

SUB - DEVELOPMENT OF GAVAN LAND PLOT NO 21A, SECTOR NO-8, NODE-ULWE, NAVI MUMBAI.

TENDER NO. 1900000133

BILL OF QUANTITIES FOR THE PROPOSED APPRENTICE TRAINING CENTRE, GAVAN LAND ULWE

Sr. No.	Description	Unit	Total Qty	Rate (Rs.)	Total Amount (RS)
PART I CIVIL WORKS FOR BUILDING (ARCHITECTURAL)					
A MASONRY WORK					
1	Providing and laying Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:4 (1 cement : 4 coarse sand) as per specifications, drawings including racking of joints and curing etc. as directed by Engg-in-Charge.	Cum	210	7,476.30	15,70,023.00
2	Providing and laying Random rubble masonry with hard stone in foundation and plinth as per approved drawing including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :Cement mortar 1:6 (1 cement : 6 coarse sand) including curing etc. complete as directed by Engineer-in-charge.	Cum	5	7,228.02	36,140.10
3	Providing and laying Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like. Cement mortar 1:6 (1 cement : 6 coarse sand) including curing etc. complete as directed by Engineer-in-charge.	Cum	5	8,990.36	44,951.80
4	Providing and applying Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) :including curing all complete as per direction of Engineer-in-Charge. Flush/ Ruled pointing	Sqm.	5	346.94	1,734.70
5	Providing and applying Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) :including curing all complete as per direction of Engineer-in-Charge. Raised and cut pointing	Sqm.	5	630.36	3,151.80
6	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar , including scaffolding, curing all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately).	Cum	1,290	7,598.14	98,01,600.60
7	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above V floor up to floor IX floor with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge., for each four floors or part thereof by mechanical means, including scaffolding, curing all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately).	Cum	204	7,752.40	15,81,489.60
8	Providing and laying Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : including scaffolding, curing , Cement mortar 1:4 (1 cement : 4 coarse sand) etc. complete as directed by Engg-in-Charge.	Cum	7	9,247.17	64,730.19
9	Providing and laying Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above 5th floor level up to floor 9th level in all shapes and sizes in : including scaffolding, curing, Cement mortar 1:4 (1 cement : 4 coarse sand) etc. complete as directed by Engg-in-Charge.	Cum	10	9,401.43	94,014.30
10	Providing and laying Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level including scaffolding, curing, Cement mortar 1:4 (1 cement :4 coarse sand) etc. as directed by Engg-in-Charge.	Sqm.	10	1,105.97	11,059.70
11	Providing and laying Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above 5th floor level up to floor 9th level, including scaffolding, curing, Cement mortar 1:4 (1 cement :4 coarse sand) etc. as directed by Engg-in-Charge.	Sqm.	10	1,119.66	11,196.60
12	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 at all level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	74	11,644.98	8,61,728.52
13	Centering and shuttering including strutting, propping etc. and removal of form for : Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like	Sqm.	1,505	334.55	5,03,497.75
14	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Mild steel and Medium Tensile steel bars	Kg	9,607	96.64	9,28,420.48
TOTAL OF SECTION A					1,55,13,739.14
B DOORS AND DOOR FRAMES					
15	"Providing & fixing in position 38 mm thk solid commercial approved brand flush door including laminate on both sides, finished with 1 mm thk. Laminate of approved pattern from bothside,38X12mm T W beading all around the shutter, inclusive of heavy duty brass hinges of 100 x 25mm along with approved make S. S. handles/mortice lock/tribolt, S. S. finish Tower bolt, door stopper, door closer, indicator bolt, baby latch etc as per approval and complete all as per drg.,details and as directed.all complete & as directed by Engineer / Architect. complete all as per drg.,details and etc. as directed by Engg-in-Charge. (Vision panel paid saperately)	Sqm.	5	12,824.80	64,124.00

Sr. No.	Description	Unit	Total Qty	Rate (Rs.)	Total Amount (RS)
16	"Providing & fixing in position 50 mm thk solid commercial approved brand flush door including laminate on both sides, finished with 1.0 mm thk. Laminate of approved pattern from bothside,50X12mm T W beading all around the shutter, Vision panel with 50X12mm T W beading all around the panel with 5.5mm thick glass inclusive of heavy duty brass hinges of 100 x 25mm along with approved make S. S. Handles/Mortice lock, S. S. finish Tower bolt, door stopper, etc. as directed by Engg-in-Charge.	Sqm.	5	14,095.55	70,477.75
17	Providing and fixing 50 mm solid core marine shutter, with 25X40X1.5mm thick aluminium box section with 12mm thick marine plywood on both side with 50mm x12 mm tw beading and vision panel made of 5.5mm thk float glass ,finished with 1mm thick laminate on both side, with door closure , Cylinder/Mortice lock,ss finished handle ,Concealed hinges, door stopper etc. complete.	Sqm.	189	9,879.00	18,67,131.00
18	"Providing & fixing in position 38 mm thk solid marine ply approved brand flush door including laminate on both side, finished with 1 mm thk. Laminate of approved pattern from bothside,38X12mm T W beading all around the shutter, inclusive of heavy duty brass hinges of 100 x 25mm along with approved make S. S. handles , S. S. finish Tower bolt, door stopper, door closer, S S Mortise lock, baby latch, robe hook etc as per approval and etc. as directed by Engg-in-Charge.	Sqm.	119	13,743.65	16,35,494.35
19	"Providing & fixing in position 38 mm thk solid marine ply approved brand flush door including laminate on both sides, finished with 1 mm thk. Laminate of approved pattern from bothside,38X12mm T W beading all around the shutter, inclusive of heavy duty brass hinges of 100 x 25mm along with approved make S. S. Handles outside & Grab bar inside, S. S. finish Tower bolt, door stopper, door closer, indicator bolt, robe hook etc as per approval and etc. as directed by Engg-in-Charge.	Sqm.	24	14,369.25	3,44,862.00
20	Providing and fixing 18mm thick compact cubicle of approved make; Size of cubicle - 1000mm (W) X 1550mm (D) X 2100mm (H), Door Size - 610mm (W) X 1995mm (H), Divider size - 1945mm (H), Overall height of cubicle - 2100mm (Including bottom gap of 100mm) SS accessories - SS 'U' channel, SS 'F' channel, SS Door stopper channel, SS Top rail, SS Coat hook, SS privacy thumb turn c/w occupancy indicator, SS door knob, SS spring loaded butt hinges with cover, SS shoe box leg 12mm-316grade, rubber lining for groove, SS screws 304grade & PVC wall plugs etc. complete. As per manufacturer specifications. etc. as directed by Engg-in-Charge.	Nos	58	48,121.74	27,91,060.92
21	Providing and fixing Fully Glazed Door Shutters with 12mm thick toughened glass fixed on patch fittings includes top pivot, bottom patch , top patch , Patch lock of approved make and as per design and details given by the architect/ including accessories door handle, floor spring approved make etc. as directed by Engg-in-Charge.	Sqm.	28	10,576.55	2,96,143.40
22	Providing and fixing 50 mm thickness G.I. flush door shutter out of 1.2mm thick G.I.sheet of size 650mm x2400mm with galvanized frame size of 150 x 75 mm,single leaf with,bottom and stile edges for fire rating with vision panel of approved fire rated glass ,metal frame having fire rating of 120 minutes fabricated out of 16BWG thickness GI sheet with suitable rebate finished with zinc phosphate chroming primer 2 coats of PU paint , including S S ball bearing hinges, Heavy duty door closer, ss D type handle inside, panic bar outside, ss tower bolt, dead lock as per the drawings etc. as directed by Engg-in-Charge.	Sqm.	8	21,192.20	1,69,537.60
23	Providing and fixing 50 mm thickness G.I. flush door shutter out of 1.2mm thick G.I.sheet of size 650mm x2400mm with galvanized frame size of 125 x 75 mm,single leaf with,bottom and stile edges for fire rating with vision panel of approved fire rated glass ,metal frame having fire rating of 120 minutes fabricated out of 16BWG thickness GI sheet with suitable rebate finished with zinc phosphate chroming primer 2 coats of PU paint , including lock, door closer, ss D type handle, ss tower bolt , panic bar or as per the drawings etc. as directed by Engg-in-Charge.	Sqm.	249	18,142.40	45,17,457.60
24	Providing and fixing 30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast onolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames. etc. as directed by Engg-in-Charge.	Sqm.	5	3,798.72	18,993.60
25	Glazed Partitions: Providing and fixing fully glazed partition for External/Internal, using 12mm thick toughened glass, fixed with approved patch fittings at top & bottom, including all hardware as per detailed drawings, etc. as directed by Engg-in-Charge.	Sqm.	202	6,764.30	13,66,388.60
26	Providing and fixing vision panel not exceeding 0.5 sqm in all type of flush doors including 8mm thick toughened glass etc. as directed by Engg-in-Charge. (Only vision panel area will be measured)	Sqm.	3	2,657.55	7,972.65
27	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	Nos	5	930.25	4,651.25
28	Providing and fixing stainless steel (Whole body) heavy duty automatic double action hydraulic floor springs of approved make including cover plates with stainless steel pivot & single piece SS sheet outer box and slide plate for door including the cost of cutting the floor a required, embedding in floors, making good the floors etc. complete as directed Engineer-in-charge.	Nos	5	3,030.25	15,151.25
29	Providing and fixing in position Aluminium louvered window of size as per drawing with Aluminium frame as per drawing, with 3mm thick Aluminium anodised louvers as per design, including labour for fixing of the fittings & fixtures etc. as directed by Engg-in-Charge.	Sqm.	22	7,839.55	1,72,470.10

Sr. No.	Description	Unit	Total Qty	Rate (Rs.)	Total Amount (RS)
30	<p>Providing and fixing Motorized Rolling shutter including curtain made of single skinned, Galvalume steel laths with natural finish, 600mm deep grill, pressed galvalume steel hood & motor cover with natural finish, CRC compact gear P R C make indicator drive operator, three station push button with deaman control. Galvalume with natural finish, Partial Bright Steel with one coat of grey epoxy primer by spray, Curtain Weight 13 kg/m2 approx, Support Brackets Mild Steel with one coat of grey epoxy primer by spray, complete as per manufacturer specifications. etc. as directed by Engg-in-Charge.</p> <p>Shaft Shaft is manufactured from mild steel tube of suitable outside diameter and wall thickness to suit the shutter application and is unsprung, Finish One coat of grey epoxy primer by spray</p> <p>Side Guides 2.0mm thick heavy duty TG Galvanised Steel, Finish One coat of grey epoxy primer by spray</p> <p>Bottom Profile Bend-resistant double-skinned extruded Aluminium profile for additional strength. The bottom rail is fitted with extruded rubber bottom seal that will seal against the floor when the door is fully closed. Galvanised steel profile available on request, Finish One coat of grey epoxy primer by spray</p> <p>Locking arrangement Optional [applicable only for Galvanised steel Bottom profile]</p> <p>Hood & Motor Cover Pressed galvalume steel hood box complete with reinforced bracket as required to suit the shutter width with natural finish, Motor of PRC, European Make Size 4000X3400mm</p>	Sqm	28	9,665.95	2,70,646.60
31	<p>Providing and fixing Motorized Rolling shutter including curtain made of single skinned, Galvalume steel laths with natural finish, 600mm deep grill, pressed galvalume steel hood & motor cover with natural finish, CRC compact gear P R C make indicator drive operator, three station push button with deaman control. Galvalume with natural finish, Partial Bright Steel with one coat of grey epoxy primer by spray, Curtain Weight 13 kg/m2 approx, Support Brackets Mild Steel with one coat of grey epoxy primer by spray, complete as per manufacturer specifications. etc. as directed by Engg-in-Charge.</p> <p>Shaft Shaft is manufactured from mild steel tube of suitable outside diameter and wall thickness to suit the shutter application and is unsprung, Finish One coat of grey epoxy primer by spray</p> <p>Side Guides 2.0mm thick heavy duty TG Galvanised Steel, Finish One coat of grey epoxy primer by spray</p> <p>Bottom Profile Bend-resistant double-skinned extruded Aluminium profile for additional strength. The bottom rail is fitted with extruded rubber bottom seal that will seal against the floor when the door is fully closed. Galvanised steel profile available on request, Finish One coat of grey epoxy primer by spray</p> <p>Locking arrangement Optional [applicable only for Galvanised steel Bottom profile]</p> <p>Hood & Motor Cover Pressed galvalume steel hood box complete with reinforced bracket as required to suit the shutter width with natural finish, Motor of PRC. European make Size 2500X3000mm</p>	Sqm	23	13,485.48	3,10,166.04
32	<p>Providing and fixing Motorized Rolling shutter including curtain made of single skinned, Galvalume steel laths with natural finish, 600mm deep grill, pressed galvalume steel hood & motor cover with natural finish, CRC compact gear P R C make indicator drive operator, three station push button with deaman control. Galvalume with natural finish, Partial Bright Steel with one coat of grey epoxy primer by spray, Curtain Weight 13 kg/m2 approx, Support Brackets Mild Steel with one coat of grey epoxy primer by spray, complete as per manufacturer specifications. etc. as directed by Engg-in-Charge.</p> <p>Shaft Shaft is manufactured from mild steel tube of suitable outside diameter and wall thickness to suit the shutter application and is unsprung, Finish One coat of grey epoxy primer by spray</p> <p>Side Guides 2.0mm thick heavy duty TG Galvanised Steel, Finish One coat of grey epoxy primer by spray</p> <p>Bottom Profile Bend-resistant double-skinned extruded Aluminium profile for additional strength. The bottom rail is fitted with extruded rubber bottom seal that will seal against the floor when the door is fully closed. Galvanised steel profile available on request, Finish One coat of grey epoxy primer by spray</p> <p>Locking arrangement Optional [applicable only for Galvanised steel Bottom profile]</p> <p>Hood & Motor Cover Pressed galvalume steel hood box complete with reinforced bracket as required to suit the shutter width with natural finish, Motor of PRC, European make Size 2200X3000mm</p>	Sqm	14	14,337.52	2,00,725.28
33	<p>Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters, painting, 80x1.20 mm M.S. laths with 1.20 mm thick top cover etc. as directed by Engg-in-Charge.</p>	Sqm.	29	3,116.00	90,364.00
34	<p>Providing and fixing ball bearing for rolling shutters. etc. as directed by Engg-in-Charge.</p>	each	4	460.84	1,843.36
35	<p>Extra for providing grided rolling shutters manufactured out of 8 mm dia M.S. bar instead of laths as per design approved by Engineer-in-charge, (area of grill to be measured). etc. as directed by Engg-in-Charge.</p>	Sqm	5	726.72	3,633.60
36	<p>Providing and fixing M.S. grills of required pattern in frames of windows at all height etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer, two coats of synthetic enamel paint of approved brand etc. complete as per approved drawing & etc. as directed by Engg-in-Charge.</p>	Kg	1,055	202.84	2,13,996.20
37	<p>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 50X50X6mm MS Channel ,strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.</p>	Sqm	39	1,055.83	41,177.37

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TOTAL OF SECTION B					1,44,74,468.52
C	ALUMINIUM WINDOWS				
38	Providing and fixing aluminium work for fixed portion for doors, windows, ventilators and partitions at all height with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket 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 etc. as directed by Engg-in-Charge. Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) (For fixed portion)	Kg	2,260	471.43	10,65,431.80
39	For shutters of sliding/open able/top hung/fixed windows and ventilators at all height including providing and fixing hinges / pivots and making provision of locking arrangement and for fixing of fittings wherever required including the cost of PVC / neoprene gasket required. Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket 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 etc. as directed by Engg-in-Charge.	Kg	1,828	577.73	10,56,090.44
40	Providing and fixing glass in aluminium door, window, ventilator shutters and partitions at all height etc. with EPDM rubber / neoprene gasket all complete with : 5.5 mm thick glass panes etc. as directed by Engg-in-Charge.	Sqm.	466	1,350.88	6,29,510.08
41	Glazing System: Carrying out detailed engineering for the Semi Unitized structural glazing system with double glazed units at all heights based on Architects schematic drawings including load design analysis, preparation of detailed shop drawings, and fabricating, supplying, delivering at site, assembling, installing/fixing in position including framework for structural glazing with sections of extruded Aluminum including thresholds, smoke seals, cills, trims, beads, flashings, copings and such other accessory members as required, mild steel brackets (painted with PU coating or hot dipped galvanizing) and fixings with stainless steel bolts and nuts, EPDM gaskets, silicon sealant and weather trims as required, cutting, drilling and all operations required for the work to complete. All aluminum members shall be finished with 35 micron thick PVDF coated including installing in position glazed panels in above framework consisting of glass as described below, cut to exact required sizes and fixed in position with silicon sealant as required to complete the installation and work includes detailing and sealing the expansion joint to take care of wind load and seismic load. etc. as directed by Engg-in-Charge. Glass panels : Semi-Unitised Str. Glazing Systems-Vision Glass - 24mm D.G.U. Consisting of 6mm KT 455 HS Glass + 12mm AG + 6mm Clear HS Glass Panel size shall be as per drawing. (Including all aluminium extruded sections)	Sqm	2,526	10,244.20	2,58,76,849.20
42	Glazing System: Carrying out detailed engineering for the Semi Unitized structural glazing with single glass system at all heights based on analysis, preparation of detailed shop drawings, and fabricating, supplying, delivering at site, assembling, installing/ fixing in position framework for structural glazing with sections of extruded Aluminum including thresholds, smoke seals, cills, trims, beads, flashings, copings and such other accessory members as required, mild steel brackets (painted with PU coating or hot dipped galvanizing) and fixings with stainless steel bolts and nuts, EPDM gaskets, silicon sealant and weather trims as required, cutting, drilling and all operations required for the work to complete. All aluminum members shall be finished with 35 micron thick PVDF coating including installing in position glazed panels in above framework consisting of glass as described below, cut to exact required sizes and fixed in position with silicon sealant as required to complete the installation and work includes detailing and sealing the expansion joint to take care of wind load and seismic load. etc. as directed by Engg-in-Charge. Glass panels : Providing & fixing 12 mm thick toughened clear glass of 6mm plus 6mm with PVB (Polyvinyl butyral) inter layer sheet of 0.76mm thickness. Panel sizes shall be as per drawing.	Sqm	5	7,448.55	37,242.75
43	Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings, the aluminium quality as per grade 6063 T5 or T6 as per BS 1474, including super durable Anodising 15 micron of required colour and shade as approved by the Engineer-in-Charge. (The item includes cost of material such as cleats, sleeves, screws etc. as directed by Engg-in-Charge.	Kg	3,732	377.46	14,08,680.72
44	Providing and fixing Mosquito net with stainless steel jali of 304 grade to anodised aluminium frames / shutters with necessary fixtures, fittings etc. as directed by Engg-in-Charge.	Sqm.	5	621.69	3,108.45
TOTAL OF SECTION C					3,00,76,913.44
D	FLOORING, SKIRTING AND DADO				

Sr. No.	Description	Unit	Total Qty	Rate (Rs.)	Total Amount (RS)
45	Providing and laying 52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, crack filling but excluding the cost of nosing of steps etc. as directed by Engg-in-Charge.	Sqm.	727	929.81	6,75,971.87
46	Providing & laying Mirror polish Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : etc. as directed by Engg-in-Charge. 25 mm thick	Sqm.	916	1,853.98	16,98,245.68
47	Providing & laying Mirror polish Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing etc. as directed by Engg-in-Charge.	Sqm.	111	2,215.68	2,45,940.48
48	Providing and laying vitrified floor tiles at all heights 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 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments, groove, Covered with plastic sheet & POP layer etc. as directed by Engg-in-Charge. Size of Tile 600x600 mm (Basic rate of Vitrified tile of Rs. 1200/- Sq.mt.)	Sqm.	4,876	2,220.75	1,08,28,377.00
49	Providing and laying vitrified floor tiles at all heights 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 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments, groove, Covered with plastic sheet & POP layer etc. as directed by Engg-in-Charge. Size of Tile 1000x1000 mm (Basic rate of Vitrified tile of Rs. 1500/- Sq.mt.)	Sqm.	648	2,595.60	16,81,948.80
50	Providing and laying Vitrified tiles at all heights in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/sqm including grouting the joint with white cement & matching pigments, groove etc. as directed by Engg-in-Charge. Size of Tile 600x600 mm (Basic rate of Vitrified tile of Rs. 1200/- Sq.mt.)	Sqm.	1,310	2,260.65	29,61,451.50
51	Providing and laying Anti-skid vitrified floor tiles,cladding,skirting at all heights 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 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), cladding fixed with approved adhesive, including grouting the joints with white cement and matching pigments, Covered with plastic sheet & POP layer etc. as directed by Engg-in-Charge. (Basic Rate of Vitrified tile of Rs. 1200/-Sq.mt.) Size of Tile 600x600 mm	Sqm.	5	2,220.75	11,103.75
52	Providing and laying Anti-skid vitrified floor tiles,cladding,skirting at all heights 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 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), cladding fixed with approved adhesive, including grouting the joints with white cement and matching pigments, Covered with plastic sheet & POP layer etc. as directed by Engg-in-Charge. (Basic Rate of Vitrified tile of Rs. 1200/-Sq.mt.) Size of Tile 300x300 mm	Sqm.	884	2,248.25	19,87,453.00
53	Providing and fixing Composite Marble/ Agglomerate for floor, cill, jambs, skirting toilet partition set in 20mm thick cement mortar 1:4 bedding/back coat plaster ,white cement paste floating, joints finished neatly with matching coloured cement, curing, hand polishing, cleaning, groove, nosing, Covered with plastic sheet & POP layer etc. as directed by Engg-in-Charge. (Basic cost of composite marble/ Agglomerate Rs. 2500/- per sq.mt.)	Sqm.	10	5,278.50	52,785.00
54	Providing and Fixing River washed Granite of 18mm thick gang saw cut mirror polished premoulded and prepolished machine cut for kitchen platforms, vanity counters, window sills, facias, staircase tread & risers and similar location of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigments, epoxy touch ups, including rubbing, curing, moulding and polished to edge to give high gloss finish, groove, Covered with plastic sheet & POP layer etc. as directed by Engg-in-Charge. -Granite of any colour and shade (Basic rate of Granite of Rs. 2000/- Sq.mt.)	Sqm.	273	5,200.30	14,19,681.90
55	Providing and fixing Stepping Stone for treads Full body vitrified double (full) bull nosed with tread lines (self embossed Tread lines) for tread part of Johnson Endura Stepping Stone series or approved equivalent make, upto 1200 mm length in single piece in length and upto 300mm widex15mm thick laid over upto 35mm thick cement mortar of CM 1:4 bedding etc. complete ,finish surface shall cover with 2-3mm thick POP protection over polythene covering sheet to flooring area and POP coating shall be removed and disposed of prior to handing over and cleaning all as per specifications and etc. as directed by Engg-in-Charge.	Sqm.	742	2,130.95	15,81,164.90

Sr. No.	Description	Unit	Total Qty	Rate (Rs.)	Total Amount (RS)
56	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including groove, nosing, rubbing, curing and polishing, Covered with plastic sheet & POP layer etc. as directed by Engg-in-Charge. Polished Granite stone slab jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent. (Basic rate of Granite of Rs. 2000/- Sq.mt.)	Sqm.	565	4,246.35	23,99,187.75
57	Providing and fixing Heat Resistant Terrace Tiles (300 mm x 300 mm x 20 mm) with SRI (solar refractive index) > 78, solar reflection > 0.70 and initial emittance > 0.75 on waterproof and sloped surface of terrace, laid on 20 mm thick cement sand mortar in the ratio of 1:4 (1 cement : 4 coarse sand) and grouting the joints with mix of white cement & marble powder in ratio of 1:1, including rubbing and polishing of the surface upto 3 cuts complete, including providing skirting upto 150 mm height along the parapet walls in the same manner. etc. as directed by Engg-in-Charge.	Sqm.	25	1,569.68	39,242.00
58	Providing and erecting 600mm deep Pantry counter in shape and design as directed. With approved 20mm thk granite top of approved shade, including 18MM cement mortar and LOCAL marble base, with LOCAL marble verticals and shelves as indicated, making cut-outs for sink, plumbing fixtures, gas cylinder pipes, etc, cost to include for all granite vertical patties, facias, splash - back patties, granite skirting etc. Polishing including edge polishing, washing, cleaning, and including necessary cement mortar backing complete details as directed. running length of counters to be measured along their centre lines and paid for. (Basic cost of granite Rs. 2000/- Sq.mt.)	Rmt	8	12,512.00	1,00,096.00
59	Providing & laying wash basin counter of 500-550 mm depth (clear) and at 700mm to 800 mm ht (top) above fl. Of approved 20mm thk granite slab laid on 20mm thk white marble support with required cement mortar base & 100-150 mm thk chamfered and machine polished edge facia. it shall be supported on side walls & with white marble vertical supports as shown in the drawing, making cut-outs for sink, plumbing fixtures, pipes, etc. as directed by Engg-in-Charge. (Basic granite rate=Rs 2000 per sqm)	Rmt	43	8,211.00	3,53,073.00
60	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 chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) etc. as directed by Engg-in-Charge. and finished smooth. Granite Stone of approved shade etc. as directed by Engg-in-Charge.	Sqm.	19	3,848.80	73,127.20
61	Providing & laying Fibre mesh reinforced concrete M30 using RMC including pumping for Vacuum dewatered concrete flooring on grade, ramps, workshops, parking, including compaction using double beam surface vibrator and also initial poker vibration for thickness exceeding 150 mm, shuttering for sides using MS channels, power floating after vacuum dewatering using skim floater, to give an anti-skid finish, All equipment shall be of TREMIX make or approved equivalent. The rate shall be inclusive of all taxes towards plants & machinery, dosage of Fibre mesh reinforcement as per manufacturer's specifications labour, all leads & lifts, all floors, all charges required, including transportation etc complete, Reinforcement shall be paid separately. Cutting grooves 6 mm wide x 20 mm deep within 24 to 48 hours of casting panels, forming 20x20mm groove at all construction joints using appropriate strip such as thermocole, & filling of the groove with non shrink cement grout of approved etc. complete.	Cum	353	11,260.80	39,75,062.40
62	Providing and fixing 15mm thick rubberised flooring of Nora, Sandick make, fixed on concrete with approved adhesive, as per manufacturer specifications etc. complete as per design or as directed. --Basic rate of rubberised flooring Rs. 2100 /SQ.MT"	Sqm.	727	4,340.10	31,55,252.70
TOTAL OF SECTION D					3,32,39,164.93
E	FINISHING WORKS				
	PLASTERING WORKS				
63	Providing and applying 25 mm thick external Plaster in Ready mix cement plaster (Readiplast/Soundplast PMC-1) of approved make with first layer of 15 mm thickness with approved waterproofing compound and second layer of 10 mm thickness, including curing, scaffolding etc., complete ready to receive wall finish. The rates shall also include moulding and grooves wherever specified, scaffolding, curing etc complete as per drawings & specification and as directed by Engineer-in-charge. Cement Mortar 1:4 (1 cement : 4 coarse sand) (Height - Upto 10mt Providing & applying External plaster including scaffolding, chicken mesh made out of PVC with opening of 25X25mm over junction of RCC/Brick/Blockwork or any other similar materials, nailing the chicken mesh with wire nails @ 200-250mm C/C, preparing the surfaces, sand face finishing with rendering with sponge to correct line or as required to receive architectural finish, level and plumb, curing complete as per specifications and drawings and etc. as directed by Engg-in-Charge.	Sqm.	1,410	656.25	9,25,312.50

Sr. No.	Description	Unit	Total Qty	Rate (Rs.)	Total Amount (RS)
64	Providing and applying 25 mm thick external Plaster in Ready mix cement plaster (Readiplast/Soundplast PMC-1) of approved make with first layer of 15 mm thickness with approved waterproofing compound and second layer of 10 mm thickness, including curing, scaffolding etc., complete ready to receive wall finish. The rates shall also include moulding and grooves wherever specified, scaffolding, curing etc complete as per drawings & specification and as directed by Engineer-in-charge. Cement Mortar 1:4 (1 cement : 4 coarse sand) (Height - above 10mt upto 20mt Providing & applying External plaster including scaffolding, chicken mesh made out of PVC with opening of 25X25mm over junction of RCC/Brick/Blockwork or any other similar materials , nailing the chicken mesh with wire nails @ 200-250mm C/C, preparing the surfaces, sand face finishing with rendering with sponge to correct line or as required to receive architectural finish , level and plumb, curing complete as per specifications and drawings and etc. as directed by Engg-in-Charge.	Sqm.	1,410	927.15	13,07,281.50
65	Providing and applying 25 mm thick external Plaster in Ready mix cement plaster (Readiplast/Soundplast PMC-1) of approved make with first layer of 15 mm thickness with approved waterproofing compound and second layer of 10 mm thickness, including curing, scaffolding etc., complete ready to receive wall finish. The rates shall also include moulding and grooves wherever specified, scaffolding, curing etc complete as per drawings & specification and as directed by Engineer-in-charge. Cement Mortar 1:4 (1 cement : 4 coarse sand) (Height - above 20mt upto 30mt Providing & applying External plaster including scaffolding, chicken mesh made out of PVC with opening of 25X25mm over junction of RCC/Brick/Blockwork or any other similar materials , nailing the chicken mesh with wire nails @ 200-250mm C/C, preparing the surfaces, sand face finishing with rendering with sponge to correct line or as required to receive architectural finish , level and plumb, curing complete as per specifications and drawings and etc. as directed by Engg-in-Charge.	Sqm.	1,410	1,288.35	18,16,573.50
66	Providing and applying 25 mm thick external Plaster in Ready mix cement plaster (Readiplast/Soundplast PMC-1) of approved make with first layer of 15 mm thickness with approved waterproofing compound and second layer of 10 mm thickness, including curing, scaffolding etc., complete ready to receive wall finish. The rates shall also include moulding and grooves wherever specified, scaffolding, curing etc complete as per drawings & specification and as directed by Engineer-in-charge. Cement Mortar 1:4 (1 cement : 4 coarse sand) (Height - above 30mt upto 40mt Providing & applying External plaster including scaffolding, chicken mesh made out of PVC with opening of 25X25mm over junction of RCC/Brick/Blockwork or any other similar materials , nailing the chicken mesh with wire nails @ 200-250mm C/C, preparing the surfaces, sand face finishing with rendering with sponge to correct line or as required to receive architectural finish , level and plumb, curing complete as per specifications and drawings and etc. as directed by Engg-in-Charge.	Sqm.	1,410	1,559.25	21,98,542.50
67	Providing and applying 25 mm thick external Plaster in Ready mix cement plaster (Readiplast/Soundplast PMC-1) of approved make with first layer of 15 mm thickness with approved waterproofing compound and second layer of 10 mm thickness, including curing, scaffolding etc., complete ready to receive wall finish. The rates shall also include moulding and grooves wherever specified, scaffolding, curing etc complete as per drawings & specification and as directed by Engineer-in-charge. Cement Mortar 1:4 (1 cement : 4 coarse sand) (Height - above 40mt upto 46mt Providing & applying External plaster including scaffolding, chicken mesh made out of PVC with opening of 25X25mm over junction of RCC/Brick/Blockwork or any other similar materials , nailing the chicken mesh with wire nails @ 200-250mm C/C, preparing the surfaces, sand face finishing with rendering with sponge to correct line or as required to receive architectural finish , level and plumb, curing complete as per specifications and drawings and etc. as directed by Engg-in-Charge.	Sqm.	25	1,739.85	43,496.25
68	Providing & applying external cement plaster as specified below at all heights and locations, preparing the surfaces, neat cement sponge finishing to correct line or as required to receive architectural finish , level and plumb, curing where ever required complete as per specifications and drawings. including chicken mesh made out of PVC with opening of 25X25mm over junction of RCC/Brick/Blockwork or any other similar materials , nailing the chicken mesh with wire nails @ 200-250mm C/C, 18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand). etc. as directed by Engg-in-Charge.	Sqm.	2,279	490.72	11,18,350.88
69	Providing and applying Ready mix internal cement plaster Cement Mortar 1:4 (1 cement : 4 coarse sand) on masonry / concrete, one coat of plaster up to 12 mm thick to walls (Readiplast/Soundplast PMC-1) or approved make including curing, scaffolding , chicken mesh made out of PVC with opening of 25X25mm over junction of RCC/Brick/Blockwork or any other similar materials , nailing the chicken mesh with wire nails @ 200-250mm C/C, etc., complete ready to receive wall finish. The rates shall also include moulding and grooves wherever specified complete as per drawings & specification and etc. as directed by Engg-in-Charge.	Sqm.	15,257	388.50	59,27,344.50

Sr. No.	Description	Unit	Total Qty	Rate (Rs.)	Total Amount (RS)
70	Providing and applying 12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand) in line, level and plumb with river sand including rough marking to take in POP punning or any cladding, prewetting of walls, curing, Scaffolding, chicken mesh made out of PVC with opening of 25X25mm over junction of RCC/Brick/Blockwork or any other similar materials , nailing the chicken mesh with wire nails @ 200-250mm C/C, etc. as directed by Engg-in-Charge.	Sqm.	962	320.32	3,08,147.84
71	Providing and applying Ready mix internal cement plaster Cement Mortar 1:4 (1 cement : 4 coarse sand) Ceiling, one coat of plaster up to 6 mm thick to ceiling (Readiplast/Soundplast PMC-1) or approved make including curing, scaffolding etc., complete. as per drawings & specification and etc. as directed by Engg-in-Charge.	Sqm.	11,438	316.05	36,14,979.90
72	Providing and applying 6 mm cement plaster for ceiling at all heights of mix : 1:3 (1 cement : 3 fine sand) faced finished for R.C.C slabs & beams complete in all respects including scaffolding, curing and etc. as directed by Engg-in-Charge. 1:3 (1 cement : 3 fine sand)	Sqm.	420	274.91	1,15,462.20
73	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth including scaffolding etc. as directed by Engg-in-Charge.	Sqm.	26,695	232.81	62,14,862.95
74	Providing & applying Finishing walls with water proofing cement paint of required shade :New work (Two or more coats applied @ 3.84 kg/10 sqm), Scaffolding etc. as directed by Engg-in-Charge.	Sqm.	3,029	156.74	4,74,765.46
75	Providing & applying Acrylic plastic paint having VOC (Volatile Organic Compound) content less than 50 grams/ liter, of approved brand and manufacture and approved shade finished with roller to ceilings surfaces, in 2 coats over a coat of approved quality primer on the plastered / POP surface, POP board / gypsum board surfaces including scaffolding, preparation of surface, sanding, light sanding, work platform, painting equipment / apparatus, lambi, putti, primer etc. required to complete interior grade finish etc. at all heights & levels complete as per drawings & specification and etc. as directed by Engg-in-Charge.	Sqm.	11,858	355.81	42,19,194.98
76	Providing and Applying 2 coats of luster paint of approved make on wall and partitions at all height as per design and approved shade by the Architect. Cost to include preparing the surface, applying lambi, primer, putty, etc. complete. All jambs, trims, edges, grooves to be included in rate etc. as directed by Engg-in-Charge.	Sqm.	16,352	334.31	54,66,637.12
77	Providing and Applying with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm, scaffolding etc. as directed by Engg-in-Charge.	Sqm.	5,932	316.86	18,79,613.52
78	Providing and Applying walls with Acrylic Smooth exterior paint of required shade :New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm), Scaffolding etc. as directed by Engg-in-Charge.	Sqm.	8,323	231.97	19,30,686.31
79	Providing and Applying with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, Scaffolding etc. as directed by Engg-in-Charge. On steel work	Sqm.	10	269.82	2,698.20
80	Providing and Applying with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, Scaffolding etc. as directed by Engg-in-Charge. On concrete work	Sqm.	10	266.24	2,662.40
81	Providing and Applying White wash (three or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, Scaffolding etc. as directed by Engg-in-Charge.	Sqm.	10	85.96	859.60
TOTAL OF SECTION E					3,75,67,472.11
F	CARPENTRY & STAINLESS STEEL WORKS				
82	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, S.S wires, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts/anchor fastener of HILTI make etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	kg	7,613	665.13	50,63,634.69
83	Providing wood work in frames of doors, windows, clerestory windows and other frames for handrail top, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length etc. as directed by Engg-in-Charge. Second class teak wood	Cum	2	1,42,939.31	2,85,878.62
84	Providing and fixing Teakwood frames 25mm x 40mm with Shutters to pantry counter/ wash basin counters /counter for Cupboards made out of 18mm Marine Plywood finished with 1.0mm approved laminate on all exposed faces and all inner surfaces to be finished with 1.0 mm thick laminate, including all hardware (concealed hinges, magnetic stopper, concealed handles for shutter opening) shall be as per drawings etc. as directed by Engg-in-Charge.	Sqm.	37	7,761.35	2,87,169.95
85	Providing and fixing mirror panelling with 25X40x1.5mm aluminium box section @ 600X600mm C/C @ horizontal & vertically, 9mm thick marine plywood fixed on aluminium framework, & 6mm thick mirror of approved make, including all hardware etc. as directed by Engg-in-Charge.	Sqm.	20	7,233.50	1,44,670.00
TOTAL OF SECTION F					57,81,353.26
G	FALSE CEILING WORK / MISCELLANEOUS WORKS				

Sr. No.	Description	Unit	Total Qty	Rate (Rs.)	Total Amount (RS)
86	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dashfastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of	Sqm.	4,162	1,244.92	51,81,357.04
87	Providing and fixing mineral fibre false ceiling tiles at all heights of size 595X595mm of approved texture, design and pattern. The tiles should have Humidity Resistance (RH) of 99%, Light Reflectance > 85%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Fire Performance as per (BS 476 pt - 6 & 7) in true horizontal level suspended on interlocking T-Grid of hot dipped all round galvanized iron section of 0.33 mm thick (galvanized @120 gsm) comprising of main T runners of 15x32 mm of length 3000 mm, cross T of size 15x32mm of length 1200 mm and secondary intermediate cross T of size 15x32 mm of length 600 mm to form grid module of size 600x600 mm suspended from ceiling using galvanized mild steel item (galvanized @80gsm) 50 mm long 8mm outer diameter M-6 dash fasteners, 6 mm diameter fully threaded hanger rod up to 1000 mm length and L-shape level adjuster of size 85x25x2 mm, spaced at 1200 mm centre to centre along main 'T'. The system should rest on periphery walls /partitions with the help of GI perimeter wall angle of size 24x24x3000 mm made of 0.40 mm thick sheet, to be fixed to the wall with help of plastic rawl plug at 450 mm centre to centre & 40 mm long dry wall S.S. screws. The exposed bottom portion of all T-sections used in false ceiling support system shall be pre-painted with polyester baked paint, for all heights. The work shall be carried out as per specifications, drawings and as per directions of the engineer-in-charge. With 16 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.55 to 0.6	Sqm.	240	2,248.65	5,39,676.00
88	Providing and fixing Dry cladding of size as per drawing with 3mm thick Techlam / H.R Johnson or approved equivalent porcelain sheet as approved by Project Architect with matt & slip resistant finish, framework with aluminium channel of 40X50X2 to 3mm thick @ 500mm C/C with anodising angle of size 5X25X2mm thick fixed with anchor fastener, & SS self tapping screws. tile should be clean & structural silicon is applied & gaps between the tiles should be sealed with weather silicon etc. as directed by Engg-in-Charge.	Sqm.	5	9,305.80	46,529.00
89	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube chollies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding. Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done.	Sqm.	590	309.62	1,82,675.80
90	Providing and fixing double scaffolding system (cup lock type) on the exterior side, Seven floor up to 14th floor story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube chollies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding. Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done.	Sqm.	317	529.06	1,67,712.02
91	Providing and Fixing trap Doors for accessing the services and utilities in marine plywood 18mm thick, with necessary sized salwood framework, suspended from true ceiling bolted by anchor fasteners. Doors to be finished with laminate internally & paint on external sides, edged with PVC transparent seal to prevent smells being sucked into the trap door space. Small sized trap doors to be locked with Ellen Key locks with safety chain stays. Larger sized Doors to be divided into removable panels with notched removable framework etc. as directed by Engg-in-Charge.	Sqm.	5	6,529.70	32,648.50
TOTAL OF SECTION G					61,50,598.36
H	WATERPROOFING WORKS				

Sr. No.	Description	Unit	Total Qty	Rate (Rs.)	Total Amount (RS)
92	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry etc. as directed by Engg-in-Charge.	Sqm.	607	561.22	3,40,660.54
93	Providing & laying water proofing treatment to the toilet flooring by giving injections with cement solution with waterproofing compound into the floor slab so as to make it consistent, homogenous and impervious against leakage, seepage etc. The sunk portion shall then be covered with necessary brick bat waterproof coba in C.M.(1:5) of 100mm average thickness in required slope mixed with approved waterproofing compound as per manufacturer's specifications finished rough with joint less waterproof cement plaster in C.M.(1:3) 12mm to 15mm thk in all positions extending the water proofing upto 300 mm height, curing, leakage test after impounding the water for 7 days, etc. complete with 5 years guarantee etc.(Measurement in plan area) etc. as directed by Engg-in-Charge.	Sqm.	607	2,326.45	14,12,155.15
94	Providing & laying water proofing treatment to the toilet flooring by giving injections with cement solution with waterproofing compound into the floor slab so as to make it consistent, homogenous and impervious against leakage, seepage etc. The sunk portion shall then be covered with necessary brick bat waterproof coba in C.M.(1:5) of 100mm average thickness in required slope mixed with approved waterproofing compound as per manufacturer's specifications finished rough with joint less waterproof cement plaster in C.M.(1:3) 12mm to 15mm thk in all positions extending the water proofing upto 300 mm height, curing, leakage test after Extra for providing additional thickness of brick bats over average thickness of 100mm in 1:5 cement mortar mixed with waterproofing compound of approved make as per manufacturers specification as directed.	Cum.	122	7,585.40	9,25,418.80
WATERPROOFING ON TERRACE :					
95	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin-charge. (d) Finishing the surface with 20 mm thick joint less cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineering-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as per approved manufacturer specification & as directed and specified by the Engineer-in-Charge :				
i)	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	Sqm.	2,742	1,654.47	45,36,556.74
96	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm , mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement , all complete as per direction of Engineer-in-charge.	Sqm.	2,814	885.87	24,92,838.18

Sr. No.	Description	Unit	Total Qty	Rate (Rs.)	Total Amount (RS)
97	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI- 212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage. For vertical surface two coats @ 0.70 kg per sqm	Sqm.	331	441.34	1,46,083.54
98	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI- 212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage. For horizontal surface one coat @1.10 kg per sqm.	Sqm.	623	338.41	2,10,829.43
99	Providing and laying damp-proof course 40mm thick with cement concrete 12.5mm nominal size)1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate with water proofing compound etc. as directed by Engg-in-Charge.	Sqm.	320	402.88	1,28,921.60
100	Providing and filling styrofoam of density 24kg/m3 including of Fixing, Cutting, Sticking of EPS Thermocole (Geofoam), Specification : ASTM D6817 - EPS 22, Water absorption : max. 3.0% of volume by total immersion etc. complete as per manufacturer specifications.	Cum	345	5,400.00	18,63,000.00
TOTAL OF SECTION H					1,20,56,463.98
J	ROAD WORK				
101	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	Sqm.	2,790	1,033.13	28,82,432.70
TOTAL OF SECTION J					28,82,432.70
K	HORTICULTURE				
102	Providing and planting lawn as specified including excavation of the ground upto 30 cms deep , removing and conveying unwanted stuff to a distance of 50mts radius as directed and providing & filling the ground with fresh garden soil manure at 3:1 proportion to a required height of 30cms and mixing garden soil manure thoroughly well, leveling, as directed, watering previous night, planting required variety of lawn grass as directed ,per specification and maintaining till well established by watering, weeding, stirring of soil replacing of casualty's etc. complete including the cost of manure and mixing with good quality of earth and manure as directed. etc. as directed by Engg-in-Charge.	Sqm.	1,250	1,446.70	18,08,375.00
103	Providing and planting well routed shrubs including excavation of pit 60cms x 60cms x 60 cms, removing and conveying unwanted stuff to a distance of 50mts radiues as directed and filling the pit with approved excavated material upto 30cms and remaining height of 30cms with fresh garden soil and manure thoroughly well, levelling, as directed, watering previous night, planting shrubs as specified in the drawings and sapling as per specification and maintaining till well established by watering, weeding, stirring of soil replacing of casualty's etc. complete including the cost of manure and mixing with good quality of earth and manure in 3:1as directed and staking with flat bamboo of 1 1/2" - 2" thickness and 1.3mtrs height bamboo. Type of shrubs includes Dombeya Wallichii, Calliandra Haemotocephata, Pellionia pulchra, Hamelia patens, Hibiscus pink tips ,ixora chinensis Furcraea glgantia 'Medico-Picta', Allamanda Scnotti, Golden duranta, Lantana camera red, Duranta plumeril, Russelia juncea, Nerium Olender,Areca lutenscenes, Mussaenda philiphica Galphimia Glauca or equivalent price range shrubs. etc. as directed by Engg-in-Charge.	Sqm.	300	1,591.37	4,77,411.00

Sr. No.	Description	Unit	Total Qty	Rate (Rs.)	Total Amount (RS)
104	TREES:- Excavation of pit 90cms x 90cms x 90 cms, removing and conveying unwanted stuff to a distance of 50mts radiues as directed and filling the pit with approved excavated material upto 30cms and remaining height of 60cms with fresh garden soil and manure thoroughly well, levelling, as directed, watering previous night, providing and planting 1.5mts heigh healthy trees sapling as per specification and maintaining till well established by watering, weeding, stirring of soil replacing of casualty's etc. complete including the cost of manure and mixing with good quality of earth and manure in 3:1as directed. and staking with 2.0mtrslong and 11/2" - 2" dia bamboo. Type of plants includes Peltophonom Ferrugineum, Acocia Aurculiformis, Cordia Sebestena,Spathodea Campanulata, Brassia Actinophylla, Michelia Campaca, Pisonia Alba,Plumeria Alba, Alstonia Scholaris, Ravenala Madagas Cariensrs, Ficus benjamina,bauhinia blakeana, ficus panda, plumeria rubra, Callophyllum inophyllum, Spathodia Campanulata, Arjun, Neem, Barringtonia speciosa, Gravelia Robusta, Filicium Decipiens, plumeria alba or equivalent price range plants. etc. as directed by Engg-in-Charge.	Nos.	255	2,756.55	7,02,920.25
105	GROUND COVERS :-Providing and planting ground covers as specified including excavation of the ground upto 30 cms deep, removing and conveying unwanted stuff to a distance of 50mts radius as directed and providing & filling the ground with fresh garden soil manure at 2:1 proportion to a required height of 30cms and mixing garden soil manure thoroughly well, leveling, as directed, watering previous night, planting ground covers as specified in the drawings and sapling as per specification and maintaining till well established by watering, weeding, stirring of soil replacing of casualty's etc. complete including the cost of manure and mixing with good quality of earth and manure as directed. etc. as directed by Engg-in-Charge.	Sqm.	100	1,004.87	1,00,487.00
TOTAL OF SECTION K					30,89,193.25
L	GENERAL ITEMS				
106	Covering the scaffolding with Bardan (Agro Knitted Fabric) by sewing, knotting as required at any height of the building /structure while carying out external work of the building/structure etc. as directed by Engg-in-Charge.	Sqm.	5,640	174.00	9,81,360.00
107	Providing & fixing the Safety Net with 12mm Border rope, 4mm knotted, 1mm fishnet size -15mm X 15mm mesh to prevent the debris falling on ground /walkway including framework etc. as per the direction of Engineer in charge.	Sqm.	1,382	703.80	9,72,651.60
108	Providing. Erection & fabrication of tensile fabrication roof designed to withstand wind speed of 64meters per second with PVDF coated polyster of ferrari make suitable for structure Ferrari or equivalent. Weight -750 g/m2, Width- 267cm-105 inch, Tensile Strength (warp/weft) - 280/280daN/5CM, Tear resistance (warp/weft) - 30/28daN, Adhesion- 10/10 daN/5CM, Surface Treatment - Formula S: Weld able fluorinated varnish , Light Transmission- 13.5% All cables & fittings confirming to I.S. Standards, shape , form & shop drawing will be submitted by vendor for Architects approval. Including MS framework finished with sand blasting, primer coat & 2 coat of Epoxy etc. complete as per manufacturer specifications. (Plan area will be measured)	Sqm.	865	4,672.35	40,41,582.75
109	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. Beyond 30 cm girth upto and including 60 cm girth	Each	1	477.19	477.19
110	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. Beyond 60 cm girth upto and including 120 cm girth	Each	1	2,126.16	2,126.16
111	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. Beyond 120 cm girth upto and including 240 cm girth	Each	3	9,868.51	29,605.53
112	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. Above 240 cm girth	Each	1	19,770.26	19,770.26
113	Demolition of Existing Structure - Demolition of Existing Ground floor structure Total floor area size approx. 15 x 11m, including removal of electrical wiring & all fittings; underground facilities rerouting / removal based on MDL instructions . The work includes carting away unserviceable debris to approved Municipal allotted area outside MDL Premises.	Sqm.	165	2,834.75	4,67,733.75
114	DELETED				
115	Supplying and fixing Automatic sliding gate of size 9000mm X 2300mm ht., MS tubular section 100 x 100 x 3.2mm thick, Internal Members - MS tubular section 40 x 40 x 2mm With Gap Center To Center 150mm, Full Height Column - MS tubular section 100 x 100 x 3.2mm thick, Bottom rail - Single Track - Polished Bright bar 20 mm dia rail welded over Bottom I-Beam ISMB 100 x 50, Bottom Rollers - Single Track - Heavy Duty bottom rollers with dual bearing mechanism for free sliding movement fixed at the bottom member of gate frame, Drive - (1) Imported Make Electric motor , (2) Power Supply Single/Three Phase 50/60 Hz, (3) Inbuilt magnetic Limit switch ,(4) Inbuilt control panel,(5) Protection class IP 54,(6) CE Certified, Emergency Operation - Rotating release device easy to operate & key protected (Standard), Push Button - from Inside on Full Height Column (Optional: placement of push button as per client requirement), Finished with enamel paint, etc. complete as per manufacturer specifications.	Sqm	22	29,703.79	6,53,483.38
116	Supplying and fixing Manual MS Swing gate of Size 2400mm X 2700mm ht. Gate Frame - MS tubular section 100 x 100 x 3.2 thick, Internal Members - MS tubular section 40 x 40 x 2 mm thick with gap between center to center 150, Hinges - Heavy Duty Hinges, finished with enamel paint etc. complete as per design & manufacturer specifications.	Sqm	7	18,763.86	1,31,347.02
TOTAL OF SECTION L					73,00,137.64

Sr. No.	Description	Unit	Total Qty	Rate (Rs.)	Total Amount (RS)
M	SIGNAGE				
117	Providing and fixing of retro- reflectorised informatory sign board rectangular/Square in shape having area less than 0.9 square meter made out of ___mm aluminum sheet bonded with white retro reflective sheeting of Class __ (Type IV High intensity micro-prismatic grade sheeting-HIP) having pressure sensitive/heat activated adhesive retorelective specified back ground, border and back side retorelective symbols, letters, numerals, arrow as per IRC:67-2012 Table No 8.3, supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with two coats of grey stove enamel paint and supported on one no. mild steel angle iron post 75 mm x 75 mm x 6 mm, 3.5 mt long firmly fixed to the ground by means of properly designed foundation with M25 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing The angle iron post shall be duly painted with one coat of epoxy primer and two coats of epoxy finish paints having alternate black and white bands of 25 cm width including GI fixtures and transportation etc.complete.The nut bolts of board with angle iron post/supporting structure after fixing at site has to be electrically welded. Class B (Type IV High intensity micro-prismatic grade sheeting-HIP) sheeting shall have 7 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the contractor/supplier.	Sqm.	5	9,438.45	47,192.25
118	Providing and fixing of retro- reflectorised informatory sign board rectangular/Square in shape having area greater than 0.9 square meter made out of ___mm aluminum sheet bonded with white retro reflective sheeting of Class __ (Type IV High intensity micro-prismatic grade sheeting-HIP) having pressure sensitive/heat activated adhesive retorelective specified back ground, border and back side retorelective symbols, letters, numerals, arrow as per IRC:67-2012 Table No 8.3, supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with two coats of grey stove enamel paint and supported on two no. mild steel angle iron post 75 mm x 75 mm x 6 mm, 3.5 mt long firmly fixed to the ground by means of properly designed foundation with M25 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing The angle iron post shall be duly painted with one coat of epoxy primer and two coats of epoxy finish paints having alternate black and white bands of 25 cm width including GI fixtures and transportation etc.complete.The nut bolts of board with angle iron post/supporting structure after fixing at site has to be electrically welded. Class B (Type IV High intensity micro-prismatic grade sheeting-HIP) sheeting shall have 7 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the	Sqm.	36	11,963.70	4,30,693.20
119	Providing and fixing LOGO of size 9000MM X 9000MM The scope also includes Logo to be made up in 3MM Aluminium "C" Shape Hallow effect logo with approved PU exterior grade paint. . LED modules will be OSRAM or Equivalent with 5 years warranty M.S Structures for logo & letters installation 21900MM X 2900MM The scope also includes Logo to be made up in 3MM Aluminium "C" Shape Hallow effect logo with approved PU exterior grade paint. . LED modules will be OSRAM or Equivalent with 5 years warranty including M.S Structures for logo & letters installation etc. complete as per manufacturer specifications.	nos	1	27,03,268.43	27,03,268.43
TOTAL OF SECTION M					31,81,153.88
TOTAL OF SECTION - A TO M					17,13,13,091.21