

Validate Print Help **Item Wise BoQ**

Tender Inviting Authority: Infra Projects Department, Alcock Yard, MDL
 Name of Work: Modernisation of Mazdock House facade at North Yard, MDL, Mumbai
 Contract No: 180000031

Bidder Name :									
PRICE SCHEDULE									
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER	NUMBER	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Unit Rate in Figures To be entered by the Bidder	Service Tax including Swachh Bharat Cess and Kisan Vikas Cess	WCT under VAT	TOTAL AMOUNT Without Taxes	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
1	2	4	5	13	14	15	53	54	55
1	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor, etc., up to floor seven level, excluding the cost of centering, shuttering and finishing : --1:1½:3 (1 cement:1½ coarse sand:3 graded stone aggregate 20 mm nominal size)	20.00	m3				0.0000	0.00	INR Zero Only
2	Providing and laying damp-proof course 50 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	10.00	m2				0.0000	0.00	INR Zero Only
3	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.	160.00	m2				0.0000	0.00	INR Zero Only
4	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor seven level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	14.12	m3				0.0000	0.00	INR Zero Only
5	DESIGN MIX CONCRETE: -Providing & laying in position machine batched, machine mixed Design Mix M-25 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 above plinth level upto floor VI level	14.65	m3				0.0000	0.00	INR Zero Only
6	Extra for providing richer mixes at all floor levels. Note :- Excess/less cement over the specified cement content used is payable/recoverable separately. --Providing & laying M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @340 kg/cum)	14.65	m3				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
7	Providing & fixing Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. --Thermo- mechanically Treated bars	1401.11	kg				0.0000	0.00	INR Zero Only
8	Centering & shuttering including strutting, propping etc. and removal of form for --Lintel, beams,plinth beams, girder, bressumers and cantilevers	297.03	m2				0.0000	0.00	INR Zero Only
9	Providing & fixing 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	300.00	kg				0.0000	0.00	INR Zero Only
10	Providing and applying POLYMER MODIFIED MORTAR(PMM) in proportion of 1(Polymer) : 5(Cement) : 15 (Quartz sand) by weight with water cement ratio of 0.35 including application of bond coat of Krishna Conchem or equivalent using brush in ratio of 1 (Polymer) :1 (Cement) : 0.35 (water) by weight including cleaning of surface with air mixed with water under pressure, and subsequent layer upto 10mm after hardening curing; all complete.(Polymer manufactured by sunanda, pidilite, fosroc, acro- chem, build core or equivalent) all complete as approved & as directed by Engineer.	15000.00	kg				0.0000	0.00	INR Zero Only
11	Removing existing corrosion in m.s./ tor steel bars by means of suitable light tapping, wire brushing and applying suitable chemicals viz.'Rusticide', 'Rust converter' and leaving for 24 hours, wash the deposits with water on next day etc. complete as directed.	15.00	Litre				0.0000	0.00	INR Zero Only
12	Providing and applying two coats of Rust preventive coating of IPNET of Krishna Conchem or equivalent approved make after cleaning the existing surface from dust/ loose particles by applying air water under pressure etc complete as directed.	15.00	Litre				0.0000	0.00	INR Zero Only
13	Providing and laying micro-concrete of Polycrete-A or equivalent from approved manufacturer in line and level to match with existing layer, using bonding coat of Sunepoxy-358 (Resin : Hardner mixed in the ratio 1 : 0.5 by weight) or equivalent with existing surface, curing, excluding form work etc. complete as directed (Rate is inclusive of bonding polymer coat).	5000.00	Kg				0.0000	0.00	INR Zero Only
14	Providing and applying Bonding coat between concrete members like RCC slabs, columns, beams, Chajjas, pardis etc and cement mortar plaster using HACK AID PLAST of M/s. Sunanda Speciality Coatings Pvt. Ltd. or equivalent as per the instructions of manufacturer or Engineer Incharge; including cleaning the concrete surface thoroughly to remove dust, dirt, grime, deshuttering oils and rub down to a clean surface at all heights/ levels and locations and as directed by Engineer Incharge.	50.00	m2				0.0000	0.00	INR Zero Only
15	Providing & 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 VII level in all shapes and sizes in : --Cement mortar 1:4 (1 cement : 4 coarse sand)	60.00	m3				0.0000	0.00	INR Zero Only
16	Providing & 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 VII level. : --Cement mortar 1:3 (1 cement :3 coarse sand)	110.00	m2				0.0000	0.00	INR Zero Only
17	Providing and fixing 200mm thick Siporex concrete block masonry with 1:4 cement sand mortar including curing etc. complete as directed.	5.00	m3				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
18	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 locations 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. (Basic price of Rs. 2000/sq.mt. excluding tax): --Granite of any colour and shade --Area of slab upto 0.50 sqm	5.00	m2				0.0000	0.00	INR Zero Only
19	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 locations 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. (Basic price of Rs. 2000/sq.mt. excluding tax): --Granite of any colour and shade: --Area of slab over 0.50 sqm	380.00	m2				0.0000	0.00	INR Zero Only
20	Providing & fixing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately): --Second class teak wood	0.20	m3				0.0000	0.00	INR Zero Only
21	Providing & fixing Gypsum Board on partition and wall with GI screws at every 750mm c/c in vertical and horizontal directions to proper line, level including joints to be finished seamless with 48 mm wide self adhesive fibre tape. Etc. complete as directed.	50.00	m2				0.0000	0.00	INR Zero Only
22	Providing and fixing in position 38mm thick solid core water proof marine grade flush door shutters with marine ply as per IS : 710 (water proof quality) 40mm thick and T.W. lipping 38mmx12mm with T.W. beading (Architrave) 6mmx38mm to teakwood frames with approved door closer, door stopper, dead lock, SS finish handle including molding Aluminium grill wherever required finishes with Approved laminated sheet of 1.5mm thick on all sides as detailed drawing and as directed. (Type D01 & D02) (Basic Rate of Laminate of Rs. 490/- Sq.mt.)	6.00	m2				0.0000	0.00	INR Zero Only
23	Providing and fixing Fully Glazed Door Shutters with 12mm thick toughened glass fixed on patch fittings of approved make and as per design and details given by the architect/ including locking arrangement, handles-350mm long, accessories, floor spring make "Dorma" BTS 84/75/approved equivalent as per door weight complete as directed (Type D04)	3.00	m2				0.0000	0.00	INR Zero Only
24	Providing and fixing Automatic sliding Door of size 2000mm X 2400mm height,with self cleaning roller, TUV type tested as per DIN 18650, smooth running, power unit 230V AC, Intigrated main switch, ultra modern category 2 control as per DIN EN 954-1, self learning with error self detection, automatic adjustment of hold open time at frequenting & crossing speed, swinelling cover, max. leaf wt. 100kg per leaf, max. clear passage opening 2500mm, drive dimension 190X110mm moving leaf with 12mm thick toughened clear polished glass etc. complete as per manufacture specifications. as directed. (Type D03)	4.80	m2				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
25	Supply & fixing in position at all floors anodised of approved shade and colour finished aluminium work for windows, ventilators, louvers with extruded builtup standard sections of Jindal / Aluminax /Hindalco conforming IS: 733 & IS: 1285 fixing with dash fastners of required size, including filling up the gaps at junctions i.e. top, bottom & sides with required EPDM rubber / neoprene / polysulphide sealant etc. Alluminium section shall be smooth, rust free, straight and jointed mechanically wherever required, including cleat angle, alluminium snap beading for glazing / paneling, stainless steel screws all complete as per drawings & manufacturers specification and as directed by Engineer-in-charge.: --Providing and fixing glass panels in windows at all location and heights of following thickness etc. all complete as per drawings & specification and as directed by EIC (Mode of measurement --Dimension in length and width of exposed finished surface of glass panel shall be measured sq.m nearest to 0.01): --26 mm thick (nominal) double glass unit with two glasses sealed with primary sealant by using Butyl sealant and secondary sealant by using silicon sealant comprising of the two glass panes of saint Gobain or equivalent make of 6mm thick SKN 165 + 8mm clear HS and separated by a gap of 12 mm by a aluminium spacer are filled with Desicant which absorb moisture present in the air within the unit. The air between the glass is dry which enables lesser heat transfer into the building. Contractor shall exhibit	340.00	m2				0.0000	0.00	INR Zero Only
26	Providing and Fixing double glazed uPVC casement/sliding window / door, made of extruded profiles. Profiles of frames and sash will be mitered cut and fusion welded at all corners, including drilling of holes for fixing hardware and drainage of water etc., making arrangement for fixing of hardware, EPDM gasket, 1.2 ± 0.2 mm thick galvanised steel profile to be inserted in required profile, frame will be fixed to the wall with 8 mm x 100 mm long fasteners, all complete as per direction of Engineer-in-charge. : --Double glazed windows with glass 6mm HS Glass SKN 165 +12mm air gap +8mm HS glass of Saint Gobain or equivalent make, VLT=58%,SHGC Value = 0.32, U-Value.=1.5, int/ext reflection = 16%	230.00	m2				0.0000	0.00	INR Zero Only
27	Providing and fixing in position at all floors and levels, UPVC fins of size 150mm length, 50 mm wide & 2/3mm thick @ 200mm C/C of approved design and pattern etc. complete as per manufacturer specifications.	220.00	m2				0.0000	0.00	INR Zero Only
28	Providing and fixing GRC cornice fixed with MS cleat, dowel plug, screws, & HILTI fasteners with plastic plug, & joints filled with white cement, silica sand sam bond chemical including MS framework with approved paint & including scaffolding and lifting at any height etc. complete as per manufacturer specification. Cornice Sizes are following--: --Type 3.1 & 3.2 - 100mm wide & 100mm ht	620.00	M				0.0000	0.00	INR Zero Only
29	Providing and fixing GRC cornice fixed with MS cleat, dowel plug, screws, & HILTI fasteners with plastic plug, & joints filled with white cement, silica sand sam bond chemical including MS framework with approved paint & including scaffolding and lifting at any height etc. complete as per manufacturer specification. Cornice Sizes are following--: --Type 3.2 - 600mm wide & 200mm ht	190.00	M				0.0000	0.00	INR Zero Only
30	Providing and fixing GRC cornice fixed with MS cleat, dowel plug, screws, & HILTI fasteners with plastic plug, & joints filled with white cement, silica sand sam bond chemical including MS framework with approved paint & including scaffolding and lifting at any height etc. complete as per manufacturer specification. Cornice Sizes are following--: --Type 3.3 - 215mm wide & 245mm ht	150.00	M				0.0000	0.00	INR Zero Only
31	Providing and fixing GRC cornice fixed with MS cleat, dowel plug, screws, & HILTI fasteners with plastic plug, & joints filled with white cement, silica sand sam bond chemical including MS framework with approved paint & including scaffolding and lifting at any height etc. complete as per manufacturer specification. Cornice Sizes are following--: --Type 3.3 - 130mm wide & 165mm ht	280.00	M				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
32	Providing and fixing GRC cornice fixed with MS cleat, dowel plug, screws, & HILTI fasteners with plastic plug, & joints filled with white cement, silica sand sam bond chemical including MS framework with approved paint & including scaffolding and lifting at any height etc. complete as per manufacturer specification. Cornice Sizes are following:- --Type 2.5 - 900 X 325mm	170.00	M				0.0000	0.00	INR Zero Only
33	Providing and fixing GRC cornice fixed with MS cleat, dowel plug, screws, & HILTI fasteners with plastic plug, & joints filled with white cement, silica sand sam bond chemical including MS framework with approved paint & including scaffolding and lifting at any height etc. complete as per manufacturer specification. Cornice Sizes are following:- --Type 2.4 - 500 X 350mm	170.00	M				0.0000	0.00	INR Zero Only
34	Providing and fixing GRC cornice fixed with MS cleat, dowel plug, screws, & HILTI fasteners with plastic plug, & joints filled with white cement, silica sand sam bond chemical including MS framework with approved paint & including scaffolding and lifting at any height etc. complete as per manufacturer specification. Cornice Sizes are following:- --Type 2.2 - 550 X 325mm	170.00	M				0.0000	0.00	INR Zero Only
35	Providing and fixing GRC cornice fixed with MS cleat, dowel plug, screws, & HILTI fasteners with plastic plug, & joints filled with white cement, silica sand sam bond chemical including MS framework with approved paint & including scaffolding and lifting at any height etc. complete as per manufacturer specification. Cornice Sizes are following:- --Type 2.1 - 500 X 175mm	170.00	M				0.0000	0.00	INR Zero Only
36	Providing and fixing GRC cornice fixed with MS cleat, dowel plug, screws, & HILTI fasteners with plastic plug, & joints filled with white cement, silica sand sam bond chemical including MS framework with approved paint & including scaffolding and lifting at any height etc. complete as per manufacturer specification. Cornice Sizes are following:- --Type 2.3 - 700 X 200mm	40.00	M				0.0000	0.00	INR Zero Only
37	Providing and fixing GRC cornice fixed with MS cleat, dowel plug, screws, & HILTI fasteners with plastic plug, & joints filled with white cement, silica sand sam bond chemical including MS framework with approved paint & including scaffolding and lifting at any height etc. complete as per manufacturer specification. Cornice Sizes are following:- --Type 2.6 - 300 X 200mm	130.00	M				0.0000	0.00	INR Zero Only
38	Providing and fixing GRC cornice fixed with MS cleat, dowel plug, screws, & HILTI fasteners with plastic plug, & joints filled with white cement, silica sand sam bond chemical including MS framework with approved paint & including scaffolding and lifting at any height etc. complete as per manufacturer specification. Cornice Sizes are following:- --Column - 1150mm X 1650mm X 12.45mt	4.00	nos				0.0000	0.00	INR Zero Only
39	Providing and fixing GRC cornice fixed with MS cleat, dowel plug, screws, & HILTI fasteners with plastic plug, & joints filled with white cement, silica sand sam bond chemical including MS framework with approved paint & including scaffolding and lifting at any height etc. complete as per manufacturer specification. Cornice Sizes are following:- --Column - 900mm X 950mm X 12.45mt	4.00	nos				0.0000	0.00	INR Zero Only
40	Providing and fixing GRC cornice fixed with MS cleat, dowel plug, screws, & HILTI fasteners with plastic plug, & joints filled with white cement, silica sand sam bond chemical including MS framework with approved paint & including scaffolding and lifting at any height etc. complete as per manufacturer specification. Cornice Sizes are following:- --Column - 950mm X 1650mm X 3.0mt	3.00	nos				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
41	Providing and fixing GRC cornice fixed with MS cleat, dowel plug, screws, & HILTI fasteners with plastic plug, & joints filled with white cement, silica sand sam bond chemical including MS framework with approved paint & including scaffolding and lifting at any height etc. complete as per manufacturer specification. Cornice Sizes are following:- --Column - 250mm X 250mm X 2.1mt	12.00	nos				0.0000	0.00	INR Zero Only
42	Providing and fixing GRC cornice fixed with MS cleat, dowel plug, screws, & HILTI fasteners with plastic plug, & joints filled with white cement, silica sand sam bond chemical including MS framework with approved paint & including scaffolding and lifting at any height etc. complete as per manufacturer specification. Cornice Sizes are following:- --Column - 600mm X 475mm X 19mt	4.00	nos				0.0000	0.00	INR Zero Only
43	Providing & fixing of Luxalon® Aluminium 50 BD Ventilated Façade / Sun Louver System manufactured by M/s. Hunter Douglas India Pvt. Ltd. of approved colour consisting of panel 50 mm wide x 75mm depth x 0.6mm thick panel length up to 4mtrs coil coated on a continuous paint line double baked and roll formed from enameled corrosion Resistance Aluminum Alloy AA3005 / AA5050 for higher strength and good Roll forming characteristics. Panels shall be mounted in a module of 150 mm on a mullion profile grooved (Slotted Fastening Profile) by means Locking Clips and Pop Rivet. Slotted Fastening Profile shall be fixed at 150 mm from panel ends and at a distance of maximum 1200 mm center to center across the panel span and Slotted Fastening Profile shall be fixed to a suitable sub-structure by means of Square Brackets. etc. complete. --Paint Finish: Panel shall be stove enameled and finished with Luxacote, a patented special three layered coating system (consisting of first a conversion layer of thickness 800-2000mg/sq mtr, a polyurethane basecoat of 16-20 microns, and a special top coat of polyamide particles of 8-12 microns thick to provide excellent abrasion and damage resistance) in a continuous coil coating process of the approved colour on the exposed side and the reverse side with epoxy. Mode of Measurements: Measurements shall be Length and Breadth of the fascia without any deductions for any openings.:	130.00	m2				0.0000	0.00	INR Zero Only
44	--Providing & fixing Bison Board on partition and wall with GI screws at every 750mm c/c in vertical and horizontal directions to proper line, level including joints to be finished seamless with 48 mm wide self adhesive fibre tape. Etc. complete as directed.	270.00	m2				0.0000	0.00	INR Zero Only
45	Modify the partition/ceiling to fixing the AC unit with necessary all accessories to matching the existing including carting debris away from site. carefully and without collateral damage and clearing the site, disposing debris with all leads lifts complete or as directed. etc. complete as per drawing or as directed.	50.00	nos				0.0000	0.00	INR Zero Only
46	Providing and fixing precast cement concrete railing with precast balusters @ 300mm C/C, shape & size as per design, with coping etc. complete as per drawing.	65.00	M				0.0000	0.00	INR Zero Only
47	Providing, fabricating & erecting Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	4944.92	kg				0.0000	0.00	INR Zero Only
48	Providing, fabricating & erecting Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	8500.00	kg				0.0000	0.00	INR Zero Only
49	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 gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	11000.00	kg				0.0000	0.00	INR Zero Only

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50	Providing and fixing stainless steel (Grade 316) railing made of Hollow tubes, 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 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.).	1410.00	kg				0.0000	0.00	INR Zero Only
51	Providing & 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, but excluding the cost of nosing of steps etc. complete.	180.00	m2				0.0000	0.00	INR Zero Only
52	Providing & fixing 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) : --25 mm thick	170.00	m2				0.0000	0.00	INR Zero Only
53	Providing & laying 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. (Basic rate of tiles of Rs. 400/- Sq.mt)	670.00	m2				0.0000	0.00	INR Zero Only
54	Providing and laying Vitrified 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 brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). (Base price of Rs. 1200/- Sq.mt. excluding taxes) --Size of Tile 600x600 mm	25.00	m2				0.0000	0.00	INR Zero Only
55	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), including filling / grouting and finishing complete as per direction of Engineer-in-charge. --Size of Tile 600x600 mm	25.00	m2				0.0000	0.00	INR Zero Only
56	Providing and laying machine cut, mirror polished, Italian Marble stone flooring laid in required pattern in linear portion of the building all complete as per architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. a. 18 mm thick Italian Marble stone slab,Perlato, Rosso verona, Fire Red or Dark Emperadore etc. (Base price of Italian Marbel is Rs. 4500/- Sq.mt. excluding taxes)	10.00	m2				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
57	Providing and fixing sand Stone work (machine cut edges) for wall lining etc. (vener work) upto 10 metre height, backing filled with a grout of average 12 mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.	120.00	m2				0.0000	0.00	INR Zero Only
58	Providing and fixing Composite marble of white shade for flooring & Cladding having thickness upto 18mm in required size, shade ,size as per drawing, laid over 20mm thick cement mortar 1:4 & 15mm thick backing coat plaster of CM 1:4, , cleaning all as per specifications and as directed. (Basic cost of composite marble/ Agglomerate Rs. 2500/- per sq.mt.excluding taxes)	25.00	m2				0.0000	0.00	INR Zero Only
59	Providing and fixing Wet cladding of size 1000 X 3000 X 3mm thick Techlam porcelain sheet with matt & slip resistant finish, Techlam tile fixed with adhesive of MapaeiKeraflexi maxi s1, latcrete, kerakol or equivalent make. 2mm joints finished with epoxy grout of Mapaei or laticrete make, etc. complete as per manufacturer specifications.(Base price of Techlam porcelain sheet is Rs. 3600/-per SqM. excluding taxes)	370.00	m2				0.0000	0.00	INR Zero Only
60	Providing and fixing Dry cladding of size 1000 X 3000 X 3mm thick Techlam porcelain sheet with matt & slip resistant finish, framework with aluminium channel of 40X50X2 to 3mm thick @ 500mm C/C with powder coated 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. complete as per manufacturer specifications.(Base price of Techlam porcelain sheet is Rs. 3600/-per SqM. excluding taxes)	50.00	m2				0.0000	0.00	INR Zero Only
61	Providing & applying 10 mm thick plaster of Paris (gypsum anhydrous) ceiling up to a height of 5m above floor level, over first class kail wood strips 25x6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame (frame work to be paid separately) : --Flat surfaces	225.00	m2				0.0000	0.00	INR Zero Only
62	Providing & applying upto 8 mm thick plaster of Paris (gypsum anhydrous) ceiling up to a height of 5m above floor level, over first class kail wood strips 25x6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame (frame work to be paid separately) :	25.00	m2				0.0000	0.00	INR Zero Only
63	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 dash fastener 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	270.00	m2				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
64	Modular False Ceiling : Armstrong Modular ceiling grid(hot dipped galvanized steel section) shall have 595 x 595 mm x 15mm fine fissured tiles(lay-in type) in true horizontal level using a 15mm T bar section suspended from the ceiling slab using 2 mm wire at every 1200mm interval. And shall have fire rating of 60 minutes as per BS 476/23 of 1987, Noise reduction Coefficient (NRC) of 0.50-0.60, to resist temperature and humidity conditions up to 40 degree (104deg. F) and humidity of 99% RH.	460.00	m2				0.0000	0.00	INR Zero Only
65	Providing and fixing in position UV resistant X-structure/multiwall/multicell Polycarbonate sheet (Lexan Thermoclear of GE Plastics or equivalent 1200 mm width and max length upto 12.0 m,including UV resistant coating on both sides, providing specially designed serrated polycarbonate clamping section at all longitudinal joints (parallel to span) on supporting member, fixing to box purlins/runner using specially designed stainless steel clamps and fasteners SS304 grade,(or) specially designed anodised aluminium clamping section with EPDM/Neo prene gaskets to be located on supporting member, the fasteners to be fixed on pre drilled or self drilled hole, all fixing to be completely water tight. etc. complete as per manufacturer specifications. (Purlins, runners are paid seperately under the Structural steel item)	110.00	m2				0.0000	0.00	INR Zero Only
66	Providing & applying 12 mm cement plaster of mix : : --1:4 (1 cement: 4 fine sand)	225.00	m2				0.0000	0.00	INR Zero Only
67	Providing & applying 18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge.	3560.00	m2				0.0000	0.00	INR Zero Only
68	Providing & applying 6 mm cement plaster of mix : : --1:3 (1 cement : 3 fine sand)	50.00	m2				0.0000	0.00	INR Zero Only
69	Providing & applying 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	200.00	m2				0.0000	0.00	INR Zero Only
70	Providing & applying 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)	25.00	m2				0.0000	0.00	INR Zero Only
71	Providing and applying two coat of approved primer of Asian paints / ICI and two coats of Ultima apex protek of Asian paints or Weather Shield Max of ICI (as per manufacturer's specification) to the entire external surface of the building after scrapping, brushing, cleaning, washing the surface, and including curing, filling the cracks with filler materials, leveling etc., all complete. (Mode of measurement actual surface area painted will be considered i.e. length x height less all opening and windows)	4760.00	m2				0.0000	0.00	INR Zero Only
72	Providing and applying two coats of fire retardant paint on cleaned wood / ply surface @ 3.5 sqm per litre per coat including preparation of base surface as per recommendations of manufacturer to make the surface fire retardant.	142.03	m2				0.0000	0.00	INR Zero Only
73	Providing & applying Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.: --On steel work	142.03	m2				0.0000	0.00	INR Zero Only
74	Providing & applying Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : --Two or more coats on new work	270.00	m2				0.0000	0.00	INR Zero Only
75	Providing & applying Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : --Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	25.00	m2				0.0000	0.00	INR Zero Only
76	Providing & applying French spirit polishing : --Two or more coats on new works including a coat of wood filler	10.00	m2				0.0000	0.00	INR Zero Only

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77	Providing & applying Polishing on wood work with ready mixed wax polish of approved brand and manufacture : --New/old work	10.00	m2				0.0000	0.00	INR Zero Only
78	Providing & applying Painting with aluminium paint of approved brand and manufacture to give an even shade :. --Two or more coats on new work	10.00	m2				0.0000	0.00	INR Zero Only
79	Providing and carrying out Pest-Control for termites, pests, white ants with final application of the chemical after completion of carpentry work. As per IS Code 6313 Part II or revisions thereof.including drilling holes at skirting level to allow the chemical to seep into walls, mixing chemical with the flooring mortar, contractor to give a certificate of Pest Treatment at the end of the job.(Measurement as per carpet area)	4810.00	m2				0.0000	0.00	INR Zero Only
80	Providing sand face plaster externally with groove in two coats using approved screened sand in all positions, including providing base coat of 15mm thick in cement mortar 1:4 mixing approved water proofing compound at the rate of 1 kilogramme / 50 kg of cement and curing the same for not less than two days and keeping the surface of base coat rough to receive the sand faced treatment 8mm thick in cement mortar 1:4 and finishing the surface by taking out grains and curing for 14 days including preparing the surface, watering including providing & fixing 20 guage GI chicken mesh @ 150mm wide to junction of concrete & masonry, including preparing jambs,sills, grooves-30mm high, 15mm deep & 250mm C/C etc. ,including, pattas, wattas, rounding corners etc. complete.	2240.00	m2				0.0000	0.00	INR Zero Only
81	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 challies, 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 Engineerin-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.	3710.00	m2				0.0000	0.00	INR Zero Only
82	Providing and erecting bamboo's double scaffolding of required height, width and strength by sides of building for platform to enable departmental workmen to carry out repairs to building at any level from ground to any floor height as directed including removing the same and clearing the site..The payment will be made once irrespective of duration of scaffolding.	25.00	m2				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
83	Demolishing R.C.C. work manually/ by mechanical means including cutting, stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge	5.00	m3				0.0000	0.00	INR Zero Only
84	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. --In cement mortar	30.00	m3				0.0000	0.00	INR Zero Only
85	Removing existing door or windows with frame and shutters and making good etc. to the existing surface.	125.00	nos				0.0000	0.00	INR Zero Only
86	Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead : --Any size of wood	1.00	m3				0.0000	0.00	INR Zero Only
87	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50metres lead. --Single/built up section	2240.00	kg				0.0000	0.00	INR Zero Only
88	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. : --For thickness of tiles upto to 25 mm	70.00	m2				0.0000	0.00	INR Zero Only
89	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of : : --Any type of sheet	40.00	m2				0.0000	0.00	INR Zero Only
90	Dismantling carefully existing pipeline of any dia,any material along with all its fittings viz. bib cock, collars, elbow etc and stacking at site.	500.00	M				0.0000	0.00	INR Zero Only
91	Dismantling old plaster of any thickness or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead	3560.00	m2				0.0000	0.00	INR Zero Only
92	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.: --Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	25.00	m3				0.0000	0.00	INR Zero Only
93	Dismantling precast concrete or stone slabs in walls, partition walls etc. including stacking within 50 metres lead : --Thickness above 40 mm up to 75 mm	120.00	m2				0.0000	0.00	INR Zero Only
94	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 etc. as per the direction of Engineer in charge.	683.63	m2				0.0000	0.00	INR Zero Only
95	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.: --For thickness of tiles above 25 mm and up to 40 mm	700.00	m2				0.0000	0.00	INR Zero Only
96	Removing the waterproofing treatment and removing down the debris of the existing waterproofing treatment from the terrace by any means without causing dust nuisance and where directed including cleaning the site & carting away the same outside MDL to Municipal dumpig yard complete as directed.	700.00	m2				0.0000	0.00	INR Zero Only
97	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved unicipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	200.00	m3				0.0000	0.00	INR Zero Only
98	Covering the window with 6mm thick commercial plywood and removing after completion of work etc. complete as directed.	560.00	m2				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
99	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in MDL Premises as directed by Engineer-in-charge.	840.00	m2				0.0000	0.00	INR Zero Only
100	Cutting holes up to 30x30 cm in walls including making good the same:: --With common burnt clay F.P.S. (non modular) bricks	25.00	nos				0.0000	0.00	INR Zero Only
101	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 the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : --Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	25.00	kg				0.0000	0.00	INR Zero Only
102	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 the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) : --Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	25.00	kg				0.0000	0.00	INR Zero Only
103	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): --With float glass panes of 5.50 mm thickness	5.00	m2				0.0000	0.00	INR Zero Only
104	Providing and pasting 3M or equivalent approved make frosted film on glazed portion of doors and partitions at locations as per detailed architectural drawing and as directed by engineer in charge	5.00	m2				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
105	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 Engineer-in-charge. d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645	700.00	m2				0.0000	0.00	INR Zero Only
106	Providing and fixing 12mm thick Saint Gobian toughened clear glass or equivalent approved make in partition fixed with heavy duty Stainless Steel Point fittings including sealing of edges, if required as per the detailed architectural drawing.	20.00	m2				0.0000	0.00	INR Zero Only
107	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 ,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.	34.85	m2				0.0000	0.00	INR Zero Only
108	Providing and fixing LOGO of size approx. 3mt. dia. made up of 2mm thick aluminium base plate for round circle with colour coat as per the creative with backlite glow. Letters L& D English and Marathi will be in 3D letters with inside LED with front colour coat as per the colour, rest logo design in will be colour coat Electronic material detail: Samsung LED with 3 year warranty, water proof power supply with 2 year warranty & timer with 1 year warranty.	2.00	nos				0.0000	0.00	INR Zero Only
109	Providing and fixing SS jali of grade 316 including fixing with necessary hardware etc. complete.	10.00	m2				0.0000	0.00	INR Zero Only
110	Providing and fixing soil, waste and vet pipes Centrifugally cast(spun)iron socket & spigot (S&S) pipe as per IS.3989: --100 mm dia.	300.00	M				0.0000	0.00	INR Zero Only
111	Providing and laying Double Flanged (screwed / welded) Centrifugally (Spun) Cast Iron, Class B (IS : 1536) : --150 mm dia.	20.00	M				0.0000	0.00	INR Zero Only
112	Providing and laying Double Flanged (screwed / welded) Centrifugally (Spun) Cast Iron, Class B (IS : 1536) : --100 mm dia.	10.00	M				0.0000	0.00	INR Zero Only
113	Supply, laying, testing & commissioning of Heavy quality C. I. roof drains with bell mouth, grating, sealing and setting in CC M - 150 applying three coats of anti corrosive Bitumastic paint etc. complete and as directed.: --230mm dia bell mouth for 150mm dia down take	8.00	nos				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
114	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design: --Inside dimensions 600x850 and 45cm deep for pipeline with three or more inlets --With common burnt clay F.P.S (non modular) bricks of class designation 7.5 :	2.00	nos				0.0000	0.00	INR Zero Only
115	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design: --Inside dimensions 455x610 and 45cm deep for pipeline with three or more inlets -- With common burnt clay F.P.S (non modular) bricks of class designation 7.5 :	2.00	nos				0.0000	0.00	INR Zero Only
116	Providing and laying non-pressure NP-2 class RCC pipes of approved quality with collars, jointed with stiff cement mortar (1:1) including providing tight packing of tarred spun yarn, CC (1:3:6) in bedding as specified under IS:1742/1960, form work, handling, cutting to required lengths, curing etc. complete as specified and as directed but exclusive of excavation.: --300 mm dia	5.00	M				0.0000	0.00	INR Zero Only
117	Providing and laying non-pressure NP-2 class RCC pipes of approved quality with collars, jointed with stiff cement mortar (1:1) including providing tight packing of tarred spun yarn, CC (1:3:6) in bedding as specified under IS:1742/1960, form work, handling, cutting to required lengths, curing etc. complete as specified and as directed but exclusive of excavation.: --250 mm dia	5.00	M				0.0000	0.00	INR Zero Only
118	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 100x100 mm size P type: --With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1.00	Nos				0.0000	0.00	INR Zero Only
119	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 100x100 mm size P type: --With Sewer bricks conforming to IS : 4885	1.00	Nos				0.0000	0.00	INR Zero Only

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120	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. Soil, Waste, Vent Pipes --110 mm dia pipe.	10.00	M				0.0000	0.00	INR Zero Only
121	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. --75 mm dia pipe.	10.00	M				0.0000	0.00	INR Zero Only
122	Providing and fixing new PVC cowl to sanitary line including scaffolding/ Jhulla etc. complete as directed. --110 mm dia	8.00	nos				0.0000	0.00	INR Zero Only
123	Providing and fixing new PVC cowl to sanitary line including scaffolding/ Jhulla etc. complete as directed. --90 mm dia	4.00	nos				0.0000	0.00	INR Zero Only
124	Providing and fixing PVC pipe in chases including clamps and necessary fittings to match pipe and making good the chases of following dia. --40 mm internal dia PVC pipe	10.00	M				0.0000	0.00	INR Zero Only
125	Providing and fixing PVC pipe in chases including clamps and necessary fittings to match pipe and making good the chases of following dia. --32 mm internal dia PVC pipe	10.00	M				0.0000	0.00	INR Zero Only
126	Providing and fixing 110 x 90mm PVC deep seal nahani traps upto 450 mm long arm, PVC heavy grating with or without vent connection as required.	4.00	nos				0.0000	0.00	INR Zero Only
127	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : --150 mm dia	5.00	M				0.0000	0.00	INR Zero Only
128	Point wiring for light/fan/bell in 20 mm rigid PVC conduit with 1.0 sq.mm FRLS grade Copper wire with flush type switch and required accessories as per specification No: WG-PW/SW Refer note for POINT WIRING & CONDUITING WORK (128 & 129) in Section II Electrical Work in Tender Volume III	40.0	Nos				0.0000	0.00	INR Zero Only
129	Supplying&erectingmainswith2x2.5sq.mm.andearthwire1.5sq.mmFRLSPVCcopperwirein rigidPVC conduit min.20mm dia. as per specification No: WG-MA/PC, para no. 1.4.1 Refer note for POINT WIRING & CONDUITING WORK (128 & 129) in Section II Electrical Work in Tender Volume III	400.0	M				0.0000	0.00	INR Zero Only
130	Providing wiring for 6/16 Amps. approved make switched socket outlet independently mounted using 3 Core x 2.5 Sq.mm FR Copper Conductor flexible wires for the first point and 3 Core x 2.5 sq. mm Copper conductor FR wires to 5 Pin Socket outlet in under floor race ways or extending the point using 25 mm dia 2 mm wall thickness PVC conduits of approved make with suitable sized manufactures standard electro plated boxes near the point. The rate shall also include supply and installation of 1 Nos, 6/16 Amps., 5 Pin Multistandard type Socket outlet, 1 Nos, 16 Amps., single pole modular type switch and necessary face plate and GI back box with interconnections all complete as required and as per final approval of the Consultant. (4 such points shall be looped together and called as a Set, for Split type AC)	45.0	Set				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
131	Providing wiring for 6/16 Amps. switched socket outlet independently mounted using 3 Core x 2.5 Sq.mm FR Copper Conductor flexible wires for the first point and 3 Core x 2.5 sq. mm Copper conductor FR wires to 5 Pin Socket outlet in under floor race ways or extending the point using 25 mm dia 2 mm wall thickness PVC conduits of approved make with suitable sized manufactures standard electro plated boxes near the point. The rate shall also include supply and installation of 1 Nos, 6/16 Amps., 5 Pin Multistandard type Socket outlet, 1 Nos, 16 Amps., single pole modular type switch and necessary face plate and GI back box with interconnections all complete as required and as per final approval of the Consultant. (for Individual Cassete A.C units)	10.0	Nos				0.0000	0.00	INR Zero Only
132	Supplying and erecting fresh air cum Exhaust fan of light duty 250 V A.C. 50 cycles 300mm, 1400 RPM rust proof body & blades, wire mesh, duly erected in an approved manner and marking Sr. No. an date of erection.	30.0	Nos.				0.0000	0.00	INR Zero Only
133	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	30.0	Nos.				0.0000	0.00	INR Zero Only
134	Supplying,Installation, testing and commissioning 25W LED DOWNLIGHTER, recessed in ceiling / surface wall mounted type. (IP Rating = IP 67)	6.0	Nos				0.0000	0.00	INR Zero Only
135	Supplying,Installation, testing and commissioning 36W LED UPLIGHTER, recessed in ceiling / surface Wall mounted type. (IP Rating = 67)	10.0	Nos				0.0000	0.00	INR Zero Only
136	Supplying,Installation, testing and commissioning 12W LED Strip Light.(IP Rating = 65)	200.0	M				0.0000	0.00	INR Zero Only
137	Supplying,Installation, testing and commissioning 10W LED BOLLARD LIGHT.(IP Rating = 64)	10.0	Nos				0.0000	0.00	INR Zero Only
138	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted suitable for 3 Pole MCCB as Incommer & outgoing SP MCB (12 Poles) or TP MCB of 4 ways (12 Poles) on iron frame. (Vertical Busbar type) as per specification no. SW-SWR/MCBDB1	1.0	Nos				0.0000	0.00	INR Zero Only
139	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted suitable for 3 Pole MCCB as Incommer & outgoing SP MCB (24 Poles) or TP MCB of 8 ways (24 Poles) , on iron frame. (Vertical Busbar type) as per specification No. SW-SWR/MCBDB1	1.0	Nos				0.0000	0.00	INR Zero Only
140	Supplying, erecting & marking TPN MCB 40A to 63A, Cseries in provided distribution board as per specification No. SW-SWR/MCB	1.0	Nos				0.0000	0.00	INR Zero Only
141	Supplying, erecting & marking SPMCB 6A to 32A, B- series (for lighting) in provided distribution board as per specification No. SW-SWR/MCB	24.0	Nos				0.0000	0.00	INR Zero Only
142	Providing, erecting & commissioning RCCB only of electro magnetic type with 30/100/300 mA sensitivity and having capacity of 16/25 A. 2 pole complete as per specification No. SW-RCCB/RCCB	3.0	Nos				0.0000	0.00	INR Zero Only
143	SITC of following sizes of 1.1 KV grade XLPE / PVC insulated Armored Copper/ Aluminum conductor cables laid over MS supports cable racks/trays or fixing on walls including clamping the cable to supports cable racks or fixing on walls including clamping the cable to supports in an approved manner as re & quired. For more details read technical spec no. 8 & refer PWD 2013-2014 --Supplying, erecting & terminating XLPE armoured cable 3½ core 240 sq mm aluminium conductor with continuous 12.97 sq mm (8 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe in an approved manner.	600.0	M				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
144	SITC of following sizes of 1.1 KV grade XLPE / PVC insulated Armored Copper/ Aluminum conductor cables laid over MS supports cable racks/trays or fixing on walls including clamping the cable to supports cable racks or fixing on walls including clamping the cable to supports in an approved manner as re & quired. For more details read technical spec no. 8 & refer PWD 2013-2014 --Supplying, erecting & terminating PVC armoured cable 3½ core 150 sq mm aluminium conductor with continuous 12.97 sq mm (8 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	60.0	M				0.0000	0.00	INR Zero Only
145	SITC of following sizes of 1.1 KV grade XLPE / PVC insulated Armored Copper/ Aluminum conductor cables laid over MS supports cable racks/trays or fixing on walls including clamping the cable to supports cable racks or fixing on walls including clamping the cable to supports in an approved manner as re & quired. For more details read technical spec no. 8 & refer PWD 2013-2014 --Supplying, erecting & terminating PVC armoured cable 4 core 10 sq mm copper conductor continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	300.0	M				0.0000	0.00	INR Zero Only
146	SITC of following sizes of 1.1 KV grade XLPE / PVC insulated Armored Copper/ Aluminum conductor cables laid over MS supports cable racks/trays or fixing on walls including clamping the cable to supports cable racks or fixing on walls including clamping the cable to supports in an approved manner as re & quired. For more details read technical spec no. 8 & refer PWD 2013-2014	100.0	M				0.0000	0.00	INR Zero Only
147	SITC of following sizes of 1.1 KV grade XLPE / PVC insulated Armored Copper/ Aluminum conductor cables laid over MS supports cable racks/trays or fixing on walls including clamping the cable to supports cable racks or fixing on walls including clamping the cable to supports in an approved manner as re & quired. For more details read technical spec no. 8 & refer PWD 2013-2014 --Supplying, erecting & terminating PVC armoured cable 4 core 4 sq mm copper conductor continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	25.0	M				0.0000	0.00	INR Zero Only
148	SITC of following sizes of 1.1 KV grade XLPE / PVC insulated Armored Copper/ Aluminum conductor cables laid over MS supports cable racks/trays or fixing on walls including clamping the cable to supports cable racks or fixing on walls including clamping the cable to supports in an approved manner as re & quired. For more details read technical spec no. 8 & refer PWD 2013-2014 --Supplying, erecting & terminating PVC armoured cable 3 core 2.5 sq mm copper conductor continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	50.0	M				0.0000	0.00	INR Zero Only
149	SITC of following sizes of 1.1 KV grade XLPE / PVC insulated Armored Copper/ Aluminum conductor cables laid over MS supports cable racks/trays or fixing on walls including clamping the cable to supports cable racks or fixing on walls including clamping the cable to supports in an approved manner as re & quired. For more details read technical spec no. 8 & refer PWD 2013-2014 --Providing & erecting Hot deeped Galvanised Perforated type Cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 300 mm width & 75 mm height complete with necessary coupler plates & hardware in approved manner	300.0	M				0.0000	0.00	INR Zero Only
150	SITC of following sizes of 1.1 KV grade XLPE / PVC insulated Armored Copper/ Aluminum conductor cables laid over MS supports cable racks/trays or fixing on walls including clamping the cable to supports cable racks or fixing on walls including clamping the cable to supports in an approved manner as re & quired. For more details read technical spec no. 8 & refer PWD 2013-2014 --Providing & erecting Hot deeped Galvanised Perforated type Cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 150 mm width & 75 mm height complete with necessary coupler plates & hardware in approved manner	50.0	M				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
151	SITC of following sizes of 1.1 KV grade XLPE / PVC insulated Armored Copper/ Aluminum conductor cables laid over MS supports cable racks/trays or fixing on walls including clamping the cable to supports cable racks or fixing on walls including clamping the cable to supports in an approved manner as re & quired. For more details read technical spec no. 8 & refer PWD 2013-2014 --Supplying & erecting I.S.I. mark Rigid P.V.C. conduit 25 mm. dia. with necessary accessories in wall/floor with chiselling appropriately as per specification No: WG-MA/CC, para no. 1.2.	100.0	M				0.0000	0.00	INR Zero Only
152	VRV panel (IP Rating = IP 65) a. Incomer : 1 No., of 630 Amps., Four Pole, Microprocessor based Moulded Case Circuit Breaker with built in over-current, short circuit and earth fault releases. Icu=Ics=36 kA=1sec b.Metering Section : 1 No., CT Operated load manager of approved make. The Load manager should have Ammeter, Voltmeter, kWh, kVAR, Power Factor & Frequency meter. c.Indication Section For Incoming Section : 3 Nos., Phase Indicating lamps, Led type of approved make. 3 Nos., One Red and One Green and One Amber Led type lamps for indicating MCCB is in 'ON' or 'OFF' or 'TRIP' position. d.Current Transformers For Incoming Section : 3 Nos. of 630/5 Amps Cast Resin type Current Transformers, having 15 VA burden and Class-1 accuracy for metering purpose. e. Busbar : 630 Amps uniformly rated, continuous duty, 415 V AC, 3 Phase and Neutral Copper Bus-bars having SC withstand capacity of 36 kA for 1 sec, with colour coded heat shrink sleeves supported on SMC type grip supports. The Horizontal / Vertical sections of the busbars should all be uniformly rated for 630 Amps. f. Outgoings : 400A,FP, MCCB,25kA- 2 Nos. 63A,FP, MCB,10kA - 10 Nos. 40A,FP, MCB,10kA - 1 Nos.	1.00	Nos				0.0000	0.00	INR Zero Only
153	APFC Panel : 100 kVAR (IP Rating = IP 65) a. Incomer : 1 No., of 400 Amps., Four Pole, Moulded Case Circuit Breaker with built in	1.00	Nos				0.0000	0.00	INR Zero Only
154	Providing and fixing in position, the following sizes of earthing strips or wires including providing all fixing accessories and effecting proper connections and as per final directions and approval of the Consultant. -- Providing earthing with Galvanised cast iron earth plate size 60 x 60 x 0.6 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover complete with all materials, testing & recording the results as per specification No. EA-EP	2	Nos.				0.0000	0.00	INR Zero Only
155	Providing and fixing in position, the following sizes of earthing strips or wires including providing all fixing accessories and effecting proper connections and as per final directions and approval of the Consultant. -- Supplying and erecting G.I. strip of required size used for earthing on wall and/or any other purpose with necessary GI clamps fixed on wall painted with bituminous paint in an approved manner with joint required. as per specification No (EA-EP).	20	Kg				0.0000	0.00	INR Zero Only
156	Providing and fixing in position, the following sizes of earthing strips or wires including providing all fixing accessories and effecting proper connections and as per final directions and approval of the Consultant. -- Supplying and erecting G. I. Earth Wire of high purity of different sizes used for earthing or any other purposes on wall with necessary G. I. Clamps fixed on wall/cable/ conduit with screws in an approved manner.	80	Kg				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
157	Providing and fixing in position, the following sizes of earthing strips or wires including providing all fixing accessories and effecting proper connections and as per final directions and approval of the Consultant. -- Supplying and erecting Annealed bare copper wire of high purity of different sizes used for earthing on wall with necessary copper clamps fixed on wall/cable/conduit with screws in an approved manner.	180	Kg				0.0000	0.00	INR Zero Only
158	Supplying & erecting conventional spike type air termination suitable to carry lightning stroke made up of heavy gauge 40 mm dia copper pipe of standard length with 5 Nos. copper spikes fixed on copper ball as air terminals duly threaded in copper pipe erected on provided foundation in an approved manner	1.0	Nos.				0.0000	0.00	INR Zero Only
159	Providing and Back filling earth conductivity enhancing mineral earthing compound of 25 kg Bag complete.	1.0	Nos.				0.0000	0.00	INR Zero Only
160	Supply and delivery at MDL site of Close Control Units; Air Cooled Direct Expansion type with Inverter Compressor, totally Double skin sandwiched panels on all four side with 20 mm 32 Kg/ cum Glass wool internal insulation , eco-friendly R-410A refrigerant, Bottom discharge type complete with dynamically balanced fan driven by EBM make Electronically Commutated (EC) motor with fiberglass blade, Hydrophilic coated cooling coil. The unit shall be equipped with high efficiency filters G4, micro processor based programmable logic controller, Heater, Modulating Humidifier, Liquide receiver, Oil Separator, Electronic Expansion Valve, SS drain tray, Water Leak Detector, RS 485 Card. Air Cooled Condensor should be provided with fan speed regulator & AntiCorrosive coating to Condensor coil. Preferred Make: Stulz, Climaveneta, Bluebox, Emerson: --10 TR Actual Capacity at 6770 CFM; based on Return air conditions: 20 +/- 2 Deg. C, RH 50 +/-10% and with Ambient 40 Deg C (Condenser should work upto 45 Deg C) -- Qty : (2Working + 1Standby)	3.00	Nos				0.0000	0.00	INR Zero Only
161	Supply, Installation, Testing and Commissioning of 16 SWG Hard drawn copper refrigerant piping (liquid / hot gas) complete with 25 mm thick nitrile rubber insulation, GI supports, clamps, GI Cable tray & cable tray cover etc. (Consider 40 R.mtr per circuit) Refrigeration piping will have to be taken in G.I cable tray and cable tray cover with necessary support, saddles, hangers ,anchor fasteners, necessary bends, tees and fittings,(considering two pipe for Gas & Liquid). Nitrogen Pressure Test of the Piping, and Vacuumizing before pre-charging is part of the piping installation scope. Preferred Make: (Armacell/thermobreak/superlon	120	M				0.0000	0.00	INR Zero Only
162	Supply, Installation, Testing and Commissioning of PAC Power Cabling using Copper Conductor Armoured Cable from indoor to the outdoor unit; considering 40 rmt/circuit	120	M				0.0000	0.00	INR Zero Only
163	Supply, Installation, Testing and Commissioning of GI B-Class hard drawn drain piping; considering 10 rmt/unit	30	M				0.0000	0.00	INR Zero Only
164	Supply, Installation, Testing and Commissioning of Set of GI Stand for indoor and outdoor unit.	3	Set				0.0000	0.00	INR Zero Only
165	Providing and filling at site First charge of R-410A Gas (IDU to ODU inclusive of installed length of refrigerant piping at site) per unit.	3	Nos				0.0000	0.00	INR Zero Only
166	Installation, Testing & commissioning of above Close Control Units; along with copper refrigerant piping, necessary electrical installation with cabling, drain piping, etc. all complete as directed by Consultant/MDL Engineers. Installation also includes cost of lifting, shifting, positioning at site as per drawing.	3	Nos				0.0000	0.00	INR Zero Only
167	Supply, Installation, Testing and Commissioning of Return Air Plenum for PAC Unit.	3	Nos				0.0000	0.00	INR Zero Only
168	Supply, Installation, Testing and Commissioning of Return Air Motorized Damper.	3	Nos				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
169	Comprehensive, all inclusive, Annual Maintenance Charges for entire PAC System after end of 1 year of Defects Liability Period (Inclusive of 1 Year Warranty period). The PAC System shall include all items covered in Electrical, Electronic and Mechanical devices as per the installation: --AMC charges for First Year , after completion of Defect liability period	3	AU				0.0000	0.00	INR Zero Only
170	Comprehensive, all inclusive, Annual Maintenance Charges for entire PAC System after end of 1 year of Defects Liability Period (Inclusive of 1 Year Warranty period). The PAC System shall include all items covered in Electrical, Electronic and Mechanical devices as per the installation: --AMC charges for Second Year , after completion of Defect liability period	3	AU				0.0000	0.00	INR Zero Only
171	Comprehensive, all inclusive, Annual Maintenance Charges for entire PAC System after end of 1 year of Defects Liability Period (Inclusive of 1 Year Warranty period). The PAC System shall include all items covered in Electrical, Electronic and Mechanical devices as per the installation: --AMC charges for Third Year , after completion of Defect liability period	3	AU				0.0000	0.00	INR Zero Only
172	Supply and delivery at MDL site of Modulating outdoor units, with multi scroll compressors having Inverter Based Compressor based on Unit Configuration. The Unit should have Condenser fan, Electrical Accessories & Microprocessor Based Control panel, isolating valves and all the necessary accessories for proper functioning of the Condensing units and shall be suitable to outdoor application. The unit to be shipped with full charge of Refrigerant and oil, refrigeration-piping controls, first charge of refrigerant etc.The unit shall be compatible for BMS operation- Necessary relay card /soft integrator to be provided. The unit should comply with Min C.O.P of 3.7. Unit coil fins to have hydrophilic coating. The unit to provide the rated capacity at 35°C outdoor ambient conditions. Vendor to select unit standby capacity with configuration equivalent to the highest installed compressor capacity inside the unit or 30% of total unit TR; whichever is higher. Preferred Make:Daikin, Mitsubishi Electric, Hitachi --Refrigerant used shall be CFC free gas R410A. --Outdoor units shall be suitable for delivering following cooling capacities at actual site condition. NOTE:- Vendor to select ODU MODULES as per best Available Configuration. Below mentioned capacities are minimum cooling requirements. Standby capacity shall be over and above these capacities. --Total cooling requirement : 30.5TR---Ground floor	1	Nos.				0.0000	0.00	INR Zero Only
173	Supply and delivery at MDL site of Modulating outdoor units, with multi scroll compressors having Inverter Based Compressor based on Unit Configuration. The Unit should have Condenser fan, Electrical Accessories & Microprocessor Based Control panel, isolating valves and all the necessary accessories for proper functioning of the Condensing units and shall be suitable to outdoor application. The unit to be shipped with full charge of Refrigerant and oil, refrigeration-piping controls, first charge of refrigerant etc.The unit shall be compatible for BMS operation- Necessary relay card /soft integrator to be provided. The unit should comply with Min C.O.P of 3.7. Unit coil fins to have hydrophilic coating. The unit to provide the rated capacity at 35°C outdoor ambient conditions. Vendor to select unit standby capacity with configuration equivalent to the highest installed compressor capacity inside the unit or 30% of total unit TR; whichever is higher. Preferred Make:Daikin, Mitsubishi Electric, Hitachi --Refrigerant used shall be CFC free gas R410A. --Outdoor units shall be suitable for delivering following cooling capacities at actual site condition. NOTE:- Vendor to select ODU MODULES as per best Available Configuration. Below mentioned capacities are minimum cooling requirements. Standby capacity shall be over and above these capacities. --Total cooling requirement : 35.00TR---First floor	1	Nos.				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
174	<p>Supply and delivery at MDL site of Modulating outdoor units, with multi scroll compressors having Inverter Based Compressor based on Unit Configuration. The Unit should have Condenser fan, Electrical Accessories & Microprocessor Based Control panel, isolating valves and all the necessary accessories for proper functioning of the Condensing units and shall be suitable to outdoor application. The unit to be shipped with full charge of Refrigerant and oil, refrigeration-piping controls, first charge of refrigerant etc. The unit shall be compatible for BMS operation- Necessary relay card /soft integrator to be provided. The unit should comply with Min C.O.P of 3.7. Unit coil fins to have hydrophilic coating. The unit to provide the rated capacity at 35°C outdoor ambient conditions. Vendor to select unit standby capacity with configuration equivalent to the highest installed compressor capacity inside the unit or 30% of total unit TR; whichever is higher.</p> <p>Preferred Make:Daikin, Mitsubishi Electric, Hitachi --Refrigerant used shall be CFC free gas R410A. --Outdoor units shall be suitable for delivering following cooling capacities at actual site condition.</p> <p>NOTE:- Vendor to select ODU MODULES as per best Available Configuration. Below mentioned capacities are minimum cooling requirements. Standby capacity shall be over and above these capacities.</p> <p>--Total cooling requirement : 44.50TR--Second floor</p>	1	Nos.				0.0000	0.00	INR Zero Only
175	<p>Supply and delivery at MDL site of Modulating outdoor units, with multi scroll compressors having Inverter Based Compressor based on Unit Configuration. The Unit should have Condenser fan, Electrical Accessories & Microprocessor Based Control panel, isolating valves and all the necessary accessories for proper functioning of the Condensing units and shall be suitable to outdoor application. The unit to be shipped with full charge of Refrigerant and oil, refrigeration-piping controls, first charge of refrigerant etc. The unit shall be compatible for BMS operation- Necessary relay card /soft integrator to be provided. The unit should comply with Min C.O.P of 3.7. Unit coil fins to have hydrophilic coating. The unit to provide the rated capacity at 35°C outdoor ambient conditions. Vendor to select unit standby capacity with configuration equivalent to the highest installed compressor capacity inside the unit or 30% of total unit TR; whichever is higher.</p> <p>Preferred Make:Daikin, Mitsubishi Electric, Hitachi --Refrigerant used shall be CFC free gas R410A. --Outdoor units shall be suitable for delivering following cooling capacities at actual site condition.</p> <p>NOTE:- Vendor to select ODU MODULES as per best Available Configuration. Below mentioned capacities are minimum cooling requirements. Standby capacity shall be over and above these capacities.</p> <p>--Total cooling requirement : 29.00TR--Third floor</p>	1	Nos.				0.0000	0.00	INR Zero Only
176	<p>Supply and delivery at MDL site of Modulating outdoor units, with multi scroll compressors having Inverter Based Compressor based on Unit Configuration. The Unit should have Condenser fan, Electrical Accessories & Microprocessor Based Control panel, isolating valves and all the necessary accessories for proper functioning of the Condensing units and shall be suitable to outdoor application. The unit to be shipped with full charge of Refrigerant and oil, refrigeration-piping controls, first charge of refrigerant etc. The unit shall be compatible for BMS operation- Necessary relay card /soft integrator to be provided. The unit should comply with Min C.O.P of 3.7. Unit coil fins to have hydrophilic coating. The unit to provide the rated capacity at 35°C outdoor ambient conditions. Vendor to select unit standby capacity with configuration equivalent to the highest installed compressor capacity inside the unit or 30% of total unit TR; whichever is higher.</p> <p>Preferred Make:Daikin, Mitsubishi Electric, Hitachi --Refrigerant used shall be CFC free gas R410A. --Outdoor units shall be suitable for delivering following cooling capacities at actual site condition.</p> <p>NOTE:- Vendor to select ODU MODULES as per best Available Configuration. Below mentioned capacities are minimum cooling requirements. Standby capacity shall be over and above these capacities.</p> <p>--Total cooling requirement : 26.00TR--Fourth floor</p>	1	Nos.				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
177	<p>Supply and delivery at MDL site of Modulating outdoor units, with multi scroll compressors having Inverter Based Compressor based on Unit Configuration. The Unit should have Condenser fan, Electrical Accessories & Microprocessor Based Control panel, isolating valves and all the necessary accessories for proper functioning of the Condensing units and shall be suitable to outdoor application. The unit to be shipped with full charge of Refrigerant and oil, refrigeration-piping controls, first charge of refrigerant etc. The unit shall be compatible for BMS operation- Necessary relay card /soft integrator to be provided. The unit should comply with Min C.O.P of 3.7. Unit coil fins to have hydrophilic coating. The unit to provide the rated capacity at 35°C outdoor ambient conditions. Vendor to select unit standby capacity with configuration equivalent to the highest installed compressor capacity inside the unit or 30% of total unit TR; whichever is higher.</p> <p>Preferred Make:Daikin, Mitsubishi Electric, Hitachi --Refrigerant used shall be CFC free gas R410A. --Outdoor units shall be suitable for delivering following cooling capacities at actual site condition.</p> <p>NOTE:- Vendor to select ODU MODULES as per best Available Configuration. Below mentioned capacities are minimum cooling requirements. Standby capacity shall be over and above these capacities.</p> <p>--Total cooling requirement : 41.00TR--Fifth floor</p>	1	Nos.				0.0000	0.00	INR Zero Only
178	<p>Supply and delivery at MDL site of Modulating outdoor units, with multi scroll compressors having Inverter Based Compressor based on Unit Configuration. The Unit should have Condenser fan, Electrical Accessories & Microprocessor Based Control panel, isolating valves and all the necessary accessories for proper functioning of the Condensing units and shall be suitable to outdoor application. The unit to be shipped with full charge of Refrigerant and oil, refrigeration-piping controls, first charge of refrigerant etc. The unit shall be compatible for BMS operation- Necessary relay card /soft integrator to be provided. The unit should comply with Min C.O.P of 3.7. Unit coil fins to have hydrophilic coating. The unit to provide the rated capacity at 35°C outdoor ambient conditions. Vendor to select unit standby capacity with configuration equivalent to the highest installed compressor capacity inside the unit or 30% of total unit TR; whichever is higher.</p> <p>Preferred Make:Daikin, Mitsubishi Electric, Hitachi --Refrigerant used shall be CFC free gas R410A. --Outdoor units shall be suitable for delivering following cooling capacities at actual site condition.</p> <p>NOTE:- Vendor to select ODU MODULES as per best Available Configuration. Below mentioned capacities are minimum cooling requirements. Standby capacity shall be over and above these capacities.</p> <p>--Total cooling requirement : 33.50TR--Sixth floor</p>	1	Nos.				0.0000	0.00	INR Zero Only
179	<p>Supply and delivery at MDL site of Modulating outdoor units, with multi scroll compressors having Inverter Based Compressor based on Unit Configuration. The Unit should have Condenser fan, Electrical Accessories & Microprocessor Based Control panel, isolating valves and all the necessary accessories for proper functioning of the Condensing units and shall be suitable to outdoor application. The unit to be shipped with full charge of Refrigerant and oil, refrigeration-piping controls, first charge of refrigerant etc. The unit shall be compatible for BMS operation- Necessary relay card /soft integrator to be provided. The unit should comply with Min C.O.P of 3.7. Unit coil fins to have hydrophilic coating. The unit to provide the rated capacity at 35°C outdoor ambient conditions. Vendor to select unit standby capacity with configuration equivalent to the highest installed compressor capacity inside the unit or 30% of total unit TR; whichever is higher.</p> <p>Preferred Make:Daikin, Mitsubishi Electric, Hitachi --Refrigerant used shall be CFC free gas R410A. --Outdoor units shall be suitable for delivering following cooling capacities at actual site condition.</p> <p>NOTE:- Vendor to select ODU MODULES as per best Available Configuration. Below mentioned capacities are minimum cooling requirements. Standby capacity shall be over and above these capacities.</p> <p>--Total cooling requirement : 9.50TR--Fourth floor Data Centre</p>	1	Nos.				0.0000	0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	Unit Rate in Figures To be entered by the Bidder	Service Tax including Swachh Bharat Cess and Kisan Vikas Cess	WCT under VAT	TOTAL AMOUNT Without Taxes	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
1	2	4	5	13	14	15	53	54	55
180	Supply and delivery at MDL site of Ductable, Cassette & Hi-Wall Type Units as follows in VRF System suitable for functioning with above outdoor units: Indoor Fan coil unit consisting of minimum 3 row-cooling coil blower with motor, filters, drain pan & casing. The indoor unit shall be complete with all necessary controls including air and refrigerant temperature sensors and electronic expansion valves thus giving individual, variable refrigerant flow. The electronic expansion valve shall be controlled by the 'fuzzy logic' microprocessor control system via a control board within the indoor unit that includes a unit address recognition system. Indoor cassette units shall have standard inbuilt condensate drain pump along with all the accessories as supplied by the manufacturer. The indoor units shall be suitable for a power supply of 240V/ 1 phase/ 50Hz OR 415V / 3 phase / 50Hz. HIGH WALL UNITS WITH CORDLESS REMOTE CONTROLLER AND STANDARD BATTERIES AND HOLDER --Min. TR requirement: 1.00TR	38	Nos.				0.0000	0.00	INR Zero Only
181	Supply and delivery at MDL site of Ductable, Cassette & Hi-Wall Type Units as follows in VRF System suitable for functioning with above outdoor units: Indoor Fan coil unit consisting of minimum 3 row-cooling coil blower with motor, filters, drain pan & casing. The indoor unit shall be complete with all necessary controls including air and refrigerant temperature sensors and electronic expansion valves thus giving individual, variable refrigerant flow. The electronic expansion valve shall be controlled by the 'fuzzy logic' microprocessor control system via a control board within the indoor unit that includes a unit address recognition system. Indoor cassette units shall have standard inbuilt condensate drain pump along with all the accessories as supplied by the manufacturer. The indoor units shall be suitable for a power supply of 240V/ 1 phase/ 50Hz OR 415V / 3 phase / 50Hz. HIGH WALL UNITS WITH CORDLESS REMOTE CONTROLLER AND STANDARD BATTERIES AND HOLDER --Min. TR requirement: 1.50TR	23	Nos.				0.0000	0.00	INR Zero Only
182	Supply and delivery at MDL site of Ductable, Cassette & Hi-Wall Type Units as follows in VRF System suitable for functioning with above outdoor units: Indoor Fan coil unit consisting of minimum 3 row-cooling coil blower with motor, filters, drain pan & casing. The indoor unit shall be complete with all necessary controls including air and refrigerant temperature sensors and electronic expansion valves thus giving individual, variable refrigerant flow. The electronic expansion valve shall be controlled by the 'fuzzy logic' microprocessor control system via a control board within the indoor unit that includes a unit address recognition system. Indoor cassette units shall have standard inbuilt condensate drain pump along with all the accessories as supplied by the manufacturer. The indoor units shall be suitable for a power supply of 240V/ 1 phase/ 50Hz OR 415V / 3 phase / 50Hz. HIGH WALL UNITS WITH CORDLESS REMOTE CONTROLLER AND STANDARD BATTERIES AND HOLDER --Min. TR requirement: 2.00TR	35	Nos.				0.0000	0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	Unit Rate in Figures To be entered by the Bidder	Service Tax including Swachh Bharat Cess and Kisan Vikas Cess	WCT under VAT	TOTAL AMOUNT Without Taxes	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
1	2	4	5	13	14	15	53	54	55
183	Supply and delivery at MDL site of Ductable, Cassette & Hi-Wall Type Units as follows in VRF System suitable for functioning with above outdoor units: Indoor Fan coil unit consisting of minimum 3 row-cooling coil blower with motor, filters, drain pan & casing. The indoor unit shall be complete with all necessary controls including air and refrigerant temperature sensors and electronic expansion valves thus giving individual, variable refrigerant flow. The electronic expansion valve shall be controlled by the 'fuzzy logic' microprocessor control system via a control board within the indoor unit that includes a unit address recognition system. Indoor cassette units shall have standard inbuilt condensate drain pump along with all the accessories as supplied by the manufacturer. The indoor units shall be suitable for a power supply of 240V / 1 phase / 50Hz OR 415V / 3 phase / 50Hz. DUCTABLE UNITS WITH CORDLESS REMOTE CONTROLLERS AND STANDARD BATTERIES AND HOLDER --Min. TR requirement: 3.0 TR	1	Nos.				0.0000	0.00	INR Zero Only
184	Supply and delivery at MDL site of Ductable, Cassette & Hi-Wall Type Units as follows in VRF System suitable for functioning with above outdoor units: Indoor Fan coil unit consisting of minimum 3 row-cooling coil blower with motor, filters, drain pan & casing. The indoor unit shall be complete with all necessary controls including air and refrigerant temperature sensors and electronic expansion valves thus giving individual, variable refrigerant flow. The electronic expansion valve shall be controlled by the 'fuzzy logic' microprocessor control system via a control board within the indoor unit that includes a unit address recognition system. Indoor cassette units shall have standard inbuilt condensate drain pump along with all the accessories as supplied by the manufacturer. The indoor units shall be suitable for a power supply of 240V / 1 phase / 50Hz OR 415V / 3 phase / 50Hz. DUCTABLE UNITS WITH CORDLESS REMOTE CONTROLLERS AND STANDARD BATTERIES AND HOLDER --Min. TR requirement: 4.5 TR	1	Nos.				0.0000	0.00	INR Zero Only
185	Supply and delivery at MDL site of Ductable, Cassette & Hi-Wall Type Units as follows in VRF System suitable for functioning with above outdoor units: Indoor Fan coil unit consisting of minimum 3 row-cooling coil blower with motor, filters, drain pan & casing. The indoor unit shall be complete with all necessary controls including air and refrigerant temperature sensors and electronic expansion valves thus giving individual, variable refrigerant flow. The electronic expansion valve shall be controlled by the 'fuzzy logic' microprocessor control system via a control board within the indoor unit that includes a unit address recognition system. Indoor cassette units shall have standard inbuilt condensate drain pump along with all the accessories as supplied by the manufacturer. The indoor units shall be suitable for a power supply of 240V / 1 phase / 50Hz OR 415V / 3 phase / 50Hz. CASSETTE UNITS WITH CORDLESS REMOTE CONTROLLERS AND STANDARD BATTERIES AND HOLDER --Min. TR requirement: 1.00 TR	30	Nos.				0.0000	0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	Unit Rate in Figures To be entered by the Bidder	Service Tax including Swachh Bharat Cess and Kisan Vikas Cess	WCT under VAT	TOTAL AMOUNT Without Taxes	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
1	2	4	5	13	14	15	53	54	55
186	Supply and delivery at MDL site of Ductable, Cassette & Hi-Wall Type Units as follows in VRF System suitable for functioning with above outdoor units: Indoor Fan coil unit consisting of minimum 3 row-cooling coil blower with motor, filters, drain pan & casing. The indoor unit shall be complete with all necessary controls including air and refrigerant temperature sensors and electronic expansion valves thus giving individual, variable refrigerant flow. The electronic expansion valve shall be controlled by the 'fuzzy logic' microprocessor control system via a control board within the indoor unit that includes a unit address recognition system. Indoor cassette units shall have standard inbuilt condensate drain pump along with all the accessories as supplied by the manufacturer. The indoor units shall be suitable for a power supply of 240V/ 1 phase/ 50Hz OR 415V / 3 phase / 50Hz. CASSETTE UNITS WITH CORDLESS REMOTE CONTROLLERS AND STANDARD BATTERIES AND HOLDER Min. TR requirement: 1.50TR	22	Nos.				0.0000	0.00	INR Zero Only
187	Supply and delivery at MDL site of Ductable, Cassette & Hi-Wall Type Units as follows in VRF System suitable for functioning with above outdoor units: Indoor Fan coil unit consisting of minimum 3 row-cooling coil blower with motor, filters, drain pan & casing. The indoor unit shall be complete with all necessary controls including air and refrigerant temperature sensors and electronic expansion valves thus giving individual, variable refrigerant flow. The electronic expansion valve shall be controlled by the 'fuzzy logic' microprocessor control system via a control board within the indoor unit that includes a unit address recognition system. Indoor cassette units shall have standard inbuilt condensate drain pump along with all the accessories as supplied by the manufacturer. The indoor units shall be suitable for a power supply of 240V/ 1 phase/ 50Hz OR 415V / 3 phase / 50Hz. CASSETTE UNITS WITH CORDLESS REMOTE CONTROLLERS AND STANDARD BATTERIES AND HOLDER --Min. TR requirement: 2.0 TR	18	Nos.				0.0000	0.00	INR Zero Only
188	SITC of condensate drain pump kit along with all necessary accessories.	96	Nos.				0.0000	0.00	INR Zero Only
189	SITC of AHU Control box with Linear expansion valve and necessary accessories	2	Nos.				0.0000	0.00	INR Zero Only
190	SITC of Refnet joint, Linear expansion valve with all necessary accessories.	340	Nos.				0.0000	0.00	INR Zero Only
191	SITC of Central Remote Control Basic type with batteries and holder.	8	NOS.				0.0000	0.00	INR Zero Only
192	Providing and Fixing of removable core, AL Powder Coated Supply / Return Air Ceiling grills with internally operated volume control damper of powder coated aluminum construction, the damper blades shall be black powder coated finish along with GI Plenum box and flange for duct connection. --SqM. Rate of Grills	3	m2				0.0000	0.00	INR Zero Only
193	Providing and Fixing of removable core, AL Powder Coated Supply / Return Air Ceiling grills with internally operated volume control damper of powder coated aluminum construction, the damper blades shall be black powder coated finish along with GI Plenum box and flange for duct connection. --Volume Control Damper	1	Nos				0.0000	0.00	INR Zero Only
194	Supply, Installation, Testing & Commissioning of Seamless heavy gauge Copper piping insulated with nitrile rubber of 25 mm thickness. Refrigeration piping will have to be taken in the piping rack /G.I cable tray and cable tray cover with necessary support, saddles, hangers ,anchor fastners, necessary bends, tees and fittings,(considering two pipe for Gas & Liquid). Nitrogen Pressure Test of the Piping, and Vacuumizing before pre-charging is part of the piping installation scope. Preferred Insulation Make: Armacell/Superlon/K- Flex Note: Below quantities of refrigerant piping are based on the Indoor & Outdoor unit locations as shown in the tender drawings for specified configuration. Contractor should prepare shop drawing along with refrigerant piping drawing	325	M				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
195	<p>Supply, Installation, Testing & Commissioning of Seamless heavy gauge Copper piping insulated with nitrile rubber of 25 mm thickness. Refrigeration piping will have to be taken in the piping rack /G.I cable tray and cable tray cover with necessary support, saddles, hangers ,anchor fastners, necessary bends, tees and fittings,(considering two pipe for Gas & Liquid).</p> <p>Nitrogen Pressure Test of the Piping, and Vacuumizing before pre-charging is part of the piping installation scope.</p> <p>Preferred Insulation Make: Armacell/Superlon/K- Flex</p> <p>Note: Below quantities of refrigerant piping are based on the Indoor & Outdoor unit locations as shown in the tender drawings for specified configuration.</p> <p>Contractor should prepare shop drawing along with refrigerant piping drawing based on the system configuration being offered by them and confirm the refrigerant piping sizing and quantities & get it approved by the Consultant.</p> <p>--F 31.75 mm</p>	90	M				0.0000	0.00	INR Zero Only
196	<p>Supply, Installation, Testing & Commissioning of Seamless heavy gauge Copper piping insulated with nitrile rubber of 25 mm thickness. Refrigeration piping will have to be taken in the piping rack /G.I cable tray and cable tray cover with necessary support, saddles, hangers ,anchor fastners, necessary bends, tees and fittings,(considering two pipe for Gas & Liquid).</p> <p>Nitrogen Pressure Test of the Piping, and Vacuumizing before pre-charging is part of the piping installation scope.</p> <p>Preferred Insulation Make: Armacell/Superlon/K- Flex</p> <p>Note: Below quantities of refrigerant piping are based on the Indoor & Outdoor unit locations as shown in the tender drawings for specified configuration.</p> <p>Contractor should prepare shop drawing along with refrigerant piping drawing based on the system configuration being offered by them and confirm the refrigerant piping sizing and quantities & get it approved by the Consultant.</p> <p>--F 28.6 mm</p>	120	M				0.0000	0.00	INR Zero Only
197	<p>Supply, Installation, Testing & Commissioning of Seamless heavy gauge Copper piping insulated with nitrile rubber of 25 mm thickness. Refrigeration piping will have to be taken in the piping rack /G.I cable tray and cable tray cover with necessary support, saddles, hangers ,anchor fastners, necessary bends, tees and fittings,(considering two pipe for Gas & Liquid).</p> <p>Nitrogen Pressure Test of the Piping, and Vacuumizing before pre-charging is part of the piping installation scope.</p> <p>Preferred Insulation Make: Armacell/Superlon/K- Flex</p> <p>Note: Below quantities of refrigerant piping are based on the Indoor & Outdoor unit locations as shown in the tender drawings for specified configuration.</p> <p>Contractor should prepare shop drawing along with refrigerant piping drawing based on the system configuration being offered by them and confirm the refrigerant piping sizing and quantities & get it approved by the Consultant.</p> <p>-- F 25.4 mm</p>	130	M				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
198	<p>Supply, Installation, Testing & Commissioning of Seamless heavy gauge Copper piping insulated with nitrile rubber of 25 mm thickness. Refrigeration piping will have to be taken in the piping rack /G.I cable tray and cable tray cover with necessary support, saddles, hangers ,anchor fastners, necessary bends, tees and fittings,(considering two pipe for Gas & Liquid).</p> <p>Nitrogen Pressure Test of the Piping, and Vacuumizing before pre-charging is part of the piping installation scope.</p> <p>Preferred Insulation Make: Armacell/Superlon/K- Flex</p> <p>Note: Below quantities of refrigerant piping are based on the Indoor & Outdoor unit locations as shown in the tender drawings for specified configuration.</p> <p>Contractor should prepare shop drawing along with refrigerant piping drawing based on the system configuration being offered by them and confirm the refrigerant piping sizing and quantities & get it approved by the Consultant.</p> <p>--F 22.2 mm</p>	200	M				0.0000	0.00	INR Zero Only
199	<p>Supply, Installation, Testing & Commissioning of Seamless heavy gauge Copper piping insulated with nitrile rubber of 25 mm thickness. Refrigeration piping will have to be taken in the piping rack /G.I cable tray and cable tray cover with necessary support, saddles, hangers ,anchor fastners, necessary bends, tees and fittings,(considering two pipe for Gas & Liquid).</p> <p>Nitrogen Pressure Test of the Piping, and Vacuumizing before pre-charging is part of the piping installation scope.</p> <p>Preferred Insulation Make: Armacell/Superlon/K- Flex</p> <p>Note: Below quantities of refrigerant piping are based on the Indoor & Outdoor unit locations as shown in the tender drawings for specified configuration.</p> <p>Contractor should prepare shop drawing along with refrigerant piping drawing based on the system configuration being offered by them and confirm the refrigerant piping sizing and quantities & get it approved by the Consultant.</p> <p>--F 19.05 mm</p>	550	M				0.0000	0.00	INR Zero Only
200	<p>Supply, Installation, Testing & Commissioning of Seamless heavy gauge Copper piping insulated with nitrile rubber of 25 mm thickness. Refrigeration piping will have to be taken in the piping rack /G.I cable tray and cable tray cover with necessary support, saddles, hangers ,anchor fastners, necessary bends, tees and fittings,(considering two pipe for Gas & Liquid).</p> <p>Nitrogen Pressure Test of the Piping, and Vacuumizing before pre-charging is part of the piping installation scope.</p> <p>Preferred Insulation Make: Armacell/Superlon/K- Flex</p> <p>Note: Below quantities of refrigerant piping are based on the Indoor & Outdoor unit locations as shown in the tender drawings for specified configuration.</p> <p>Contractor should prepare shop drawing along with refrigerant piping drawing based on the system configuration being offered by them and confirm the refrigerant piping sizing and quantities & get it approved by the Consultant.</p> <p>--F 15.9 mm</p>	715	M				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
201	Supply, Installation, Testing & Commissioning of Seamless heavy gauge Copper piping insulated with nitrile rubber of 25 mm thickness. Refrigeration piping will have to be taken in the piping rack /G.I cable tray and cable tray cover with necessary support, saddles, hangers ,anchor fastners, necessary bends, tees and fittings,(considering two pipe for Gas & Liquid). Nitrogen Pressure Test of the Piping, and Vacuumizing before pre-charging is part of the piping installation scope. Preferred Insulation Make: Armacell/Superlon/K- Flex Note: Below quantities of refrigerant piping are based on the Indoor & Outdoor unit locations as shown in the tender drawings for specified configuration. Contractor should prepare shop drawing along with refrigerant piping drawing based on the system configuration being offered by them and confirm the refrigerant piping sizing and quantities & get it approved by the Consultant. --F 12.7 mm	240	M				0.0000	0.00	INR Zero Only
202	Supply, Installation, Testing & Commissioning of Seamless heavy gauge Copper piping insulated with nitrile rubber of 25 mm thickness. Refrigeration piping will have to be taken in the piping rack /G.I cable tray and cable tray cover with necessary support, saddles, hangers ,anchor fastners, necessary bends, tees and fittings,(considering two pipe for Gas & Liquid). Nitrogen Pressure Test of the Piping, and Vacuumizing before pre-charging is part of the piping installation scope. Preferred Insulation Make: Armacell/Superlon/K- Flex Note: Below quantities of refrigerant piping are based on the Indoor & Outdoor unit locations as shown in the tender drawings for specified configuration. Contractor should prepare shop drawing along with refrigerant piping drawing based on the system configuration being offered by them and confirm the refrigerant piping sizing and quantities & get it approved by the Consultant. --F 9.52 mm	500	M				0.0000	0.00	INR Zero Only
203	Supply, Installation, Testing & Commissioning of Seamless heavy gauge Copper piping insulated with nitrile rubber of 25 mm thickness. Refrigeration piping will have to be taken in the piping rack /G.I cable tray and cable tray cover with necessary support, saddles, hangers ,anchor fastners, necessary bends, tees and fittings,(considering two pipe for Gas & Liquid). Nitrogen Pressure Test of the Piping, and Vacuumizing before pre-charging is part of the piping installation scope. Preferred Insulation Make: Armacell/Superlon/K- Flex Note: Below quantities of refrigerant piping are based on the Indoor & Outdoor unit locations as shown in the tender drawings for specified configuration. Contractor should prepare shop drawing along with refrigerant piping drawing based on the system configuration being offered by them and confirm the refrigerant piping sizing and quantities & get it approved by the Consultant. --F 6.35 mm	500	M				0.0000	0.00	INR Zero Only
204	Providing and fixing of Control Cabling between the indoor units & outdoor units. 4C x 2.5 Sq.mm 2XWY XLPE insulated, PVC inner sheathed, copper conductor, armoured , FRLS PVC outer sheathed cables	7000	M				0.0000	0.00	INR Zero Only
205	Supply, fabrication, fixing in positions with suitable GI angle supports GI perforated cable trays bolted type with all necessary bends, connectors etc. and fabricated using minimum 14 gauge CRCA sheet and maximum width of 600 mm & height of 50 mm. Further the rate shall also include supporting of these trays from ceiling using minimum 10mm fully threaded GI Rods and anchor bolts, all complete as required.	500	M				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
206	Supply, fabrication, fixing in positions with suitable GI angle supports GI perforated cable trays bolted type with all necessary bends, connectors etc. and fabricated using minimum 14 gauge CRCA sheet and maximum width of 300 mm & height of 50 mm. Further the rate shall also include supporting of these trays from ceiling using minimum 10mm fully threaded GI Rods and anchor bolts, all complete as required.	800	M				0.0000	0.00	INR Zero Only
207	Supply, fabrication, fixing in positions with suitable GI angle supports GI perforated cable trays bolted type with all necessary bends, connectors etc. and fabricated using minimum 14 gauge CRCA sheet and maximum width of 150 mm & height of 50 mm. Further the rate shall also include supporting of these trays from ceiling using minimum 10mm fully threaded GI Rods and anchor bolts, all complete as required.	1000	M				0.0000	0.00	INR Zero Only
208	Supply, fabrication, fixing in positions with suitable GI angle supports GI perforated cable trays bolted type with all necessary bends, connectors etc. and fabricated using minimum 14 gauge CRCA sheet and maximum width of 50 mm & height of 50 mm. Further the rate shall also include supporting of these trays from ceiling using minimum 10mm fully threaded GI Rods and anchor bolts, all complete as required.	1000	M				0.0000	0.00	INR Zero Only
209	Providing and fixing of Drain piping in CPVC with all fittings, bends, supports and clamps, including chasing and drilling holes in walls. Preferred Make: CPVC PIPE: PRINCE / ASTRAL; INSULATION : SUPERLON/K-FLEX/ARMACELL --20 mm dia. CPVC pipe with 6 mm thick nitrile rubber insulation.	600	M				0.0000	0.00	INR Zero Only
210	Providing and fixing of Drain piping in CPVC with all fittings, bends, supports and clamps, including chasing and drilling holes in walls. Preferred Make: CPVC PIPE: PRINCE / ASTRAL; INSULATION : SUPERLON/K-FLEX/ARMACELL --25 mm dia. CPVC pipe with 6 mm thick nitrile rubber insulation.	200	M				0.0000	0.00	INR Zero Only
211	Providing and fixing of Drain piping in CPVC with all fittings, bends, supports and clamps, including chasing and drilling holes in walls. --20 mm dia. CPVC pipe.	100	M				0.0000	0.00	INR Zero Only
212	Providing and fixing of Drain piping in CPVC with all fittings, bends, supports and clamps, including chasing and drilling holes in walls. --25 mm dia. CPVC pipe.	50	M				0.0000	0.00	INR Zero Only
213	Providing and fixing of Drain piping in CPVC with all fittings, bends, supports and clamps, including chasing and drilling holes in walls. --32 mm dia. CPVC pipe.	200	M				0.0000	0.00	INR Zero Only
214	Providing and fixing of Drain piping in CPVC with all fittings, bends, supports and clamps, including chasing and drilling holes in walls. --40 mm dia. CPVC pipe.	450	M				0.0000	0.00	INR Zero Only
215	Supply, Installation, Testing, Commissioning of Galvanized Sheet Sheet of 120 GSM Rectangular Ducting as per specification complete with Tie rod supports, nut-bolts, neoprene gaskets duly installed. Leak Testing of ducts at site shall be carried out as per SMACNA standard. 24 G galvanized sheet steel	10	m2				0.0000	0.00	INR Zero Only
216	Providing and fixing of Acoustic lining for ducting with 12.5 mm thick resin bonded fiberglass rigid boards having 24 kg/cu.mt density, fixed with Nut Bolts & covered with RP tissue paper & 26 G perforated Aluminium sheet as per routing.	10	m2				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
217	Providing and Fixing of 19mm Closed Cell Elastomeric Nitrile Rubber Insulation having Density Between 40 to 60 Kg/m3. The Insulation Material to be FM Approved. The insulation shall have fire performance such that it passes Class 'O' and Class 1 for surface spread of flame. All insulation joints to be sealed with minimum 3" width 3mm Thk Self Adhesive tape of same material. The width of the sheet is 1000mm. Vendor to provide the certificates of water permeability, Moisture Diffusion Resistance Factor or 'μ' value, Class O & Class 1.	10	m2				0.0000	0.00	INR Zero Only
218	Providing and fixing of single phase, movable, Portable dehumidification unit of exhibition area. (100 CFM) Preferred Make: Ampha, Origin, Advance.	1	Nos				0.0000	0.00	INR Zero Only
219	M. S. hot dip galvanized structural work fabricated as per the site requirement/design for HVAC works.	2000	Kg				0.0000	0.00	INR Zero Only
220	Installation, Testing and Commissioning of VRF outdoor unit all complete alongwith all accessories, copper refrigerant piping, necessary electrical installation with cabling, drain piping with adequate charging of refrigerant gas same as that provided by factory pre charged gas for complete length of copper piping from each indoor to respective outdoor units etc. all complete as directed by MDL Engineers. Cost includes lifting, shifting, positioning at site as per drawing, the outdoor units to the terrace floor and necessary top up refrigerant gas. --Total cooling requirement : 30.5TR--Ground floor	1	Nos.				0.0000	0.00	INR Zero Only
221	Installation, Testing and Commissioning of VRF outdoor unit all complete alongwith all accessories, copper refrigerant piping, necessary electrical installation with cabling, drain piping with adequate charging of refrigerant gas same as that provided by factory pre charged gas for complete length of copper piping from each indoor to respective outdoor units etc. all complete as directed by MDL Engineers. Cost includes lifting, shifting, positioning at site as per drawing, the outdoor units to the terrace floor and necessary top up refrigerant gas. --Total cooling requirement : 35.00TR--First floor	1	Nos.				0.0000	0.00	INR Zero Only
222	Installation, Testing and Commissioning of VRF outdoor unit all complete alongwith all accessories, copper refrigerant piping, necessary electrical installation with cabling, drain piping with adequate charging of refrigerant gas same as that provided by factory pre charged gas for complete length of copper piping from each indoor to respective outdoor units etc. all complete as directed by MDL Engineers. Cost includes lifting, shifting, positioning at site as per drawing, the outdoor units to the terrace floor and necessary top up refrigerant gas. --Total cooling requirement : 44.50TR--Second floor	1	Nos.				0.0000	0.00	INR Zero Only
223	Installation, Testing and Commissioning of VRF outdoor unit all complete alongwith all accessories, copper refrigerant piping, necessary electrical installation with cabling, drain piping with adequate charging of refrigerant gas same as that provided by factory pre charged gas for complete length of copper piping from each indoor to respective outdoor units etc. all complete as directed by MDL Engineers. Cost includes lifting, shifting, positioning at site as per drawing, the outdoor units to the terrace floor and necessary top up refrigerant gas. --Total cooling requirement : 29.00TR--Third floor	1	Nos.				0.0000	0.00	INR Zero Only

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1	2	4	5	13	14	15	53	54	55
224	Installation, Testing and Commissioning of VRF outdoor unit all complete alongwith all accessories, copper refrigerant piping, necessary electrical installation with cabling, drain piping with adequate charging of refrigerant gas same as that provided by factory pre charged gas for complete length of copper piping from each indoor to respective outdoor units etc. all complete as directed by MDL Engineers. Cost includes lifting, shifting, positioning at site as per drawing, the outdoor units to the terrace floor and necessary top up refrigerant gas. --Total cooling requirement : 26.00TR--Fourth floor	1	Nos.				0.0000	0.00	INR Zero Only
225	Installation, Testing and Commissioning of VRF outdoor unit all complete alongwith all accessories, copper refrigerant piping, necessary electrical installation with cabling, drain piping with adequate charging of refrigerant gas same as that provided by factory pre charged gas for complete length of copper piping from each indoor to respective outdoor units etc. all complete as directed by MDL Engineers. Cost includes lifting, shifting, positioning at site as per drawing, the outdoor units to the terrace floor and necessary top up refrigerant gas. --Total cooling requirement : 41.00TR--Fifth floor	1	Nos.				0.0000	0.00	INR Zero Only
226	Installation, Testing and Commissioning of VRF outdoor unit all complete alongwith all accessories, copper refrigerant piping, necessary electrical installation with cabling, drain piping with adequate charging of refrigerant gas same as that provided by factory pre charged gas for complete length of copper piping from each indoor to respective outdoor units etc. all complete as directed by MDL Engineers. Cost includes lifting, shifting, positioning at site as per drawing, the outdoor units to the terrace floor and necessary top up refrigerant gas. --Total cooling requirement : 33.50TR--Sixth floor	1	Nos.				0.0000	0.00	INR Zero Only
227	Installation, Testing and Commissioning of VRF outdoor unit all complete alongwith all accessories, copper refrigerant piping, necessary electrical installation with cabling, drain piping with adequate charging of refrigerant gas same as that provided by factory pre charged gas for complete length of copper piping from each indoor to respective outdoor units etc. all complete as directed by MDL Engineers. Cost includes lifting, shifting, positioning at site as per drawing, the outdoor units to the terrace floor and necessary top up refrigerant gas. --Total cooling requirement : 9.50TR--Fourth floor Data Centre	1	Nos.				0.0000	0.00	INR Zero Only
228	Installation, Testing and Commissioning of following Ductable, Cassette & Hi-Wall Type Units as follows in VRF System complete along with cordless remote controllers, accessories, copper refrigerant piping, necessary electrical installation with cabling, drain piping and drain pump kit , adequate charging of refrigerant gas same as that provided by factory pre charged gas for complete length of copper piping from each indoor to respective outdoor units etc. all complete as directed by MDL Engineers. Installation also includes cost of lifting, shifting, positioning at site as per drawing, the Indoor Units to the respective locations on each floor as per drawing/as directed as MDL Engineers. HIGH WALL UNITS WITH CORDLESS REMOTE CONTROLLER AND STANDARD BATTERIES AND HOLDER --Min. TR requirement: 1.00TR	38	Nos.				0.0000	0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	Unit Rate in Figures To be entered by the Bidder	Service Tax including Swachh Bharat Cess and Kisan Vikas Cess	WCT under VAT	TOTAL AMOUNT Without Taxes	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
1	2	4	5	13	14	15	53	54	55
229	Installation, Testing and Commissioning of following Ductable, Cassette & Hi-Wall Type Units as follows in VRF System complete along with cordless remote controllers, accessories, copper refrigerant piping, necessary electrical installation with cabling, drain piping and drain pump kit , adequate charging of refrigerant gas same as that provided by factory pre charged gas for complete length of copper piping from each indoor to respective outdoor units etc. all complete as directed by MDL Engineers. Installation also includes cost of lifting, shifting, positioning at site as per drawing, the Indoor Units to the respective locations on each floor as per drawing/as directed as MDL Engineers. HIGH WALL UNITS WITH CORDESS REMOTE CONTROLLER AND STANDARD BATTERIES AND HOLDER --Min. TR requirement: 1.50TR	23	Nos.				0.0000	0.00	INR Zero Only
230	Installation, Testing and Commissioning of following Ductable, Cassette & Hi-Wall Type Units as follows in VRF System complete along with cordless remote controllers, accessories, copper refrigerant piping, necessary electrical installation with cabling, drain piping and drain pump kit , adequate charging of refrigerant gas same as that provided by factory pre charged gas for complete length of copper piping from each indoor to respective outdoor units etc. all complete as directed by MDL Engineers. Installation also includes cost of lifting, shifting, positioning at site as per drawing, the Indoor Units to the respective locations on each floor as per drawing/as directed as MDL Engineers. HIGH WALL UNITS WITH CORDESS REMOTE CONTROLLER AND STANDARD BATTERIES AND HOLDER --Min. TR requirement: 2.00TR	35	Nos.				0.0000	0.00	INR Zero Only
231	Installation, Testing and Commissioning of following Ductable, Cassette & Hi-Wall Type Units as follows in VRF System complete along with cordless remote controllers, accessories, copper refrigerant piping, necessary electrical installation with cabling, drain piping and drain pump kit , adequate charging of refrigerant gas same as that provided by factory pre charged gas for complete length of copper piping from each indoor to respective outdoor units etc. all complete as directed by MDL Engineers. Installation also includes cost of lifting, shifting, positioning at site as per drawing, the Indoor Units to the respective locations on each floor as per drawing/as directed as MDL Engineers. DUCTABLE UNITS WITH CORDESS REMOTE CONTROLLERS AND STANDARD BATTERIES AND HOLDER --Min. TR requirement: 3.0 TR (Refer Note above)	1	Nos.				0.0000	0.00	INR Zero Only
232	Installation, Testing and Commissioning of following Ductable, Cassette & Hi-Wall Type Units as follows in VRF System complete along with cordless remote controllers, accessories, copper refrigerant piping, necessary electrical installation with cabling, drain piping and drain pump kit , adequate charging of refrigerant gas same as that provided by factory pre charged gas for complete length of copper piping from each indoor to respective outdoor units etc. all complete as directed by MDL Engineers. Installation also includes cost of lifting, shifting, positioning at site as per drawing, the Indoor Units to the respective locations on each floor as per drawing/as directed as MDL Engineers. DUCTABLE UNITS WITH CORDESS REMOTE CONTROLLERS AND STANDARD BATTERIES AND HOLDER --Min. TR requirement: 4.5 TR (Refer Note above)	1	Nos.				0.0000	0.00	INR Zero Only
233	CASSETTE UNITS WITH CORDESS REMOTE CONTROLLERS AND STANDARD BATTERIES AND HOLDER Min. TR requirement: 1.00TR	30	Nos.				0.0000	0.00	INR Zero Only
234	CASSETTE UNITS WITH CORDESS REMOTE CONTROLLERS AND STANDARD BATTERIES AND HOLDER Min. TR requirement: 1.50TR	22	Nos.				0.0000	0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	Unit Rate in Figures To be entered by the Bidder	Service Tax including Swachh Bharat Cess and Kisan Vikas Cess	WCT under VAT	TOTAL AMOUNT Without Taxes	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
1	2	4	5	13	14	15	53	54	55
235	CASSETTE UNITS WITH CORDLESS REMOTE CONTROLLERS AND STANDARD BATTERIES AND HOLDER Min. TR requirement: 2.0 TR	18	Nos.				0.0000	0.00	INR Zero Only
236	Providing core cuts in RCC slabs/RCC wall etc. --100 mm dia	2	nos				0.0000	0.00	INR Zero Only
237	Providing core cuts in RCC slabs/RCC wall etc. --50 mm dia	2	nos				0.0000	0.00	INR Zero Only
238	Supply, installation, testing and commissioning of wall mounted air curtain along with the interlock with door and making good as directed by MDL engineers. Aircurtain to be in 18swg Al powder coated construction with 2 speed control. Width of the aircurtain to be 2700mm and 2.5 m length air throw. Preferred Make: Russel/Ruskin/Airtech	2	nos				0.0000	0.00	INR Zero Only
239	Dismantling & removing existing DX Split High Wall Indoor & Outdoor Unit, piping work & all its accessories etc. all complete in all terms including lifting and shifting the same to a proper place designated by client on site.	17	nos				0.0000	0.00	INR Zero Only
240	Comprehensive, all inclusive Annual Maintenance Charges for entire VRF System after end of 1 year of Defects Liability Period (Inclusive of 1 Year Warranty period). The VRF System shall include all items covered in Electrical, Electronic and Mechanical devices as per installation. --AMC charges for First Year , after completion of Defect Liability Period	1	LS				0.0000	0.00	INR Zero Only
241	Comprehensive, all inclusive Annual Maintenance Charges for entire VRF System after end of 1 year of Defects Liability Period (Inclusive of 1 Year Warranty period). The VRF System shall include all items covered in Electrical, Electronic and Mechanical devices as per installation. --AMC charges for Second Year, after completion of Defect Liability Period	1	LS				0.0000	0.00	INR Zero Only
242	Comprehensive, all inclusive Annual Maintenance Charges for entire VRF System after end of 1 year of Defects Liability Period (Inclusive of 1 Year Warranty period). The VRF System shall include all items covered in Electrical, Electronic and Mechanical devices as per installation. --AMC charges for Third Year , after completion of Defect Liability Period	1	LS				0.0000	0.00	INR Zero Only
243	BUY BACK ITEM Buy Back Price (Rebate) to be quoted by the Bidder for dismantling existing Split / Window AC units (outdoor & indoor) -133 Nos along with its piping & all accessories and taking away the same outside MDL premises as directed by Engineer in Charge including loading, transporting, unloading etc all complete. It shall be taken out under buy back scheme for the price as quoted. (The bidder is required to offer their quote subject to minimum of ₹ 6, 16,944/- as buy back price)	1.00	LS				0.00	0.00	INR Zero Only
Total in Figures							0.0000	0.0000	INR Zero Only
Quoted Rate in Words						TOTAL OF ALL ITEM - REBATE		0.0000	INR Zero Only