

**PRICE BID (PART-II)**  
**BILL OF QUANTITIES**  
**(To be submitted online)**

**Sub: Modernization of 5<sup>th</sup> Floor Mogul House Library, SY, MDL, Mumbai.**

**Ref: MDL Tender No.190000180**  
**A. CIVIL WORK**

S.N.	Item Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Demolishing brick work in cement mortar manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to Municipal dumping ground as per direction of Engineer-in-charge.	Cu.m	18.00	₹ 2,567.63	₹ 46,217.34
2	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material to Municipal dumping ground and stacking of serviceable material in respective storage bins in MDL or 50 meters lead as directed by Engineer-in-charge.	sqm	200.00	₹ 50.52	₹ 10,104.00
3	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking in designated MDLs Wood/Steel scrap bins:				
	Of area up to 3 sq. metres.	Nos	33.00	₹ 328.84	₹ 10,851.72
4	Dismantling carefully floor & wall tile work laid in cement mortar & carting away the same outside MDL to Municipal dumpig yard complete.				
	For tile thickness upto 25mm	sqm	325.00	₹ 65.72	₹ 21,359.00
5	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :				
	15 mm to 40 mm nominal bore	metre	25.00	₹ 134.82	₹ 3,370.50
6	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	Nos	1.00	₹ 808.90	₹ 808.90
7	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in-Charge.	each	1.00	₹ 120.26	₹ 120.26
8	Removing carefully existing with frame including disconnecting the sanitary and water supply connections, removing/Dismantling the same, lowering down, taking and disposing off unserviceable material outside MDL premises etc. all complete dismantled/removed material out of MDL premises - Urinal	Number	1.00	₹ 94.50	₹ 94.50
9	Removing carefully existing with frame including disconnecting the sanitary and water supply connections, removing/Dismantling the same, lowering down, taking and disposing off unserviceable material outside MDL premises etc. all completed dismantled/removed material out of MDL premises - Wash Basin	Number	1.00	₹ 94.50	₹ 94.50
10	Removing existing water proofing treatment from the toilet block including IPS/brickbat coba etc. without damages to structure, levelling and cleaning the surface for providing new specified water proofing treatment & carting away the same outside MDL to Municipal dumpig yard complete as directed by Engineer Incharge.	Cu.m	3.00	₹ 2,778.65	₹ 8,335.95
11	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to approved Muncipal dumping ground etc. complete.	sqm	314.00	₹ 70.61	₹ 22,171.54
12	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	Sq M	20.00	₹ 19.34	₹ 386.80
13	Dismantling of Steel works : Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding or GI Ducts etc. including dismembering and stacking within MDL MS Scrap bin etc. complete.	Kg	100.00	₹ 5.05	₹ 505.00
<b>B</b>	<b>RESTORATIVE REPAIR WORK</b>				
14	Exposing existing old and worn out RCC column, beams and slabs etc upto main reinforcement carefully by means of chisel and hammer including necessary scaffolding including carting away the material outside MDL premises to the municipal dumping ground etc complete as directed. (Surface area exposed after final chipping chiseling etc will only be measured and paid for)	Sqm	147.00	₹ 126.76	₹ 18,633.72
15	Providing and applying two coats of Rust preventive coating of IPNET-RB of Krishna Conchem or equivalent approved make after cleaning the existing surface from dust/ loose particles by applying air pressure etc complete as directed by Engineer In-charge.	Lit	25.00	₹ 320.86	₹ 8,021.50
16	Removing existing corrosion in MS/ torsteel bars by means of suitable light tapping wire brushing and applying rusticide rust converter of "Feovert" of Krishna conchem or equivalent approved make etc complete.	Lit.	25.00	₹ 137.55	₹ 3,438.75
17	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 in ratio of 1 (Polymer) :1 (Cement) by weight including cleaning of surface with air under pressure, and subsequent layer upto 10mm after hardening curing etc. all complete.(Polymer manufactured by of Krishna Conchem, sunanda, pidilite, fosroc, acro- chem, build core or equivalent) all complete as approved & as directed by Engineer.	Kg	4,873.00	₹ 39.72	₹ 1,93,555.56
18	Providing & laying Polycrete "A" of M/s. Sunanda or equivalent approved make using 12.5% of water by weight of polycrete mix over a bond coat of approved make in the ratio of 1 polymer : 1cement, curing etc;all complete at any location / Height	Kg	50.00	₹ 34.74	₹ 1,737.00
19	Providing & fixing in position Centering & shuttering including strutting, propping etc. and removal of form work of approved type as directed by Engineer in charge. For all height. Suspended floors, roofs, landings, balconies, access platform Beams, Columns, shelves etc.	Sq M	22.00	₹ 832.75	₹ 18,320.50

S.N.	Item Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
20	Providing & fixing in position reinforcement bars including straightening, cutting, bending, placing in position & binding with binding wires / welding where ever necessary for slabs / beams / columns / footing/pile etc. all complete as directed at any location ( Lapping / chairs will be measured & paid). Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	187.00	₹ 97.39	₹ 18,211.93
21	Providing Brick masonry with conventional / IS type/1st class bricks one brick thick including scaffolding, watterring, racking out joints etc. complete in superstructure above plinth level up to floor V level including scaffolding, curing, Cement mortar 1:4 (1 cement :4 coarse sand) etc. as directed by Engg-in-Charge.	Sqm.	6.00	₹ 1,105.96	₹ 6,635.76
22	Providing Brick masonry with conventional / IS type/1st class bricks of greater than one brick thickness including scaffolding, watterring, racking out joints etc. complete in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand) etc. complete as directed by Engg-in-Charge.	Cu M	5.00	₹ 9,247.16	₹ 46,235.80
23	Providing and fixing chicken mesh (Ref IS 3150) of 19 size of aperture at the junction of RCC members and brickwork of approved quality including fixing mesh in position by necessary nailing in concrete or BB masonry and or tying by binding wire	Sqm	8.00	₹ 554.20	₹ 4,433.60
24	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:4 to concrete or brick surfaces, in all position including scaffolding and curing etc.complete.	Sq M	367.00	₹ 392.50	₹ 1,44,047.50
25	Providing and applying 20 mm thick waterproof cement plaster(1:4) in two coats for external surface mixed with approved waterproofing material as per manufacturer specification, curing etc; upto 10m height etc. all complete as directed.	Sq M	42.00	₹ 436.88	₹ 18,348.96
26	"Providing & laying water proofing treatment to the toilet flooring by giving injections with cement solution mixed with waterproofing compound into the floor slab so as to make it consistent, homogenous and impervious against leakage, seepage etc. The sunk portion shall then be covered with necessary brick bat waterproof coba in C.M.(1:5) of 100mm average thickness in required slope mixed with approved waterproofing compound as per manufacturer's specifications finished rough with jointless waterproof cement plaster in C.M.(1:3) 12mm to 15mm thk in all positions extending the water proofing upto 300 mm height, curing, leakage test after impounding the water for 7 days, etc. complete with 5 years guarantee etc.(Measurement in plan area ).	Sq M	10.00	₹ 1,887.06	₹ 18,870.60
27	Extra for providing additional thickness of brick bats over average thickness of 100mm in 1:5 cement mortar mixed with waterproofing compound of approved make as per manufacturers specification as directed	Cu M	3.00	₹ 5,394.24	₹ 16,182.72
28	Providing and erecting 600 mm deep Pantry counter in shape and design as directed. With approved 20mm thk granite top of approved shade, including 18MM cement mortar and LOCAL marble base, with LOCAL marble verticals and shelves as indicated, making cut-outs for sink, plumbing fixtures, gas cylinder pipes, etc, cost to include for all granite vertical patties, facias, splash - back patties, granite skirting etc. Polishing including edge polishing, washing, cleaning, and finishing the wall surface below the counter with 200mm x 200mm ceramic white colour tile including necessary cement mortar backing complete details as directed. running length of counters to be measured along their centre lines and paid for. (Basic cost of granite Rs.2108/- Sq.mt.)	Rmt.	1.50	₹ 6,068.58	₹ 9,102.87
29	Providing and fixing Teakwood frames of size 25mm x 40mm with Shutters to pantry counters made out of 19mm Marine Plywood finished with 1mm approved laminate on both sides, melamine polish to all wood surface to match the shutter as per drawings and directed etc. complete.	Sq M	2.00	₹ 5,819.19	₹ 11,638.38
30	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.	Sq M	20.00	₹ 60.14	₹ 1,202.80
31	Providing and applying plaster of paris putty of upto 10mm thickness over plastered surface to prepare the surface even and smooth complete.	Sq M	167.00	₹ 296.74	₹ 49,555.58
32	Providing and Fixing Granite of 18mm thick gang saw cut mirror polished premoulded and prepolished machine cut for kitchen platforms, vanity counters, window sills, facias and similar location of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand ) with joints treated with white cement, mixed with matching pigments, epoxy touch ups, including rubbing, curing, moulding and polished to edge to give high gloss finish etc. complete at all levels--Granite of any colour and shade. rea of slab up to 0.5 Sqm (Basic Rate of Granite Rs 2140/- per Sq M)	Sq M	34.00	₹ 5,083.44	₹ 1,72,836.96
b	Providing and Fixing Granite of 18mm thick gang saw cut mirror polished premoulded and prepolished machine cut for kitchen platforms, vanity counters, window sills, facias and similar location of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand ) with joints treated with white cement, mixed with matching pigments, epoxy touch ups, including rubbing, curing, moulding and polished to edge to give high gloss finish etc. complete at all levels--Granite of any colour and shade. Area of slab above 0.5 Sqm. (Basic Rate of Granite Rs 2140/- per Sq M)	M2	1.00	₹ 4,807.50	₹ 4,807.50
33	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, dado over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete. Size of Tiles 600x 600mm (Basic rate of tile = Rs 1033)	Sq M	38.00	₹ 1,926.14	₹ 73,193.32

S.N.	Item Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
34	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached plasters, 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 five level, excluding the cost of centering, shuttering and finishing: 1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	Cu M	2.00	₹ 10,184.80	₹ 20,369.60
35	Providing and laying vitrified floor tiles, cladding, skirting in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), cladding fixed with approved adhesive, including grouting the joints with white cement and matching pigments etc., complete. (Basic Rate of Vitrified tile of Rs. 1897/-Sq.mt.)Size of Tile 1000x1000 mm	Sq M	290.00	₹ 2,388.31	₹ 6,92,609.90
36	Providing Protecting layer of Plaster of Paris minimum 12 mm thick over plastic polyethylene sheet of 1mm on new vitrified flooring work to avoid damage, wear & tear while shifting steel furniture, cupboards etc on new flooring work etc completed.	Sq M	290.00	₹ 121.26	₹ 35,165.40
37	Providing and fixing Anti-skid vitrified tiles for flooring of size 600 X 600mm of approved make, colour and size 10 mm thick, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) Bedding on flooring , cladding fixed with tile adhesive or neat cement paste including sealing the joints with approved quality white cement mixed with approved colour to match the tiles colour or approved grouting materials including, curing, cleaning etc. complete as directed. (Basic cost of tile: Rs 1265 / Sqm)	Sq M	10.00	₹ 2,438.71	₹ 24,387.10
38	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, roller, handle, etc. all complete as per architectural drawings and the directions of Engineer-in-charge.				
	For Fixed Portion -Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	32.00	₹ 471.42	₹ 15,085.44
	For Shutter Portion-Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	27.00	₹ 577.72	₹ 15,598.44
39	P & F Float glass panes for Window, partition etc. 5.0 mm thick glass panes (weight not less than 12.50 kg/sqm). Etc. complete.	Sq M	10.00	₹ 2,423.88	₹ 24,238.80
40	Providing & Fixing Fly/ Mosquito proof Stainless Steel wire mesh grade 304 to anodised aluminium frames / shutters with necessary fixtures, fittings etc complete. (Aluminium frames/shutter is payable Separately).	Sq M	5.00	₹ 1,392.40	₹ 6,962.00
41	Providing and fixing aluminium louvered windows consisting of vertical arm (40 x 12mm) with holders, lever and locking arrangement weighing at 0.91 kg/m with 3mm thick sheet glass louvers including filling the gaps in joints with plastic silicon jelly with gun etc complete as directed	Sq M	2.00	₹ 2,714.42	₹ 5,428.84
42	Supply & fixing in position at all floors anodised of approved shade and colour finished aluminium work for windows, ventilators, louvers with extruded built up standard sections of Jindal / Aluminax / Hindalco conforming IS: 733 & IS: 1285 fixing with dash fasteners of required size, including filling up the gaps at junctions i.e. top, bottom & sides with required EPDM rubber / neoprene / polysulphide sealant etc. Aluminium section shall be smooth, rust free, straight and jointed mechanically wherever required, including cleat angle, aluminium snap beading for glazing / paneling, stainless steel screws, IMEX Hinges, Wolf-pile 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 ) sound proof 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, bearing, lock, EPDM, woolf-pile. Window Type Wd	SQ M	34.00	₹ 11,040.29	₹ 3,75,369.86
43	Main Frame: Providing & fixing Aluminium Sections main Frame of 50mm x 50 x 1.5mm thick at approx. 450mm C/C vertically and horizontally @ 600mm C/C. All verticals secured to ceiling with anchor fasteners. Glasswool infill of 24kg/m3 density to be provided. Well notched frames including making cutout for electrical conduits, support for access control lock etc. complete. (As per detailed drawings)	Sq M	93.00	₹ 1,430.06	₹ 1,32,995.58
44	Plywood paneling: Skin : 12mm Marine Plywood on one side screwed to frame work with joints as shown or directed including Trims on all edges. (Basic Rate of plywood 1381/-Sq.mt)	Sq M	185.00	₹ 1,826.27	₹ 3,37,859.95
45	LAMINATE : Providing & fixing laminate of size not less than 1.5mm thk. on one side fixed to plywood skin with glue having joints and grooves as shown or directed. (Basic rate of laminate-Rs. 682/- Sqmt)	Sq M	185.00	₹ 948.45	₹ 1,75,463.25
46	P & F 8mm Toughened Glass Opening in aluminum Partion with 8mm Thick bidding around the Glass from inside & Out side with polish etc. complete. as per Engineer Incharge Instructions.	Sq M	112.00	₹ 3,779.00	₹ 4,23,248.00

S.N.	Item Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
47	Door Frame: To have 100mm x 75mm teak wood door frame and melamine polished to match the shutter . Providing and fixing of factory finish hardwood door frame of size 2150mmx900mm with necessary hardware such as anchor fasteners (6 nos) and the back side of the frame shall be painted with black japan paint and the front side of frame finished with melamine polish matching with the shutter laminate as approved by Engineer Incharge etc. complete	No	4.00	₹ 4,213.42	₹ 16,853.68
48	Door Frame: To have 100mm x 75mm teak wood door frame and melamine polished to match the shutter . Providing and fixing of factory finish hardwood door frame of size 2150mmx1500mm with necessary hardware such as anchor fasteners (6 nos) and the back side of the frame shall be painted with black japan paint and the front side of frame finished with melamine polish matching with the shutter laminate as approved by Engineer Incharge etc. complete.	No	2.00	₹ 4,698.67	₹ 9,397.34
49	Providing & fixing in position 35 mm thk solid core approved brand flush door, finished with 1.0 mm thk. Laminate of approved pattern from bothside and with steel plate at bottom inclusive of heavy duty brass hinges of 100 x 25mm along with approved make cylindrical lock, S. S. finish Handles-300mm, S. S. finish Tower bolt-200mm, etc as per approval and t.w. beading wherever required for the internal door shutter of kitchen and complete all as per drg.,details and as directed. all complete & as directed by Engineer (Basic cost of laminate - Rs.1708/ per sheet)	Sq M	14.00	₹ 11,325.91	₹ 1,58,562.74
50	Extra for providing vision panel in all type of flush doors including the cost of glass and as directed by Engineer-In-charge	Sq M	14.00	₹ 2,084.65	₹ 29,185.10
51	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564,embossed on the body, door weight upto 36 kg to 80 kg and door widthfrom 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	No	8.00	₹ 919.85	₹ 7,358.80
52	P & fixing/Making Book Storage of Size 0.9m x 0.3m x 2.1 (H) made of 19mm marine Ply wood at Top Bottom, Sides. At Bottom 100mm Skirting of 19mm thk. marine Ply wood. With 1.5 mm thk. Laminate finish from in sides & Out sides. Partly Glazed shutters made up from 25mm thk. marine plywood as per approved drawing attached etc., Provide shelf 0.9 x 0.3 m @ clear distance 300mm- 5 nos. Magnates, SS Handle/Nob with lock, soft closing hinges. etc. as per approval. Back side of the staorage finish with 8mm thk Ply wood with 1mm thk. white laminate from Out side. etc complete.	Sq M	232.00	₹ 16,563.00	₹ 38,42,616.00
53	P & Fixing/Making Glass Storage of Size 2.20 x 0.27m x 2.4 (H) made of 19mm marine Ply wood at Top Bottom, Sides. At Bottom 300mm Skirting of 19mm thk. marine Ply wood. With 1.5 mm thk. Laminate finish from in sides & Out sides. 12 mm Toughen Glass shutters as per approved drawing attached etc., Provide 12mm Toughen Glass shelf of size- 2.20 x 0.27 m @ clear distance 300mm- total 5 nos. SS Handle/Nob with lock, hinges etc. as per approval. etc. complete	Sq M	13.00	₹ 10,907.00	₹ 1,41,791.00
54	P & Fixing/making Bags Storage of Size- 1.20 x 0.45 x 2.1M Height made with 19mm marine Plywood at Top, Sides, Bottom, Shelves, Verticals etc with 1.5mm thk. Decorative laminate from inside @ Out side. 6mm marine plywood from back side with 1mm white laminate from out side as per approved drawing attached etc complete.	No	1.00	₹ 30,918.00	₹ 30,918.00
55	P & Fixing/making of News Paper Stand of size-1.20 x 0.35 x 1.20 M Height made from 19mm marine ply from back & sides, top shelf with 19mm plywood, 2- shelf with 12mm toughen glass, with glass front as per approved drawing attched with 1.5mm thk laminate finish from all sides etc complete.	No	1.00	₹ 19,326.00	₹ 19,326.00
56	P & Fixing/ making of Reception table made made of 19mm marine Plywood- Top, Sides, fronts etc. L saheped size 2.73 x 0.6 x 1.0m - L shape of size 1.20 x 0.60 x1.0m with one end Drawer + shutter Units of size 0.6x0.6x0.750mm+ Lock. With 1.5mm thk. laminate finish from all sides as per attached drawing etc. complete in all respect.	No	1.00	₹ 68,043.00	₹ 68,043.00
57	P & Fixing making Officer Table of Size 2.350 x 0.9 x0.75(H), L shape of size 2.10 x 0.9 x 0.75m with Drawer + Shutter Units- 2 Nos Of size 0.6 x 0.80x0.750 + Lock made of 19mm marine plywood at Top, sides, fronts etc.. All eadges of the table finished with additional 150mm width 19mm marine plywood. With 1.5mm thk laminate finish from all sides as per attached drawings etc. complete in all respect.	No	1.00	₹ 75,870.00	₹ 75,870.00
58	CHAIRS WITH HEADREST SEAT/BACK ASSEMBLY: The seat is made up of 1.2 + 0 1cm thk. hot pressed plywood measured as per QA method described in OCP-QLTA-PL14-18. The Back is made up of injection mould d glass filled nylon & upholstered using Quitted Leatherette fabric * SEAT SIZE (Larger Seat Depth): 47.0 cm (W) x 51 5 cm (D) * SEAT SIZE (Standard Seat Depth): 47.0 cm (W) x 49.5 cm. (D) * BACK SIZE: 45.0 cm. (W) x 65.3 cm. (H) HIGH RESILIENCE (HR) POLYURETHANE FOAM: The HR polyurethane seat foam is moulded with density 45+/-2 kg/m³ and hardness 16 + 2 kgf as per IS:7888 for 25% compression ARMRESTS: The adjustable armrest is designed with the following features • Up-Down adjustment— 8 steps (8. 0+0.5cm range) • Height adjustable armrest structure which is Chrome plated & fitted with an armrest top. Fixed Armrest Top is PU moulded over metal insert. LUMBAR SUPPORT ASSEMBLY: The Lumbar support consists of polypropylene pad with moulded polyurethane foam & covered with polyester fabric. The Height of Lumbar pad can be adjusted through two projecting knobs provided on the rear side of the pad. Lumbar pad has an adjustment of 8.0 + 0.5 cm in height FRONT PIVOT SYNCHRO MECHANISM: The adjU5 td ble tilting mechanism is	No	3.00	₹ 11,860.17	₹ 35,580.51

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	<p>designed with the following features.</p> <ul style="list-style-type: none"> <li>• 360° revolving type.</li> <li>• Single point control.</li> <li>• Front-pivot for tilt with feet resting on ground ensuring more comfort.</li> <li>• Tilt tension adjustment</li> <li>• 4-position locking with anti-shock feature.</li> <li>• Seat/back tilting ratio of 1.2. PEDESTAL ASSEMBLY: The pedestal is fabricated from 0.2 + 0.02 cm thick HR sheet, chrome plated and assembled with injection moulded black polypropylene hub cap and 5 nos. twin wheel castors. The pedestal is 66.0+0 Scm. Pitch-centre dia. (76.0+1.0 cm with castors). TWIN WHEEL CASTORS: The twin wheel castors are injection moulded in black Nylon.</li> <li>• NECKREST: The Neckrest assembly consist of polypropylene pad with moulded polyurethane foam &amp; covered with Polyester fabric. Neckrest is fixed to Back Assembly through Neckrest connector. Neckrest assembly has Weight adjustment of 4.2 + 0.5 cm and rotation adjustment of oyerat! 76°+ - 2°. The complete neck rest assembly is retro fit to the main chair. Make M/s godrej or equivalent.</li> </ul>				
59	P & S Sofa Set for Banquet hall 2+1 as per approval etc. complete. Basic Cost Of Rs 18850.00	No	1.00	₹ 27,552.74	₹ 27,552.74
60	P & F Central Table made from wood with melamine polish, Glass Top etc as per approval etc complete. Basic Cost of Table-Rs 18200/-	No	1.00	₹ 26,602.03	₹ 26,602.03
61	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.	Sq M	107.00	₹ 1,351.37	₹ 1,44,596.59
62	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 27mm 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 of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with : --12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- Part I (Basic rate of Gypsum board - Rs.760.00 Sqmt)	Sq M	238.00	₹ 1,277.71	₹ 3,04,094.98
63	Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595mm of approved texture, design and patterns as per CPWD Specification 2019, to be laid in true horizontal level suspended on inter-locking metal T-Grid of hot dipped galvanized iron section of 0.33mmthick (galvanized @ 120 grams per sqm including both sides)comprising of main-T runners of size 24x38 mm of length 3000 mm,cross - T of size 24x32 mm of length 1200 mm and secondaryintermediate cross-T of size 24x32 mm of length 600mm to formgrid module of size 600 x 600 mm, suspended from ceiling usinggalvanized mild steel items (galvanizing @ 80 grams per sqm) i.e. 12x50 mm long dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L shape level adjuster of size 76x25x25x1.6 mm fixed with grid and Z cleat of size 25x37x25x1.6mm thick with precut hole on both 25mm flange to pierce into 12x50mm or even bigger size dash fastener if require, fixed with Glavanised iron perimeter wall angle or size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450mm center to center and 40 mm long dry wall S.S screws. The workshall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge. With 15 mm thick Tegular edged light weight calcium sliciate false ceiling tiles	Sq M	9.00	₹ 1,930.99	₹ 17,378.91
64	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.	Sq M	112.00	₹ 854.13	₹ 95,662.56
65	Providing & fixing of signages for various sizes and shapes using brushed stainless steel of min.18 guage thk brush steel finish includingengraving/etching of letters of reqd sizes filled with colours as per approved design and as per requirement & to be fixed with ss screws on wall. per requirement / instructuin etc. all complete as approved & as directed by Engineer. (SS GRADE 316)	Sq M	1.00	₹ 54,264.00	₹ 54,264.00
66	Providing & fixing approved type of Roller Blinds with imported mechanism, approved make on windows.(Basic cost of Rs. 1000/- Sqmt)	Sqm	53.00	₹ 1,232.80	₹ 65,338.40

S.N.	Item Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
67	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	Sq M	349.00	₹ 76.05	₹ 26,541.45
68	Providing and Applying 3 coats of Acrylic emulsion paint Asian paints/ equivalent on false ceiling/wall etc. as per design and approved shade by the Architect. Cost to include preparing the surface, applying primer, putty, etc. complete. All jambs, trims, edges, grooves to be included in SQ.M rate. No separate measurement on R.M.	Sq M	137.00	₹ 181.42	₹ 24,854.54
69	Providing and Applying 3 coats of luster paint Asian paints/ equivalent on wall /Ceiling, & partitions as per design and approved shade by the Architect. Cost to include preparing the surface, applying primer, putty, etc. complete.including all jambs, trims, edges, grooves to be included in SQ.M rate. No separate measurement on R.M.	Sq M	238.00	₹ 218.06	₹ 51,898.28
70	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade of approved make (Two or more coats applied@ 1.43 ltr/ 10 sqm. over and including priming coat of exterior primer applied@ 2.20 kg/ 10 sqm).	Sq M	42.00	₹ 110.19	₹ 4,627.98
71	Providing and applying Oikos or equivalent make internal textured paint of approved shade and colour etc. complete.	Sq M	10.00	₹ 2,071.11	₹ 20,711.10
72	Providing & Applying two coats of synthetic enamel paint of approved brand & manufacture and shade to give uniform finish over an undercoat of suitable shade with ordinary paint of approved brand with the help of brush, Rollers etc. complete as directed.	Sq M	15.00	₹ 207.93	₹ 3,118.95
73	Providing and fixing in position Stainless steel kitchen sink without drain board A ISI 304 (18/8) as per IS 13983 610mm x 510mm depth 200mm with cast iron brackets and stainless steel plug 40mm including painting of fittings and brackets, including cutting and making good the walls, making inlet and outlet connections etc. complete as directed.	No	1.00	₹ 4,420.95	₹ 4,420.95
74	Providing & fixing Clarion Quarter turn Sink cock CQT-23347 of 'Jaquar' make etc. complete as directed	No	1.00	₹ 1,155.14	₹ 1,155.14
75	Providing and fixing in position approved white vitreous china pedestal type water closet pan with ISI mark (EWC) (Parryware, Hindware or any other approved make & colour ) with ISI marked white solid plastic seat and lid with all fittings and fixtures including cutting and making good the same, making inlet and outlet connections etc. complete including fittings / connectors :complete as directed.	No	1.00	₹ 5,181.32	₹ 5,181.32
76	Providing, Fixing, Testing and Commissioning of Flush Valve dual flow type with 32mm size. complete and as directed by Engineer Incharge.Make :Equivalent to Jaquar FLV-1089	No	1.00	₹ 3,573.66	₹ 3,573.66
77	Providing and fixing 15 mm dia push cock ( self closing tap) symet type including necessary socket, testing etc, complete	No	1.00	₹ 355.91	₹ 355.91
78	Poviding, Fixing, Testing and Commissioning of 15 mm dia. two way bib cock with wall flange and ceramic disc cartridge complete , including cutting and making good the walls wherever required, making all necessary connections etc. All complete as per directions of the Engineer-in-charge. Make : Equivalent to Jaquar LYR-38041	No	1.00	₹ 2,360.01	₹ 2,360.01
79	Poviding, Fixing, Testing and Commissioning of Health Faucet with 1200 mm Long CP Braided Hoses including connectors, adapters, GI nuts, bolts, washers, check nuts,C.P. brass two in one bib tap including necessary sleeve flanges, cock , angle valves and all other fittings/ accessories required for satisfactory installation complete. Make :Equivalent to Jaquar ALD 565	No	1.00	₹ 1,483.47	₹ 1,483.47
80	Poviding & Fixing of Toilet Roll Holder Make : Equivalent to Jaquar AKB - 35753	No	1.00	₹ 1,483.47	₹ 1,483.47
81	Providing & fixing PVC Nahni trap of 75mm dia diameter, with necessary distance piece of 75mm dia pipe and 150x150mm SS grating, making necessary SLAB /WALL/holes and cutting walls, etc complete. (Supreme/ Finolex/ Prince/ Astral Makes)	No	3.00	₹ 597.72	₹ 1,793.16
82	Providing and fixing Robe Hook two way in toilet of Jaquar make (code : AKB - 357614)	No	2.00	₹ 526.29	₹ 1,052.58
83	Providing & fixing Florentine Quarter turn Concealed Stop Cock, Size 15mm or 20mm Code FLR-5089 N of 'Jaquar' make etc. complete as directed	No	3.00	₹ 1,074.54	₹ 3,223.62
84	Providing & fixing Clarion Quarter turn Piller Cock Long Neck Equivalent to make Jaquar- CQT-23021 etc. complete as directed	No	1.00	₹ 940.22	₹ 940.22
85	Poviding, Fixing, Testing and Commissioning of Bottle trap single piece complete and as directed by Engineer Incharge.. Make :Equivalent to Jaquar ALD :769b	No	1.00	₹ 1,887.99	₹ 1,887.99
86	Poviding, Fixing, Testing and Commissioning of wall mounted wash basin. Make : Equivalent to Hindware-Windsor 10036	No	1.00	₹ 4,045.69	₹ 4,045.69
87	Poviding & Fixing of Soap Holder Make : Jaquar AKB - 35731 or equivalent approval by EIC.	No	1.00	₹ 944.04	₹ 944.04
88	Poviding & Fixing of Soap dispenser Make : Jaquar ACN-CHR-1135N or equivalent approval by EIC	No	1.00	₹ 1,146.25	₹ 1,146.25
89	Poviding & Fixing of Towel rail Make : Jaquar ACN-CHR-1101N or equivalent approval by EIC	No	1.00	₹ 1,348.57	₹ 1,348.57
90	Poviding & Fixing of Towel Holder Ring Make : Jaquar AKB-35721 or equivalent approval by EIC	No	2.00	₹ 1,726.16	₹ 3,452.32
91	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	No	1.00	₹ 1,533.01	₹ 1,533.01
92	Providing and fixing mirror rectangular shape 1500 x 450 mm size (outer dimentions) with plastic moulded frame of approved make and shade with 6mm thick hard board backing etc. all complete	No	1.00	₹ 1,974.12	₹ 1,974.12
93	Providing & fixing 30mm thick fibre glass reinforced polyester door shutter as per IS14856 without ventilator including chromium plated fixtures and fastening with chromium plated handles on both sides etc. complete as directed.	Sqm	2.00	₹ 3,969.59	₹ 7,939.18
94	Providing and fixing ISI marked Anodised Aluminium Fittings (anodic coating not less than AC 10 as per IS 1868 transparent or dyed to required colour or shade )-Handles of 125mm with necessary screws complete	No	2.00	₹ 65.24	₹ 130.48

S.N.	Item Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
95	Providing and fixing ISI marked Anodised Aluminium Fittings (anodic coating not less than AC 10 as per IS 1868 transparent or dyed to required colour or shade )-Tower bolts of size 200 x 10mm with nuts and screws complete	No	1.00	₹ 98.64	₹ 98.64
96	Providing and fixing ISI marked Anodised Aluminium Fittings (anodic coating not less than AC 10 as per IS 1868 transparent or dyed to required colour or shade )-Sliding door bolts of size 250 x 16mm with nuts and screws complete	No	1.00	₹ 255.18	₹ 255.18
97	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes of Astral or equivalent, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with onestep CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls				
	15 mm nominal dia Pipes	Rmt	15.00	₹ 479.25	₹ 7,188.75
	20 mm nominal dia Pipes	Rmt	3.00	₹ 558.10	₹ 1,674.30
	25 mm nominal dia Pipes	Rmt	3.00	₹ 680.11	₹ 2,040.33
98	Providing & fixing PVC waste pipe for sink/wash basin including PVC waste fittings complete. - 40mm dia semi rigid pipe (Wash Basin/Sink/Urinal)	Rmt	5.00	₹ 110.43	₹ 552.15
99	Providing & fixing PVC soil / Waste water pipes having wall thickness of 3.2 to 3.8mm conforming to I.S.13592-1992 including PVC plug bend, necessary fittings such as bend, tees, single junction, double junction, slotted vent offsets on walls or in the ground including fixing the pipe on wall using approved wooden cleats projecting 25mm to 40mm from face of wall and fixing with clips of approved quality and number, filling the joints using rubber gasket with solvent cement including necessary scaffolding and maintenance for 3 years for any leakages or dislocation of pipes.				
	110 mm dia. PVC pipe. (Prince or equivalent)	Mtrs.	6.00	₹ 540.09	₹ 3,240.54
	75 mm dia. PVC pipe. (Prince or equivalent)	Mtrs.	8.00	₹ 354.78	₹ 2,838.24
100	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 micron epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sq M	10.00	₹ 721.39	₹ 7,213.90
101	Supply and Installation of Structural Steel work bolted &/or welded in built up sections, truss and framed work for safety railing, platform etc. as per drawing including necessary Anchor fasteners for fixing of Brackets, Including cutting, hoisting, fixing in position and applying a priming one coat of approved steel primer and two coats of approved enamel paint all etc. complete.	Kg.	50.00	₹ 131.72	₹ 6,586.00
102	Providing and fixing Aluminium Composite Panels (ACP) made out of 4 mm thick (0.25+3.5+0.25) with LDPE core coloured, matt finished panels on both sides (total thickness of the panel shall be 4mm) of approved shade ACP Z-Green fixed with aluminium frame work 40mm x 20mm (Jindal section no. 14019/88) or equivalent approved including making openings for lighting fixtures, sealing joints with weather sealant, M.S. cleat, fastener, nut bolt with scaffolding etc. complete.	Sq M	5.00	₹ 4,057.48	₹ 20,287.40
	<b>Total (A)</b>				₹ 86,54,358.75

**B. ELECTRICAL WORK**

S.N.	Item Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
	<b>MAIN INCOMING DB</b>				
1	Supplying and erecting switch disconnector fuse (SDF) switch 415V, 125A, open execution, four pole AC23 A rated with terminal shrouds on both sides and phase barriers along with telescopic shaft for depth adjustments and door interlock and padlock complying to IS/IEC 60947-3 Part-1/3 HRC - DIN type fuse, insulation voltage 1000 V for enclosing in panel with rotary handle for ON / OFF operation (without HRC fuse)	AU	1.00	₹ 8,217.00	₹ 8,217.00
2	Supplying & erecting triple pole and neutral distribution board (TPNDB), 3 pole/4 pole MCCB as incomer & outgoing SP MCB (36 poles) or TP MCB of 12 ways (36 poles), with door, 1.2mm thickness, surface/flush mounted, on iron/GI frame (vertical busbar type) as per specification no. SW-SWR/MCDB1	AU	1.00	₹ 11,264.00	₹ 11,264.00
	<b>Incomer</b>				
3	Providing & erecting 3 Pole MCCB, 415V, 200A, rated short-circuit breaking capacity 25 kA (Ics=100% of Icu), adjustable thermal (overload) setting and adjustable magnetic setting with provided leads, provision for installation of shunt/UV/trip alarm contact and MCCB should have phase barriers both sides, with insulation withstand capacity 800V, no line-load bias in provided enclosure/panel as per specification no. SW-SWR/MCCB	AU	1.00	₹ 11,664.40	₹ 11,664.40
4	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 70 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	Mtr	65.00	₹ 543.40	₹ 35,321.00
	<b>Outgoing</b>				
5	Supplying, erecting & marking TPMCB 6 A to 32A in provided distribution board as per specification no. SW-SWR/MCB	AU	9.00	₹ 826.10	₹ 7,434.90
6	Supplying, erecting & marking TPMCB 40A to 63A in provided distribution board as per specification no. SW-SWR/MCB	AU	2.00	₹ 1,091.20	₹ 2,182.40
	<b>LIGHTING DB</b>				

S.N.	Item Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
7	Supplying & erecting triple pole and neutral distribution board (TPNDB),SPMCB of 4 ways/phase (12 poles), with door, 1.2mm thickness,surface/flush mounted, IP 43 protection on iron/GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB	AU	1.00	₹ 2,591.60	₹ 2,591.60
<b>Incomer</b>					
8	Supplying, fixing and commissioning 4 pole RCBO ( (residual current breaker with overcurrent short circuit 10 kA and earth leakage protection), with 30/100/300 mA sensitivity and having capacity of 6A/10A/16A/20A/25/A as per specification no SWRCCB/RCBO	AU	1.00	₹ 4,375.80	₹ 4,375.80
9	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 4 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	Mtr	15.00	₹ 326.70	₹ 4,900.50
<b>Outgoing</b>					
10	Supplying, erecting & marking SPMCB 6A to 32A, B-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB	AU	12.00	₹ 190.30	₹ 2,283.60
<b>POWER DB</b>					
11	Supplying & erecting triple pole and neutral distribution board (TPNDB), SPMCB of 12 ways /phase (36 poles), with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on iron/GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB	AU	1.00	₹ 5,069.90	₹ 5,069.90
<b>Incomer</b>					
12	Supplying, fixing and commissioning 4 pole RCBO 63A, with overcurrent,rated short-circuit breaking capacity (10 kA) and earth leakage protection,with 30/100/300 mA sensitivity and short circuit and earth leakage trip indication as per specification no SW-RCCB/RCBO	AU	1.00	₹ 5,132.60	₹ 5,132.60
13	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 4 core 16 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	Mtr	15.00	₹ 949.30	₹ 14,239.50
<b>Outgoing</b>					
14	Supplying, erecting & marking SPMCB 6A to 32A, C-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as perspecification no. SW-SWR/MCB	AU	24.00	₹ 191.40	₹ 4,593.60
15	Supplying and erecting blanking plate of suitable size on MCB DB	AU	17.00	₹ 16.50	₹ 280.50
<b>A.C WORK</b>					
16	Supplying and erecting PVC insulated PVC round sheathed 2.5 sq.mm (50 no. x 0.25 mm dia.) 3 core flexible multi stranded copper Industrial cable for voltage grade up to 1.1 kV	AU	150.00	₹ 105.60	₹ 15,840.00
17	Supplying, fixing and commissioning 4 pole RCBO 32/40A, with overcurrent, rated short-circuit breaking capacity (10 kA) and earth leakage protection,with 30/100/300 mA sensitivity and short circuit and earth leakage trip indication as per specification no SW-RCCB/RCBO	AU	8.00	₹ 4,451.70	₹ 35,613.60
18	Supplying, fixing and commissioning 2 pole, RCBO 6/10/16/20/25A, with overcurrent, rated short-circuit breaking capacity (10 kA) and earth leakage protection, with 30/100/300 mA sensitivity and short circuit and earth leakage trip indication as per specification no SW-RCCB/RCBO	AU	3.00	₹ 3,500.20	₹ 10,500.60
19	Providing, fixing weather proof Box for accommodating 6-32 Amp MCB/RCBO (Suitable for 02 Pole/04 RCBO)	AU	15.00	₹ 3,125.00	₹ 46,875.00
<b>LIGHTING FIXTURE</b>					
20	Supplying and erecting LED Panel Light(600mm X 600mm) Max. 35 W having CRCA powder coated housing, polystyrene diffuser having system lumens output of Min 4200 Lumens, min. efficacy of 120 lumen/W, CRI>80,CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs. at L70B50 including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with 3 years warranty Note:- 1) Driver and luminaire shall be of same make. 2) LM79 and all other reports of all luminaires shall be from accredited NABL laboratory. 3) Manufacturer Logo shall be embossed on all pressure die cast Luminaires and logo shall not be screen-print / sticker type. 4) All luminaires shall conform to respective IS	AU	8.00	₹ 3,216.40	₹ 25,731.20
21	Supplying and erecting LED square / circular Max. 18 W down lighter/Panel Light having pressure die-cast aluminium housing, polystyrene diffuser having system lumens output of Min. 2000 Lumens, min. efficacy of 110 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs. at L70B50, including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with 3 years warranty. Note:- 1) Driver and luminaire shall be of same make. 2) LM79 and all other reports of all luminaires shall be from accredited NABL laboratory. 3) Manufacturer Logo shall be embossed on all pressure die cast Luminaires and logo shall not be screen-print / sticker type. 4) All luminaires shall conform to respective IS	AU	80.00	₹ 1,686.30	₹ 1,34,904.00
22	Supplying and erecting double suspension heavy duty lacquered iron chain with hooks for erecting fluo. tube light fitting(for erecting various fixtures like FTL, LED, etc) with necessary shielded copper flexible wire three core of 1 sq mm for connecting leads. (for measurements half of the actual length used)	Mtr	100.00	₹ 53.90	₹ 5,390.00

S.N.	Item Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
23	Supplying and erecting IP65 and IK08 rated UV shielded polycarbonate waterproof and dustproof industrial grade LED fitting (4 feet) max. 36W with high transitivity diffuser with system lumens output of min. 4300 lumens ,min. efficacy of 120 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., Ripple<5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 4 kV, Life class of 50,000 Hrs. at L70B50 , IP20 rated, including driver with auto cutoff & auto restart feature at 325V with end caps on PVC Block/wooden board with 3 years warranty.	AU	5.00	₹ 3,735.60	₹ 18,678.00
24	Supplying and erecting LED Strip light 5m Length Max. 45 W IP20 class having minimum lumens output of 800 Lumens/m, min. efficacy of 90 lumen/W, CRI>80, CCT upto 5000K, Beam Angle of 110 deg., THD<10%, p.f. >0.95, operating range of 230-270V, Life class of 30,000 Hrs. at L70B50, including driver with 1 year warranty.	AU	20.00	₹ 2,096.60	₹ 41,932.00
25	Supplying and erecting bracket fan 400 mm. sweep A. C. 230 volts 50 cycles 1350 RPM. Oscillating type, plastic or metal blades chrome plated guard with speed regulator and moisture proof treatment to winding and with 'E' class insulation.	AU	4.00	₹ 2,684.00	₹ 10,736.00
26	Supplying Pedestal fan 400 mm. 230 Volts 50 cycles oscillating type complete with guard and regulator 3 mtrs. of flexible wire and hand shield type 3 pin plug top.	AU	4.00	₹ 2,734.60	₹ 10,938.40
27	Supplying and erecting exhaust fan heavy duty 230 V, A.C. 50 cycles 375/380 mm. 900 RPM complete erected in position as per specification no. FG-FN/EXF	AU	1.00	₹ 4,239.40	₹ 4,239.40
28	Supplying and erecting fresh air cum Exhaust fan of light duty250 V A.C. 50 cycles 225mm. 1400 RPM rust proof body & blades, wiremesh, duly erected in an approved manner and marking Sr. No. Anddate of erection.	AU	1.00	₹ 1,740.20	₹ 1,740.20
<b>SWITCH / SOCKET</b>					
29	Supplying and erecting modular type switch 6A / 10A ISI mark approved make duly erected on provided plate and box with wiring connections complete.	AU	45.00	₹ 79.20	₹ 3,564.00
30	Supplying and erecting ISI mark modular type D.P. switch 32A with indicator, duly erected on provided plate and box with wiring connections complete.	AU	15.00	₹ 231.00	₹ 3,465.00
31	Supplying and erecting modular type 3 pin 6A multi socket with safety shutter ISI mark approved make duly erected on provided plate and box with wiring connections complete.	AU	45.00	₹ 123.20	₹ 5,544.00
32	Supplying and erecting ISI mark modular type switch 16 / 20 A with indicator, duly erected on provided plate and box withwiring connections complete	AU	18.00	₹ 150.70	₹ 2,712.60
33	Supplying and erecting modular type 3 pin 6 / 16A multi socket with safety shutter ISI mark approved make duly erected on provided plate and box with wiring connections complete.	AU	15.00	₹ 176.00	₹ 2,640.00
34	Supplying and erecting ISI mark modular type T.V. socket single outlet, duly erected on provided plate and box with wiring connections complete.	AU	1.00	₹ 104.50	₹ 104.50
35	Supplying and erecting modular type blanking plate one module ISI mark approved make duly erected on provided plate & box.	AU	25.00	₹ 23.10	₹ 577.50
36	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 1 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background	AU	5.00	₹ 242.00	₹ 1,210.00
37	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 2 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background	AU	25.00	₹ 243.10	₹ 6,077.50
38	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 3 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background in an approved manner.	AU	12.00	₹ 275.00	₹ 3,300.00
39	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 4 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background.	AU	5.00	₹ 304.70	₹ 1,523.50
40	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 6 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background in an approved manner.	AU	20.00	₹ 368.50	₹ 7,370.00
41	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 8 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background in an approved manner.	AU	4.00	₹ 458.70	₹ 1,834.80
42	Supplying and erecting unbreakable concealed type modular switch box with double mounting plate for 8 module duly erected flush to wall with required chiselling and finishing with cement mortar / POP as per required to match the background in an approved manner.	AU	4.00	₹ 458.70	₹ 1,834.80
43	Supplying and erecting PVC Surface modular switch box with double mounting plate for 3 module duly erected	AU	15.00	₹ 162.80	₹ 2,442.00
44	Supplying & erecting original 1.25 mm CRCA sheet metal enclosures with 20A. 2 pin plug & earth socket and 20A. 3 pin plug top with 20A/30A single pole MCB complete erected on angle iron/ G.I. frame.	AU	4.00	₹ 906.40	₹ 3,625.60
45	Supplying and erecting ISI mark modular type bell indicator, duly erected on provided plate and box with wiring connections	AU	2.00	₹ 201.30	₹ 402.60
46	Supplying and erecting ISI mark modular type buzzer 220 / 250V, duly erected on provided plate and box with wiring connections complete	AU	2.00	₹ 136.40	₹ 272.80
47	Supplying and erecting ISI mark modular type bell-push with indicator 2 modules 6A / 10A, duly erected on provided plate and box with wiring connections complete.	AU	2.00	₹ 141.90	₹ 283.80
<b>WIRING &amp; ACCESSORIES</b>					

S.N.	Item Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
48	Point wiring for light/bell hybrid type (Surface type under false ceiling and concealed type for drops & switch boards on walls) in min 20 mm PVC conduit / casing n capping with 1.5 sq.mm. (2+1E) FRLSH grade copper wires, modular type switch, earthing and required accessories as per specification No: WGPW/ HW  Note:- 1) In case length of point wiring exceeds 6 meters, add 10% of rate, for every additional length of 1 metre or part thereof. 2)Point wiring starts from mainboard/intermediate switch board and suitable circuit mains are to be considered from D.B. to first board and between boards. 3)For point wiring in stair case with 2 way control point increase rate by 50% of point wiring. 4) for point wiring on stone wall add Rs. 15.00 per point wiring. 5) Acrylic sheet of appropriate size shall be provided for covering at wall entries. 6) For concealed type wiring multistranded wires shall be used. 7) Earth wire of 1.5 sq.mm. shall be terminated in each point.	P	80.00	₹ 605.00	₹ 48,400.00
49	Secondary point wiring for additional light/ bell point in PVC trunking (casing-capping) with 1.5 sq.mm (2+1E) FRLSH grade copper wire with required accessories as per specification No: WG-PW/SW	P	45.00	₹ 216.70	₹ 9,751.50
50	Wiring for plug on board with Switch socket surface/concealed type, copper wiring and earthing and with modular accessories as per specification No: WGPW/CW	P	15.00	₹ 424.60	₹ 6,369.00
51	Supplying & erecting mains with 2x1.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/ BW <b>Note</b> 1)Rates for the earth wire shall be calculated as one half rate of mains of bunch of two wire. 2)Earth wire should be of green colour. 3) All wires shall be of stranded type. 4) For FRLS wire subtract 2% from total rate of FRLSH wire.	Mtr	300.00	₹ 44.00	₹ 13,200.00
52	Supplying & erecting mains with 2x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/ BW <b>Note</b> 1)Rates for the earth wire shall be calculated as one half rate of mains of bunch of two wire. 2)Earth wire should be of green colour. 3) All wires shall be of stranded type. 4) For FRLS wire subtract 2% from total rate of FRLSH wire.	Mtr	1,000.00	₹ 68.20	₹ 68,200.00
53	Supplying & erecting mains with 2x4 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/ BW <b>Note</b> :1)Rates for the earth wire shall be calculated as one half rate of mains of bunch of two wire. 2)Earth wire should be of green colour. 3) All wires shall be of stranded type. 4) For FRLS wire subtract 2% from total rate of FRLSH wire.	Mtr	200.00	₹ 97.90	₹ 19,580.00
54	Supplying and erecting HMS PVC conduit FRLS grade 25 mm dia. With necessary accessories in wall/floor with chiselling ppropriately as per specification No: WG-MA/CC.	Mtr	500.00	₹ 139.70	₹ 69,850.00
55	Supplying and laying HMS PVC conduit FRLS grade 20 mm dia. With necessary accessories in RCC work/false ceiling/false flooring as per specification No. WG-MA/CC.	Mtr	800.00	₹ 108.90	₹ 87,120.00
56	Supplying and erecting HMS PVC conduit FRLS grade 32 mm dia. With necessary accessories in wall/floor with chiselling ppropriately as per specification No: WG-MA/CC.	Mtr	100.00	₹ 198.00	₹ 19,800.00
57	Supplying and erecting 20mm dia. corrugated flexible polypropylene conduit	Mtr	200.00	₹ 17.60	₹ 3,520.00
58	Supplying and erecting 25 mm dia. corrugated flexible polypropylene conduit	Mtr	450.00	₹ 23.10	₹ 10,395.00
59	Supplying and erecting PVC trunking (PVC casing-n-capping) of size 20 mm with accessories on wall/ceiling as per specification No: WG-MA/CON, para no. 1.1.2	Mtr	100.00	₹ 45.10	₹ 4,510.00
60	Supplying and erecting PVC trunking (PVC casing-n-capping) of size 25 mm with accessories on wall/ceiling as per specification No: WG-MA/CON, para no. 1.1.2	Mtr	100.00	₹ 48.40	₹ 4,840.00
61	Supplying and erecting PVC box trunking of size 50x50 mm. with accessories on wall/ceiling as per specification No: WG-MA/BOX.	Mtr	100.00	₹ 184.80	₹ 18,480.00
62	Supplying and erecting PVC box trunking of size 100x50 mm. with accessories on wall/ceiling as per specification No: WG-MA/BOX .	Mtr	50.00	₹ 590.70	₹ 29,535.00
63	Supplying and erecting Iron, sheet metal work consisting of CRCA Sheets, Various sections of iron, Plates, Chequered Plates, Rods, Bars, MS pipes, etc. for panel board or any other purposes complete with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority <b>Note:- Quantity of Iron/sheet metal work shall be considered and worked out as per steel data table.</b>	Kg	60.00	₹ 204.60	₹ 12,276.00
<b>TELEPHONE WIRING &amp; ACCESSORIES</b>					
64	Supplying & erecting 2 pair telephone copper cable 0.5 mm dia. with high density polyethylene insulation, polyester taped, Nylon Rip Cord & grey colour sheathed with FR PVC, conforming to ITD specification S/WS 113C laid in provided PVC casing capping/conduit as per specification No. WG-TW	Mtr	100.00	₹ 25.30	₹ 2,530.00

S.N.	Item Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
65	Supplying & erecting 20 pair telephone copper cable 0.5 mm dia. with high density polyethylene insulation, polyester taped, Nylon Rip Cord & grey colour sheathed with FR PVC, conforming to ITD specification S/WS 113C laid in provided PVC casing capping/conduit as per specification No. WG-TW	Mtr	35.00	₹ 156.20	₹ 5,467.00
66	Supplying and erecting modular type telephone socket one gang with safety shutter, duly erected on provided plate and box with wiring connections complete	AU	4.00	₹ 105.60	₹ 422.40
67	Supplying & installing co-axial copper cable low voltage grade RG-6 as per specification No. WG-TW	M	20.00	₹ 51.70	₹ 1,034.00
<b>COMPUTER ACCESSORIES</b>					
68	Supplying and erecting modular type computer Jack RJ45 with safety shutter, duly erected on provided plate and box with wiring connections complete.	AU	6.00	₹ 143.00	₹ 858.00
69	Supplying and installing cat-6 cable suitable for networking as per specification no. WG-COC/NC	Mtr	500.00	₹ 58.30	₹ 29,150.00
70	Supplying and fixing 1 meter length, UTP Patch cord of Cat 6 type in position as per specification No. WG-COC/PC of PWD Specifications	AU	6.00	₹ 256.30	₹ 1,537.80
71	Supplying and fixing 3 meter length, UTP Patch cord of Cat 6 type in position as per specification No. WG-COC/PC of PWD Specifications	AU	6.00	₹ 368.50	₹ 2,211.00
72	Supplying, installing and testing UTP connector (RJ-45) as per specification No. WG-NAS/UTPC.	AU	6.00	₹ 86.90	₹ 521.40
73	Supplying and fixing Power Distribution Unit for networking rack comprises of 6/16A (6 Nos. sockets), 25 A modular MCB, appropriate rating fuse and indicator lamp, enclosed in black powder coated metal with necessary arrangement for fixing as per specification No. WG-NAS/RAK	AU	1.00	₹ 5,434.00	₹ 5,434.00
74	Supplying and fixing 6U wall mount rack (Dimension-DxWxH – 500x600x367 mm) as per specification No. WG-NAS/RAK	AU	1.00	₹ 9,156.40	₹ 9,156.40
75	Supplying and fixing 24 port patch panel with tool-less keystone jacks in provided U Rack complete as per specification no. WG-NAS/PP	AU	1.00	₹ 11,677.60	₹ 11,677.60
76	Supplying, fixing, and configuring GB managed ethernet layer 2 switch of 24 Ports + 4 SFP enterprise class Switch IPV6 ready as per specification complete.	AU	1.00	₹ 1,64,466.67	₹ 1,64,466.67
<b>RACEWAY/CABLE TRAY</b>					
77	Supply and Installation of 100X38 mm GI powder coated under floor raceway for Data ,Voice & Power	M	50.00	₹ 348.24	₹ 17,412.00
78	Supply and Installation of 50X38 mm GI powder coated under floor raceway for Data , Voice & Power.	M	44.63	₹ 261.19	₹ 11,656.91
79	Supply and Installation of GI powder coated junction box of size 200X200X50 mm with partition.	AU	4.00	₹ 485.06	₹ 1,940.24
80	Supply and Installation of GI powder coated junction box of size 150X150X50 mm with partition.	AU	20.00	₹ 323.37	₹ 6,467.40
81	Providing & erecting hot dipped galvanised ladder 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.	M	10.00	₹ 675.40	₹ 6,754.00
82	Supplying and erecting ball suspension plate cast aluminum erected with spring on wooden block in position.	AU	10.00	₹ 46.20	₹ 462.00
83	Supplying and erecting double suspension pipe rod of 16 gauge 20mm.dia H.G. conduit duly threaded and painted with two coats of enamel paint for erection of fluo. tube light fitting with necessary check nuts and shielded copper flexible wire three core of 1 sq mm for connecting leads (for measurements half of the actual length both pipes used)	M	40.00	₹ 254.10	₹ 10,164.00
84	Providing and erecting clamps for box type / industrial type fittings with provided suspension down rod of 20 mm dia. H.G. conduit, the clamp shall be made of 25 x 3 (mm) MS flat with cutting, bending, drilling erected properly with necessary nut bolt as per direction.	AU	10.00	₹ 105.60	₹ 1,056.00
<b>DISMANTLING</b>					
85	Dismantling the existing light, fan, bell, clock, independent plug point, wiring including circuit mains of all types along with accessories etc.complete as per specification No: WG-DM/PW	P	60.00	₹ 7.70	₹ 462.00
86	Dismantling the existing Telephone / Lan / Wan / TV cables and wires of all sizes along with casing-capping / conduit complete as per specification No: WG-DM/PW  Note:- Dismantled material of Point wiring / circuit mains/mains, sub-mains / telephone / LAN / WAN / TV wires / cables shall be retained by contractor.	M	150.00	₹ 5.50	₹ 825.00
87	Dismantling the existing Aluminium/copper mains,sub-mains wiring upto 10 sq.mm. along with accessories etc.Complete as per specification No: WG-DM/PW  Note:- Dismantled material of Point wiring / circuit mains/mains, sub-mains / telephone / LAN / WAN / TV wires / cables shall be retained by contractor.	M	800.00	₹ 3.30	₹ 2,640.00
88	Dismantling of existing fluorescent fittings of any type & size.	AU	50.00	₹ 17.60	₹ 880.00
89	Dismantling the existing ceiling fan/exhaust fan/cabin fan/bracket fan complete with accessories, G.I. down rod, frame etc. and makingthe site clear.	AU	50.00	₹ 40.70	₹ 2,035.00
90	Dismantling the existing switchgears, DB, and Bus bar of any size complete with/ without board or angle iron frame	AU	6.00	₹ 102.30	₹ 613.80
92	Dismantling the existing cables of all types & size upto 10 sq mm.	M	50.00	₹ 16.50	₹ 825.00
93	Dismantling the existing cables of all types & size above 10 sq mm upto 50 sq.mm.	M	50.00	₹ 25.30	₹ 1,265.00
94	Dismantling the existing cables of all types & size above 50 sq. mm.	M	60.00	₹ 34.10	₹ 2,046.00
<b>Total</b>					<b>₹ 12,59,251.82</b>

S.N.	Item Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
<b>C. HVAC WORK</b>					
1	Supply & delivery of ceiling suspended <b>Inverter Cassette 4 way / round flow Air conditioner (Minimum 5 star rating)</b> inclusive of Indoor Unit, Out door unit, cordless remote controllers with batteries & holder, power supply cable along with connecting pin & accessories etc. all complete as directed by MDL engineer. <b>The AC units shall have eco-friendly Refrigerant gas.</b> Indoor cassette units shall have standard <b>inbuilt condensate drain pump</b> along with all the accessories as supplied by the manufacturer. <b>Note : Additional Anti Corrosive for ODU.</b> <b>Preferred make i.e. Daikin/Mitsubishi/Hitachi</b>				
(a)	<b>Minimum 2.0 TR Capacity</b>	Nos	12.00	₹ 87,150.00	₹ 10,45,800.00
2	Supply & delivery of ceiling suspended <b>Inverter Split AC (Minimum 5 star rating)</b> inclusive of Indoor Unit, Out door unit, cordless remote controllers with batteries & holder, power supply cable along with connecting pin & accessories etc. all complete as directed by MDL engineer. The AC units shall have eco-friendly Refrigerant gas. <b>Note : Additional Anti Corrosive for ODU.</b> <b>Preferred make i.e. Daikin/Mitsubishi/Hitachi</b>				
(a)	<b>Minimum 2 TR Capacity</b>	Nos	2.00	₹ 68,648.00	₹ 1,37,296.00
(b)	<b>Minimum 1.5 TR Capacity</b>	NOs	1.00	₹ 47,754.00	₹ 47,754.00
3	Supply & Installation of copper refrigerant piping of suitable diameter compatible with the refrigerant gas (eco friendly) & air conditioner model with insulation/nitrile rubber sleeves (19 mm thk), end connections with appropriate clamping / supporting arrangement, making holes in walls with core cutting, providing sleeves & proper finishing for connectivity from indoor to outdoor unit etc all complete as directed by MDL Engineer. Insulation <b>Preferred make - SUPERLON/K-FLEX/ARMACELL</b> <b>Note: Copper tubing work would be measured in running meters in one direction along the length from indoor unit to outdoor unit considering suction &amp; discharge tubing as one combined set. Suction &amp; discharge piping are not considered separately one from another for arriving at the BOQ quantity. For payment purpose 3 mtrs.of copper refrigerant piping per A.C unit will be deducted, since these are standard free supply with each A.C unit from Vendor/Manufacturer of A.C.</b>	Mtr	300.00	₹ 840.00	₹ 2,52,000.00
4	Supply & Installation of suitable L-Shaped / Fabricated brackets duly painted (1set) with bush & fasteners for mounting outdoor unit as directed by MDL Engineer				
(a)	<b>Suitable for 2.0 TR Capacity (Cassette Unit)</b>	Nos	12.00	₹ 2,100.00	₹ 25,200.00
(b)	<b>Suitable for 2 TR Capacity (Split AC)</b>	Nos	2.00	₹ 1,050.00	₹ 2,100.00
(c)	<b>Suitable for 1.5 TR Capacity (Split AC)</b>	NOs	1.00	₹ 840.00	₹ 840.00
5	Supply & installation of ISI mark UPVC plumbing grade condensate drain pipe with nitrile rubber insulation of 6 mm thk. & fittings with supports & clamps etc all complete for taking out condensate drain water from AC Units up to the Ground Level / washroom as directed by MDL Engineer, including looping. <b>Preferred Make of UPVC PIPE - PRINCE / ASTRAL / SUPREME</b> <b>Preferred make of insulation - SUPERLON/K-FLEX/ARMACELL</b>				
(a)	<b>32 mm dia</b>	Mtr	250.00	₹ 411.60	₹ 1,02,900.00
b	<b>40 mm dia</b>	Mtr	50.00	₹ 514.50	₹ 25,725.00
6	Supply & installation of 2.5 Sq mm 4 core Electrical cable for Inverter split AC (from indoor units to outdoor units) all complete as directed by MDL Engineer.	Mtr	325.00	₹ 99.75	₹ 32,418.75
7	Installation of <b>ceiling suspended Cassette Inverter Air conditioner</b> inclusive of Indoor Unit, Out door unit. Testing & Commissioning, cordless remote controllers, accessories, copper refrigerant piping with insulation/nitrile rubber sleeves (19 mm thk) complete with necessary electrical installation with wiring, drain piping, purging with suitable gas for flushing before leak test, leak testing of copper piping & first charge of pre-filled refrigerant gas (eco friendly) considering lengths of copper piping & A.C units capacity etc all complete as directed by MDL Engineer.				
(a)	<b>Minimum 2.0 TR Capacity</b>	Nos	12.00	₹ 3,972.15	₹ 47,665.80
8	Installation of Split <b>Inverter AC</b> inclusive of Indoor Unit, Out door unit, Testing & Commissioning, cordless remote controllers, accessories, copper refrigerant piping with insulation/nitrile rubber sleeves (19 mm thk) complete with necessary electrical installation with wiring, drain piping, purging with suitable gas for flushing before leak test, leak testing of copper piping & first charge of pre-filled refrigerant gas (eco friendly) considering lengths of copper piping & A.C units capacity etc all complete as directed by MDL Engineer.				
a	<b>Minimum 2 TR Capacity</b>	Nos	2.00	₹ 3,150.00	₹ 6,300.00
b	<b>Minimum 1.5 TR Capacity</b>	Nos	1.00	₹ 2,100.00	₹ 2,100.00
9	Supply, fabrication, fixing in positions with suitable GI angle supports GI perforated cable trays bolted types with all necessary bends, connectors etc. and fabricated using minimum 14 gauges CRCA sheet. Further the rates shall also include supporting of these trays complete as required and as per final directions and final approval of MDL Engineer				
(a)	<b>Size: 300mm Wide &amp; 75mm Deep.</b>	Mtr	60.00	₹ 420.00	₹ 25,200.00
(b)	<b>Size: 300mm Wide &amp; 75mm Deep with Cover (Inverted cable tray)</b>	Mtr	60.00	₹ 1,260.00	₹ 75,600.00
10	Structural steel work bolted or welded in built up sections, truss and framed work for safety railing, platform etc. as per drawing including necessary Anchor fastners for fixing of Brackets. Including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer and two coats of approved enamel paint all etc. all complete and as per directives of MDL Engineer	Kg	500.00	₹ 157.50	₹ 78,750.00
<b>Total (C)</b>					<b>₹ 19,07,649.55</b>
<b>Grand Total (A+B+C)</b>					<b>₹ 1,18,21,260.12</b>