically Treated bars of grade Fe-500 or more.			
			<i>kgs</i>	<b>9640.07</b>	
			<b>TOTAL (2.1) =</b>		
<b>2.2</b>	<b>Structural Frame Works</b>				
7	Providing and laying in position reinforced cement concrete excluding cost of centering and shuttering , finishing and reinforcement in - All work upto plinth level :				
	(a)	Providing M-25 Grade concrete.			
			<i>cum</i>	<b>16.51</b>	
8	Reinforced cement concrete work in walls including attached pillasters, columns, pillars, posts, piers, abutments, return walls, retaining walls, struts, buttresses, string or lacing courses, fillets etc. upto floor five level excluding cost of centering shuttering etc complete.				
	(a)	Providing M-25 Grade concrete.			
			<i>cum</i>	<b>33.15</b>	
9	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	(c)	Columns, pillars, piers, abutments, posts and struts.			
			<i>sqm</i>	<b>444.18</b>	
10	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.				
	(b)	Thermo-Mechanically Treated bars of grade Fe-500 or more.			
			<i>kgs</i>	<b>15803.70</b>	

11	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement complete.				
	(a)	Providing M-25 Grade concrete.			
			<i>cum</i>	<b>86.52</b>	
12	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	(d)	Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.			
			<i>sqm</i>	<b>684.80</b>	
13	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.				
	(b)	Thermo-Mechanically Treated bars of grade Fe-500 or more.			
			<i>kgs</i>	<b>18086.33</b>	
14	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement complete.				
	(a)	Providing M-25 Grade concrete.			
			<i>cum</i>	<b>136.74</b>	
15	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	(e)	Suspended floors, roofs, landings, shelves and their support, balconies and chajjaj,etc.			
			<i>sqm</i>	<b>1153.88</b>	
16	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.				
	(b)	Thermo-Mechanically Treated bars of grade Fe-500 or more.			
			<i>kgs</i>	<b>15393.98</b>	

17	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding cost of reinforcement, with 1:1.5:3 (1 cement: 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).				
			<i>cum</i>	<b>42.39</b>	
18	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.				
	(b)	Thermo-Mechanically Treated bars of grade Fe-500 or more.			
			<i>kg</i>	<b>4239.00</b>	
			<b>TOTAL (2.2) =</b>		
<b>2.3</b>	<b>RCC Staircases and Steps</b>				
19	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement complete.				
	(a)	Providing M-25 Grade concrete.			
			<i>cum</i>	<b>9.59</b>	
20	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	(e)	Suspended floors, roofs, landings, shelves and their support, balconies and chajjaj,etc.			
			<i>sqm</i>	<b>47.94</b>	
21	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	(f)	Staircases			
			<i>sqm</i>	<b>30.87</b>	
22	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.				
	(b)	Thermo-Mechanically Treated bars of grade Fe-500 or			

		more.				
			<i>kgs</i>	<b>885.6</b>		
			<b>TOTAL (2.3) =</b>			
<b>2.4</b>	<b>Brickworks</b>					
23	Half brick masonry with first class brick in superstructure above plinth level upto floor V level.					
	(a)	in cement mortar 1:3 ( 1 cement : 3 coarse sand )				
			<i>sqm</i>	<b>681.52</b>		
24	First class brick work in superstructure above plinth level upto floor V level in:					
	(b)	in cement mortar 1:4 ( 1 cement : 4 coarse sand )				
			<i>cum</i>	<b>36.71</b>		
			<b>TOTAL (2.4) =</b>			
<b>2.5</b>	<b>Plastering</b>					
25	15 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall.					
			<i>sqm</i>	<b>604.53</b>		
26	15mm cement plaster 1:3 (1cement : 3 sand) with an extra for providing and mixing water proofing materials in proportion recommended by manufacturer on the external wall only in -					
			<i>sqm</i>	<b>566.16</b>		
27	15mm cement plaster 1:3 (1cement : 3 sand) finished with a floating coat of neat cement on rough side of single or half brick wall -					
			<i>sqm</i>	<b>773.10</b>		
			<b>TOTAL (2.5) =</b>			

<b>2.6</b>	<b>Doors, Windows and Ventilators</b>					
28	Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.					
			<i>cum</i>	<b>0.67</b>		
29	Providing and fixing factory made PVC door frame made of PVC extruded section (Chaukat) having overall dimension of 48x40 mm (tolerance + 1 mm) with wall thickness 2.0 mm + 0.2 mm, corners of the door frame to be mitred and joined by means of plastic/M.S. galvanised brackets and stainless steel screws. The hinge side vertical of the frames reinforced by galvanised M.S. tube of size 19x19 mm and 1 mm + 0.1 mm wall thickness and 3 Nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge. (Sintex, Plasopan or equivalent) :					
			<i>rm</i>	<b>9.60</b>		
30	Providing and fixing 1st class teak wood panelled shutters for doors etc. including M.S. butt hinges with necessary screws, etc. complete.					
			<i>sqm</i>	<b>18.90</b>		
31	Factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm ( $\pm 0.2$ mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm ( $\pm 0.2$ mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter) (Sintex, Plasopan or equivalent).					
	(a)	24 mm thick shutter				

			<i>sqm</i>	<b>3.20</b>		
32	Providing and fixing CP Brass Sliding Door Bolts (aldrops) bright finished with nuts and screws etc. complete.					
	(a)	300 x 16 mm				
			<i>nos</i>	<b>8</b>		
33	Providing and fixing CP brass tower bolts (socket bolts) bright finished with necessary screws etc. complete.					
	(b)	200mm				
			<i>nos</i>	<b>16</b>		
34	(c)	200mm				
			<i>nos</i>	<b>24</b>		
35	Providing and fixing CP brass handles with necessary screws, etc. complete					
	(b)	200mm				
			<i>nos</i>	<b>20</b>		
36	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS: 733 and IS : 1285, anodised transparent or dyed to required shade according to IS : 1868. (Minimum anodic coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips, or with expansion hold fastners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required. (Glazing to be paid for separately)					
	(b)	Anodised				
			<i>sqm</i>	<b>32.70</b>		

37	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge .				
	(b)	With glass panes of 5 mm thickness.			
			<i>sqm</i>	<b>32.70</b>	
			<b>TOTAL (2.6) =</b>		
<b>2.7</b>	<b>W/C Floor and Wall Tiles</b>				
38	Providing and ceramic glazed floor tiles of size 300x300mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS: 15622 of approved make in all colours,shades, except white, ivory, grey, fume red brown, laid on 20mm thick cement mortar 1 : 4 (1cement : 4 course sand ) including pointing the joints with white cement and matching pigments etc. complete. as per designed colour.				
	(b)	Matt/Antiscratch			
			<i>sqm</i>	<b>35.30</b>	
39	Providing & laying vitrified tiles in different sizes (thickness to be specified by the manufacture) with water absorption less than 0.08% and conforming to IS:15622,of approved make, in all colours and shades, in skirting/dado , riser of steps, laid with cement based high polymer modified quick set tile adhesive (water) based) conforming to IS:15477, in average 6mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				
	(b)	Full body polish vitrified (General)			
			<i>sqm</i>	<b>82.92</b>	
			<b>TOTAL (2.7) =</b>		
<b>2.8</b>	<b>Roof Truss and Covering</b>				
40	Steel work in built up tubular (round, square or rectangular hollow tubes etc.)trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				



			<i>kgs</i>	<b>6760.98</b>		
41	Providing Trapezoidal Polyester Coated Galvanised Steel Sheets Roofing of any colour of 1.06m width at all levels including fitting and fixing ridging with self drilling , self tapping screws, EPDM washers etc. complete excluding the cost of purlin, rafter and trusses.					
	(ii)	For 0.50mm thick				
			<i>sqm</i>	<b>460.46</b>		
42	Providing and fixing of Polyester Coated Galvanised Steel Sheets of any colour ridges, gutters or valleys 50cm overall width 0.50mm thick with 150 mm overlapping fixed with Self Drilling & Tapping Screws with EPDM washer but excluding the cost of base frame.					
			<i>rm</i>	<b>50.60</b>		
			<b>TOTAL (2.8) =</b>			
<b>2.9 Railings and Hand rails</b>						
43	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.					
			<i>sqm</i>	<b>57.00</b>		
44	Supplying and fixing M.S. decorative railing consisting of top and bottom rails of 40mmx40mm square or circular section at distance of 788mm apart, 30mmx30mm square or circular section decorative intermediate balusters welded to top and bottom rails at 280mm apart. The base of balusters at 560mm apart welded with base plate of 60mmx3mm thick and fixed with cement grouting firmly to concrete section including steel priming and steel painting complete etc.					
			<i>sqm</i>	<b>92.00</b>		
45	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. (round, square or rectangular hollow tubes etc.)					
	(a)	MS Tube 40mm @ 3.6 kg/m				
			<i>kg</i>	<b>300.84</b>		

			<b>TOTAL (2.9) =</b>			
<b>2.10</b>	<b>Painting</b>					
46	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					
			<i>sqm</i>	<b>1974.11</b>		
47	Finishing walls with exterior emulsion of required shade on new work (three or more coats) to give an even shade.					
	(a)	Regular exterior emulsion like supercote, walmasta etc.				
		Cement Priming area	<i>sqm</i>	<b>1974.11</b>		
48	Applying priming coat with ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood) & Plywood.					
			<i>sqm</i>	<b>38.47</b>		
49	Painting with synthetic enamel paint of approved brand and manufacture in all shades on new work (two or more coats).					
	(b)	High gloss				
			<i>sqm</i>	<b>237.42</b>		
			<b>TOTAL (2.10) =</b>			
<b>TOTAL (2)=</b>						

Sl. No.	Description of Work	Unit	Qty	Rates (₹)	Amount (₹)
<b>3</b>	<b>TOILET BLOCK</b>				
<b>3.1</b>	<b>Foundation Works</b>				
1	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.				
	(b) Hard Soil				
		<i>cum</i>	<b>72.60</b>		
2	Filling available excavated earth in trenches, plinth, sides of foundation etc. in layer not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50m lift and lift upto 1.5m.				
		<i>cum</i>	<b>41.80</b>		
3	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:				
	(a) 1:2:4 (1 cement :2 course sand :4 stone aggregate 20mm nominal size)				
		<i>cum</i>	<b>2.90</b>		
4	Providing and laying in position reinforced cement concrete excluding cost of centering and shuttering , finishing and reinforcement in - All work upto plinth level :				
	(a) Providing M25 Grade Concrete				
		<i>cum</i>	<b>6.03</b>		
5	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	(a) Foundations, footings, bases of columns etc. for mass concrete.				
		<i>sqm</i>	<b>1.80</b>		

6	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.					
	(b)	Thermo-Mechanically Treated bars of grade Fe-500 or more.				
			<i>kg</i>	<b>714.19</b>		
			<b>TOTAL (3.1) =</b>			
<b>3.2</b>	<b>Structural Frame Works</b>					
7	Providing and laying in position reinforced cement concrete excluding cost of centering and shuttering , finishing and reinforcement in - All work upto plinth level :					
	(a)	Providing M25 Grade Concrete				
			<i>cum</i>	<b>1.68</b>		
8	Reinforced cement concrete work in walls including attached pillasters, columns, pillars, posts, piers, abutments, return walls, retaining walls, struts, buttresses, string or lacing courses, fillets etc. upto floor five level excluding cost of centering shuttering etc complete.					
	(a)	Providing M25 Grade Concrete				
			<i>cum</i>	<b>3.11</b>		
9	Centering and shuttering including strutting, propping etc. and removal of form for all heights :					
	(c)	Columns, pillars, piers, abutments, posts and struts.				
		<b>Column Below Plinth</b>				
			<i>sqm</i>	<b>51.30</b>		
10	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.					
	(b)	Thermo-Mechanically Treated bars of grade Fe-500 or more.				
			<i>kg</i>	<b>2038.54</b>		

11	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement complete.				
	(a) Providing M25 Grade Concrete				
			<i>cum</i>	<b>9.96</b>	
12	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	(d) Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.				
			<i>sqm</i>	<b>91.27</b>	
13	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.				
	(b) Thermo-Mechanically Treated bars of grade Fe-500 or more.				
			<i>kg</i>	<b>1990.64</b>	
14	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:				
	(a) 1:2:4 (1 cement :2 course sand :4 stone aggregate 20mm nominal size)				
			<i>cum</i>	<b>9.00</b>	
15	62 mm thick Cement concrete flooring with concrete hardener topping under laayer 50 mm cement concrete 1:2:4 (1 cement : 2 sand : 4 well graded stone aggregate 20mm size)and top layer 12 mm thick cement hardener consisting of mix 1:2 by volume hardening compound moked @ 2 litre per 50kg of cement.This includes cost of cement slurry but excluding the cost of nosing of steps etc. complete.				
			<i>sqm</i>	<b>89.97</b>	
			<b>TOTAL (3.2) =</b>		
<b>3.3</b>	<b>Brickworks</b>				

16	Half brick masonry with first class brick in superstructure above plinth level upto floor V level.				
	(a)	in cement mortar 1:3 ( 1 cement : 3 coarse sand )			
			<i>sqm</i>	<b>184.06</b>	
				<b>TOTAL (3.3) =</b>	
<b>3.4</b>	<b>Plastering</b>				
17	15 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall.				
			<i>sqm</i>	<b>78.70</b>	
18	15mm cement plaster 1:3 (1cement : 3 sand) with an extra for providing and mixing water proofing materials in proportion recommended by manufacturer on the external wall only in -				
			<i>sqm</i>	<b>393.78</b>	
				<b>TOTAL (3.4) =</b>	
<b>3.5</b>	<b>Doors, Windows and Ventilators</b>				
19	Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.				
			<i>cum</i>	<b>0.25</b>	
20	Providing and fixing factory made PVC door frame made of PVC extruded section (Chaukhat) having overall dimension of 48x40 mm (tolerance + 1 mm) with wall thickness 2.0 mm + 0.2 mm, corners of the door frame to be mitred and joined by means of plastic/M.S. galvanized brackets and stainless steel screws. The hinge side vertical of the frames reinforced by galvanised M.S. tube of size 19x19 mm and 1 mm + 0.1 mm wall thickness and 3 Nos. stainless steel hinges fixed to the frame complete as per manufacturers specification and direction of Engineer-in-charge. (Sintex, Plasopan or equivalent) :				
			<i>rm</i>	<b>33.60</b>	

21	Providing and fixing 1st class teak wood panelled shutters for doors etc. including M.S. butt hinges with necessary screws, etc. complete.					
			<i>sqm</i>	<b>7.56</b>		
22	Factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm ( $\pm 0.2$ mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm ( $\pm 0.2$ mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter) (Sintex, Plasopan or equivalent).					
	(a)	24 mm thick shutter				
			<i>sqm</i>	<b>11.20</b>		
23	Providing and fixing CP Brass Sliding Door Bolts (aldrops) bright finished with nuts and screws etc. complete.					
			<i>no</i>	<b>3</b>		
24	Providing and fixing CP brass tower bolts (socket bolts) bright finished with necessary screws etc. complete.					
	(b)	200mm				
			<i>no</i>	<b>6</b>		
25	(c)	200mm				
			<i>no</i>	<b>34</b>		
26	Providing and fixing CP brass handles with necessary screws, etc. complete					
	(b)	200mm				

			<i>no</i>	<b>20</b>		
27	<p>Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS: 733 and IS : 1285, anodised transparent or dyed to required shade according to IS : 1868. (Minimum anodic coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips, or with expansion hold fastners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. For shutters of doors, windows &amp; ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required. (Glazing to be paid for separately)</p>					
	(b)	Anodised				
			<i>sqm</i>	<b>6.90</b>		
28	<p>Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge .</p>					
	(c)	With glass panes of 5.50 mm thickness.				
			<i>sqm</i>	<b>6.90</b>		
			<b>TOTAL (3.5) =</b>			
<b>3.6</b>	<b>W/C Floor and Wall Tiles</b>					
29	<p>Providing and ceramic glazed floor tiles of size 300x300mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS: 15622 of approved make in all colours,shades, except white, ivory, grey, fume red brown, laid on 20mm thick cement mortar 1 : 4 (1cement : 4 course sand ) including pointing the joints with white cement and matching pigments etc. complete. as per designed colour.</p>					
	(b)	Matt/Antiscratch				
			<i>sqm</i>	<b>58.22</b>		



30	Providing & laying vitrified tiles in different sizes (thickness to be specified by the manufacture) with water absorption less than 0.08% and conforming to IS:15622, of approved make, in all colours and shades, in skirting/dado, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water) based) conforming to IS:15477, in average 6mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				
	(b)	Full body polish vitrified (General)			
			<i>sqm</i>	<b>84.66</b>	
			<b>TOTAL (3.6) =</b>		
<b>3.7</b>	<b>Roof Truss and Covering</b>				
31	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
			<i>kg</i>	<b>607.76</b>	
32	Providing Trapezoidal Polyester Coated Galvanised Steel Sheets Roofing of any colour of 1.06m width at all levels including fitting and fixing ridging with self drilling, self tapping screws, EPDM washers etc. complete excluding the cost of purlin, rafter and trusses.				
	(ii)	For 0.50mm thick			
			<i>rm</i>	<b>100.98</b>	
33	Providing and fixing of Polyester Coated Galvanised Steel Sheets of any colour ridges, gutters or valleys 50cm overall width 0.50mm thick with 150 mm overlapping fixed with Self Drilling & Tapping Screws with EPDM washer but excluding the cost of base frame.				
	(ii)	For 0.50mm thick			
			<i>rm</i>	<b>15.30</b>	
			<b>TOTAL (3.7) =</b>		
			<b>TOTAL (3.7) =</b>		

<b>3.8</b>		<b>Painting</b>				
34	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					
			<i>sqm</i>	<b>472.48</b>		
35	Finishing walls with exterior emulsion of required shade on new work (three or more coats) to give an even shade.					
	(a)	Regular exterior emulsion like supercote, walmasta etc.				
		Cement Priming area	<i>sqm</i>	<b>472.48</b>		
36	Applying priming coat with ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood) & Plywood.					
			<i>sqm</i>	<b>15.37</b>		
37	Painting with synthetic enamel paint of approved brand and manufacture in all shades on new work (two or more coats).					
	(b)	High gloss				
			<i>sqm</i>	<b>113.37</b>		
			<b>TOTAL (3.8) =</b>			
			<b>TOTAL(3)=</b>			

Sl. No. / Code No.	Description of Work	Unit	Qty	Rates (₹)	Amount (₹)
<b>4</b>	<b>SECURITY CABIN, GATE POSTS, GATES, GOAL POST AND SIGNBOARD</b>				
<b>4.1</b>	<b>Security Cabin</b>				
1	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.				
	(c)	Ordinary Soil			
			<i>cum</i>	<b>41.62</b>	
2	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:				
	(a)	1:2:4 (1 cement :2 course sand :4 stone aggregate 20mm nominal size)			
			<i>cum</i>	<b>2.31</b>	
3	Providing and laying in position reinforced cement concrete excluding cost of centering and shuttering , finishing and reinforcement in - All work upto plinth level :				
	(a)	Providing M25 Grade Concrete			
			<i>cum</i>	<b>9.75</b>	
4	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	(a)	Foundations, footings, bases of columns etc. for mass concrete.			
			<i>sqm</i>	<b>3.00</b>	
5	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.				
	(b)	Thermo-Mechanically Treated bars of grade Fe-500 or more.			
			<i>kg</i>	<b>387.33</b>	

6	Providing and laying in position reinforced cement concrete excluding cost of centering and shuttering , finishing and reinforcement in - All work upto plinth level :				
	(a)	Providing M25 Grade Concrete			
			<i>cum</i>	<b>0.60</b>	
7	Reinforced cement concrete work in walls including attached pillasters, columns, pillars, posts, piers, abutments, return walls, retaining walls, struts, buttresses, string or lacing courses, fillets etc. upto floor five level excluding cost of centering shuttering etc complete.				
	(a)	Providing M25 Grade Concrete			
			<i>cum</i>	<b>1.69</b>	
8	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	(c)	Columns, pillars, piers, abutments, posts and struts.			
			<i>sqm</i>	<b>36.60</b>	
9	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.				
	(b)	Thermo-Mechanically Treated bars of grade Fe-500 or more.			
			<i>kg</i>	<b>175.33</b>	
10	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement complete.				
	(a)	Providing M25 Grade Concrete			
			<i>cum</i>	<b>5.00</b>	
11	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	(d)	Lintels, beams, plinth beams, girders, bressumers and cantilevers, etc.			
			<i>sqm</i>	<b>52.50</b>	

12	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.				
	(b)	Thermo-Mechanically Treated bars of grade Fe-500 or more.			
			<i>kg</i>	<b>1174.87</b>	
13	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:				
	(a)	1:2:4 (1 cement :2 coarse sand :4 stone aggregate 20mm nominal size)			
			<i>cum</i>	<b>0.76</b>	
14	62 mm thick Cement concrete flooring with concrete hardener topping under laayer 50 mm cement concrete 1:2:4 (1 cement : 2 sand : 4 well graded stone aggregate 20mm size)and top layer 12 mm thick cement hardener consisting of mix 1:2 by volume hardening compound mosed @ 2 litre per 50kg of cement.This includes cost of cement slurry but excluding the cost of nosing of steps etc. complete.				
			<i>sqm</i>	<b>7.59</b>	
15	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement complete.				
	(a)	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)			
			<i>cum</i>	<b>0.76</b>	
16	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	(e)	Suspended floors, roofs, landings, shelves and their support, balconies and chajjaj,etc.			
			<i>sqm</i>	<b>8.05</b>	
17	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.				
	(b)	Thermo-Mechanically Treated bars of grade Fe-500 or more.			
			<i>kg</i>	<b>75.90</b>	

18	Half brick masonry with first class brick in superstructure above plinth level upto floor V level.					
	(a)	in cement mortar 1:3 ( 1 cement : 3 coarse sand )				
			<i>sqm</i>	<b>46.45</b>		
19	15 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall.					
			<i>sqm</i>	<b>89.10</b>		
20	15mm cement plaster 1:3 (1cement : 3 sand) with an extra for providing and mixing water proofing materials in proportion recommended by manufacturer on the external wall only in -					
			<i>sqm</i>	<b>98.69</b>		
21	Providing 1st class local wood dressed in frames of chaukat for doors, windows, clerestory windows fixed in position.					
			<i>cum</i>	<b>0.08</b>		
22	Providing and fixing 1st class teak wood panelled shutters for doors etc. including M.S. butt hinges with necessary screws, etc. complete.					
			<i>sqm</i>	<b>1.89</b>		
23	Providing and fixing CP Brass Sliding Door Bolts (aldrops) bright finished with nuts and screws etc. complete.					
	(a)	300 x 16 mm				
			<i>no</i>	<b>1</b>		
24	Providing and fixing CP brass tower bolts (socket bolts) bright finished with necessary screws etc. complete.					
	(b)	200mm				
			<i>no</i>	<b>2</b>		
	(c)	150mm				
			<i>no</i>	<b>2</b>		

25	Providing and fixing CP brass handles with necessary screws, etc. complete					
	(b)	200mm				
			<i>no</i>	<b>2</b>		
26	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS: 733 and IS : 1285, anodised transparent or dyed to required shade according to IS : 1868. (Minimum anodic coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips, or with expansion hold fastners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required. (Glazing to be paid for separately)					
	(b)	Anodised				
			<i>sqm</i>	<b>3.90</b>		
27	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge .					
	(c)	With glass panes of 5.50 mm thickness.				
			<i>rm</i>	<b>3.90</b>		
28	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					
			<i>sqm</i>	<b>148.19</b>		
29	Finishing walls with exterior emulsion of required shade on new work (three or more coats) to give an even shade.					
	(a)	Regular exterior emulsion like supercote, walmasta etc.				
		Cement Priming area	<i>sqm</i>	<b>148.19</b>		

30	Applying priming coat with ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood) & Plywood.				
			<i>sqm</i>	<b>3.78</b>	
31	Painting with synthetic enamel paint of approved brand and manufacture in all shades on new work (two or more coats).				
	(b)	High gloss			
		<b>Chaukhat</b>			
			<i>sqm</i>	<b>3.86</b>	
			<b>TOTAL (4.1) =</b>		
<b>4.2</b>	<b>Steel Gates</b>				
32	Steel work welded in built up sections/framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. (b) In a grating, frames, guard bar, ladders, railings, brackets, gates & similar works.				
			<i>rm</i>	<b>1397.37</b>	
33	Applying two coats of synthetic enamel paints over one coat of red oxide zinc primer of angle iron and posts and struts complete in all respect as per drawing and direction of engineer in charge				
			<i>rm</i>	<b>213.48</b>	
			<b>TOTAL (4.2) =</b>		
<b>4.3</b>	<b>3D Sigboard</b>				
34	Supplying, fitting and fixing of 3D Sign board as per direction of Engineer-in-charge.				
			<i>sqm</i>	<b>4.20</b>	
			<b>TOTAL (4.3) =</b>		
			<b>TOTAL(4)=</b>		



Sl. No.	Description of Work	Unit	Qty	Rates (₹)	Amount (₹)
<b>5</b>	<b>BOX CULVERT</b>				
1	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:				
	(a) 1:2:4 (1 cement :2 course sand :4 stone aggregate 20mm nominal size)				
		<i>cum</i>	<b>28.62</b>		
2	Providing and laying in position reinforced cement concrete excluding cost of centering and shuttering , finishing and reinforcement in -				
	(a) Providing M-25 grade concrete				
		<i>cum</i>	<b>258.55</b>		
3	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	(b) Walls including attached pillasters, buttresses, string courses, etc.				
		<i>sqm</i>	<b>1294.63</b>		
4	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.				
	(b) Thermo-Mechanically Treated bars of grade Fe-500 or more.				
		<i>kg</i>	<b>34163.1</b>		
<b>TOTAL(5)=</b>					

Sl. No. / Code No.	Description of Work	Unit	Qty	Rates (₹)	Amount (₹)
<b>6.1</b>	<b>RANDOM RUBBLE MASONRY WALL AND STAND ON NORTH AND EAST SIDE</b>				
1	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.				
	(a)	Ordinary Soil			
			<i>cum</i>	<b>324.30</b>	
2	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:				
	(a)	1:3:6(1 cement :3 course sand :6 stone aggregate 20mm nominal size)			
			<i>cum</i>	<b>43.24</b>	
3	Coursed rubble masonry(First sort) with hard stone in foundation and plinth with:				
	(b)	in cement mortar 1 : 4 ( 1cement : 4 fine sand)			
			<i>cum</i>	<b>281.06</b>	
4	Coursed rubble masonry(First sort) with hard stone in sperstructure above plinth level and upto floor five level with:				
	(b)	in cement mortar 1 : 4 ( 1cement : 4 fine sand)			
			<i>cum</i>	<b>487.08</b>	
5	Cement concrete flooring 1:2: finished with floating coat neat cement including cement slurry etc. complete but excluding cost of nosing of steps etc. 40mm thick with 20mm thick nominal size aggregate				
			<i>sqm</i>	<b>451.00</b>	
6	12mm cement plaster 1:3 (1 cement : 3 fine sand)				
			<i>sqm</i>	<b>127.50</b>	

7	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :				
			<i>sqm</i>	<b>416.50</b>	
8	Finishing walls with exterior emulsion of required shade on new work (three or more coats) to give an even shade.				
	(a)	Regular exterior emulsion like supercote, walmasta etc.			
		Cement Priming area	<i>sqm</i>	<b>416.50</b>	
<b>TOTAL(6.1)=</b>					
<b>6.2</b>	<b>RANDOM RUBBLE MASONRY WALL ON WEST SIDE (Behind Gallery Building)</b>				
9	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.				
	(a)	Ordinary Soil			
			<i>cum</i>	<b>52.08</b>	
10	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:				
	(a)	1:3:6(1 cement :3 course sand :6 stone aggregate 20mm nominal size)			
			<i>cum</i>	<b>6.94</b>	
11	Coursed rubble masonry(First sort) with hard stone in sperstructure above plinth level and upto floor five level with:				
	(b)	in cement mortar 1 : 4 ( 1cement : 4 fine sand)			
			<i>cum</i>	<b>160.70</b>	
12	Cement concrete flooring 1:2: finished with floating coat neat cement including cement slurry etc. complete but excluding cost of nosing of steps etc. 40mm thick with 20mm thick nominal size aggregate				
			<i>sqm</i>	<b>59.52</b>	
<b>TOTAL(6.2)=</b>					

<b>6.3</b>		<b>RANDOM RUBBLE MASONRY WALL ON NORTH SIDE (Below Ground)</b>			
13	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.				
	(a)	Ordinary Soil			
			<i>cum</i>	<b>34.44</b>	
14	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:				
	(a)	1:3:6(1 cement :3 course sand :6 stone aggregate 20mm nominal size)			
			<i>cum</i>	<b>4.59</b>	
15	Coursed rubble masonry(First sort) with hard stone in sperstructure above plinth level and upto floor five level with:				
	(b)	in cement mortar 1 : 4 ( 1cement : 4 fine sand)			
			<i>cum</i>	<b>94.46</b>	
<b>TOTAL(6.3)=</b>					
<b>6.4</b>		<b>RANDOM RUBBLE MASONRY WALL ON SOUTH SIDE (Below playground and parking area)</b>			
16	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.				
	(a)	Ordinary Soil			
			<i>cum</i>	<b>51.77</b>	
17	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:				
	(a)	1:3:6(1 cement :3 course sand :6 stone aggregate 20mm nominal size)			
			<i>cum</i>	<b>6.90</b>	

18	Coursed rubble masonry(First sort) with hard stone in sperstructure above plinth level and upto floor five level with:					
	(b)	in cement mortar 1 : 4 ( 1cement : 4 fine sand)				
			<i>cum</i>	<b>146.42</b>		
					<b>TOTAL(6.4)=</b>	
					<b>TOTAL(6)=</b>	

Sl. No. / Code No.	Description of Work	Unit	Qty	Rates (₹)	Amount (₹)
<b>7</b>	<b>Pathway, Parapet Wall, Chainlink fencing and Corridor Seating (West Side)</b>				
1	Reinforced cement concrete work in walls including attached pillasters, columns, pillars, posts, piers, abutments, return walls, retaining walls, struts, buttresses, string or lacing courses, fillets etc. upto floor five level excluding cost of centering shuttering etc complete.				
	(a)	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)			
		<i>cum</i>	<b>1.45</b>		
2	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	(c)	Columns, pillars, piers, abutments, posts and struts.			
		<i>sqm</i>	<b>38.70</b>		
3	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.				
	(b)	Thermo-Mechanically Treated bars of grade Fe-500 or more.			
		<i>kg</i>	<b>365.50</b>		
4	First class brick work in superstructure above plinth level upto floor V level in:				
	(b)	in cement mortar 1:4 ( 1 cement : 4 coarse sand )			
		<i>cum</i>	<b>16.04</b>		
5	Half brick masonry with first class brick in superstructure above plinth level upto floor V level.				
	(a)	in cement mortar 1:3 ( 1 cement : 3 coarse sand )			
		<i>sqm</i>	<b>144.37</b>		
6	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding cost of reinforcement, with 1:1.5:3 (1 cement: 1.5 coarse sand(zone-				

	III) : 3 graded stone aggregate 20 mm nominal size).				
			<i>cum</i>	<b>22.00</b>	
7	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.				
	(b)	Thermo-Mechanically Treated bars of grade Fe-500 or more.			
			<i>kg</i>	<b>2199.60</b>	
8	12mm cement plaster 1:3 (1 cement : 3 fine sand)				
			<i>sqm</i>	<b>319.25</b>	
9	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:				
	(a)	1:2:4 (1 cement :2 course sand :4 stone aggregate 20mm nominal size)			
			<i>cum</i>	<b>13.22</b>	
10	62 mm thick Cement concrete flooring with concrete hardener topping under laayer 50 mm cement concrete 1:2:4 (1 cement : 2 sand : 4 well graded stone aggregate 20mm size)and top layer 12 mm thick cement hardener consisting of mix 1:2 by volume hardening compound moked @ 2 litre per 50kg of cement.This includes cost of cement slurry but excluding the cost of nosing of steps etc. complete.				
			<i>sqm</i>	<b>132.22</b>	
11	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
			<i>sqm</i>	<b>25.30</b>	
12	Polysteel goat proof fencing mild steel netting with angle iron posts 50 x 50 x 6mm size placed 2.0m apart embedded in cement concrete block 1:3:6 (1 cement : 3 sand : 6 stone aggegate) of size 25 x 25 x 60 cmfixing with nails and wire etc. including earthwork complete.				
			<i>sqm</i>	<b>826.88</b>	
				<b>TOTAL(7)=</b>	

Sl. No.	Description of Work	Unit	Qty	Rates (₹)	Amount (₹)
<b>8</b>	<b>DEVELOPMENT OF PARKING AREA</b>				
1	Providing and filling stone aggregates of size below 90mm in plinth, etc. in layers not exceeding 10 cms in depth, consolidating each layer by ramming and watering and dressing complete .				
		<i>cum</i>	<b>70.00</b>		
2	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:				
	(a) 1:2:4 (1 cement :2 coarse sand :4 stone aggregate 20mm nominal size)				
		<i>cum</i>	<b>70.00</b>		
<b>TOTAL (8)=</b>					



Sl. No.	Description of Work	Unit	Qty	Rates (₹)	Amount (₹)
<b>9</b>	<b>DRAINAGE</b>				
<b>9.1</b>	<b>Side Drain</b>				
1	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.				
	(a) Ordinary Soil				
		<i>cum</i>	<b>80.69</b>		
2	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:				
	(a) 1:2:4 (1 cement :2 course sand :4 stone aggregate 20mm nominal size)				
		<i>cum</i>	<b>17.93</b>		
3	Half brick masonry with first class brick in superstructure above plinth level upto floor V level.				
	(a) in cement mortar 1:3 ( 1 cement : 3 coarse sand )				
		<i>sqm</i>	<b>228.20</b>		
4	15mm cement plaster 1:3 (1cement : 3 sand) with an extra for providing and mixing water proofing materials in proportion recommended by manufacturer on the external wall only in -				
		<i>sqm</i>	<b>277.10</b>		
5	Steel work in built up tubular (round, square or rectangular hollow tubes etc.)trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. (a) In stringers, treads, landings etc. of stair-cases including use of chequered plates wherever required all complete.				
		<i>kg</i>	<b>2955.02</b>		
			<b>TOTAL (9.1) =</b>		

<b>9.2</b>		<b>Hume Pipe - West Side above toilet block to main drain</b>			
6	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.				
	(a)	Ordinary Soil			
			<i>cum</i>	<b>123.75</b>	
7	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:				
	(a)	1:2:4 (1 cement :2 course sand :4 stone aggregate 20mm nominal size)			
			<i>cum</i>	<b>5.50</b>	
8	Providing and laying Reinforced Cement Concrete Pipe NP3 for culverts on first class bedding of a granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection work, backfilling, concrete and masonry works in head walls and parapet				
	(c)	<i>Hume Pipe 750mm dia</i>	<i>rm</i>	<b>55.00</b>	
			<b>TOTAL (9.2) =</b>		
				<b>TOTAL (9)=</b>	

Sl. No	Description of Work	Unit	Qty	Rates (₹)	Amount (₹)
<b>10</b>	<b>SYNTHETIC ARTIFICIAL TURF</b>				
1	<p>Supply &amp; Installation of FIFA Quality &amp; Quality Pro certified Sports Artificial Turf from FIFA Preferred Manufacturer having Pile Height of 60 MM with following specification;            Composition PE, Structure Monofilament, V Shape &amp; Fibrillated Yarn, Emerald &amp; Lime colour, Dtex 17500, Tape thickness 260µm &amp; 85µm, Tape width 1.10mm &amp; 6.0mm, Pile height 60mm±1mm, Gauge 3/4 inch, Stitches per 10cm 13±1, Stitches per m2 6825±100 according to ISO 1773, Total yarn weight 1620 Gms/Sqm ±10%, Double layer PU Backing, Weight 250 Gms/ Sqm, Secondary backing Weight 1150 Gms/Sqm ±10%, Total Carpet weight 3020 Gms/Sqm ±10%, Water Permeability of Turf carpet: &gt; 2000 mm/hr, Infilling of Silica sand at the ratio of 15 kg/m2 &amp; SBR Granules at the ratio of 17 kg/m2 Infill as FIFA standard &amp; Test report.            Installation of Turf should be done using a seam tape &amp; suitable PU adhesive. Adhesive TDS should match the following basic properties:            Colour &amp;Form : Grass- green paste, Characteristics: 2 component, polyurethane – reaction adhesive for outdoor use, Specific Gravity : 1480 g/litre, Viscosity: Thixotropic, Solids: 100%, Application: Notched trowel or by suitable machine for applying to Seaming Tape.</p>				
		<i>sqm</i>	<b>4079.60</b>		

2	<p><b>Sub Base Works for Synthetic Artificial Work : #</b> Excavation &amp; Earth Work according to Site requirement (Upto 6’), considering that client will provide us land with soil infill as per the desired levels</p> <ol style="list-style-type: none"> <li>1. Preparing the slope &amp; leveling using Auto Level</li> <li>2. Compaction of sub-soil with 6-8 Ton Static Rollers</li> <li>3. Weedicide Treatment of Land</li> <li>4. Providing and laying of perforated PVC drain pipes Heavy Duty of 160mm Outer Dia with staggered perforations. Pipe would be placed diagonally in width after every 12 meter to cover-up desired Length (As shown in Drawing)</li> <li>5. Supply and Placing of 200 Microns Geo textile Separation Barrier to cover the entire field including the edges</li> <li>6. Providing and laying of perforated PVC drain pipes Heavy Duty of 200mm dia with staggered perforations. Pipe would be placed on both side of Lengths (As shown in Drawing)</li> <li>7. Pipes would be placed on PCC Base</li> <li>8. Support Retaining/Toe Wall using Concrete Blocks (150 mm Thick Width and Height would vary from 300mm to 450mm as per site requirements) towards four side</li> <li>9. Providing and laying of compacted upto 100mm thick with 40-30mm metal Stone to form a contour and elevations to the desired level as per Drawings including all carriages upto site of work.</li> <li>10. Providing and laying of compacted upto 30mm thick with 20mm-10mm metal Stone to form a contour and elevations to the desired level as per Drawings including all carriages upto site of work.</li> <li>11. Providing and laying of compacted upto 20mm thick with 6mm metal stone mixed with Grit</li> <li>12. Drain Chambers on end corners as per site requirement</li> </ol>			
		sqm	4050.00	
		<b>sqm</b>	<b>4079.60</b>	
3	Supplying & Installation of 35 mm Straight natural look green artificial grass with taping, stitching etc. as per direction of Engineer-in-charge.			
		<b>sqm</b>	<b>846.00</b>	
<b>TOTAL (10)=</b>				

Sl. No. / Code No.	Description of Work	Unit	Qty	Rates (₹)	Amount (₹)
<b>11</b>	<b>SANITARY AND WATER SUPPLY</b>				
<b>11.1</b>	<b>Septic Tank and Soak Pit</b>				
1	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres.				
	(b) Very Hard Soil				
		<i>cum</i>	<b>17.24</b>		
2	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:				
	(a) 1:2:4 (1 cement :2 course sand :4 stone aggregate 20mm nominal size)				
		<i>cum</i>	<b>0.73</b>		
3	Providing and laying in position reinforced cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:				
	(a) 1:1.5:3 (1 cement :1.5 course sand :3 stone aggregate 20mm nominal size)				
		<i>cum</i>	<b>2.69</b>		
4	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	(a) Foundations, footings, bases of columns etc. for mass concrete.				
		<i>sqm</i>	<b>24.76</b>		
5	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.				
	(b) Thermo-Mechanically Treated bars of grade Fe-500 or more.				
		<i>kg</i>	<b>268.60</b>		

6	Half brick masonry with first class brick in superstructure above plinth level upto floor V level.				
	(a)	in cement mortar 1:3 ( 1 cement : 3 coarse sand )			
			<i>sqm</i>	<b>19.50</b>	
7	15 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall.				
			<i>sqm</i>	<b>11.00</b>	
			<b>TOTAL (11.1) =</b>		
<b>11.2</b>	<b>Sanitary fittings and pipeline</b>				
8	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm uPVC P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
	(a)	Orrisa pan with integral type foot rests			
	(i)	White			
			<i>no</i>	<b>5</b>	
9	Providing and fixing vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
	(i)	White			
			<i>no</i>	<b>8</b>	
10	Providing and fixing White vitreous china (Matrix Set -1) WB 65 x 35 with one pair mounting brackets, EWC & Cistern complete with fittings & seat cover, one no hinged rail 76 cm and five nos of grab rails 60 cm, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
	(i)	White			
		<i>A03 Differently-abled Toilet</i>			
			<i>no</i>	<b>1</b>	

11	Providing and fixing vitreous china Urinal Flat Back Small 44 x 26.5 x 31.5cm size of Parryware/ Hindware/ Cera and equivalent make with flush valve/spray with C.I or R.S brackets standard size of G.I flush pipe and C.P brass spreaders with brass unions and G.I clamps complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required.			
	(i)	White		
			<i>no</i>	<b>7</b>
12	Providing and fixing vitreous Division Plate 69 x 30 cm size for Urinals.			
	(i)	White		
			<i>no</i>	<b>6</b>
13	Providing and fixing Health faucet with flexible tube upto 1 metre long and holder of quality and make as approved by Engineer - in - charge.			
			<i>no</i>	<b>13</b>
14	Providing and fixing vitreous china tall pedestal of Parryware/ Hindware/ Cera and equivalent make for wash basin completely recessed at the back for the reception of pipes and fittings.			
	(i)	White		
			<i>no</i>	<b>15</b>
15	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.			
			<i>no</i>	<b>15</b>
16	Providing and fixing 600x450mm bevelled edge mirror of superior glass (of approved quality) complete with 6mm thick asbestos sheet ground fixed to cleats with C.P. brass screws and washers.			
			<i>no</i>	<b>15</b>
17	Providing and fixing anodised aluminium towel rail with two anodised aluminium brackets to wooden cleats with C.P brass screws.			
	(b)	600x20mm size.		
			<i>no</i>	<b>9</b>
18	Providing and fixing toilet paper holder.			

	(a)	C.P. brass toilet paper holder of standard size.			
			<i>no</i>	<b>7</b>	
19	Providing and fixing soap dish fixed with C.P. brass screws.				
		<i>A05 Changing Rooms</i>	<i>no</i>	<b>4</b>	
20	Providing and fixing on wall face SWRPVC soil, waste and vent pipes including jointing with rubber lubricant/cement solvent complete.				
	(a)	110mm dia	<i>rm</i>	<b>225</b>	
	(b)	75mm dia	<i>rm</i>	<b>110</b>	
21	Providing and fixing SWRPVC plain bend of required degree ( 87.50° ) including jointing with rubber lubricant/cement solvent complete.				
	(a)	110mm dia	<i>nos.</i>	<b>36</b>	
	(b)	75mm dia	<i>nos.</i>	<b>22</b>	
22	Providing and fixing SWRPVC bend with access door of required degree including jointing with rubber lubricant/cement solvent complete.				
	(a)	110mm dia SWRPVC bend with access door.	<i>nos.</i>	<b>35</b>	
	(b)	75mm dia SWRPVC bend with access door.	<i>nos.</i>	<b>19</b>	
23	Providing and fixing single equal SWRPVC plain junction of required degree ( T-junction ) .				
	(a)	110x110x110mm.	<i>nos.</i>	<b>32</b>	
	(b)	75x75x75mm.	<i>nos.</i>	<b>26</b>	
24	Providing and fixing SWRPVC socket including jointing with rubber lubricant/cement solvent.				
	(a)	110mm dia socket.	<i>nos.</i>	<b>62</b>	
	(b)	75 mm dia socket.	<i>nos.</i>	<b>45</b>	



25	Providing and fixing ventilation cowl including jointing with rubber lubricant/cement solvent complete.				
	(a)	110mm SWRPVC vent cowl	<i>nos.</i>	<b>9</b>	
	(b)	75mm SWRPVC vent cowl	<i>nos.</i>	<b>12</b>	
26	Providing and fixing uPVC multi floor trap with floor trap grating including jointing with rubber lubricant/ solvent cement complete.				
			<i>nos.</i>	<b>30</b>	
27	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : (Hindware or equivalent)				
	(b)	Single Sink 610x460 mm bowl depth 200mm	<i>nos.</i>	<b>2</b>	
			<b>TOTAL (11.2)</b>		
<b>11.3</b>	<b>Water Supply and Plumbing</b>				
28	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.				
	(a)	Sintex or quivalent	<b>litre</b>	<b>10000.00</b>	
29	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931 .				
	(b)	15 mm nominal bore. Class-II	<i>nos.</i>	<b>33</b>	
30	Providing and fixing 15 mm nominal bore C.P. brass angle stop cock for basin mixer and geyser points of approved quality conforming to IS:8931 .				
	(b)	Class-II	<i>nos.</i>	<b>17</b>	
31	Providing and fixing 15mm nominal bore chromium plated brass bib cock of approved quality.				
	(b)	Class-II	<i>nos.</i>	<b>3</b>	

32	Providing and fixing 15mm nominal bore chromium plated brass pillar cock of approved quality.				
	(b)	Class-II	<i>nos.</i>	<b>18</b>	
33	Providing and fixing chromium plated brass wall mixer 15mm nominal bore of approved make with necessary fittings including cutting and making good the wall.				
	(iv)	Wall Mixer 3-in-1 with (provision for OH & hand Shower both)	<i>nos.</i>	<b>4</b>	
34	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall				
	(b)	20mm dia nominal bore	<b>rm</b>	<b>140</b>	
	(e)	40mm dia nominal bore	<b>rm</b>	<b>240</b>	
35	Extra for concealed in brick and RCC works by making chases upto 7.5x7.5cm in walls and making good the same after housing pipes, etc.				
			<b>rm</b>	<b>50</b>	
36	Making connection of CPVC pipes distribution branch by providing and fixing equal Tee with jointing, testing complete including cutting and making good etc.				
	(b)	20mm dia nominal bore.	<i>nos.</i>	<b>53</b>	
	(e)	40mm dia nominal bore.	<i>nos.</i>	<b>16</b>	
37	Making connection of Astral CPVC pipes distribution branch by providing and fixing reducing Tee with jointing, testing complete including cutting and making good etc.				
	(b)	40x40x25mm	<i>nos.</i>	<b>14</b>	

38	Making connection of Astral CPVC pipes distribution branch by providing and fixing Elbow 90o with jointing, testing complete including cutting and making good etc.				
	(b)	20mm dia.	<i>nos.</i>	<b>24</b>	
	(e)	40mm dia.	<i>nos.</i>	<b>10</b>	
39	Making connection of Astral CPVC pipes distribution branch by providing and fixing Reducing 'L' Ebow 90o with jointing, testing complete including cutting and making good etc.				
	(a)	20x15mm	<i>nos.</i>	<b>85</b>	
40	Making connection of Astral CPVC pipes distribution branch by providing and fixing Female Adaptor (Brass) with jointing, testing complete including cutting and making good etc.				
	(b)	20mm dia.	<i>nos.</i>	<b>32</b>	
41	Making connection of Astral CPVC pipes distribution branch by providing and fixing Socket/Coupling with jointing, testing complete including cutting and making good etc.				
	(b)	20mm dia.	<i>nos.</i>	24	
	(e)	40mm dia.	<i>nos.</i>	32	
42	Providing & Fitting Cap for end pipe etc. complete .				
	(b)	20mm dia.	<i>nos.</i>	10	
	(e)	40mm dia.	<i>nos.</i>	10	
43	Providing and fixing CPVC Ball valve/ Globe/Stop & Waste valve/ Boiler drain etc. Complete.				
	(b)	20mm nominal bore	<i>nos.</i>	20	
	(e)	40mm nominal bore	<i>nos.</i>	16	
			<b>TOTAL (11.3) =</b>		
<b>TOTAL( Internal Sanitary and Water Supply)=</b>					
<b>External Service Connection (Lump Sum)</b>					
<b>say</b>					

<b>12. ELECTRIFICATION</b>					
<b>Sl no</b>	<b>Description of Items</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate (₹)</b>	<b>Amount (₹)</b>
	<b>LIGHTING AND POWER WIRINGS</b>				
<b>1</b>	Wiring in looping system with PVC wire sheathed standard copper conductor/wires as per IS:694(1990) and Flame retardant low smoke & Halogen (FR-LSH)1100 voltage graded copper flexible wire stranded copper 1.5 sqmm running inside PVC conduit pipe (Heavy Duty) 20mm dia' fixed, recess inside the wall/ceiling/floor as per convenience including junction box having required numbers of ways from control switch to the light point/fan point/exhaust fan point etc as required:				
	A. TO A LIGHT POINT:				
	a) One point controlled by one switch				
	(B) Short point (Modular)	<i>nos.</i>	35		
	(C) Medium point (Modular)	<i>nos.</i>	49		
	(D) Long point (Modular)	<i>nos.</i>	9		
	B. TO A CEILING FAN POINT;				
	(C) Medium point	<i>nos.</i>	18		
<b>2</b>	<b>MAIN TO SUB-MAIN IN COPPER WIRE GRADE-II (SINGLE PHASE TWO WIRES)</b>				
	Wiring in looping system with PVC wire sheathed standard copper conductor/wires as per IS:694(1990) and Flame retardant low smoke & Halogen (FR-LSH)1100 voltage graded copper flexible wire stranded copper running inside PVC conduit pipe (Heavy Duty) 25/32/40/50 mm dia' fixed recess inside the wall/ceiling/floor as per convenience including junction box having required numbers of ways from Main to Sub-Main/DB, sub-main/DB to SDB/Switch boards/SDB to switch boards in three phases as required:-				
	(A) 2X2.5 Sqmm copper conductor/cable + 1x2.5 Sqmm earthwire (Essential)	<i>rm</i>	270		
	(A) 2X2.5 Sqmm copper conductor/cable + 1x2.5 Sqmm earthwire (Non-Essential)	<i>rm</i>	270		
	(B) 2X4 Sqmm copper conductor/cable + 1x4.0 Sqmm earthwire (Essential)	<i>rm</i>	120		
	(B) 2X4 Sqmm copper conductor/cable + 1x4.0 Sqmm earthwire (Non-Essential)	<i>rm</i>	120		
	<b>LIGHTING FIXTURES AND FANS</b>				

<b>3</b>	Supplying of all types of CFL/LED/FL Ceiling mounted mirror optics/fibre cover/industrial type surface type with electronic ballast/ballast, condenser /electronic filter etc.in complete as follows:-			
	1630) Downlighter 12W LED 6K ENDURA DL Surface mounted LED downlighter in powder coated white finish with integrated HF electronic driver (Havells/phillips/Crompton/Bajaj/SYSKA)	<i>nos.</i>	46	
	1553) LED Batten fitting 1X20W 6K Endura elegance with LED tube (Havells/Philips/Bajaj)	<i>nos.</i>	26	
<b>4</b>	Supplying of pre-wired ceiling fan as per IS:374 (1979) in a set including standard down rod, canopy, AC ceiling fan machines, regulator etc. in completed as follows:-			
	2048) Ceiling fan 1200mm sweeps ISI marked 3 blades (Usha/cromton/equivalent)	<i>nos.</i>	2	
	2065) Bracket Wall mounting Fan 750mm sweeps ISI marked (Usha/cromton/equivalent)	<i>nos.</i>	9	
	<b>MCB DISTRIBUTION BOARD (DB)</b>			
<b>5</b>	Supplying and fixing of different numbers of ways MCB DB double door, SP&N, TP&N in sheet steel phosphatised powder painted MCB DB Bus Bar, Neutral link, earth Bar and Din rail conforms to IS:13032, IS:8623, BS:5486 240/415 volts 50Hz. AC supply on surface including inter-connection, painting etc, in completed as follows:-			
	(10) 8-ways MCB DB SP&N Acrylic Double Door	<i>nos.</i>	3	
	09) 4-ways MCB DB SP&N Acrylic Double Door	<i>nos.</i>	2	
	<b>MANIATURE CIRCUIT BREAKER (MCB)</b>			
<b>6</b>	Supplying,fitting& fixing in complete of all types and rating of maniaature circuit breaker(MCB) TP & N and SP L/G series 240/415 volts 50Hz in the existing MCB DB complete with connection, testing & commissioning etc, in completed as follows:-			
	(13) MCB SP C series 5-32 Amps	<i>nos.</i>	22	
	05) 40Amps DP MCB B-series	<i>nos.</i>	3	
	<b>SWITCH BOARD AND SWITCHES Grade-II</b>			

7	Supplying and fixing of Modular switch board of the following sizes/modules on surface/recess including PVC/Steel boxes, modular plate and necessary switches, plug/socket, and fan regulators etc. with necessary painting if necessary			
	A. ONE MODULE			
	01) 1S	<i>nos.</i>	2	
	C. THREE MODULE			
	40) 1S+1 soc	<i>nos.</i>	6	
	49) 1S+1 R	<i>nos.</i>	4	
	D. FOUR MODULE			
	56) 2S + 1Soc	<i>nos.</i>	7	
	E. SIX MODULE			
0	111) 5S + 1R	<i>nos.</i>	13	
	F. EIGHT MODULE			
	128) 8S	<i>nos.</i>	5	
	<b>EARTHING AND LOOP EARTHING</b>			
8	(8) Advance Maintenance Free Earth electrode 68mm 3 Meter length 3.6mm wall thickness copper bonded thick wall with 1 bags back filling compound electrode	<i>nos.</i>	1	
9	Providing & Laying of earth connection from earth electrode with 6 SWG GI wire in 15mm dia' G.I pipe from earth electrode as required.	<i>rm</i>	19	
10	(04) Providing & fixing of lightning conductor finial, made of copper five finger system with 85mm diameter 3mm thick base plate including holes etc completed.	<i>Set</i>	1	
	(60) Providing & fixing of copper tape 20mm X3mm thick on parapet or surface of wall for lightning conductor in complete ( for vertical run)	<i>rm</i>	25	
	(61) Rivetting, sweating and soldering of copper tape ( with another copper tape base of the finial or any other metallic object ) as required	<i>nos.</i>	7	
	(65) Proving & fixing of testing joint made of 20mm X3mm thick copper strip 125mm long with 4-nos of tinned brass bolts, nuts and check nut and spring washer etc in complete.	<i>nos.</i>	8	

<b>11</b>	Supplying and Installation of submersible water pump 3Hp single phase (Crompton or equivalent)	<i>nos.</i>	1	
	<b>Total</b>			
	<b>Say</b>			
	<b>External Service Connection (Lump Sum)</b>			
	<b>Say</b>			
	<b>Grand Total (12)</b>			

Sl. No.	Description of Work	Unit	Qty	Rates (₹)	Amount (₹)
<b>13</b>	<b>DEVELOPMENT OF PARKING AREA</b>				
1	Providing and filling stone aggregates of size below 90mm in plinth, etc. in layers not exceeding 10 cms in depth, consolidating each layer by ramming and watering and dressing complete .				
		<i>cum</i>	<b>50.00</b>		
2	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:				
	(a) 1:2:4 (1 cement :2 course sand :4 stone aggregate 20mm nominal size)				
		<i>cum</i>	<b>50.00</b>		
3	Providing & Fixing HDPE floor Mounted Seat of back Width 440 mm, Seat Width 440 mm Back Height 400 mm & Seat Depth 465 mm as per direction of Engineer-in-charge.				
		<i>Nos</i>	<b>180.00</b>		
4	Supplying, fabricating and erecting of football goal post with overall dimensions above grass field of size 8.00 mts wide and 2.5 mts, in height, fabricated out of vertical and horizontal 'B' class G.I. pipe of 125mm dia, cross bars shall be of 2" dia.'B' class G.F. pipe, including fixing of highest quality nylon or Galvanized mesh of Poly Propylene for football goal nets which conform to ISO quality standards, made from premium 4.5mm X 24 ft X 8 ft braided white twine approved by Engineer to be attached to the main posts, cross bars with necessary hooks and anchored to the ground behind the goal posts. The vertical members of goal posts shall be sufficiently anchored below the ground with necessary excavation, cement concrete foundation etc. complete and with other members properly welded to each other to provide stable framework. The entire goal posts shall be painted with approved quality primer followed by ready mix paint of approved shade etc. complete.				
		<i>pair</i>	<b>1.00</b>		



5	<p>Supply and Installation of Dug Out seats for 10 Persons.</p> <p><b>Technical Specification:</b>          Fabricated from MS tube 50 x 50 x 1.6 mm detachable framework with matt finish polish.          For easy movement unit will be supplied with heavy duty nylon casted swivel wheel with bearing.          The unit is covered with polycarbonate transparent sheet.</p> <p>Seats          FI 1001:          Seat Width: 420mm,          Back Height: 400 mm,          Seat Depth: 465mm          Material: Blow molded, HDPE (high-density polyethylene),          Anti UV          Protection.</p>					
			<i>Nos</i>	<b>2.00</b>		
<b>TOTAL (13)=</b>						

Rupees \_\_\_\_\_ only