



BIDDING DOCUMENT
for
Construction of Hlimen Playground at Aizawl

VOLUME-II
(Price Bid)

Issued on : 2nd December, 2021
Invitation for Bids No : B. 11030/144 (Proc-Gen)/2018-ASCL/140
Package No : MIZ-AIZ-129/PG-HLMN/19
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.

Table of Forms

Letter of Price Bid	2
Schedules	3
Bill of Quantities	5

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 Hlimen Playground at Aizawl

ABSTRACT OF COST**Construction of Hlimen Playground at Aizawl**

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

Sl. No.	Description		AMOUNT
A	CIVIL WORK		
1	EARTH WORK		
2	CONCRETE WORK		
3	REINFORCED CEMENT CONCRETE		
4	BRICK WORK		
5	MARBLE AND GRANITE WORKS		
6	WOOD WORK & ALUMINIUM FITTINGS		
7	STEEL WORK		
8	FLOORING		
9	FINISHING		
10	DISMANTLING AND DEMOLISHING		
11	ALUMINIUM WORK		
12	WATER PROOFING		
13	FENCING - BOUNDARY		
14	SEPTIK TANK (50 users)		
15	RETAINING WALL		
	Subtotal	A	
B	SERVICES		
16	Electrical Works		
17	Plumbing Works		
18	Fire Protection Works		
	Subtotal	B	
C	ADDITIONAL WORKS		
19	MARKET RATE ITEMS		
20	Water Supply		
21	Power Supply		
	Subtotal	C	
D	Total Amount	D=A+B+C	
E	Contingency	E	21,56,841.00
F	GRAND Total Amount	F=D+E	
	(Rupees _____ only)		

DETAILED BILL OF QUANTITIES (BOQ)

1 to 15) EARTH WORK, CONCRETE WORK, REINFORCED CEMENT CONCRETE WORK, BRICK WORK, MARBLE AND GRANITE WORK, WOOD WORK & ALUMINIUM FITTINGS, STEEL WORK, FLOORING, FINISHING, DISMANTLING & DEMOLISHING, ALUMINIUM WORK, WATER PROOFING, FENCING - BOUNDARY, SEPTIK TANK, RETAINING WALL						
Sl. No.	Particulars/Items	No.	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
<u>1. EARTH WORK</u>						
1	Carriage					
	Excavated Rock -1 km		Cum	120.00		
2	Clearing and grubbing road land including uprooting rank vegetation, grass, brush shrubs, saplings and tree of girth upto 300mm, removal of stumps, disposal of serviceable material upto 100 metres from road boundary.					
	By Mechanical means. (for all classes of jungle).					
	For External Area except Ground taking lump sum area		Sqm	8263.00		
3	Felling trees of girth (measured at height of 1m above ground level) including cutting of trunks and branches and removing the roots and stacking of serviceable material and disposal of unserviceable material with all lifts and upto a lead of 100 metres and earth filling in the depression/pit.					
	Girth from 30 cm to 60 cm		No	10.00		
	Girth from 60 cm to 120 cm		No	2.00		
	Girth from 120 cm to 240 cm		No	1.00		
4	Earthwork in excavation in foundation trenches or drains etc. (not exceeding 1.5m in width or 10sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m including getting out excavated soil and disposal of surplus excavated soil as directed within a lead of 50 metres.					
	Ordinary Soil					
	Drainage/Storm/SWR Pipes	1	Cum	100		

5	Earth work in excavation by mechanical means (exceeding 30 cm in depth, 1.5m 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.					
	All kinds of soil (excluding ordinary & hard rock)					
	Block - Footing		Cum	1495.55		
	External Development					
	Drain Channel Foundation	1.00	cum	112.80		
	Guard Room Foundation	4.00	cum	29.95		
			cum	142.75		
6	Earth work in excavation by mechanical means (exceeding 30 cm in depth, 1.5m 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.					
	Ordinary Rock					
	Cutting of Rock on Pathway	1	cum	120.00		
7	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.					
	Block A		Cum	1041.47		
	External Development		Cum	23.59		
8	Extra for every additional lift of 1.5 m or part thereof in excavation/banking excavated or stacked materials					
	All kinds of soil					
	Block A - Lift 1		Cum	417.99		
9	Providing and filling approved river sand in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each layer by ramming and watering and dressing complete.					
	External Development					
	Below Paver Blocks Area	1	Cum	47.70		
	Under Chequered tile	1	Cum	13.44		
				61.14		
					Total (1) =	

<u>2. CONCRETE WORK</u>						
1	Providing and laying in position cement concrete of specified grade excluding cost of centring and shuttering -All work upto plinth level					
	1:3:6(1cement:3course sand:6 stone aggregate 20mm nominal size)					
	Block A - Footing		Cum	38.54		
	External Development		Cum	70.86		
2	Providing and laying in position cement concrete of specified grade excluding cost of centering and shuttering - All work upto plinth level:					
	1:2:4 (1 Cement : 2 course sand : 4 stone aggregate 20mm nominal size)					
	Provisional for External Development		Cum	0.50		
3	Providing and laying cement concrete in retaining wall, return wall, walls (any thickness) including pilasters, piers, columns, abutments, pillars, posts, plain window sills, sunken floors, etc. upto floor five level excluding the cost of centering, shuttering and finishing:					
	1 : 2: 4 (1 cement : 2 course sand :4 stone aggregate 40 mm)					
	Provisional Qty for Sunken , Window cills etc.					
	Block			1.00		
					Total (2) =	
<u>3. REINFORCED CEMENT CONCRETE</u>						
1	Providing and laying in position machine batched and machine mixed design mix M-20 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS:9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. "(Note:Cement content considered in this item is @ 330 kg/cum." Excess/less cement used as per design mix is payable/recoverable separately).					
	All works upto plinth level					

	Block - Foundation		Cum	415.54		
	External development		Cum	48.30		
	All work form plinth level upto floor V level					
	Block					
	Columns above Plinth level		Cum	299.57		
	External Development		Cum	1.31		
2	Extra for providing richer or leaner mixes respectively at all floor levels.					
	Providing M-25 grade concrete instead of M-20 grade BMC/RMC. (Note:- Cement content considered in M-25 is @ 330 Kg/cum)					
	Block A					
	Qty same as item no. 5.28 a + 5.28 b		Cum	715.11		
	External Development					
	Qty same as item no. 5.28 a + 5.28 b		Cum	49.61		
3	Centering and shuttering including strutting, propping etc. And removal of form for all heights					
	Foundation, footings, bases of column etc. for mass concrete.					
	Block - Footing		Sqm	245.44		
	External Development		Sqm	62.32		
4	Walls including attached pillars, buttresses, string course, etc.					
	Block					
	Lift Walls	1	Sqm	1.00		
	External development					
	Drain Channel Walls	4.00	Sqm	394.80		
5	Suspended floors, roofs, landings, shelves and their support, balconies and chajjaj, etc.					
	Block - Slab at Level + 150		Sqm	1500.67		
	External Development - Guard Room Slab	1.00	Sqm	3.04		
6	Lintels, beams, plinth beams, girders, bressumers & cantilevers, etc.					
	Block - Beams		Sqm	1431.71		
	External Development -Guard Room Beams	1.00	Sqm	4.83		
7	Columns, pillars, piers, abutments, posts and struts.					
	Block - Columns		Sqm	956.21		
	External Development - Guard Room Columns	4	Sqm	9.94		

8	Staircases (except spiral staircase) excluding landings.					
	Block - Staircase, Flights & Landings		Sqm	18.85		
9	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.	Qty				
	Thermo-Mechanically Treated bars of grade Fe-500 or more					
	Block A		Kg	125704.65		
	External		Kg	5211.61		
					Total (3)=	
4. BRICK WORK						
1	First class Brickwork in foundation and plinth in : In cement mortar 1:6 (1 cement : 6 coarse sand)					
	Provisional for Block, Misc Works, Chambers etc		cum	20.13		
2	First class brick in superstructure above plinth level upto floor V level in : In cement mortar 1:6 (1 cement : 6 coarse sand)					
	Block - Ground Floor, First Floor		cum	893.68		
	External Work					
	Guard room	1	cum	4.35		
3	Half brick masonry with first class brick in foundation and plinth in : in cement mortar 1:4 (1 cement : 4 coarse sand)					
	Block & External Work		Sqm	15.00		
4	Half Brick Masonry with first class brick in superstructure above plinth level upto floor V level: In cement mortar 1:4 (1 cement : 4 Course sand)					
	Block - Ground Floor, First Floor		Sqm	977.80		
	External Work		Sqm	10.00		
5	Extra for providing and placing in position 2 Nos. 6mm dia.M.S. bars at every third course of half brick masonry.					
	Qty Same as Half B/w Block A		Sqm	1871.48		
					Total (4) =	
5. MARBLE & GRANITE WORK						

1	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar location, of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.					
	Granite (galaxy black)					
	Block A		Sqm	14.88		
2	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.					
	Granite work					
	Block A		Rm	19.86		
3	Extra for fixing marble/granite stone over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based (Araldite or equivalent) adhesive including cleaning etc. complete.					
	Block					
	Qty Same As 8.03 b		Rm	19.86		
4	Extra for providing opening of required size and shape for wash basins/kitchen sink in kitchen platform, vanity counters and similar location in marble/stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete.					
	Block		Per Opening	20.00		
5	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the case with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) as per direction of Engineer-in-charge and finished smooth.					

	Granite Stone of approved shade					
	Block					
	Ground Floor - Toilet M	8	sqm	3.30		
					Total (5) =	
6. WOOD WORK & ALUMINIUM FITTINGS						
						-
1	Providing 1st class local wood dressed in frames of chaukat for doors, window, clerestory windows fixed in position.					
	Block A - Doors		Cum	1.86		
2	Providing and fixing 1st class local wood panelled shutters for doors etc. including M.S. butt hinges with necessary screws, etc. complete.					
	35 mm thick					
	Block A - Doors		sqm	78.23		
3	Providing and fixing aluminium sliding door bolts (aldrops) anodised transparent or dyed to required colour or shade with nuts and screws etc. complete.					
	300x16 mm					
	Block - Doors		No	22.00		
4	Providing and fixing Aluminium Tower Bolts (Socket Bolts anodised transparent or dyed to required colour or shade with necessary screws etc. complete.					
	250 mm					
	Block - Doors		No	39.00		
	150 mm					
	Block					
	Qty Same as 14.51 a	39.00	No	39.00		
5	Providing and fixing Aluminium handles anodised transparent or dyed to required colour or shade with necessary screws, etc. complete.					
	125mm					
	Block - Doors		Each	56.00		
6	Providing and fixing Imex window fittings including necessary screws complete. Friction hinges for Aluminium windows etc.					
	Block - Windows		No	23.00		
7	Providing and fixing bright finished brass two lever mortise door lock with necessary screws, etc. complete.					

	Knob type					
	Block D1	11	No	11.00		
				Total (6)=		
<u>7. STEEL WORK</u>						
1	Providing & fixing stainless steel (grade304) railing made of hollow tubes,channels,platesetc,including welding ,grinding,buffering ,polishing & making curvature (whatever reqd)& fitting the same with necessary stainless steel nuts & bolts completei/c fixing the railing with necessary accessories & stainless steel dash fasteners ,stainless steel bolt etc.of 80cm high in staircases etc consisting of 75mm for rail & post 63mm for longitudinal intermediate rail& 25mm vertical section ,spacing 125mm interval & as per approval of engineer in charge.		Sqm	30.90		
2	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. In a grating, frames, guard bar, ladders, railings, brackets, gates & similar works. For Drain channel around Play Ground. For Revolving gate, DG , Substation foundation, Loft Tank etc. Main Gate		Kg	8960.00		
				Total (7)=		
<u>8. FLOORING</u>						
1	52 mm thick Cement concrete flooring with concrete hardener topping under laayer 40 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 moxed @ 2 litre per 50kg of cement.This includes cost of cement slurry but excluding the cost of nosing of steps etc. complete.					
	Block		Sqm	731.12		
2	Providing and fixing glass strips 40 MM wide and 4 mm thick in joints of terrzi/cement concrete floors.					
	For Cement Flooring - Block		Rm	825.00		

3	Chequered precast cement concrete tiles 22mm thick with marble chips of size upto 6mm in floor, treads of step, landing, footpath and courtyard jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and cleaning etc. complete on 20mm thick bed of cement mortar 1 : 4 .					
	medium shade using 50% white cement & 50% ordinary cement					
	Block - Entrances	2	Sqm	14.40		
	External - Around Ticket Counter	1	Sqm	120.00		
4	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08 and conforming to IS:15622, of approved make, in all colours and shades, laid on bed of 20mm thick cement mortar 1:4 (1 cement : 4 Course sand), including the joints with white cement and matching pigments etc. complete. as per design colours.					
	Double Charge - Block		Sqm	259.41		
5	Providing and laying vitrified tiles in different sizes (thickness to be specified by the the manufacturer) 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).					
	Double Charge					
	Block - Skirting @ 15% of Flooring		Sqm	38.91		
6	Grouting the joints of flooring tiles having joints of 3 mm width using epoxy grout mix of 0.70 kg. of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg. of resin per kg) grouting and finishing complete as per direction of Engineer-in-charge.					
	Block - Qty Flooring, Qty Skirting		Sqm	298.32		

7	Providing and laying Precast interlocking Paver tiles (CDI pattern) of approved make locally available at Aizawl over a sand cushion and 100 mm thick PCC bed of 1:2:4 including supplying, placing and cleaning, etc., complete (Cost of dressing of soil and PCC to be paid separately).					
	External development		sqm	476.98		
8	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 course sand) and jointing with cement slurry @ 3.3 kg per sqm. including pointing in white cement mixed with pigment of matching shade complete.					
	Block - Players Washroom F, Players Washroom M, Toilet M, Toilet F, DA Toilet		sqm	111.52		
9	Providing and ceramic glazed floor tiles of size 300x300mm or more (thickness to be specified by manufacturer) of 1st quality conforming to IS:15622 of approved make in all colours, shades, except white, ivory, grey, fume red brown, laid on 20 mm thick cement mortar 1:4 (1 cement : 4 course sand) including pointing the joints with white cement and matching pigments etc. complete as per designed colour.					
	Gloss Finish					
	Block - Players Washroom F, Players Washroom M, Toilet M, Toilet F, DA Toilet, Pantry, Toilet M (VIP Lounge), Toilet F (VIP Lounge)		Sqm	130.16		
10	Kota stone slab flooring over 20mm (average) thick base laid over cement mortar 1 : 4 and jointed with white cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete.					
	25 mm Thick - Below Stair Flooing, Step Treads, Landing, Sports Equipment Store		Sqm	55.49		

11	Kota stone slab 25mm thick in skirting, risers of steps, dado and pillars laid on 12mm (average) thick base laid over cement mortar 1 : 3 and jointed with white cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete.					
	Step Risers, Skirting		Sqm	10.11		
12	Extra for pre finished nosing in steps and treads of kota stone.					
	Step Thread, Step Riser		Sqm	13.73		
				Total (8) =		
09 FINISHING						
1	12 mm cement plaster 1:6 (1 cement : 6 fine sand)					
	Block A		Sqm	4552.46		
	External Work					
	Taking 01 Side		Sqm	87.10		
2	15 mm cement plaster 1:6 (1 cement : 6 fine sand)					
	Block A - Taking 01 Side		Sqm	9,331.70		
	External Development					
	Qty Same as 12 mm plaster		Sqm	87.10		
3	20 mm cement plaster 1:4 (1 cement : 4 fine sand)					
	Block - Walls - Ground Floor & First Floor		Sqm	621.82		
	External Development					
	Guard Room	1	Sqm	48.00		
4	6 mm cement plaster to ceiling 1:4 (1 cement : 4 fine sand)					
	Block A		Sqm	1,520.00		
5	Extra for providing and mixing water proofing materials in proportion recommended by manufacturer in					
	20mm cement plaster 1 : 4 (1cement : 4 sand)					
	Block A		Sqm	621.82		

6	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.					
	Block A					
	12 mm Plaster		Sqm	4,552.50		
	15 mm Plaster		Sqm	4,552.50		
7	Finishing walls with exterior emulsion of required shade on new work (three or more coats) to give an even shade.					
	Premium exterior emulsion like weather shield, weathercote etc.					
	Block - Qty Same as 20 mm Plaster		Sqm	622.00		
	External Development					
	Guard Room		Sqm	48.00		
8	Applying one coat of Efflorescence resistant penetrating primer for Raincoat, Newcoat & Heatshield of approved brand and manufacture on wall surface, cement primer of approved brand and manufacture on wall surface.					
	Block - Provisional		Sqm	10.00		
	External Development					
	Provisonal		Sqm	10.00		
9	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications.					
	On steel work - Provisional		Sqm	10.00		
	On concrete work - Provisional		Sqm	10.00		
10	White washing with lime to give an even shade: New work (Three of more coats)					
	Provisional for Block A		Sqm	50.00		
11	Painting with silicon and acrylic emulsion based water thinnable sealer of approved brand and manufacture on wet or patchy portion of plastered surfaces: Two coats					
	Block A - Qty Same as Putty		Sqm	9104.91		
12	French spirfit polishing (two or more coats) on new works including a coat of wood filler:					

	Block A - For Both Sides of Doors - D1, D2, D3, D4 & D5		Sqm	93.84		
13	Applying priming coat with ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood) and Plywood.					
	Block A - Qty Same As Polish 20.77		Sqm	93.87		
14	Applying priming coat with ready mixed red oxidized zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works.					
	Block A - Provisional		Sqm	100.00		
	External Development - Provisional		Sqm	100.00		
					Total (9) =	
<u>10. DISMANTLING & DEMOLITION</u>						
1	Demolishing cement concrete manually/by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge.					
	Nominal concrete 1:4:8 or leaner mix					
	Existing Seating Box	1	Cum	10.00		
	Water Tank	1	Cum	1.50		
2	Demolishing R.C.C. work manually/by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 meters lead as per direction of Engineer-incharge.					
	Water Tank	4	Cum	19.20		
3	Extra for cutting reinforcement bars in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B.work)					
	Water Tank		Sqm	20.00		
4	Extra for scrapping, cleaning and straightening reinforcement from R.C.C. or R.B. work					
	Provisional		kg	150.00		
5	Demolishing brick work manually/by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead:					

	In cement mortar - Provisional		Cum	5.00		
					Total (10) =	
<u>11. ALUMINIUM WORK</u>						
1	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 fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene flt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/panelling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately). For fixed portion					
	Powder coated					
	Block - W1, W2, W3, W4, W6 & V1		Sqm	39.41		
2	For shutters of doors, windows and 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).					
	Powder coated					
	Block A - Qty Same as item No. 11.03 c		Sqm	39.41		
3	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.					
	With glass panes of 5.50 thickness					
	Block - Qty Same as item No.11.03 c		Sqm	36.98		
4	Frosted glass of 4.00 mm thickness					
	Block - only for Ventilators		Sqm	2.43		

5	Filling the gap in between aluminium frame & adjacent RCC/Brick/Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and directions of Engineer-in-charge complete. Upto 5mm depth and 5 mm width.					
	Block - W1, W2, W3, W4, W6 & V1		Metre	135.30		
					Total (11) =	
<u>12. WATER PROOFING</u>						
1	Applying double coated cement slurry with water proofing chemical (SUPER latex chemical) in proportion 1 : 4 : 7 (1latex : 4water : 7 cement) including cleaning the treated surface with brushes etc. @ 0.158kg/sqm.					
	Block					
	Toilets Floor		sqm	166.20		
					Total (12) =	
<u>13. FENCING</u>						
1	Providing, fabricating and fixing in position at all height "Y" shaped barbed wire fencing, comprising of mild steel angle 40x40x8mm thick "Y" shaped posts, approximately 1.75m long, placed at 2.5m intervals and welded with angle iron post already placed in position including providing 9-horizontal rows and 6 - diagonals, interwoven with horizontal lines, of 12 gauge, 2 ply, 4 points galvanised iron barbed wire approved make, equally spaced and properly alligned, fixed and fitted with GI staples or tiled with binding wire including necessary welding for fixed angle iron posy, complete in all respects as per drawings and direction of Engineer-in-charge(measurement shall be taken for the pattern length as a whole) .					
	Boundary Wall	1	Rm	356.00		
					Total (13) =	
<u>14. SEPTIK TANK (50 Users)</u>						
	Size = 1 nos x 5 x 2 x 1.69 m					
1	Earth work in excavation by mechanical means (exceeding 30 cm in depth, 1.5m 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.					
	All kinds of soil (excluding ordinary & hard rock) - Excavation		Cum	52.61		
2	Providing and laying in position cement concrete of specified grade excluding cost of centring and shuttering -All work upto plinth level					

	1: 4 :8 (1 cement : 4 coarse sand : 8 stone aggregate 40 mm nominal size) Septik Tank		Cum	1.73		
3	Providing and laying in position machine batched and machine mixed design mix M-20 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS:9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. "(Note:Cement content considered in this item is @ 330 kg/cum." Excess/less cement used as per design mix is payable/recoverable separately).					
	All work upto foundation & plinth level - Slab of Septik tank		Cum	2.29		
4	Extra for providing richer or leaner mixes respectively at all floor levels.					
	Providing M-25 grade concrete instead of M-20 grade BMC/RMC. (Note:- Cement content considered in M-25 is @ 330 Kg/cum)					
	Qty Same as RCC		Cum	2.29		
5	Suspended floors, roofs, landings, shelves and their support, balconies and chajjaj, etc.Septik Tank Slab					
	Septik Tank Slab		Sqm	10.81		
6	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.					
	Thermo-Mechanically Treated bars of grade Fe-500 or more					
	RCC Qty x 100 Kg/Cum	1	Kg	229.22		
7	First class Brickwork in foundation and plinth in :					
	In cement mortar 1:6 (1 cement : 6 coarse sand) - Long Walls, Short Walls, Chamber		Cum	7.02		
8	Half brick masonry with first class brick in foundation and plinth in :					

	in cement mortar 1:4 (1 cement : 4 coarse sand)					
	Internal Wall	2	Sqm	4.96		
9	12 mm cement plaster 1:3 (1 cement : 3 fine sand)					
	Internal	1	Sqm	30.42		
10	15 mm cement plaster 1:6 (1 cement : 6 fine sand)					
	External Walls	1	Sqm	29.78		
					Total (14) =	
15. Road Retaining Wall						
1	Coursed rubble masonry (second sort) with hard stone in foundation & plinth with: in cement mortar 1:3 (1 cement : 3 coarse sand) Road Sides Retaining Wall (Taking Mean height of 3+1) Foundation		Cum	70.00		
2	Providing weep holes in brick masonry /stone masonry , plain / reinforced concrete , abutment,wingwall, return wall with 100mm dia AC pipe extending through the full width of the structure with slope of 1(V):20(H) towards drawing face complete as per drawing & technical specification.					
	Weep Holes in Retaining Wall	50	Rm	25.00		
3	Providing and laying in position cement concrete of specified grade excluding cost of centring and shuttering -All work upto plinth level					
	1:3:6(1cement:3course sand:6 stone aggregate 20mm nominal size) - Foundation		Cum	3.50		
					Total (15) =	
				GRAND TOTAL		

16) PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF ELECTRICAL WORK					
Sl. No.	Description of Item	Unit	Qty.	RATE (Rs.)	AMOUNT (Rs.)
I	Sub Head - I - Point Wiring				
	Recess FRLS-PVC Conduit wiring (Grade-I)				
1	Light Point, Ceiling fan Point, Exhaust fan point Etc.(Modular Type) Wiring in Looping System With PVC wire Sheathed standard copper conductor/wires as per IS:694 (1990) and Halogen free fire retardant (HFFR) 1100 Voltage graded copper flexible wire standard copper 1.5 Sqmm running inside FRLS-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:-				
1.1	Short point (Modular)	Point	58.00		
1.2	Medium point (Modular)	Point	56.00		
1.3	Long point (Modular)	Point	98.00		
1.4	Very Long point (Modular)	Point	2.00		
2	Light Plug/Socket point 5/6 Amperes(Modular Type) Wiring in Looping System With PVC wire Sheathed standard copper conductor/wires as per IS:694 (1990) and Halogen free fire retardant (HFFR) 1100 Voltage graded copper flexible wire standard copper 2.5 Sqmm running inside FRLS-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 DB to the light plug/Socket 5/6A point etc as required:-				
2.1	Short point (Modular)	Point	7.00		
2.2	Medium point (Modular)	Point	3.00		
2.3	Long point (Modular)	Point	5.00		
2.4	Very Long point (Modular)	Point	R.O.		
3	Power Plug/Socket point 15/16 Amperes (Modular Type) Wiring in Looping System With PVC wire Sheathed standard copper conductor/wires as per IS:694 (1990) and Life shield-zero halogen low smoke (ZHLS) 1100 Voltage graded copper flexible wire stranded copper 4 Sqmm running inside FRLS-PVC conduit pipe(Heavy duty) 20 mm dia fixed, recess inside the wall/ceiling/floor as per convenience including junction box having required numbers of ways from DB to the power plug/Socket 15/16A point etc as required:-				
3.1	Short point (Modular)	Point	10.00		
3.2	Medium point (Modular)	Point	3.00		
3.3	Long point (Modular)	Point	6.00		
3.4	Very Long point (Modular)	Point	2.00		

4	Power Plug/Socket Point 20/32 Amperes (Modular type) Wiring in Looping System With PVC wire Sheathed standard copper conductor/wires as per IS:694 (1990) and Halogen free fire retardant (HFFR) 1100 Voltage graded copper flexible wire standard copper 6 Sqmm running inside FRLS-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 DB to power plug/Socket 20/32A point etc as required:-				
4.1	Short point (Modular)	Point	R.O.		
4.2	Medium point (Modular)	Point	5.00		
4.3	Long point (Modular)	Point	2.00		
4.4	Very Long point (Modular)	Point	R.O.		
5	Main To Sub-Main in Copper Wire Grade-I(Single Phase Two Wires) Wiring in Looping System With PVC wire Sheathed standard copper conductor/wires as per IS:694 (1990) and Halogen free fire retardant (HFFR) 1100 Voltage graded copper flexible wire standard copper of different sizes as mentioned below running inside FRLS-PVC conduit pipe(Heavy Duty) of all available sizes 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 as required:-				
5.1	2x2.5 Sqmm Copper conductor/cable+ 1x2.5 Sqmm earth wire	Metre	95.00		
5.2	2x4 Sqmm Copper conductor/cable+ 1x4.0 Sqmm earth wire	Metre	350.00		
5.3	2x6 Sqmm Copper conductor/cable+ 1x6.0 Sqmm earth wire	Metre	10.00		
5.4	2x10 Sqmm Copper conductor/cable+ 1x10.0 Sqmm earth wire	Metre	80.00		
5.5	2x16 Sqmm Copper conductor/cable+ 1x16.0 Sqmm earth wire	Metre	R.O.		
6	Main To Sub-Main in Copper Wire Grade-I (Three Phase Four Wires) Wiring in Looping System With PVC wire Sheathed standard copper conductor/wires as per IS:694 (1990) and Halogen free fire retardant (HFFR) 1100 Voltage graded copper flexible wire standard copper of different sizes as mentioned below running inside FRLS-PVC Conduit pipe (Heavy Duty) of all available sizes 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 as required:-				
6.1	4x6 Sqmm Copper conductor/cable+ 2x6 Sqmm earth wire	Metre	R.O.		
6.2	4x10Sqmm Copper conductor/cable+ 2x10 Sqmm earth wire	Metre	R.O.		
6.3	4x16Sqmm Copper conductor/cable+ 2x16 Sqmm earth wire	Metre	R.O.		
7	Supplying and Fixing Of ISI Marked PVC Conduit (Heavy Duty)				

	Supplying and fixing of following size of ISI Marked PVC conduit(Heavy Duty) along with accessories in surface/recess including painting in case of surface conduit,or cutting the wall and making good the same in case of recess, conduit as required.				
7.1	20 mm dia ISI marked PVC conduit pipe(Heavy Duty)	Metre	30.00		
7.2	25 mm dia ISI marked PVC conduit pipe(Heavy Duty)	Metre	610.00		
7.3	30 mm dia ISI marked PVC conduit pipe(Heavy Duty)	Metre	15.00		
7.4	40 mm dia ISI marked PVC conduit pipe(Heavy Duty)	Metre	R.O.		
	TOTAL (Sub Head - I)				
II	Sub Head - II - Switch Boards				
1	Supplying And Fixing of Switch Boards(Modular Type) (Deco-1) grade-1				
	Supplying and fixing of Modular switch board (Decorative Type) round mechanism of 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				
1.1	Two Modules Switch Board (Modular)				
	2S	Each	4.00		
1.2	Three Modules Switch Board (Modular)				
	3S	Each	1.00		
1.3	Four Modules Switch Board (Modular)				
	4S	Each	7.00		
1.4	Six Modules Switch Board (Modular)				
	6S	Each	3.00		
1.5	Eight Modules Switch Board (Modular)				
	8S	Each	1.00		
1.6	Twelve Modules Switch Board (Modular)				
	12S	Each	R.O.		
2	Supplying And Fixing Of Switch Boards				
	Supplying and fixing of FT metal box with phenolic laminated/ Sunmica sheet cover of the following sizes of surface/recess including necessary switches, plug/socket and fan regulators etc. with necessary painting if necessary:-				
2.1	4"X4" Switch board (Ordinary)				
	2S	Each	4.00		
	3S	Each	1.00		
2.2	6"X4" Switch Board(Ordinary)				
	4S	Each	7.00		

	6S	Each	3.00		
2.3	8"X6" Switch Board(Ordinary)				
	8S	Each	1.00		
2.4	8"X12" Switch Board(Ordinary)				
	12S	Each	R.O.		
	TOTAL (Sub Head - II)				
III	Sub Head - III -Distribution Board				
	Distribution Boards				
1	Supplying, fitting, & fixing of 4-ways MCB DB single door in sheet steel, Phosphatised powder painted MCB DBs with Bus Bar, Neutral Link, earth bar and din rail conforms to IS:13032, IS:8623, BS:5486 240 Volts 50 Hz, on surface/recess including inter-connection, painting etc, as required.				
1.1	8-way MCB DB SP&N Double door Acrylic door	Each	R.O.		
1.2	12-way MCB DB SP&N Double door Acrylic door	Each	2.00		
1.3	4-way (4+12), MCB DB TP&N Double door Acrylic door	Each	R.O.		
1.4	6 way (4+18), MCB DB TP&N Double door Acrylic door	Each	R.O.		
1.5	8 way (4+24), MCB DB TP&N Double door Acrylic door	Each	R.O.		
1.6	12 way (4+36), MCB DB TP&N Double door Acrylic door	Each	2.00		
	MCBs/RCCBs/ELCBs/MCCBs/Earth Fault Relay SP/SPN/DP/&N/TP/TP&N/FP				
2	Supplying and fixing of all types and rating MCBs, RCCBs, ELCBs, etc, 240/415 volts 50 Hz AC supply in the existing MCB DB complete with connections, testing & commissioning etc in completed:				
2.1	5 to 32 Amps, SP, MCB B-series	Each	78.00		
2.2	40 amps,DP, MCB B-series	Each	4.00		
2.3	5 to 32 Amps, DP, MCB B-series (25A)	Each	1.00		
2.4	63 amps'FP, MCB Isolator	Each	R.O.		
3	Supplying and fixing following rating 240/415 volts, Residual current circuit breaker (RCCB) of different breaking current and different poles in the existing MCB DB including testing & commissioning etc. in completed.				
3.1	40 amps' DP, RCCB 30mA	Each	4.00		
3.2	25 amps' DP, RCCB 30mA	Each	1.00		
4	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.				
		Each	10.00		

	TOTAL (Sub Head - III)				
IV	Sub Head - IV - Supply And Installation of light Fixture				
1	<p>The rates shall include all components that may be required to make the supply and installation complete in all respects such as :</p> <p>a) All lamps b) Internal wiring between accessories c) Earthing terminal d) Complete provision for installation e) Suitable length of GI down rod, hanger and connecting wires where called for. f) Wires for connecting the fixtures to the point through connector block. g) All metal blocks to serve as base of fixtures h) Bonding with earth wires.</p>				
2	Drilling holes in supports wherever required				
3	Fixing clamps, GI bolts and nuts, brass screws, saddles, rawl bolts and other fixing accessories as required.				
4	All recessed type fixture shall be considered with suitable length of flexible G.I. conduit.				
5	Testing of all fixtures & fans before and after installation.				
A	Supply of lighting Fixturte				
	Supply of the following lighting fixtures with all fixing accessories etc. as required.				
1	9W Surface mounted light fixtures made of powder coated, elegantly designed pressure diecast aluminium body with micro prismatic diffuser delivering UGR<19. P.F>0.95, THD<10%., Lumen>1000Lm, Efficacy is 110lm/w., Product Life 50000 Hr@L70. Digital Addressable Lighting Interface Dimmable.				
		Nos.	2.00		
2	11W Surface mounted light fixtures made of powder coated, elegantly designed pressure diecast aluminium body with micro prismatic diffuser delivering UGR<19. P.F>0.95, THD<10%., Lumen>1100Lm, Efficacy is 110lm/w., Product Life 50000 Hr@L70. Digital Addressable Lighting Interface Dimmable.				
		Nos.	8.00		
3	12W Surface mounted light fixtures made of powder coated, elegantly designed pressure diecast aluminium body with micro prismatic diffuser delivering UGR<19. P.F>0.95, THD<10%., Lumen>1300Lm, Efficacy is 110lm/w., Product Life 50000 Hr@L70. Digital Addressable Lighting Interface Dimmable.				
		Nos	25.00		
4	15W LED Surface mounted light fixtures made of powder coated, elegantly designed pressure diecast aluminium body with micro prismatic diffuser delivering UGR<19. P.F>0.95, THD<10%., Lumen>1600Lm, Efficacy is 110lm/w., Product Life 50000 Hr@L70. Digital Addressable Lighting Interface Dimmable.				

		Nos	39.00		
5	20W LED linear surface / wall mounted 4ft light fixture Made of ultra slim co-extruded aluminium channel with housing part in white finish & diffuser part in reeded opal finish,. Lumen >2100, Efficacy is 110 lm/w Product Life 50000 Hr@L70.				
		Nos	6.00		
6	20W LED linear surface / wall mounted 4ft light fixture Made of ultra slim co-extruded aluminium channel with housing part in white finish & diffuser part in reeded opal finish,. Lumen >2100, Efficacy is 110 lm/w Product Life 50000 Hr@L70.				
		Nos	1.00		
7	34W (600X600MM)LED recessed mounted 2 X 2 light fixtures made of CRCA powder coated white with micro prismatic diffuser delivering UGR<19. P.F>0.95, THD<10%.,High transmittance polystyrene opal diffuser .Lumen>3600, Efficacy is 120 lm/w, Product Life 50000 Hr@L70. Dimmable.				
		Nos	22.00		
8	40W LED Surface mounted light fixtures made of powder coated, elegantly designed pressure diecast aluminium body with micro prismatic diffuser delivering UGR<19. P.F>0.95, THD<10%., Lumen>4000Lm, Efficacy is 110lm/w., Product Life 50000 Hr@L70. Digital Addressable Lighting Interface Dimmable.				
		Nos	4.00		
9	10W LED Foot light fixture amde of oval shaped pressure die-cast aluminium housing & ring for sturdiness & corrosion resistant,Epoxy powder coated white after phosphochromate treatment.High quality polycarbonate diffuser in opal finish. Lumen> 1000, Efficacy is >100 lm/w, IP66, IK 07.				
		Nos	68.00		
10	10W BRACKET LIGHT Waterproof for outdoor lighting with 5 KV Surge Protection, CRI>80, pf> 0.9, 900 lumens complete with accessories				
		Nos	1.00		
11	10W LED bulkhead light fixture amde of oval shaped pressure die-cast aluminium housing & ring for sturdiness & corrosion resistant,Epoxy powder coated white after phosphochromate treatment.High quality polycarbonate diffuser in opal finish. Lumen> 1000, Efficacy is >100 lm/w, IP65, IK 06.				
		Nos	2.00		

12	9W LED linear surface / wall mounted 2ft light fixture Made of ultra slim co-extruded aluminium channel with housing part in white finish & diffuser part in reeded opal finish,. Lumen >1100, Efficacy is 110 lm/w Product Life 50000 Hr@L70.				
		Nos	18.00		
13	Ceiling Fan- 1200MM	Nos.	8.00		
14	Ceiling Fan- 900MM	Nos.	1.00		
15	Exhaust Fan : 450 mm sweep	Nos.	5.00		
B	Lighting Fixtures (Surface/Recess)				
	Lighting Fixtures ceiling/wall mounted:-				
1	Installation, testing & commissioning of pre-wired, LED fitting of all types, with all accessories and tubes etc., directly on ceiling/ wall, including supplying and fixing of ball and socket arrangement, 2 nos' down rod of 20mm diameter X1.6 mm thick steel conduit pipe upto 30 cm length, painting and wiring the down rod and connection with 1.5 sqmm PVC insulated copper conductor single core cable etc, as required.				
		Each	196.00		
2	Installation, testing and commissioning of ceiling fan and regulator, including wiring the down rod of standard length (upto 30 cm) with 2 X 1.5 sq.mm PVC insulated copper conductor single core cable etc. as required.				
		Each	14.00		
3	Installation of exhaust fan up-to 450mm sweeps in the existing opening, including making holes to suit the size of the above Exhaust fan, and making good the damage, connection, testing and commissioning etc, as required.				
		Each	5.00		
	TOTAL (Sub Head - IV)				
V	Sub Head -V- LT Panel, Cable and accessories				
1	Fabrication, supply, installation, testing and commissionings of cubicle type floor/wall mounted L.T. panel made out of 2.0 and 1.6mm thick CRCA sheet including connection, inter-connection alongwith 4 strip aluminium bus bar as per CP WD specifications, (Part IV - Sub-station) and IS: 8623 comprising of followings panel mounting switchgears etc. as required. MAIN LT PANEL				
	Incoming:				
	1 No.63 amp,DP,10 kA, D Curve, MCB (But Space and arrangement for TPN MCB / MCCB)				
	Metering & Indication & protections:				

	Combined Ammeter/Voltmeter with Selector Switch and 63/5A, CL-1, 10VA CTs and 2A control MCB.			
	Sets of phase indicating lamp with control MCBs.(ON OFF)			
	Bus Bar:			
	100A DP aluminium, colour coded bus bars suitable for 240V, 50Hz with fully rated neutral.(After deration)			
	Outgoing:			
	3 No.40 amp,DP,10 kA, D Curve, MCB			
	2 No.25 amp,DP,10 kA, D Curve, MCB	Set	1.00	
2	Laying of UG/XLPE cables			
	Supplying, unrolling & Laying of different sizes of underground cables XLPE in the existing excavated Earth, masonry duct, RCC/Hume/metal pipe etc, including commission etc.			
2.1	XLPE/PVC Power Aluminium cable 16sqmm 2 core as per IS:1554 Part-II			
		Meter	80.00	
3	Cable Joining Kit			
	Supplying, fixing & commissioning of cable end Joint for Underground Cable XLPE including commission etc.			
3.1	XLPE/PVC Power Aluminium cable Termination end Jointing Kit 16sqmm	Each	2.00	
4	Providing, laying and fixing following dia RCC pipe NP 2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc. as required.			
4.1	100 mm dia.	Meter	80.00	
	TOTAL (Sub Head - V)			
VI	Sub Head - VI - Earthing			
	Earthing and Loop Earthing			
1	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and water pipe etc. with charcoal/ coke and salt as required.			
		Each	1.00	
2	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and water pipe etc. with charcoal/ coke and salt as required.			
		Each	2.00	
3	Providing & fixing of 6 SWG G.I. wire on surface /Recess for Loop earthing etc. as required.			
		Mtr.	100.00	

4	Providing and fixing 25 x 5 mm G.I. Strip in 40 mm dia. G.I. pipe from earth electrode etc. as required.				
		Mtrs.	8.00		
5	Providing, laying, fixing, connecting and testing of undernoted sizes of copper strip/ GI strip/ wire from earth electrode to equipment loop and earthing system, in trenches, on surfaces, along pole or along M.S. support, etc. including excavation where required for laying the copper strip/ GI strip and filling back complete, conforming to relevant IS and all as specified.				
5.1	CU strip 25mm x 3mm on surface or in recess etc.	Mtr.	15.00		
5.2	GI strip 25mm x 5mm on surface or in recess etc.	Mtr.	25.00		
	TOTAL (Sub Head - VI)				
	GRAND TOTAL				

17) PACKAGE - PLUMBING WORKS					
Sl. No	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT (Rs)
1	CHAPTER 1: SANITARY FIXTURES AND ALLIED REQUISITES				
1.1	Providing and fixing vitreous china pedestal type water closet (EWC European type wc pan) with seat and lid, 10 litres low level flushing cistern including flash pipe with manually controlled device (handle over) conforming to is: 7231 with all fittings & fixtures complete ,including cutting & making good the walls wherever required .				
	White	Each	16		
1.2	Providing and fixing vitreous china Urinal flat back large 59 x 39 x 37.5cm 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.				
	White	Each	8		
1.3	Providing & fixing vitreous division plate 69x30cm size for urinals.				
	White	Each	8		
1.4	Providing & fixing health faucet with flexible tube upto 1 meter long & holder of quality & make as applied by engineer in charge.				
		Each	16		

1.5	Providing and fixing white vitreous china wash basin standard of parryware /hindware/cera & equivalent make with R,S OR C.I brackets ,15mm c.p brass pillars taps , c.p brass chain with rubber plugs,32mm c.p brass waste of standard pattern ,32mm c.p brass taps & union complete including painting & brackets cutting & making good the walls wherever required.		
	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C. P. brass pillar taps.		
	White	Each	1
1.6	Providing & fixing CP brass 32mm size bottle trap of app1ved quality & make & as per the direction of engineer in charge.		
		Each	18
1.7	Providing and fixing vitreous china Vanity Basins of size 56x45 (Under Counter) of Parryware/ Hindware/ Cera and equivalent make with R.S. or C.I. brackets, 15mm C.P. brass pillar taps, C.P. brass chain with rubber plugs, 32mm C.P. brass waste of standard pattern, 32mm C.P. brass traps and union complete including painting of fittings and brackets, cutting and making good the walls wherever required.		
	White - Vanity Basin of size 56x45 (Under Counter) with central hole basin mixer.		
		Each	18
1.8	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS ;13983 with c.i brackets & stainless plug 40mm including painting of fitting & brackets ,cutting & marking good the walls wherever required :(hindware & equivalent)		
	Single Sink 610x510 mm with bowl depth of 200mm.	Each	1
1.9	Providing and fixing mirror of superior glass (of app1ved quality) and of required shape and size with plastic moulded frame of app1ved make and shade with 6 mm thick hard board backing:		
		Each	18
1.10	Providing and fixing anodised aluminium towel rail complete with brackets fixed to wooden cleats with c.p brass screws.		
	600x20mm size.	Each	2
1.11	Providing and fixing toilet paper holder:		
	C.P. brass toilet paper holder of standard size.	Each	16
1.12	Providing and fixing liquid soap container with C.P brass lid and brackets fixed to wooden cleats with c.p brass screws.		
	Soap dish chromium plated with brackets.	Each	18

1.13	Providing & fixing soap dish fixed with c.p brass screws.	Each	2		
1.14	Providing and fixing chromium plated long neck pillar cock of approved quality.				
	15mm nominal bore .classik	Each	7		
1.15	Providing and fixing 15mm nominal bore c.p brass angle stop cock for basin mixer & geyser points of approved quality confirming to IS:8931.				
	Class 2	Each	68		
1.16	Providing and fixing chromium plated brass shower 1se with 15 or 20mm inlet.				
	150mm dia CP brass shower 1se.	Each	4		
1.17	Providing and fixing chromium plated brass close basin mixer pillar tap 15mm nominal bore for basin and geyser points of approved quality.				
	central hole basin mixer 1und spout without popup waste system	Each	8		
1.18	Providing and fixing chromium plated brass wall mixer 15mm nominal bore of approved make with necessary fittings including cutting & making good the wall .				
	Wall mixer non telephonic	Each	4		
1.19	Supply, installation, testing and commissioning of C.P.cast brass twin coat hooks fixed to wooden cleats with C.P.brass screws.				
		Each	16		
1.2	Supply, installation, testing and commissioning of C.P. brass towel ring fixed to Wooden / PVC cleats with C.P. brass screws				
		Each	18		
	SUB TOTAL (1)				
2	CHAPTER 2: INTERNAL DRAINAGE				
2.1	Providing and fixing on wall face SWR PVC soil, waste and vent pipes including jointing with rubber lubricant/cement solvent complete.				
	110mm dia.	mtr.	150		
2.2	Providing and fixing SWR PVC plain bend of required degree (87.50°) including jointing with rubber lubricant/cement solvent complete.				
	110 mm dia.	Each	33		
2.3	Providing and fixing SWR PVC plain bend of required degree (45°) including jointing with rubber lubricant/cement solvent complete.				
	110 mm dia.	Each	3		

2.4	Providing and fixing SWRPVC bend with access door of required degree including jointing with rubber lubricant/cement solvent complete.			
	110mm dia SWRPVC bend with access door.	Each	8	
2.5	Providing and fixing single equal SWR PVC plain junction of required degree with access door (T-junction) .			
	110x110x110mm.	Each	2	
2.6	Providing and fixing SWRPVC plain junction of required degree (Y-junction) including jointing with rubber lubricant/cement solvent.			
	110 mm Y-junction.	Each	2	
2.7	Providing and fixing SWRPVC socket including jointing with rubber lubricant/cement solvent.			
	110mm dia socket.	Each	42	
2.8	Providing and fixing ventilation cowl including jointing with rubber lubricant/cement solvent complete.			
	110mm SWRPVC vent cowl	Each	2	
2.9	Providing and fixing W.C. connection bend type (siphon) (SWRPVC) including jointing with rubber lubricant/ solvent cement.			
		Each	16	
2.10	Providing and fixing upvc multi floor trap with floor trap grating including jointing with rubber lubricant/solvent cement.			
		Each	25	
2.11	Supplying, fixing, testing and commissioning of Heavy class CP grating with Cocklach p1of strainer of applied design including setting in floor with cement mortar to match with floor finish as per architect requirement suitable for FD and FT. a) Size 100mm x 100mm			
		each	25	
2.12	Supplying, fixing, testing and commissioning of cast brass Floor Clean Out plug with suitable insert keys for opening, male threaded joint with G.I. socket drip seal to soil pipe / waste pipe of C.I. pipe as required complete as per drawing, applied sample and direction by Engineer-in-charge.			
	100 mm dia	Each	8	
2.13	Supplying, fixing, testing and commissioning of Floor drain pvc 110x63od as required complete as per drawing, applied sample and direction by Engineer-in-charge.			
	100 mm dia	Each	8	
	SUB TOTAL (2)			
3	CHAPTER 3: WATER SUPPLY			

3.1	Providing and fixing on terrace (at all floor/Loft levels) Polyethylene storage tank of applied brand and manufacture with cover and suitable locking arrangement and making necessary connections for inlet, outlet and overflow pipes but without the fittings & the base support for tank.		
	sintex & equivalent	Lit.	5000
3.2	Fixing water meter and stop cock in G.I. pipe line including cutting and threading the pipe and making long screws etc. complete (cost of water meter and stop cock to be paid separately).		
		Each	1
3.3	Providing and fixing brass ball valve of applied quality complete with plastic floats complete.		
	20mm nominal bore	Each	2
3.4	Providing & fixing chlorinated polyvinyl chloride pipes having thermal stability for hot & cold water supply, including all cpvc plain & brass threaded fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step cpvc solvent cement & testing of joints complete as per direction of engineer in charge. (Internal Works - Exposed on wall)		
	15mm dia normal bore	mtr.	80
	20mm dia normal bore	mtr.	80
	25mm dia normal bore	mtr.	45
	32mm dia normal bore	mtr.	26
	40mm dia normal bore	mtr.	11
	50mm dia normal bore	mtr.	150
3.5	extra for concealed in brick & RCC works by making chases up to 7.5x7.5 cm in walls & making good the same after housing pipes, etc.		
		mtr.	176
3.6	Providing and fixing CPVC pipes having thermal stability for hot & cold water supply including all cpvc plain & brass threaded fittings. This includes jointing of pipes & fittings with one step cpvc cement solvent trenching refilling & testing of joints complete as per direction of engineer in charge. (External Works)		
	25mm dia nominal bore	mtr.	20
	50mm dia nominal bore	mtr.	40
3.7	Providing & Fitting Powder coated metal Strap/ holding clamps/ Clips with necessary metal fasteners and screws etc. complete		
	15/20/25 mm dia	Each	103
	32/ 40/ 50mm dia.	Each	93.5

3.8	Cutting holes upto 15x15 cm in rcc floors & 1ofs for passing drain pipe etc. & repairing the hole after insertion of drain pipe etc. with cement concrete (1cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size aggregate) including finishing complete so as to make it leak p1of.				
		Each	49		
3.9	Providing & fixing in position 25 mm dia lawn hydrants consisting of 25 mm dia Ball valve, GI nipple and threaded hose receiver complete as required.				
		Each	12		
	SUB TOTAL (3)				
4	CHAPTER 4: EXTERNAL STORM WATER AND SEWER				
4.1	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and applied quality				
	HD - 20				
	Rectangular shape 600x600mm	each	2		
4.2	Providing, laying and jointing NP2 class R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of (1:2):				
	200 mm diameter	metre	80		
	300 mm diameter	metre	15		
	SUB TOTAL (4)				
	GRAND TOTAL				

18) FIRE PROTECTION WORKS

Sl. No.	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT (Rs)
	FIRE EXTINGUISHERS				
1	Providing & fixing ISI marked portable chemical fire extinguisher, water (gas pressure) type capacity 9 litres conforming to IS: 2878 with gun metal cap and nozzle and complete in all respects including initial fill and wall suspension brackets				
		Each	4		
2	Providing & fixing ISI marked (IS:2878) portable CO2 type fire extinguisher type 4.5 kg capacity. Including valve, discharge hose of not less than 10 mm dia & 1 M long complete in all respects including initial filled with CO2 gas confirming to IS:307-1966 & filled to a filling rate of not more than 0.667 and wall suspension bracket.				
		Each	4		

3	Providing & fixing of ABC Type, Portable Fire Extinguisher, dry powder type (Gas Cartridge) conforming to IS: 15683 : 2006 with cylinder initially fully charged with dry powder, ISI marked conforming to IS:15683 : 2006 complete with standard discharge valve with tube, CI bracket for wall mounting.				
	9 Kg	Each	4		
4	Mechanical Foam type Fire Extinguisher. In HP Mild Steel Cylinders ISI marked / approved fitted with pressure indicating gauge, internal tube, squeeze lever type valve fully charged complete in all respects including wall suspension bracket / trolley mounted and conforming to IS:910				
	9 Litres	Each	2		
	50 Litres (trolley mounted)	Each	1		
	GRAND TOTAL				

19) MARKET RATE ITEMS						
Sl. No.	Particulars/Items	No.	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	Supply and installation of Besco by Merino ZMS (SS) series cubicles of width and depth as per specifications/ site drawings. Cubicle height to be 2003 mm.					

	<p>Made from solid grade compact high pressure laminate as per IS:2046 and EN-438 manufactured under high specific pressure > 5 MPa and temperature >120°C with bunch of kraft papers impregnated with thermosetting phenolic resin and decorative papers made of Alpha cellulose fiber impregnated with thermosetting melamine resin which provide superior scratch, abrasion, heat, chemical, impact, graffiti & moisture resistance along with anti-bacterial properties. Panels have a black core that when machined, presents a distinctive black edge.</p> <p>Doors: All doors will be of single colour and made of 12 mm thick Merino HPL compact panel. The doors will have chamfered edges. Each door will be supported by 3 stainless steel made hinges affixed to the pilasters. Stainless steel made coat hook and lock set are provided with each door.</p> <p>Pilasters: All pilasters will be made of 12 mm thick Merino HPL compact panel with chamfered edge and completed with stainless steel made thumb turn lock set. Aluminum made door stopper profiles with rubber linings for dampening the noise while door closing will be provided at the vertical ends of the pilasters. Pilasters will be anchored to the floor using stainless steel made adjustable legs . The bottom gap is 100-150 mm.</p> <p>Dividers: All intermediate partitions or dividers will be made of 12 mm thick Merino HPL compact laminate panels. They are affixed with stainless steel made U-channel at their ends for ultimate stability of the system.</p> <p>Design no. as specified by Arch. / Engr. in suede finish. Size of panels to be as per drawing.</p>		
	<ul style="list-style-type: none"> • Semi-spherical (Top) head frame structure for surface protection. Size to be 50x32x1.6T. Corner joinery section, Size to be 40x16.5x1.8T. U-Channel Wall joinery section,Size to be 22x16x1.6T. Door stopper section, Size to be 21x12.5x1.6T. • Adjustable Palm Design Pedestal Footing of base diameter 64 mm made from Stainless steel grade 316 giving a clearance height of 150 mm. Surface finish to be matt type. • Spring loaded Butt Hinges made from Stainless steel grade 304. Surface finish to be matt type. Covers to be lacor coated. • Coat hook with rubber stopper made from Stainless steel grade 304. Surface finish to be matt type. • Round Door knob diameter 30 mm with grooves for better hand grip made from Stainless steel grade 304. Surface finish to be matt type. • Rotating Thumb-turn locking system with privacy indicator made from Stainless steel grade 304. Surface finish to be matt type. • Stainless steel grade 304 screws. • Anti-rotation Nylon polyamide grade-6 expandable wall plugs. • The Work shall complete as per drawing , under supervision of engineer in charge and company experts • extruded grade aluminium alloy and epoxy powder coated (color as per specifications):- 		
	<p>ZMS SS Series Cubicles: Std Sizes (W x D x H): 900 mm x 1550 mm x 2003 mm, (Height is including 150 mm gap from bottom) Door Width- 600 mm.</p>		

			Nos	17.00			
2	Providing and fixing frameless full height partition wall with 12 mm thick toughened glass of approved brand and manufacture, including providing and fixing top & bottom arrangement and making necessary holes etc. for fixing as required all complete as per direction of Engineer-in-charge.						
	VIP Lounge Partition	1	Sqm	20.67			
3	Providing and fixing of expansion joint system related with wall joint (internal/ external) location as per drawings and direction of Engineer-In- Charge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221- 02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimal exposed aluminum surfaces mechanically snap locking the multicellular to facilitate movement. (Material shall confirm to ASTM 6063).						
	Wall Joint of 100 mm gap	1	Metre	20.00			
4	Providing and fixing of expansion joint system of approved make and manufactures for various roof locations as per approved drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members with, self aligning and self centering arrangement support plates as per ASTM B221-02. The system shall be such that it provides watertight roof to roof/roof to corner joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminum base member designed to accommodate various project conditions and roof treatments. The cover plate shall be designed of width and thickness required to satisfy movement and loading requirements and secured to base members by utilizing manufacturer's preengineered self-centering arrangement that freely rotates / moves in all directions. The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. The Joint System shall resist damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. (Material shall confirm to ASTM 6063).						
	Roof Joint of 100 mm gap	1	Metre	20.00			

5	Providing and fixing of expansion joint system related with floor location as per drawings and direction of Engineer-In-Charge. The joints system will be of extruded aluminum base members, self aligning / self centering arrangement and support plates etc. as per ASTM B221-02. The system shall be such that it provides floor to floor /floor to wall expansion control system for various vertical localtion in load application areas that accommodates multi directional seismic movement without stress to it's components. System shall consist of metal profiles with a universal aluminum base member designed to accommodate various project conditions and finish floor treatments. The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self- centering arrangement that freely rotates / moves in all directions. The Self - centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to have watertight joint is mandatory requirement all as per the manufactures design and as approved by Engineer -in-Charge. (Material shall confirm to ASTM 6063).				
	Floor Joint of 100 mm gap	1	Metre	10.00	
6	Supply & Installation of FIFA Quality & 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 & Fibrillated Yarn, Emerald & Lime colour, Dtex 17500, Tape thickness 260µm & 85µm, Tape width 1.10mm & 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: > 2000 mm/hr, Infilling of Silica sand at the ratio of 15 kg/m2 & SBR Granules at the ratio of 17 kg/m2 Infill as FIFA standard & Test report.Installation of Turf should be done using a seam tape & suitable PU adhesive. Adhesive TDS should match the following basic properties:Colour & 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.				
	Football Ground	1	sqm	4050.00	
	After Goal post (Area by Autocad)	2	sqm	124.72	
			sqm	4174.72	

7	<p># Excavation & Earth Work according to Site requirement (Upto 6”), considering that client will provide us land with soil infill as per the desired levels</p> <p># Preparing the slope & leveling using Auto Level</p> <p># Compaction of sub-soil with 6-8 Ton Static Rollers</p> <p># Weedicide Treatment of Land</p> <p># 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)</p> <p># Supply and Placing of 200 Microns Geo textile Separation Barrier to cover the entire field including the edges</p> <p># 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)</p> <p># Pipes would be placed on PCC Base</p> <p># 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</p> <p># 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.</p> <p># 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.</p> <p># Providing and laying of compacted upto 20mm thick with 6mm metal stone mixed with Grit</p> <p># Drain Chambers on end corners as per site requirement</p>					
	Football Ground, After Goal post (Area by Autocad)		sqm	4174.72		
8	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I. wire of dia 3 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.					
	Around Ground	1	sqm	529.20		
9	Supplying & Installation of 35 mm Straight natural look green artificial grass with taping, stitching etc. as per direction of Engineer-in-charge.					
	Buffer Area	1	sqm	846.90		

10	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.				
			Pair	1.00	
11	Supply and Installation of Dug Out seats for 10 Persons. Technical Specification: 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. Seats FI 1001: Seat Width: 420mm, Back Height: 400 mm, Seat Depth: 465mm Material: Blow molded, HDPE (high-density polyethylene), Anti UV Protection.				
			Nos	2.00	
GRAND TOTAL					