

**Name of work. Furnishing work (Interior items) for gidb Project.**

**SCHEDULE - B**

**Memorandum showing items of works to be carried out**

Sr. No.	Quantities estimated but may be more or less	Unit	Item of work	Estimate Rates		Total Amount according to estimated quantities
				In figure Rs. Ps.	In Words	
1	2	3	4	5.00	6.00	7.00
1	2251	Sqmt	Dismantling tiled of stone floors laid in mortar including stacking of serviceable materilas and disposal of unserviceable materials with all lead and lift.			
2	765	Sqmt	Demolition of terrace including stacking of serviceable materilas and disposal of unserviceable materials with all lead and lift.(i) Brick tile covering.			
3	92	Each	Dismantling doors, windows, ventilators etc. (wood or steel) shutters including chowkhats architraves, holdfasts and other attachment etc. complete and stacking them within all lead and lift.(ii) Exceeding 3 Sq.M. in area.			
4	48	Each	Dismantling sanitary fittings like wash basin . W.C. pan Indian and European type, flushing tank etc. including stacking the materials with all lead and lift.			
5	3384	Sq.mt.	Removing and scraping of old deteriorated plaster of any thickness fromm wall / R.C.C member including stacking of serviceable material and disposal of unserviceable from site of work with all lead and lift			
6	33	Cu.mt.	Demolition of Brick work and stone masonry including stacking of serviceable materilas and disposal of unserviceable materials with all lead and lift.(ii) In Cement Mortar.			
7	10	Cu.mt.	Demolition including stacking of serviceable materilas and disposal of unserviceable materials with all lead and lift. (i) R.C.C. work			
8	288	Rmt	Dismantling waste water pipes/C.I. pipes /G.S.W.pipes abd A.C./ rain water pipes with fittings and clamps including stacking the materials with all lead and lift ( for any dia, of pipe)			
9	2107	Sq.mt.	Dismantling aluminium/ Gypsum partitions, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.			
10	1250	Sq.mt.	Carring out existing floor area structure by spraying chemical solution for termite control treatment including labour and material consistment with I.S.I specification. Using Chloridene and Chiorpurfiles 20 EC. As Per 6131_paret-II Concentration Weight one percent is recommended i.e one litre 20 EC chemical emulsion with 19 liter give 1 % concentration inclusive of one litre chemical emulsion appication at the rate of 5 Litre chemical / Sqm of surface is recommended as per I.S			
11	10	Cu.mt.	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in Cement Mortar 1:6 (1- Cement : 6 -fine sand)(B) Conventional at all floor level.			
12	181	Sq.mt.	Half brick masonry in common brunt clay building bricks having crushing strength not less than 35 Kg/Sq.Cm. in Cement mortar 1:3 ( 1-Cement : 3-coarse sand ) with 2 Nos of 6mm Mild steel round bars after every three course embedded in Cement Mortar in foundation and plinth (B) Conventional at all floor level.			
13	10	Cu.mt.	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork but excluding the cost of reinforcement for reinforced concrete work in SILL,LINTEL, (more than 10 ton) in RCC work for SILL,LINTEL at all floor level as directed by E.I.C.			
14	1500	Kg.	Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete at all floor level.			
15	2373	Sq.mt.	Providing 15 mm thick Water Proof cement plaster in single coat on brick/ceiling / concrete wall for interior plastering at all floor level finished even and smooth ( ii )Cement mortar 1:3 ( 1-cement ,3- sand ) and mixing waterproofing materials of approved brand and manufacture in cement mortar in proportion recommended by the manufacturer for All Floor level etc complete as directed by architect /EIC			
16	133	Sq.mt.	Providing Brick Bat Water Proofing treatment to floor and walls of water tank, w.c. & bath area, through approved agencies preparing floor and wall for water proofing work/ by chasing/cutting as per the companies requirement. Providing a layer of plaster with waterproofing compound/ admixture about 25 mm thick in the floor / depression and about 18 mm on the sidewalls / depression upto the floor level. The waterproof plaster about 18 mm thick to be continued on the walls above the floor level for a height of 600 mm with surface suitable to receive further finishing treatment all complete as per companies specifications and instructions and as directed for all heights and floors. The round vata shall be included in this in sq.mt. and shall be taken upto top of round on wall.			
17	770	Sq.mt.	Providing and laying white glazed tiles equal size pieces for CHINA MOSAIC WATER PROOFING TREATMENT to terrace including cleaning the surface opening the creaks in " V " grooves patterned filling the same water proof cement mortar 1:1(1 Cement : 1 Bodeli sand ) including B.B. as directed to have proper slope over a layer of C.M. 1:1 (1 Cement : 1 Bodeli sand) including finishing the top surface with 15mm thick water proof cement plaster in C.M. (1:3) (1 Cement : 3 Bodeli sand) and finishing with a floating coat of neat cement slurry using chemical water proofing compound as per manufactures specifications and standard specifications as per indian Water proofing or equivalent including curing at specified period as directed including finishing the top surface with equal size white glazed tiles pieces including round shape vata 100mm x 100mm size with filling white cement in joints, using chemical water proofing as per mfg., specification & standards with cleaning top surface using acid including drip moulding at the junction of vata & plaster etc.complete as directed by E.I.C.			

18	13	Cu.mt.	<b>Providing &amp; Laying CINDER FILLING</b> in architectural gap and sunk slab including compacting manually with rammer and finishing true line & level at all floor level etc.. complete as directed by E.I.C.			
19	19	Cu.mt.	<b>Providing and laying cement concrete 1:3:6</b> (1- Cement : 3- Coarse sand : 6- Graded brick bat aggregate 40mm normal size) and curing complete including cost of formwork at toilet sunk area.			
20	1289	Sq.mt.	<b>Providing &amp; laying GVT Vitrified tiles Mat finished / glossy finished 8 mm thick tile flooring</b> over 20 mm (average) base of cement mortar 1:6 ( 1 cement: 6 coarse sand) on new surface or fixing on existing flooring by chemical adhesive material including dismantling of existing flooring and jointed with color cement slurry including Making 3mm spacer at joint of tiles and fill the spacer with epoxy jointing material ,finised with flush pointing & cleaning the surface etc complete selection as directed by Architect/E.IC ( <b>SIZE: 1200 X 600 MM</b> )			
21	96	Sq.mt.	<b>Providing and laying GVT Vitrified tiles Mat finished / glossy finished 8 to 10 mm thick , 24" x 24" in Toilet flooring</b> laid on a bed of 12mm thick cement mortar 1:3 (1-cement : 3-coarse sand ) finishing with flush pointing in white cement, chemical adhesive material etc. completed & selection as directed by architect/EIC. and also make mockup for the same.			
22	528	Sq.mt.	<b>Providing and laying GVT Vitrified tiles Mat finished / glossy finished 8 to 10 mm thick , 24" x 24" in skirting and dedo</b> on 10mm thick cement plaster 1:3 (1- cement : 3-coarse sand) and jointed with white cement slurry ,chemical adhesive material. etc. completed & selection as directed by architect/EIC. and also make mockup for the same.			
23	5	Sq.mt.	<b>P/F 18 mm avg. thick double polished (both side) jet black granite slab for urinal partition</b> incl. making groove in wall and fixing properly in line & level incl. all cost of materials & labours etc. complete at all levels			
24	20	Sq.mt.	<b>Providing and fixing Sandwiched granite and kota as Kitchen/Pantry ,basin platform</b> of size as per detail drawing with 18mm thick granite of approved color + 30mm Cm in 1:4 + 20mm kotah stone one side polished in one piece for kitchen / platform. The joint shall be filled with white cement with pigments to match the color of the stone. The cutouts for Kitchen sink/pantry /basin counter if required shall be provided as per drawing. The platform shall be supported on pair of polished kotah stone @ 0.75 to 0.90 m c/c filled with cement slurry. It shall include facia. The facia and other edges shall be duly chamfered / rounded as per drawing. The stone shall be of one shade only and different shades if found will be rejected, finished sizes shall be measured & paid for.complete as per detailed drawings & directed by E.I.C. <b>at all floor level.</b>			
25	188	Sq.mt.	<b>Providing &amp; fixing 18 mm thick first quality Black Polished Granite stone</b> approved by Client/Architect for Doors - windows Frame, Lintel, jambs & sill in cement mortar (1:3) including cutting, fixing in cement paste with hairline joint, filling the joints with white cement / pigments / joint filler,rounding of edges, edge polishing & finishing as directed by the Engineer in Charge.( fixing the granite in one piece )			
26	9	Sq.mt.	<b>Providing and laying 18mm thick polished Granite stone SLAB flooring door sill (umra)</b> on 20mm (average) thick base of cement mortar 1:6 (1 cement : 6 course sand) laid over and jointed with coloured cement slurry including rubbing and polishing and including making half round moulding to toe of treads etc.. complete as directed by Engineer in Charge.			
27	35	Sq.mt.	<b>Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid decorative type flush door shutter 35MM</b> Thick of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/ mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/ borer proof, water/moisture proof and fire retardant. WPC to be laminated with PVC foil of minimum 14 microns thick of approved design pasted with hot melt adhesive on both faces of shutter and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge.			
28	90	Sq.mt.	<b>Providing and fixing window having extruded aluminum Colour anodized section frame main outer size 127mm x 38.10mm x 1.35mm @wt. 1.384kg/m, horizontal Four track member size 122.20mm x 31.75mm x 1.10mm@ wt 1.205 kg/m, vertical member of size 122.20mm x 31.75mm x 1.50mm @1.398 kg/mt with sliding shutters of horizontal member size 40mm x 18mm x 1.29mm@ 0.456kg/mt, vertical member of size 40mm x 18mm x 1.29mm @ 0.456 kg/mt with 5 mm thick transparent bronze colour tinted float glass with powder coated aluminum fittings and fixtures and transparent silicon sealant glass fixing to frame as per details etc complete for window.</b>			
29	8	Sq.mt.	<b>Providing and fixing window having extruded aluminum Colour anodized section frame main outer size 95mm x 24mm x 1.17mm @ wt.of 0.738 Kg/mt , horizontal Three track member size 92mm x 31.75mm x 1.30mm,@ Wt.1.07 Kg/mt , vertical member of size 92mm x 31.75mm x 1.50mm @ Wt. 1.06 Kg/mt with sliding shutters of horizontal member size 40 mmx18mm x1.29mm @ wt.of 0.456 Kg/mt, vertical member of size 40mm x 18mm x 1.29 mm @ wt.of 0.456Kg/mt/ with 5 mm thick transparent bronze colour tinted float glass with powder coated aluminum fittings and fixtures and transparent silicon sealant glass fixing to frame as per details etc</b>			

30	2	Sq.mt.	Providing and fixing window having extruded aluminum Colour anodized section frame main outer size 63.50 x 38.10 x 1.95 mm,@ Wt 1.094 Kg / Rmt, horizontal two track member size 61.85 mm x 31.75 mm x 1.20mm @ wt.of 0.695 Kg/mt, vertical member of size 61.85 mm x 31.75mm x 1.30 mm @ wt.of 0.659 Kg/mt with sliding shutters of horizontal member size 40mm x 18mm x 1.29mm @ wt.of 0.456Kg/mt, vertical member of size 40mm x 18mm x 1.29mm @ wt.of 0.456Kg/mt, @ Wt. 0.457 Kg/mt with 5 mm thick transparent bronze colour tinted float glass with powder coated aluminum fittings and fixtures and transparent silicon sealant glass fixing to frame as per details etc complete for window.			
31	6	Sq.mt.	Providing and fixing standard extruded of aluminium section of size 63.50 x 38.10 x 1.95 mm @ Wt 1.094Kg / Rmt with colour anodized aluminium frame with 5 mm thick transparent bronze colour tinted float glass with colour anodized aluminium frame for ventilation with 5 mm thick frosted glass as details etc complete for window			
32	2373	Sq.mt.	Applying two coats of Birla (white cement based) or Asian (acrylic lapy- putty) or equivalent & two coats of primer of approved brand and manufacture on new wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth with Wall painting (two coats) of plastic emulsion paint of approved brand and manufacture on undecorated wall / Ceiling surfaces to give an even shade (work for all the floors)			
33	17	Each	Providing and fixing PVC SWR Nahni trap IS 14735 for drain - 100 mm diameter with jali of the following nominal diameter of self cleansing design with C.I screed down or hinged grating including the cost of cutting and making good the walls.			
34	12	Each	Providing and fixing wash down water closet European type WC pan (Wall Hung) like JAQUAR CNS-WHT-963SPP SIZE OF 380X515X360 MM and P trap distance 23.5 cms with integral P trap including jointing the trap with soil pipe in cement mortar 1:1 (1 cement : 1 find sand) including providing and fixing of 1) Health Faucet heavy duty with SS braided hose 1.2 mt long pipe Jaquar ALD-563 with 2)control plate fusion JAQUAR-CHR-292415, 3)Single piece concealed cistern flush tank Jaquar JCs WHT 2400,4) CONCEAL BODY -FLUSH VALVE of Jaquar company model no FLV-1051 Concealed Flush Valve Complete with 32mm Size Control Cock & 200mm Long Operating Lever and testing the same etc., complete., as directed by EIC			
35	12	Nos.	Providing and fixing to level or slope 110mm dia. PVC-U SWR W.C. Connector of approved brand with lipring including rubber packing ring fixing with adhesive solvent cement and testing the same air and water tight... etc., Complete as directed by EIC.			
36	16	Nos.	Providing and fixing Wash Basin vitreous china counter top wash basin like JAQUAR SLS-WHT-6905 Thin Rim Table Top Basin,Shape - Round, Size : 360x360x120 mm with single hole for pillar tape with CP or MS brackets painted white including cutting holes and making good the same including (1) Providing and fixing SS waste coupling of 32 mm dia size half thread with 80mm height like jauar -ALD - 705 for wash basin with rubber plug (2) Providing and fixing SS bottle trap with internal partition of 32mm size with 250mm & 190mm long wall flange connection pipes and wall flange like jaquar ALD-769 of approved quality with necessary fitting for wash basin (3) Providing and fixing SS finish Pillar cock TALL BODY PILLAR COCK of JAQUAR company model no ORP-10005BPM Single Lever Tall Boy with 150mm Extension Body Fixed Spout without Popup Waste System with 600mm Long Braided Hoses with necessary fittings etc. complete (4) Providing and fixing SS finish soap dispenser with metallic bottle like Jaquar code-ACN-1137N and all testing the same etc., complete., as directed by EIC			
37	2	Nos.	Providing and fixing on platform stainless steel Nirali make Sink glossy ASIS 304 grade x 1mm thick with over all size 610x460mm & bowl size 560x410x200mm with pillar tap FLP-5347PM of approved brand including fixing the sink in platform & making good the same including the cost of PVC waste pipe of 32mm dia. and PVC waste coupline etc complete as directed by EIC.			
38	8	Each	Providing and fixing approved quality Urinal of JAQUAR company Model no ,URS-WHT-13253O Urinal with Fixing Accessories, Size: 385x325x635 mm including (1) Providing and fixing SS finish waste coupling of 32 mm dia size half thread with 80mm height like jauar -ALD - CHR 705 for wash basin with rubber plug (2) Providing and fixing SS finish bottle trap with internal partition of 32mm size with 250mm & 190mm long wall flange connection pipes and wall flange like jaquar ALD-769 of approved quality with necessary fitting for wash basin (3) CONCEAL BODY -FLUSH VALVE of Jaquar company model no FLV-1051 Concealed Flush Valve Complete with 32mm Size Control Cock & 200mm Long Operating Lever of approved quality and connection with waste pipe trap and all testing the same etc., complete., as directed by EIC			
39	12	Nos.	Providing and fixing Two way Bib tap of genuine JAQUAR company brand, model no ORP-10041PM , water tap brand or approved ISI brand quality, fixing in pipeline and testing the same etc., complete., as directed by EIC			
40	26	Nos.	Providing and fixing SS finish concealed Angular Stop Cock with Wall Flange Jaquar MODEL NOORP-10053PM etc complete., as directed by EIC			
41	12	Nos.	Providing and fixing toilet paper holder Jaquar model no ACN-CHR-1151N Towel Ring Round with Round Flange etc complete., as directed by EIC			
42	15	Nos.	Providing and fixing jaquar ACN-1185 Swivel Mirror 615 X 445mm Oval Shape mirror of superior glass including necessary hardware etc complete as directed by EIC.			
43	120	R.mt.	Providing laying and jointing in true line and level 15mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings make as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.			

44	250	R.mt.	Providing laying and jointing in true line and level 25mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings make as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.			
45	260	R.mt.	Providing laying and jointing in true line and level 40mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings make as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.			
46	7	Nos.	Providing & fixing 75 mm dia. PVC " Cowl Vent" of ISI make of working pressure 4 Kg/sq.cm. with adhesive solvent cement etc. in true line and level etc. complete as directed by Engineer In charge.			
47	7	Nos.	Providing & fixing 110 mm dia. PVC " Cowl Vent" of ISI make of working pressure 4 Kg/sq.cm. with adhesive solvent cement etc. in true line and level etc. complete as directed by Engineer In charge.			
48	115	R.mt.	Providing and fixing to wall ceiling and floor 10.0 Kg. F/Cm2 working pressure polythene pipes of the following outside Dia. Low density, complete with special falnge compression type fittings, wall clipsetc. including making good the wall ceiling and floor.(F) 75mm			
49	130	R.mt.	Providing and fixing to wall ceiling and floor 10.0 Kg. F/Cm2 working pressure polythene pipes of the following outside Dia. Low density, complete with special falnge compression type fittings, wall clipsetc. including making good the wall ceiling and floor.(F) 110mm			
50	270	R.mt.	Providing, laying and jointing in true line and level 160 diametre U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 160 mm diametre x 210 mm length x 196 mm height at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.			
51	225	R.mt.	Providing, laying and jointing (to level or slopes) 110mm diameter PVC-U RIGID pipes (Class 2) with working pressure 4 kg/cm <sup>2</sup> conforming to IS 4985-2000 with one end plain and other end socketed with rubbering and fitting conforming to ISI 7834 of ISI approved brand for Rainwater line fitted in floors or walls. Pipe shall be jointed with each other with rubber lubricant, Pipe shall be fixed on wall using PVC clamps at every 2000mm c/c or shall be concealed in wall as directed including necessary fitting such as bends, tees, shoe bend, end cap for future expansion etc. including testing of pipe & joints and jointed with adhesive solvent cement including the cost of all materials including cutting and making floors and walls as per original/good enough if require.... etc., complete. as directed by E.I.C.			
52	1	Each	Providing and fixing ball cock of approved. quality as directed.(B) Abonite (ii) 50mm dia.			
53	2	Each	Providing and fixing Gun metal check or non-return fullway wheel valve.(E) 40mm dia.			
54	5000	litre	Providing erecting and fixing double coated ISI water tank of required capacity each with all necessary fittings and connection etc. complete on terrace			
55	14	Quintel	M.s Cantilever balcony :Steel work, welded in built up sections framed work including cutting, hoisting, fixing in position and applying a priming coat of red lead paint. (A)In beams and joists, channels angles Tees, flats, with connecting plates or angle cleats as in main and cross beams. Hip and jack rafters, purlins conneted to common rafters etc complete as per detailed drawing & as directed by EIC			
56	2650	Kg.	Providing and fixing M.S. grills of required pattern to frames of windows & ventilation etc. with M.S. flats at required spacings and frame around, square or round bars with round headed bolts and nuts or by screws (A) Plain Grill. Etc complete as directed by architect /EIC at all floor level.			
57	189	Sq.mt.	Applying priming coat over new steel and other metel surface after and including preparing the surface by thoroughly cleaning,oil,grease, dirt and other foreign matter and scoured with brushes fine steel wood, scrapers and sand paper with ready mixed priming paint brushing red lead. and Painting two coats (excluding priming coat) on new steel and other metal surface with enamel paint, brushing, interior to give an even shade including cleaning the surface an even shade including cleanin the surface of all dirt, dust and other foreign matter. at all floor level.			
58	14	Sq MT	Supplying,Providing & fixing NUVOCOTTO TERRACOTTA BLOCKS partition at back side of reception table having thkness of 75 mm size 200x200x60 MM fixed with NSA OF ( ULTRATECH TILEFIXO VT )or equivalent its required MS FABRICATION WITH RECTANGULAR PIPE 60MM TO 75MM AND WIDTH 40MM TO 50 MM ( DEPENDING UPON STRUCTURE )(M.S pipe asian make),for fixing of block using WEBER OR EQUIVALENT TWO COMPONENT JOINT ADHESIVE,spacer 8 to 10 MM between the blocks &use Grouting material LIKE PERMA OR EQUIVALENT ISO CERTIFIED etc complete as directed by EIC.partition finish with all finish suggested paint or policesand decorative with suggested artificial green plants.all selection as per architect/EIC			

59	80.0362	Sq MT	<p>3" HIGH WOODEN DECK (false flooring)IN RECEPTION WITH WOODEN PLANK FLOORING:- Providing and fixing 3" high from finish floor lvl wooden plank flooring based on aluminium framing sizes of 100 mmx75 mm as maximum distance 600 mm c/c for aluminium section grid This specification covers supply, installation, leveling, finishing, protecting till 'handing over' of deck flooring system . The system should be of nominal 600mm x 600mm (35mm thick) modular panels with heavy-duty pedestals. The total system weight shall not exceed 40 kg/sq.m. The system shall be able to withstand a UDL of 2000 kg/m2 (1117Kg/Sq.mt) and a point load of 450 kg/in2.</p> <p>PANEL: Panels shall be made of steel with an infill of lightweight, non-combustible having fire resistance, thermal insulation, and flame resistance properties at 60 min cementitious material. The bottom of the panel shall be embossed in hemispherical shape to give strength and flexural rigidity.</p> <p>The infill material shall not become loose when the panels are cut. Panel should be able to withstand an ultimate load of at least 2.5 (3.00) times the designed point load.</p> <p>The entire panel shall be coated with epoxy powder coating of 75-100 microns on the exposed surface. The panel top &amp; bottom sheet shall be 0.9/0.7mm (0.7/0.6mm) resp. Flatness should be 0.2mm.</p> <p>The panels shall have a top covering of anti-static high pressure laminate with resistance of 2x105 – 5x108 ohms. The HPL thickness shall not be less than 1.5mm.(1.6mm).</p> <p>PEDESTAL: Pedestal base shall be square of 100mm x 100mm x 2mm bearing area and assemble to a tube of 22mm dia with 2mm wall thickness. The pedestal head should not be less than 3mm thick. The pedestals should be able to accept an axial load of 22,500N and an ultimate</p>			
60	9.756097561	Sq MT	<p>LOW HT WOODEN BOXES OUT OF PARTITION FOR GREEN PLANTATION "Providing &amp; Fixing low ht wooden boxes finished with 12 mm mdf finish with PU paint as suggested shape and height for artificial plantation ht (thickness of box is 79 mm) having 12 mm thick MDF on aluminum framing . Aluminum framing size for vertical &amp; horizontal support is 50 mm x 25 mm having guage of 16.. Grid of aluminum framing is 600 mm x 600 mm. All exposed surfaces of finished with 1 mm thick laminate of approved shade. Make necessary grooves as per shown in drawing. Necessary framing to be erected for box strengthening .Maximum height is0.60 mt. box fill with white pables and suggested green artificial plants as suggested by architect, Contractor has to provide all necessary cut outs (race ways.) for Electrical works &amp; no extra payment shall be made for it.</p>			
61	1.8468	Sq MT	<p>CORIAN TOP VINEER FINISH RECEPTION TABLE: Providing Labour &amp; Material for making (2.43x0.60 )reception table having 12mm Thk. Corian Top based on 18 mm thk MR grade plywood with all necessary proper solution , finished by rubbing and buffing (Corian top covers 100 mm bottom of ply at front of table &amp; 50 mm bottom of ply of inner side including edges of reception table, having three nos of base boxes of size 450x525x500 mm with providing drawers with telescopic channels &amp; shutters made up of 18mm thk MR grade Ply, Having 3" high Footrest between each box suppot &amp; bottom of the table covered by 25 mm x 25 mm thk bidding patti, All exposed surfaces covered by 4 mm thk vineer finished with suggested PU polish. internal area of table is covered with 1 mm thk lminateof suggested shed .use of PVD patties &amp; MDF fluted panels in elevation as suggested pattern , all complete with two nos of key board tray, drawers on telescopic channels, locks, stoppers, SS Screws,MS nails, Auto hinges as per shown in detail drawings &amp; as per instructions of architect / incharge engineer. Contractor has to provided all necessary cut outs for Electrical works &amp; no extra payment shall be made for it. Please see the Attached Make List for Apporoved Makes. Basic rate of laminatte is 1800 rsper sheet. Basic rate of vineer is 150 rs per sq ft.</p>			
62	207.39	Sq Mt	<p>FULL HT GLASS PARTITION WITH DOOR:-FULL HEIGHT SINGLE GLAZED PARTITION-(45x25mm SYSTEM ) SUPPLY AND INSTALLATION OF MODULAR ALUMINIUM SINGLE GLAZED PARTITION FRAME OF MAKE 45 SERIES USING CA 45.1 ( 45 X 25MM) WALL STARTER AND USING CA 45.2 &amp; CA 45.21 ( 45 X 25 MM) AS TOP AND BOTTOM CHANNEL PARTITION DIMENSION - 45 X 25 MM AND GLASS TO GLASS BUTT JOINT WITH ALUMINIUM I,L,&amp; T JOINTS FINISH:- BLACK ANODIZED FINISH TECH / SKY / GEZE. GLASS: 10 MM THK CLEAR TOUGHENED GLASS(Providing material and labour charge for fully glazed partition with 12 mm toughen glass fixing on suggested brackets . Providing material &amp; labour charge for making Fully Glazed Double leaf Door rest on 150 kg of floor spring door size of size 900 mm x 2225 mm each having 12 mm extra clear toughen glass with crystle edges &amp; frosted effects . All complete with hole ,cut work etc. Glazed Door supported on floor spring of 150 kg &amp; pivots with fitting on top/bottom/corner patch fittings . Pheripheral frame make with 12 mm MR grade ply finished with 1 mm thk suggested shed laminate based on 50mm x25 mm aluminium section (16 guage) Complete with all necessary hardwares like450 mm high handles, glass to glass locks/Conceal Mortise Locks etc as per details given in drawing and as per instructions of Architect/Engineer In charge</p>			
63	134.7	Sq Mt	<p>VINEER FINISH FLUSH PARTITON WITH DOOR Providing &amp; fixing veneer finish flush partition up to false ceiling ht (thickness of partition is 82 mm) having 12 mm thick mr 303 plywood both side on aluminum framing. Aluminum framing size for vertical &amp; horizontal support is 50 mm x 25 mm &amp; grid size is 600 mm x 600 mm . All exposed surfaces finished with 4 mm thick suggested veneer finish with PU Polish with mat finish . Make necessary grooves as per shown in drawing. All bottom ends are covered with Ghana teac bidding patti finished with veneer. Complete with all necessary hardware &amp; adhesives as per details given in drawing and as per instructions of Architect/consultant/Engineer In charge. Contractor has to provide all necessary cut outs (race ways.) for Electrical works &amp; no extra payment shall be made for it.</p>			

64	226.92	Sq Mt	<p>LAMINATE FINISH FLUSH PARTITION / PARTLY GLAZED PARTITION WITH DOOR Providing &amp; fixing full height partly laminated &amp; partly glazed partition (up to false ceiling ht ) (thickness of partition is 75 mm) using 12 mm thick mr grade plywood IS 303 both side on aluminum framing of guage 16 . Aluminum framing size for vertical &amp; horizontal support is 50 mm x 25 mm .Grid of aluminum framing is 600 mm x 600 mm. All exposed surfaces finished with 1 mm thick laminate of approved shade without any air gap and grooving as per design . Necessary framing to be erected above false ceiling (up to beam and slab height.) No extra cost to be paid for the same. Before installation, make hole/face plate for conduit pipes of electrical / networking cables with open able stud from partition Including all materials and labour etc. Same specification for laminate finish flush partition without using any glass.</p> <p>For glazing Using of 12 mm thick toughen clear glass with proper crystal edges &amp; with suggested frosted films on glass. Frosted film material rate is provided extra as per given cost in tender item. All joints are covered with Ghana teak bidding Patti finished with laminate. Complete with all necessary hardware &amp; adhesives as per details given in drawing and as per instruction of Architect/consultant/Engineer In charge.</p>			
65	35	Sq Mt	<p>MDF FLUTED BAFFLE PANEL/PVC FLUTED BAFFLE PANEL CEILING The works include providing &amp; fixing of 18 mm MDF Ply Board Ceiling finih with pU color or readymade PVC Baffle panel ceiling which Incorporates a fully concealed Aluminum grid. Complete with all necessary hardware, fittings and accessories. Finish with suggested laminates. The job also includes providing access panels, cutting of spot lights, luminaries, speaker, etc. Sheets in size 8' x 4' laminate 1 mm in thickness. as suggested shed. 1/2" (or 3/8") screwed on steel stud system. The steel stud frame consisting of main furring Alum channel at every 600 mm and cross channel at every 600 mm. At bottom of laminate area fixing of MDF fluted panels finish with PU paint as suggested shed . Both main and cross channels are attached though jaw clip. Screws will be corrosion proof either Chromised or Cynated. Screw fixing is done mechanically with drilling machine &amp; suitable attachment. The gaps will be initially filled with jointing compound and then taped by self adhesive covered with proper jointing compound..Contractor has to provide all necessary cut outs for Electrical works &amp; no extra payment shall be made for it.</p>			
66	291.45	Sq Mt	<p>LAMINATE FINISH COLUMN PANELING:Providing &amp; fixing column paneling having suggested aluminum grid of 37mm x 37mm or 50mmx 25 mm framing (whichever requires.)Having 16 guage) of size 600 mm x600 mm by aluminium sections of given size. Grid frame is covered with 12mm thick mr grade plywood. To create suggested groove &amp; neices. All grooves are finished with laminate. All exposed surfaces covered with 1 mm thick laminates of approved shade as instructed by Architect/consultant/Engineer In charge. Complete with all hardwares like s nails, ss screws, adhesives etc. shown in detail drawings. Contractor has to provide all necessary cut outs for Electrical works &amp; no extra payment shall be made for it. Amount shall be paid only for the Paneling between the False Ceiling &amp; Flooring.Use of PVD patties and fluted laminate as suggested,Basic rate of fluted laminate is 2000 rs per sheet.</p>			
67	15	Sq Mt	<p>PLY LAMINATE CEILINGThe works include providing &amp; fixing of Ply Board Ceiling which Incorporates a fully concealed Aluminum grid. Complete with all necessary hardware, fittings and accessories. Finish with suggested laminates. The job also includes providing access panels, cutting of spot lights, luminaries, speaker, etc. Sheets in size 8' x 4' laminate 1 mm mm in thickness. finish with suggested shed.above 12 mm ply . 1/2" (or 3/8") screwed on steel stud system. The steel stud frame consisting of main furring Alum channel at every 600 mm and cross channel at every 600 mm. Both main and cross channels are attached though jaw clip. Screws will be corrosion proof either Chromised or Cynated. Screw fixing is done mechanically with drilling machine &amp; suitable attachment. The gaps will be initially filled with jointing compound and then taped by self adhesive covered with proper jointing compound..Contractor has to provide all necessary cut outs for Electrical works &amp; no extra payment shall be made for it.</p>			
68	3	nos	<p>VINEER FINISH TABLE 1.80X.90 Providing &amp; fixing veneer finish table having given size with height of 750 mm (as per attached detail drawing) Table having 40 mm Thick. rest on 18 mm MR grade ply . Top is cantilever then its base supports. Base supports made by 18 mm thick sandwich ply . A Table having two nos of drawers and a shutter for both sides in a pedestal and a key board tray at mid of table. Drawers &amp; Keyboard tray rest on telescopic channels. Shutters &amp; drawers having thickness of 24 mm which are made by 18 mm + 6 mm ply to create conceal grooves as handle. Drawers &amp; keyboard side, Bottom &amp; Back of pedestal are made up of 12 mm thick mr grade Ply Wood. Having 3" high Footrest of 18 mm ply.(</p> <p>(1) In elevation suggested use of pvd patties and fluted panels. )</p> <p>All Exposed surfaces covered with 4 mm thick veneer complete with PU polish. And internal surfaces covered by 1mm thick laminate. all complete with given no of key board tray, drawers on telescopic channels, locks, stoppers, SS Screws,MS nails, Auto hinges, Cable Manager etc as per shown in detail drawings &amp; as per instructions of architect/consultant / in charge engineer. Contractor has to provide all necessary cut outs for Electrical works &amp; no extra payment shall be made for it.</p>			
69	15.075	sq mt	<p>VINEER FINISH CREDENZA Providing &amp; fixing Veneer Finish back credenza having depth of 375 mm , with corian top (top width is 450 mm (which covers sides, edges &amp; 50 mm bottom of ply,front edge1.5" )) based on 19mm Thick. MR grade Ply Wood with all necessary proper solution, finished with rubbing and buffing. Having vertical sandwich supports for shutters &amp; horizontal single self as per given in detail drawings drawers made out of 18 mm Thick. MR grade Ply Wood. Backside of credenza is covered with 12 mm thick MR grade plywood. All exposed and internal Joints complete with burma border bidding patti finished with laminate/melamine polish . All exposed surfaces covered with 4 mm veneer and finished with PU Polish with mat finish and internal surfaces covered with 1 mm thick approved shade laminates as instructed by Architect/consultant/Engineer In charge. Complete as per detail Drawings, with all hardware like MS nails, SS-304 screws, magnet, Stoppers, L - hinges, table chain, 4" mat finish SS handles etc.</p>			

70	3	NOS	GLASS TOP VINEER FINISH ROUND TABLE Providing & fixing glass top vineer finish meeting table having 12 MM thk toughen glass on top with all bewale and crystal edges fitted with pvc buffers . base support made with 12 mm thk sandwich ply of square box base size of 450mm x 450 mm with 12 mm deep suggested grooves /patties as suggested in pattern finish with 4 mm thk vineer complete with suggested pu polish. veneer finish meeting table 750 mm height , 900 mm diametre table have base of 12 mm + 12 mm (top,bottom & all sides) thick sandwich plywood for supporting vertical supports. Ply for grooving as indicated in drawing. (as per details given in sectional drawing) Edges of the table covered by burmaborder bidding Patti finished with veneer/polish. All external surfaces covered by 4mm thick veneer, complete with PU spray polish.All internal surfaces covered with All complete as per shown in detail drawings & as per instructions of architect / in charge engineer. Contractor has to provide all necessary cut outs for Electrical works & no extra payment shall be made for it.			
71	67.482	Sq Mt	LAMINATE FINISH WALL PANELING: Providing & fixing wall paneling having suggested aluminum grid of 37mm x 37mm or 50mmx 25 mm framing (whichever requires.)Having 16 gauge) of size 600 mm x600 mm by aluminium sections of given size. Grid frame is covered with 12mm thick mr grade plywood. To create suggested groove & neices. suggested use of pvd patties, fluted laminate and fluted panel. All grooves are finished with laminate. All exposed surfaces covered with 1 mm thick laminates of approved shade as instructed by Architect/consultant/Engineer In charge. Complete with all hardwares like s nails, ss screws, adhesives etc. shown in detail drawings. Contractor has to provide all necessary cut outs for Electrical works & no extra payment shall be made for it. Amount shall be paid only for the Paneling between the False Ceiling & Flooring.			
72	137.8995732	Sq Mt	VENETIAN BLIND: Providing and fixing wood blinds as per approved make spring drive system with steel ball chain/one touch with speed control action wood blind with palmet , end brackets with head rail, components, bottom bar. Solar protection Fabric of Color with manual operation and warranty etc as per manufacturer's specifications. material to be as per approved sample. All the work complete as per the detailed drawing and instruction of Architect/consultant/ENGINEER IN CHARGE.(Contractor shall provide treated wooden pelmet complete in all respects on which all blinds shall be fixed and should also take load of all the manual blinds).			
73	13.984	Sq Mt	LAMINATE FINISH WORKSTATIONS Providing & fixing work station of suggested lenth 0.60 mt width x 0.76 ht. having ht of 750 mm Top, bottom & vertical supports of table having suggested no of drawers & 1 no of shutters made by 19 mm thick Ply wood. Drawers are made up of 19mm thick Ply Wood. Back Ply of table is also made up of 12mm Thick. Ply Wood. 2 Drawer units attached with main table are made up of 19mm thick. Ply wood at all Sides & 19mm thick Ply wood bottom. All Drawers & Keyboard Trey rest on Telescopic Channels. All internal & external Joints finished with Burma teak bidding Patti. All exposed and internal surfaces covered with 1 mm thick approved shade laminates & Complete as per detail drawings & as instructed by Architect/consultant/ Engineer In charge. Complete with all necessary hardware like nails, ss screws, magnet, hinges, locks for drawers & shutter, table chain, Key board trey, TDS channel, adhesives etc. Contractor has to provide all necessary cut outs for Electrical works & no extra payment shall be made for it.			
74	62.73	Sq Mt	LAMINATE FINISH CREDENZA: Providing Material & Labour charge for making Laminate Finish Low ht side credenza having depth of 375 mm , with 18 mm mr grade ply top, based on sandwidth vertical supports made by 18 mm Thk. mr grade Ply Wood with all shutters & horizontal single self (made by 18 mm thk mr grade ply) as per given in detail drawings. Backside of low ht storage is covered with 12 mm thk plywood.Shutters made with 18 mm +6 mm ply with conceal handles. All exposed and internal Joints complete with burma border bidding patti (25 mm x 12 mm) finished with melamine polish. All exposed and internal surfaces covered with 1 mm thk approved shade laminates as instructed by Architect/Engineer In charge. Complete with all hardwares like MS nails, ss-304 screws, magnet, Stoppers, L - hinges, 19 mm multilocks, table chain, conceal handles etc			
75	23.4	Sq Mt	LAMINATE FINISH STORAGE UP TO 1.52 MT HT. := Providing & fixing low ht storage having suggested length & 1.52 MT height and having depth of 450 mm, having skirting of 75 mm, with proper locks. suggested nos of vertical supports & horizontal shelves made by 18 mm thick MR grade ply, having shutters of 8 mm thick double sandwich ply with using 12 mm thick MR ply for framing. All complete with proper Burma border biding. Back ply is 12 mm MR grade ply. All exposed & internal surfaces are covered with 1 mm thick laminate. External & internal joints covered with bidding Patti complete with laminate finish. All complete with proper hardware like locks, S.S. Screws, MS Nails, Magnets, table chains, cable manager SS 304 Handles of 250 mm and 100 mm dia etc. All Details as per shown in detail drawings & as per instructions of architect/consultant / in charge engineer			
76	3	Sq Mt	LAMINATE FINISH OVERHEAD STORAGE:- Providing & fixing Laminate Finish overhead storage having depth of 450 mm , with 18 mm mr 303 grade grade ply top & vertical supports made by 18 mm Thick. 303 grade Ply Wood with all shutters & horizontal single self (made by 18 mm thick IS 303 grade ply) as per given in detail drawings.Bottom made with 12 mm ply. Backside of storage is covered with 12 mm thick plywood. Shutters made with 18 mm + 6 mm ply with conceal handles. All exposed and internal Joints complete with burma border bidding patti finished with melamine polish. All exposed and internal surfaces covered with 1 mm thick approved shade laminates as instructed by Architect/consultant/Engineer in charge. Complete with all hardware like MS nails, ss-304 screws, magnet, Stoppers, L - hinges, 19 mm multilocks, table chain, conceal handles etc.			

77	14.16	Sq Mtt	VINEER FINISH HAVING CORIAN TOP CONFERENCE TABLE. Providing & fixing corian top veneer finish conference table having size of 2400x 5800 mm , 750 mm height , 12mm Thick. Corean Top based on 18 mm thick MR grade plywood finished by rubbing ,buffing & pasting (Core an top covers 300 mm bottom of table at longitunal side & 300 mm bottom of table at shorter side including edges) table have base of 18 mm thick MR grade plywood for footrest & supporting vertical supports made by of 12mm+8 mm thick sandwiched Ply for grooving as indicated in drawing. At internal sides use of 0.30 mt ht 5 mm smoke mirror/ acrylic mirror laminate which are pasting on ply with use of appropriate silikon. (as per details given in sectional drawing) Base of the table covered by burmateak bidding Patti finished with veneer. All external & internal surfaces covered by 4 mm thick veneer, complete with PU spray polish All complete as per shown in detail drawings & as per instructions of architect / in charge engineer. Contractor has to provide all necessary cut outs for Electrical works & no extra payment shall be made for it.			
78	32.58	Sq Mtt	ACAUSTIC PANELING: Providing & Fixing acausticpaneling as suggested pattern having 12 mm thk acoustic sheet on 6 mm ply (acaustic sheet (plane or colorful) ) suggested sides (single or both side) on aluminum framing . Aluminum framing size for vertical & horizontal support is 50 mm x 25 mm. Grid of aluminum framing is 600 mm x 600 mm. To fill absorb wool in all alu framing . All exposed surfaces of ply finished with suggested shed acoustic sheet/panels as per given pattern in design. acaustic sheet is fitted with 10 mm thk foam with gripper acaustic sheet with help of stapplers on uniformly distances . Create necessary colorful patterns with using acoustic panels/suggested fabric as per shown in drawing. Necessary framing to be erected above false ceiling (up to beam and slab height.) No extra cost to be paid for the same. Before installation, make hole/face plate for conduit pipes of electrical / networking cables with open able stud from partition Including all materials and labor etc. All joints are covered with bidding Patti finished with polish /color/fabric as per actual site finish. Complete with all necessary hardware & adhesives as per details given in drawing and as per instructions of Architect/Engineer In charge. Contractor has to provide all necessary cut outs (race ways.) for Electrical works & no extra payment shall be made for it. gripper fabric acaustic sheet basic cost is 140 rs sq ft .			
79	33.51578537	Sq Mtt	FULL HEIGHT STORAGEProviding & fixing full ht storage having suggested length & 2400 mm height and having depth of 600 mm, having skirting of 75 mm, with proper locks. 5 nos of vertical supports & suggested no of horizontal shelves made by 18 mm thick MR grade ply, having shutters of 8 mm thick double sandwich ply with using 12 mm thick MR ply for framing. All complete with proper Burma border biding. Back ply is 12 mm MR grade ply. All exposed & internal surfaces are covered with 1 mm thick laminate. External & internal joints covered with bidding Patti complete with laminate finish. All complete with proper hardware like locks, S.S. Screws, MS Nails, Magnets, table chains, cable manager SS 304 Handles of 250 mm and 100 mm dia etc. All Details as per shown in detail drawings & as per instructions of architect/consultant / in charge engineer			
80	12.5324	Sq Mtt	CORIAN TOP VINEER FINISH CREDENZA Providing & fixing Corian Top Veneer Finish back credenza having depth of 375 mm , with corian top (top width is 450 mm (which covers sides, edges & 50 mm bottom of ply,front edge1.5" )) based on 19mm Thick. MR grade Ply Wood with all necessary proper solution, finished with rubbing and buffing. Having vertical sandwich supports for shutters & horizontal single self as per given in detail drawings drawers made out of 18 mm Thick. MR grade Ply Wood. Backside of credenza is covered with 12 mm thick MR grade plywood. All exposed and internal Joints complete with burma border bidding patti finished with laminate/melamine polish . All exposed surfaces covered with 4 mm veneer and finished with PU Polish with mat finish and internal surfaces covered with 1 mm thick approved shade laminates as instructed by Architect/consultant/Engineer In charge. Complete as per detail Drawings, with all hardware like MS nails, SS-304 screws, magnet, Stoppers, L - hinges, table chain, 4" mat finish SS handles etc.			
81	1	nos	CORIAN TOP VINEER FINISH CEO TABLEProviding & fixing corian top veneer finish table having given size ( & Shape (4.11x1.0 mt in half circular shape ) with height of 750 mm (as per attached detail drawing) Table having 40 mm Thick. at top made by corian finish with buffing polishing etc rest on 18 mm MR grade ply . Top is cantilever then its base supports. Base supports made by 18 mm thick sandwich ply . A Table having two nos of drawers and a shutter for both sides in a pedestal and a key board tray at mid of table. Drawers & Keyboard tray rest on telescopic channels. Shutters & drawers having thickness of 24 mm which are made by 18 mm + 6 mm ply to create conceal grooves as handle. Drawers & keyboard side, Bottom & Back of pedestal are made up of 12 mm thick mr grade Ply Wood. Having 3" high Footrest of 18 mm ply.(1) In elevation use of Fluted Panel & PVD patties as suggested in drawing. All Exposed surfaces covered with 4 mm thick veneer complete with PU polish. And internal surfaces covered by 1mm thick laminate. all complete with given no of key board tray, drawers on telescopic channels, locks, stoppers, SS Screws,MS nails, Auto hinges, Cable Manager etc as per shown in detail drawings & as per instructions of architect/consultant / in charge engineer. Contractor has to provide all necessary cut outs for Electrical works & no extra payment shall be made for it.			



82	6.097560976	Sq Mtt	UV MARBLE PVC SHEET PANELING AT CEO CABIN :-Providing & fixing UV Marble PVC sheet paneling having suggested aluminum grid of 37mm x 3 mm 37mm or 50mmx 25 mm framing (whichever requires.)Having 16 guage) of size 600 mm x600 mm by aluminium sections of given size. Grid frame is covered with 12mm thick mr grade plywood.and as finish material use of 3 mm uv marble sheet with using PVD patties of suggested thkness . Complete with all hardwares like s nails, ss screws, adhesives etc. shown in detail drawings. Contractor has to provide all necessary cut outs for Electrical works & no extra payment shall be made for it. Amount shall be paid only for the Paneling between the False Ceiling & Flooring.Basic rate of UV sheet is 250 rs per sq ft.			
83	1.4	Sq Mtt	LAMINATE FINISH TABLE IN PS CABIN (1.75x0.80x0.75)= :- Providing & fixing laminate finish table having given size with height of 750 mm (as per attached detail drawing) Table having 38 mm Thick .at top made by 18 mm thick sandwich ply . Top is cantilever then its base supports. Base supports made by 18 mm thick sandwich ply. A Table having drawers and a shutter in a pedestal and a key board tray at single end. Drawers & Keyboard tray rest on telescopic channels. drawers having thickness of 24 mm which are made by 18mm + 6 mm ply to create conceal grooves as handle. Drawers & keyboard, sides, Bottom is covered with 18 mm MR grade ply & Back of pedestal are made up of 12 mm thick MR grade Ply Wood. Having 3" high Footrest of 18 mm ply. At Front facade (covered with grooves as per given patterns. All internal and external surfaces covered by 1mm thick laminate. all complete with given nos of key board tray, drawers on telescopic channels, locks, stoppers, SS Screws,MS nails, Auto hinges, Cable Manager etc as per shown in detail drawings & as per instructions of architect/consultant / in charge engineer. Contractor has to provide all necessary cut outs for Electrical works & no extra payment shall be made for it.			
84	13.83	Sq Mt	LAMINATE FINISH WORKSTATION: Providing & fixing work station of suggested length with privacy partion at edges of table with magnatic board and soft board cladding as suggested 0.60 mt width x 0.76 height having ht of 750 mm Top, bottom & vertical supports of table having suggested no of drawers & 1 no of shutters & drawers made by 19 mm thick Ply wood. Drawers are made up of 19mm thick Ply Wood. Back Ply of table is also made up of 12mm Thick. Ply Wood. Drawer units attached with main table are made up of 19mm thick. Ply wood at all Sides & 19mm thick Ply wood bottom. All Drawers & Keyboard Trey rest on Telescopic Channels. All internal & external Joints finished with Burma teak bidding Patti. All exposed and internal surfaces covered with 1 mm thick approved shade laminates & Complete as per detail drawings & as instructed by Architect/consultant/ Engineer In charge. Complete with all necessary hardware like nails, ss screws, magnet, hinges, locks for drawers & shutter, table chain, Key board tray, TDS channel, adhesives etc. Contractor has to provide all necessary cut outs for Electrical works & no extra payment shall be made for it.			
85	8.0586	Sq Mt	LAMINATE FINISH SMALL MEETING ROOM TABLE AT EIGHT FLOOR:Providing & fixing laminate finish conference table having size of 2400x 5800 mm , 750 mm height , 40 mm Thick. Top MR grade plywood table have base of 18 mm thick MR grade plywood for footrest & supporting vertical supports made by of 12mm+8 mm thick sandwiched Ply for grooving as indicated in drawing. At internal sides use of 0.30 mt ht 5 mm smoke mirror/ acrylic mirror laminate which are pasting on ply with use of appropriate silikon. (as per details given in sectional drawing) Base of the table covered by burmateak bidding Patti finished with laminate. All external & internal surfaces covered by 1 mm thick laminate. All complete as per shown in detail drawings & as per instructions of architect / in charge engineer. Contractor has to provide all necessary cut outs for Electrical works & no extra payment shall be made for it.			
86	14.835	Sq Mt	PREFUNCTIONAL COUNTERS : Providing & fixing prefunctional service counter under granite platform having 12 mm +9 mm thick MR grade plywood as shutters both side 1 mm laminate finish including hinges, magnet, table chains , complete with bidding patties and all hardwares. All exposed and internal surfaces finished with 1 mm thick laminate of approved shade . All joints are covered with Ghana teac bidding patti finished with laminate. complete including require nos of drawer and shutter all type of fittings , fixtures, hardware approved make etc complete .SS 304 grade conceal handle shall be provide as per approved selection &detailed drawing and instruction of Architect/consultant/ PMC Contractor has to provided all necessary cut outs (race ways.) for Electrical works & no extra payment shall be made for it.			
87	6.506543724	Sq Mt	ELECTRICAL PANEL CUPBOARD: -ELECTRIC CUPBOARD SHUTTERS ELECTRICAL PANEL CUPBOARD WITH LOWARDS Providing and fixing Electric cup board using 18 mm thick Bison board for inside verticle division, shelves and shutter. Aluminium framing of 50x25x1.20mm thick with 6 mm thick Bison board on both side for outer partition with 1.0 mm thick laminate on all exposed surface and polishing/ synthetic enamel paint on all internal surface. Shutter will have approved make lock, handle, hinges, ball catches & S.S Perforated jali etc.complete as directed. Depth of cup board will be around 1'-3". Height of shutter will be maximum 7'-0". Only Front elevation shall be measured for payment purpose.			

88	30.78	Sq Mt	LAMINATE FINISH TABLE 1.50X0.86 X0.75 Providing & fixing laminate finish table having given size with height of 750 mm (as per attached detail drawing) Table having 38 mm Thick .at top made by 18 mm thick sandwich ply . Top is cantilever then its base supports. Base supports made by 18 mm thick sandwich ply. A Table having drawers and a shutter in a pedestal and a key board tray at single end. Drawers & Keyboard tray rest on telescopic channels. drawers having thickness of 24 mm which are made by 18mm + 6 mm ply to create conceal grooves as handle. Drawers & keyboard, sides, Bottom is covered with 18 mm MR grade ply & Back of pedestal are made up of 12 mm thick MR grade Ply Wood. Having 3" high Footrest of 18 mm ply. At Front facade (covered with grooves as per given patterns. All internal and external surfaces covered by 1mm thick laminate. all complete with given nos of key board tray, drawers on telescopic channels, locks, stoppers, SS Screws,MS nails, Auto hinges, Cable Manager etc as per shown in detail drawings & as per instructions of architect/consultant / in charge engineer. Contractor has to provide all necessary cut outs for Electrical works & no extra payment shall be made for it.			
89	25.56402439	Sq Mt	LAMINATE FINISH CREDENZA UP TO 1.52 MT HT:Providing & fixing Laminate Finish Low ht back credenza having depth of 375 mm , with 18 mm mr grade ply top, based on sandwich vertical supports made by 18 mm Thick. mr grade Ply Wood with all shutters & horizontal single self (made by 18 mm thick MR grade ply) as per given in detail drawings. Backside of low ht storage is covered with 12 mm thick plywood. Shutters made with 18 mm + 6 mm ply with conceal handles. All exposed and internal Joints complete with burma border bidding patti finished with melamine polish. All exposed and internal surfaces covered with 1 mm thick approved shade laminates as instructed by Architect/consultant/Engineer in charge. Complete with all hardware like MS nails, ss-304 screws, magnet, Stoppers, L - hinges, 19 mm multilocks, table chain, conceal handles etc.			
90	61.99695122	Sq Mt	LAMINATE FINISH LOW HT PARTITION:- LOW HT PARTLY GLAZED /FLUSH PARTITION UPTO 1.21 MT HT: Providing & Fixing partly laminated & partly glazed partition up to 1.21 m ht (thickness of partition is 68 mm) having 8 mm thick MR grade plywood is 303 grade both side of aluminum framing of gauge 16 Aluminum framing size for each support is 50 mm x 25 mm. having grid of 600 mm x 600 mm. Finished with 1 mm thick laminate at all exposed surfaces of approved shade. Make necessary grooves as per shown in drawing. Using of 12 mm thick frosted glass with proper crystal edges. Using of 12 mm thick toughen clear glass with proper crystal edges & with suggested frosted films/color films on glass. Glass starts from 1.00 mt lvl . All joints are covered with Burma border bidding Patti finished with Laminate/polish. Complete with all necessary hardware & adhesives as per details given in drawing and as per instructions of Architect/consultant/Engineer In charge. Contractor has to provide all necessary cut outs for Electrical works & no extra payment shall be made for it. this includes Rates for both items partly glazed partition/flush partion.			
91	20	Sq Mt	OPEN SELVES STORAGE FOR TROPHY /DISPLAY:- Providing & fixing laminate Finish trophy cupboard having depth of 375 mm , FOR SHUTTER:- framing of 18 mm Thick. MR grade Ply Wood with all necessary proper adhesive and hardwares,having 12 mm tinted brown glass with crystle edges & frosted effects for shutter fixed in ply framing . All complete with hole ,cut work etc. Pheripheral frame make with 18 mm MR grade ply finished with 1 mm thk laminate of suggested shed . FOR STORAGE BODY :- Having pheripheral vertical sandwich supports & horizontal single selves as per given in detail drawings made out of 18 mm Thick. MR grade Ply Wood. Backside of storage is covered with 12 mm thick MR grade plywood. All exposed and internal Joints complete with burma border bidding patti finished with laminate/ polish . All exposed surfaces covered with 4 mm veneer and finished with PU Polish with mat finish and internal surfaces covered with 1 mm thick approved shade laminates as instructed by Architect/consultant/Engineer In charge. Complete with all necessary hardwares like handles, glass to glass locks/Conceal Mortise Locks,with all hardware like MS nails, SS-304 screws, magnet, Stoppers, L - hinges, table chain, etc. as per details given in drawing and as per instructions of Architect/Engineer In charge .			
92	15	Sq Mt	LAMINATE FINISH CENTRE CUBICALS :1.30X0.80 WITH CENTRE CLUSTER OF GREEN PLNTATOIN Providing & fixing laminate finish cubical table having given size with height of 750 mm (as per attached detail drawing) having connected green plant stand at centre area Table having 38 mm Thick .at top made by 18 mm thick sandwich ply . Top is cantilever then its base supports. Base supports made by 18 mm thick sandwich ply. A Table having a key board tray at single end. Keyboard tray rest on telescopic channels. s, Bottom is covered with 18 mm MR grade ply & Back of pedestal are made up of 12 mm thick MR grade Ply Wood. Having 3" high Footrest of 18 mm ply. having privacy screen cover with softbord paneling on 12 mm ply as suggested color. All internal and external surfaces covered by 1mm thick laminate. all complete with given nos of key board tray, drawers on telescopic channels, locks, stoppers, SS Screws,MS nails, Auto hinges, Cable Manager etc as per shown in detail drawings & as per instructions of architect/consultant / in charge engineer. Contractor has to provide all necessary cut outs for Electrical works & no extra payment shall be made for it.			

93	1260	Sq Mt	<p><b>GYPSUM CEILING</b>The works include supply and installation &amp; fixing of Gypsum Board Ceiling which Incorporates a fully concealed GI fixing grid of ultra channel 18 gauge. Complete with all necessary hardware, fittings and accessories. Board joints are not visible and all gaps are filled with gypsum jointing compound like gypsum powder . The job also includes providing access panels, cutting of spot lights, luminaries, speaker, etc. Sheets in size 4' x 8' in thickness ½" (or 3/8") screwed on steel stud system. The steel stud frame consisting of main furring GI channel at every 600 mm and cross channel at every 600 mm . Both main and cross channels are attached through jaw clip. Screws will be corrosion proof either Chromites or Cynated. Screw fixing is done mechanically with drilling machine &amp; suitable attachment. Finally the boards are to be jointed &amp; finished so as to have a flush look which includes filling &amp; finishing with jointing compound, paper tape and two coats of top coats of gyp board, etc completed.</p> <p>The gaps will be initially filled with joining gypsum plaster compound and then taped by self adhesive covered with proper jointing compound like gypsum powder. Contractor has to provided all necessary cut outs for Electrical works &amp; no extra payment shall be made for it.</p>			
94	450.95	Sq Mt	<p><b>GRID CEILING: LIGHT WEIGHT CALCIUM SILICATE CEILING:</b> Providing and fixing eco-friendly light weight calcium silicate false ceiling tiles having Tegular edge &amp; 15 mm Thick edges on the Tile Periphery for Extra Strength The Light weight calcium silicate ceiling tiles shall have , light reflection 85% non-combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity 0.043° w/m KC.for the best thermal insulation . The Light weight calcium Silicate tile shall be of approved texture Fine fissured/ Spintone/Cosmos having NRC value of 0.5 &amp; Globe having NRC value of 0.75 NRC or equivalent of size 595 X 595 mm to be laid on true horizontal level suspended inter locking metal grid of hot dipped galvanized steel sections (galvanizing @120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and size of 24X38mm made from 0.30 mm thick (minimum) sheet, 1200mm centre to centre, and cross 'T' of size 24X28mm made out of 0.33mm (Minimum) sheet spaced 1200mm along spaced between main 'T' at 600mm centre to centre to form agrid of 1200X600mm and secondary cross 'T' of length 600mm and size 24x28mm made of 0.30 mm thick (Minimum) sheet to be interlocked at middle of the 1200X600mm panel to form grid of size 600X600mm resting on periphery walls/partitions on a perimeter wall angle pre-coated steel of size (24X24X3000mm made of 0.40mm thick (minimum) sheet with the help of rawl plugs at 450mm centre to centre with 25mm long dry wall screws @ 230mm interval and laying 15mm thick Densified edges light weight calcium silicate ceiling tiles of approved texture (Fine Fissured/Cosmos/Spintone) in the grid including, cutting /making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required, Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25X35X1.6mm fixed to ceiling with 12.5mm dia and 50mm long dash fasteners, 4mm G.I. adjustable rods with galvanized steel level clips of size 85X30X0.8mm, spaced at 1200mm centre to centre long main 'T' bottom exposed with 24mm of all T-sections shall be pre-painted with polyester baked paint, for all heights, as per specifications, drawings and as directed by engineer-in-charge.</p>			
95	25	Sq Mt	<p><b>STRETCH FABRIC CEILING :</b> Providing &amp; fixing NAKSHATRA CLIPSO ACOUSTIC coverings (ceiling &amp; wall) made out of polyester knitted fabric coated with Polyurethane (PU). The NAKSHATRA CLIPSO ACOUSTIC fabric width of 2m, 3m, 4m &amp; 5.1m with weight of 230-330gm/m2, +/- 10% and thickness of 0.4 mm. The appearance of CLIPSO ACOUSTIC fabric should be matt, smooth and uniform with blanqcolor and light Fastness &gt; 8. The tear strength of fabric should be accordance to CH: 5.5daN; TR: 7.5 daN. The fire rating should be accordance to B-S1, do. The fabric should be humidity resistant and free of carcinogenic substances (CMR) or volatile organic Compounds (VOC's). At labeling in accordance with the French decree no. 2011-321, OcKo-Ter standard 100 certified. The fabric should be paintable/printable with approved manufacturer guidelines with 10-year manufacturer guarantee.</p> <p>The installation of NAKSHATRA CLIPSO ACOUSTIC fabric should be dry installation &amp; done at room temperature using CLIPSO PVC, ABS tension profiles P-CC/P-CW/P-C10QS/P-C11QS/P-CCB022/P-B1/PCC1P and backing with Insulating Felt LA 54 with stated properties (100% synthetic (mineral fiber), weight 350gr/m2, +/- 5%, color white, thickness 50 mm, fire rating confirms to EN1350-1-1 : B-s1, d0, DIN 4102: B1, Thermal rating WLG : 035, Oeko-Tex certified , Acoustic performance : as= 1.04 NRC - Classification D. The works include providing &amp; fixing of 12 mm thk Ply Board Ceiling which Incorporates a fully concealed Aluminum grid. Complete with all necessary hardware, fittings and accessories. Finish with suggested paint at ply base. frame made with 19 mm thk ply . Stretch fabric fixing with suggested nos of grippers. backside have crete suggested scene in stretch fabric The job also includes providing access panels, cutting of spot lights, luminaries, sneaker, etc. The steel stud frame consisting of main furring</p>			
96	152	sq mt	<p><b>CEMENT SHEET CEILING</b>The works include supply installation and fixing of Cement Sheet Ceiling which Incorporates a fully concealed GI fixing grid. Complete with all necessary hardware, fittings, Luster paint , and accessories. The job also includes providing access panels, cutting of spot lights, , etc. . The steel stud frame consisting of main furring GI channel at every 600 mm and cross channel at every 600 mm. Both main and cross channels are attached through jaw clip. Screws will be corrosion proof either Chromised or Cynated. Contractor has to provided all necessary cut outs for Electrical works &amp; no extra payment shall be made for it.</p>			

97	15	NOS	COMPOSITE LATHER HIGH BACK CHAIR, :- Providing & Supplying pure leather Very High back chair of Overall size- 750W*750D*1135-1380H*410-510SHmm. The seat is made up of hot pressed moulded reconstituted wood of 1.2±0.1cm thickness and back is two part injection moulded plastic. SEAT SUB ASSEMBLY SIZE: 49.0cm (W) X 49.5cm (D) *BACK SUB ASSEMBLY SIZE: 46.0 cm (W) X 57.0 cm (H) *HEAD REST SUB ASSEMBLY SIZE: 26.0cm (W) X 12.0 cm (L). The HR Polyurethane foam is moulded with Density = 45 kg/m³ and Hardness load 16 ± 2 kgf as per IS:7888 for 25% compression. The synchronized mechanism is designed with 360° revolving type, Seat/Back Tilt Ratio of 1:3, Side tilt tension adjustment knob can be operated while taking back support for better judgment of comfort. Back tilt with 4 position locking. The pneumatic height adjustment has an adjustment stroke of 10.0 ±0.3cm. The backrest is connected to the mechanism with a drop-lift mechanism which can be adjusted in the range of 7.0±0.5cm for the comfortable back support to suitable individual need. The pedestal is Pressure Die cast polished Aluminium and fitted with 5 nos. twin-wheel castors. The pedestal is 65.0±0.5cm.pitch-centre-dia.(75.0 ±1.0cm. with castors). The twin wheel castors are injection moulded in Black Polypropylene. The seat PU Mould with super soft foam, curved veneer finish outer arms with cushion grip , knee tilt syncromechanisam with any position back lock The rate shall include all materials, hardware and labour etc. complete as per instruction of engineer-in charge and consultant.			
98	82	NOS	COMPOSITE LATHER MID BACK CHAIR :- Providing & Supplying composite leather Revolving Visitor chair of Overall size- 960W*665D*960H*480SH.mm . The seat is made up of hot pressed moulded reconstituted wood of 1.2±0.1cm thickness and back is two part injection moulded plastic. SEAT SUB ASSEMBLY SIZE: 49.0cm (W) X 49.5cm (D) *BACK SUB ASSEMBLY SIZE: 46.0 cm (W) X 57.0 cm (H) . The HR Polyurethane foam is moulded with Density = 45 kg/m³ and Hardness load 16 ± 2 kgf as per IS:7888 for 25% compression. The armrests are Pressure die casted in polished Aluminum with PP Arm Tops. The Understructure is welded structure made up of M.S.E.R.W. Elliptical tube. The understructure is powder coated ( DFT 40-60 microns ). The rate shall include all materials, hardware and labour etc. complete as per instruction of engineer-in charge and consultant. Seat PU mould with super soft foam,curved veneer finish outer arms with cushion grip,.			
99	81	NOS	COMPOSITE LATHER LOWER BACK CHAIR (REVOLVING) Providing & Supplying of visitor Chairs, having single touch adjustable seat , Frame construction should be of nylon & black in color having dimension of 1200mm Ht., 475mm width & 431 mm Depth & Back cushion Ht. sholud be 535 mm. It should have Nylon base Arms, Armrest is T fixed.having ht. of 260mm, It should have minimum 5 years warranty. Complete as per instructions given by the Architect & Engineer Incharge & as per shown in the View. Samples should be approved by the Architect & Engineer Incharge. Please see the Attached Make List for Apporoved Makes.like wipro,( Model : Smart Fabric :- Plano - Delta)			
100	19	NOS	COMPOSITE LATHER LOWER BACK CHAIR (NON REVOLVING) Providing & Fixing Visitor non revolving Back Chair of Overall size- 550W*580D*840H*450SH mm Cushion Chair :The seat and back are made up of 1.2 ±0.1cm. thick hot pressed plywood measured as per QA method described in OCP-QLTA-P14-18 and upholstered with fabric and moulded Polyurethane foam with PVC lipping all around. The back foam is designed with contoured lumbar support for extra comfort..(LOW BACK) SIZE: 49.5cm. (W) X 45.5cm. (H)*SEATSIZE: 49.5cm.(W)X 43.0cm. (D) The HR polyurethane foam is moulded with density =4S+/-2 kg/m3and hardness load 16 ± 2 kgf as per IS:7888 for 2S% compression.The one-piece armrests made of black integral skin polyurethane with SO-70Shore Hardness and reinforced with M.S. insert. The armrests are scratch and weather resistant. The armrests are fitted to the seat with seat armrest connecting bracket made of 0.3 ±0.022cm. thk. HR steel.The understructure is made of 02.S4 ±0.03cm. x 0.2 ±0.016cm.thk., M.S;E.R.W. tube and black powder coated ( DFT 40-60 microns).The rate shall include all materials, hardware and labour etc. complete as per instruction of engineer-in charge and consultant.			
101	2	NOS	FOUR SEATER ROUND SOFA:-Providing & Supplying of composite Leather 4 Seater round Sofa as suggested sized,design & pattern Slab stock and bonded foam at seat with recon padding at seat,Foam Density : 34 kg/ cubic m..Backrest is made of slab stock with recon fillers.Double webbing : Sspring and nylon.Fabric which gives a leather feel.Upholstery is Microfibre with Polyester Laminate.Frame Material is made of kiln dried wood. The rate shall include all materials, hardware and labour etc. complete as per instruction of engineer-in charge and consultant. Frame Material :-Wood, in U Shape			
102	19	NOS	THREE SEATER COMPOSITE LATHER SOFA:- Providing & Supplying of composite Leather 3 Seater Sofa of Overall size- 2072W*912D*830Hmm .Slab stock and bonded foam at seat with recon padding at seat,Foam Density : 34 kg/ cubic m..Backrest is made of slab stock with recon fillers.Double webbing : Sspring and nylon.Fabric which gives a leather feel.Upholstery is Microfibre with Polyester Laminate.Frame Material is made of kiln dried wood. The rate shall include all materials, hardware and labour etc. complete as per instruction of engineer-in charge and consultant.			
103	3	NOS	TWO SEATER COMPOSITE LATHER SOFA:-Providing & Supplying of composite Leather 2 Seater Sofa of Overall size- 1572W*912D*830Hmm .Slab stock and bonded foam at seat with recon padding at seat,Foam Density : 34 kg/ cubic m..Backrest is made of slab stock with recon fillers.Double webbing : Sspring and nylon.Fabric which gives a leather feel.Upholstery is Microfibre with Polyester Laminate.Frame Material is made of kiln dried wood. The rate shall include all materials, hardware and labour etc. complete as per instruction of engineer-in charge and consultant. Approved Make: Godrej / Herman Miller / Haworth / Knoll.			
104	4	NOS	SINGLE SEATER SOFA Providing & Supplying of composite Leather single Seater Sofa of Overall size 29 H x 31 W x 33 D. Slab stock and bonded foam at seat with recon padding at seat,Foam Density : 34 kg/ cubic m..Backrest is made of slab stock with recon fillers.Double webbing : Sspring and nylon.Fabric which gives a leather feel.Upholstery is Microfibre with Polyester Laminate.Frame Material is made of kiln dried wood. The rate shall include all materials, hardware and labour etc. complete as per instruction of engineer-in charge and consultant. Approved Make: Godrej / Herman Miller / Haworth / Knoll.			

105	14	NOS	CENTRE TIPO I Supplying & Providing Glass Top PU Finish Centre Tipoi size of 2.5ft x 1.4ft x 1ft in rectangular shape as suggested and selected by architect/EIC. Basic rate of item is 15000 rs per piece			
106	6	NOS	CORNER TIPOI Supplying & Providing Glass Top PU Finish corner Tipoi size of 3'x3' x1 ft insquare shape as suggested and selected by architect/EIC. Basic rate of item is 15000 rs per piece 22000.00			
107	14	NOS	Providing & placing planter Pot made form SS suggested sizes & shapes & shade approved by architect with artificial plant as per selection by architect with artificial plant. Rate shall inclusive of sample, all materials, loading, unloading, all taxes, transportation, placing at all floors and for all leads, all accessories as described in item description. As approval of Architect / EIC. A) Square 300x300x300 B) Square 600 x 300x 300 basic rate of item is 2000.00 rs.			
108	112	nos	S S Dustbin:- Providing Swing Distbins made up of S.S. 304. The Lid of this Dusbin is attached from center & can be swing from both sides. It shall be easy to use, reliable & light in weight. Samples should be approved by the Architect & Engineer Incharge. Please see the Attached Make List for Apporoved Makes. Basic rate of item is 500 rs Diameter: 18 cm (7 ") Height: 27 cm (10 3/4 ").Volume: 5 l (1 gallon),Depth, including pedal/hinge: 23 cm (9 ")Product as selected by architect /EIC			
109	7.7	sq mt	COMPACTOR:-SUPPLY AND INSTALLATION OF REGULAR COMPACTOR & MONO RAIL COMPACTORSYSTEM AS PER DETAILED TECHNICAL SPECIFICAITONS ATTACHED TO THE TENDER. (MANUFACTURER HAVE TO INSTALL ONE DEMONSTRATION SAMPLE SYSTEM FOR BOTH TYPE OF COMPACTOR SYSTEM AS PER INSTRUCTION FROM THE COMPETANT AUTHORITY FOR THE SIZE OF THE SYSTEM FOR TECHNICAL EVALUATION ) THE COMPACTOR WILL HAVE TO BE MANUFACTURED CONSIDEREING FOLLOWING BASIC PARAMETERS IN DESIGNING BESIDES THE DETAILED TECHNICAL SPECIFICATIONS TO BE FOLLOWED AS PER ATTACHEMENT: BIDDER / MANUFACTURER WILL HAVE TO MAXIMISE THE LENGTH OF THE COMPACTOR SYSTEM AS PER THE RESPACTIVE ROOMS AND TAKE THE APPROVAL OF THE COMPETANT AUTHORITY BEFORE STARTING OF MANUFACTURING. BIDDER WILL HAVE TO INSPECT ALL THE ROOMS ON ALL FLOORS MEANT FOR COMPACTOR SYSTEM TO STUDY FOR MEXIMISING THE STORAGE CAPACITY BEFORE SUBMITTING THE COMMERCIAL OFFER . EACH COMPACTOR SYSTEM IN THE RESPACTIVE ROOMS MUST BE DISIGNED KEEPING ALL THE REQUIRED MOVEMENT SPACE IN FRONT OF SYSTEM FOR COMFORTNESS AND EASE OF OPERATING SYSTEM . BASE FRAMES : IN WELDED CONSTRUCTION BOLT LESS SHELF : FRONT PROFILE OF SHELF 35 MM WITH 12 BEND TECHNOLOGY AND CORNERS WELDED FROM INSIDE RAILS : MINIMUM 30 MM SOLID ( NOT HOLLOW ) SQUARE OR ROUND POWER WHEEL :STAR TYPE HAVING 3 INSERTABLE ARMS HAVING UNIT LOCK IN THE CENTRAL HUB OF THE POWER WHEEL( NO USE OF SLOOTED ANGLE ) Approved Make : GODREJ / KOMPRESS / SCHAEFER SINGLE FACE STATIONARY UNIT HAVING BASIC SIZE OF EACH BAY AS : 905 mm Length x 340 mm Depth x 2130 mm Ht.( Over all length shall have to be in multiple of 905 mm length combinations) – Dept & Height will remain constant			
110	17	sq mt	DOUBLE FACE MECHANICALLY MOVEABLE UNIT HAVING BASIC SIZE OF EACH BAY AS :905 mm Length x 630 mm Depth x 2130 mm Ht.( Over all length shall have to be in multiple of 905 mm length combinations) Dept & Height will remain constant			
111	7.7	sq mt	SINGLE FACE MECHANICALLY MOVEABLE UNITHAVING BASIC SIZE OF EACH BAY AS :905 mm Length x 400 mm Depth x 2130 mm Ht.( Over all length shall have to be in multiple of 905 mm length combinations) Dept & Height will remain constant			
112	1	SET	MONO RAIL COMPACTOR SYSTEM OF 7 CUPBOARDS HAVING BASIC SIZE OF EACH BAY AS :905 mm Length x 340 mm Depth x 2130 mm Ht.( Over all length shall have to be in multiple of 905 mm length combinations) – Dept & Height will remain constant			
113	1	SET	MONO RAIL COMPACTOR SYSTEM OF 9 CUPBOARDS HAVING BASIC SIZE OF EACH BAY AS :905 mm Length x 340 mm Depth x 2130 mm Ht.( Over all length shall have to be in multiple of 905 mm length combinations) – Dept & Height will remain constant			
114	3	SET	MONO RAIL COMPACTOR SYSTEM OF 3 CUPBOARDS HAVING BASIC SIZE OF EACH BAY AS :905 mm Length x 340 mm Depth x 2130 mm Ht.( Over all length shall have to be in multiple of 905 mm length combinations) – Dept & Height will remain constant			
115	1	SET	MONO RAIL COMPACTOR SYSTEM OF 3 CUPBOARDS HAVING BASIC SIZE OF EACH BAY AS :750 mm Length x 340 mm Depth x 2130 mm Ht.( Over all length shall have to be in multiple of 905 mm length combinations) – Dept & Height will remain constant			
116	2	NO	FREEZE 190 LTR Providing & supplying freeze of 190 ltr. As suggested make (as selected by Architect/Authority) (Make LG/Godrej)			
117	2	No	TELEVISION Supplying & Installing Television of Full HD LED Television Display Size 66 Inch , Screen Type Full HD,LED TV, having additional features of , Sound Output: 8W+8W, Speakers 2 Full Range Sound Technology Dolby Digital, Dolby Digital Plus, Dolby Pulse Additional Sound Mode(Standard, Cinema, Sports, Music, Game, Compressed Audio), Sound Enhancer, S-Master, S-Force Front Surround 3D, Simulated Stereo, Stereo System(NICAM/A2)Internet Video , Facebook and Twitter, Skype Ready ,Deep Color, Intelligent MPEG Noise Reduction, Advanced Contrast Enhancer (ACE), 24P True Cinema, PhotoTV HD,			

118	4	No	<p><b>MEGAZINE RACK CIRCULAR BOOK RACK</b>-(1200MM-DIA revolving mechanism) :Providing and fixing Book rack as pe ref image and instruction of architect</p> <p>Base: made from solid teak wood with revolving mechanisam and specialised approved hardware as per selection of Architect/Client.</p> <p>Providing and fixing/placing custom made furniture as per ref.image.The work shall be done as per the approved shop drawing , specifications , mock up sample approved and as directed by the Architect and Engineer-in-charge. The rate shall be for complete item inclusive of all material, labour, wastages, necessary tools &amp; tackles,approved make for all floors, all heights, all levels and all places within campus. Contractor shall do all the needful and shall fulfill Architect's design intent. No additional claims will be entertained for this. The unit shall be manufactured in parts and these parts shall be assembled at site.</p>			
119	12	No	<p><b>DOORMATE</b> Providing Door Mat of Size 400mm x 600mm, made up of Cotton Material, having weight between 400 to 600 GSM. It should well stiched &amp; should be perfect finish and should be defect free &amp; shoud be in suggested Color. Samples should be approved by the Architect &amp; Engineer Incharge. Please see the Attached Make List for Apporoved Makes. Basic rate of item is 400 rs.</p>			
120	98	no	<p><b>SS 304 MAT FINISH DIRECTION SIGN</b> Providing &amp; Fixing signage on 1 mm SS 304 mat finish 0.8mm- 1 mm with 5 mm black acrylic direct pasting with silicon tape on any surface expect un finished wall (18"x4"=72 sq inch for each ) (as per the approved size &amp; shade ) including fixing by using necessary hardwares (Fixing/bonding on wall /ply wherever it requires with its proper silicon pasting /studs ,screws,nails etc). completely with printing in suggested colors for each cabin/Utilities area above each door/wood surfaces/wall surfaces Before making the letters the font &amp; size will be got approved from authority .</p>			
121	432	sq inch	<p><b>10MM+3MM ACRYLIC AS PER LOGO COLOR</b>:- Fixing with bolt or silicon tape as per the background and suggested logo in glossy finish size .cost including all laser cutting.</p>			
122	1440	sq inch	<p><b>5 MM ACRYLIC BOX HANGING BOX</b>:- provide all with vinyal and hanging SS wire studs/ss chain/ms chain approx size 24"x6".</p>			
123	144	inch	<p><b>ALUMINIUM EMBOSS LETTERS</b>:- Providing and fixing Aluminium emboss letter aluminium channl letters, front side acrylic,side wall pu color, inside high glow led modules,power supply for led, all installation as suggested by architect/incharge. (approx size 12"x4')</p>			
124	32	nos	<p><b>AC TRAP DOOR</b> Providing &amp; fixing cassette AC trap door boxes to fix in false ceiling with using 18 mm mr grade ply .box size is 600 mm x 600mm x 1200 mm (= 10% variation in size)as per approved samples of ceiling panels. panels comprise of a powder- coated beaded steel frame with door. Each panel features a push –latch closing mechanism with door retaining safety cable &amp; hook. Complete with hangers and all necessary hardware. Exposed surfaces finished with 1 mm thick laminate/paint of approved shade. Complete with all necessary hardware &amp; adhesives as per details given in drawing and as per instructions of Architect/consultant/Engineer In charge. Contractor has to provided all necessary cut outs (race ways.) for Electrical works &amp; no extra payment shall be made for it.</p>			
125	40	nos	<p><b>WALL FRAME PAINTING</b> Providing &amp; fixing Wall Photo Frames in customized sizes &amp; colors (Floral Frames with Brigh Color, with Plain Glass, Hard Wood, Mouldongs of size 15mm x 30mm with Outer Boeder). Basic Rate of a Painting is Rs. 3000/- . Samples should be approved by the Architect &amp; Engineer Incharge. Basic rate 2000 rs per peace</p>			
126	240	Pt.	<p><b>Point wiring for Light / Bell with</b> 2-1.5 sq.mm &amp; earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push &amp; accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed.</p> <p><b>(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete cat III</b></p>			
127	160	Pt.	<p><b>Point wiring for Tissino / Modular secondary light point</b> with 2-1.5 sq.mm &amp; earth wire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires, in below type of pipe to be erected complete with earth continuity and necessary connection with primary light with accessories erected on Metal / PVC / wooden box covered with 3 mm thick PC(Polycarbonate) / Acrylic sheet for open /concealed wiring. with necessary Lamp holder / ceiling rose / H.D.Connector as directed.</p> <p>Note:- Maximum up to 6 mtrs length, excess will be considered as Mains for Secondary Point.</p> <p><b>(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete cat III</b></p>			
128	10	Pt.	<p><b>Point wiring for FAN</b> with 2-1.5 sq.mm &amp; earth wire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected with 6A Modular type switch and hum free EME step type electronic fan regulator mounted and accessories with earth continuity of following type erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed.</p> <p><b>(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete cat III</b></p>			
129	45	Pt.	<p>Point wiring for <b>Individual Plug</b> with &amp; earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch &amp; 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories [II] <b>For 16A Plug and 16 amp switch with 2-2.5 sq.mm Cu. Wire from mcb db board.</b></p> <p><b>(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete cat III</b></p>			

130	80	Pt.	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. <b>[I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard/mcb db board (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete</b>			
131	125	Pt.	Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessories Cat. III			
132	70	Ea	Providing & erecting Switch board for Computer or electric apparatus consisting of following modular type accessories mounted with PVC / Metallic concealed/open box with single mounting base frame covered with textured/metallic /white front plate,modules erected with necessary connections as directed 1 no. 6A/16A universal plug-switch combined. 3 nos. 6A Switch 3 nos. 6A 5 pin Plug For Modular Type Accessories Cat. III			
133	150	Ea	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. <b>(8) Computer RJ-45 socket Cat.III</b>			
134	1500	Mtr.	Supplying & erecting approved make LAN cable of following size in existing pipe as per direction <b>[D] CAT - 6 e</b>			
135	70	Ea	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. <b>(3) Two Pin/RJ-11 Telephone Socket</b> <b>[A] For One Gang Cat.III</b>			
136	700	Mtr.	Supplying & erecting approved make Telephone Cable electrolytic copper conductor PE insulation twisted in two pairs, & wrapped with FRLS PVC tape & sheathed with FRLS PVC or HFFR outer Jacket suitable for telephone wiring & conforming to C-DOT erected in existing pipe. of following size of conductors & nos.of pairs. With necessary connections. <b>[A] Conductor Size 0.5 mm</b> <b>(a) Unarmoured</b> <b>(2) Two Pairs</b>			
137	1	Ea.	Providing & erecting main Distribution (MDF) indoor type, back mounted frame as per DoT standard approved with krone strips <b>(d) Suitable for 100 pair</b>			
138	1	Ea.	SITC of Digital / PCM / TDM EPABX System having SMT design, system with flexible universal slots. Inbuilt Auto attendant facility, Minimum 15 Nos. conference, Analog extension line, Calling GSM, E&M line, PRI / EI & VOIP program me through Analog telephone digital key from Ethernet, public address cord, shall have unrestricted simultaneous dialing facility, QSIG protocol on PRI, 95 / STD / ISD / Local-Locking, Class of Service, Quick Dial-Single Digit dialing of any two external number, Once only ring device, Chairman / Secretary - Do not disturb Facility, Power Down Mode, Hot Line, Hot Outward Dialing, Day Night Mode, Auto Call Back, Barge-in, Call Pick Up & Call Transfer, Call transfer while Ringing with Voice Guide System, (DISA), Caller ID (CLI), CLI Base ECF, CLI Base routing Internet Ready Port, External Music Port, Call Budgeting, Call Most Calculation (ASMDR), DID Direct Inverse Dialing, External Music Input, Fax Homing, Global Directory Printing with following capacities [[Approved by Competent Authority i.e. not Below the rank of Executive Engineer ] <b>[E] No of Extension 128, No of Junctions 24, No of expandable ports : 512, Operators Console - 01 Compatible : ISDN and Networking</b>			
139	5	Ea	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. <b>(4) TV Co-axial Socket outlet Cat.III</b>			
140	300	Mtr.	Providing & Erecting approved make following size of TV Co-axial flexible cable comprising inner conductor of solid bare copper insulated with Foam PE & Secondary conductor made of poly - Aluminium film bonded Al. Braids @ suitable coverage overall sheathed with black PVC insulation. <b>(b) RG-6</b>			
141	50	Mtr.	providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required. <b>(f) One wire 10.00 sq. mm</b>			
142	50	Mtr.	providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required. <b>(g) One wire 16.00 sq. mm</b>			

143	50	Mtr.	providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required. <b>(h) One wire 25.00 sq. mm</b>			
144	50	Mtr.	providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required. <b>(i) One wire 35.00 sq. mm</b>			
145	1000	Mtr.	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with <b>1.5 sq. mm copper conductor</b> FRLS PVC insulated stranded wire of green colour for earth continuity of following size. <b>(A) With medium class Rigid PVC pipe and accessories</b> <b>(a) 2 wire 1.5 sq. mm</b>			
146	1200	Mtr.	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with <b>1.5 sq. mm copper conductor</b> FRLS PVC insulated stranded wire of green colour for earth continuity of following size. <b>(A) With medium class Rigid PVC pipe and accessories</b> <b>(b) 2 wire 2.5 sq. mm</b>			
147	500	Mtr.	providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size <b>(A) with medium class Rigid PVC pipe and accessories</b> <b>(a) 2 wire 4 sq. mm</b>			
148	1250	Mtr.	Providing and erecting ISI mark Medium class <b>RIGID PVC PIPES</b> of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed <b>(b) 25 mm</b>			
149	200	Mtr.	Providing & erecting PVC Corrugated <b>Flexible Conduit</b> with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes. <b>(2) 25 mm</b>			
150	2	Ea	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for <b>(B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI)</b> <b>(b) sheet steel double door</b> <b>(ii)6 way</b>			
151	4	Ea	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for <b>(B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI)</b> <b>(b) sheet steel double door</b> <b>(iii)8 way</b>			
152	2	Ea	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for <b>(B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI)</b> <b>(b) sheet steel double door</b> <b>(iv)12 way</b>			
153	160	Ea	providing and erecting <b>Miniature circuit breaker single pole 6A to 25A</b> suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark Cat.III			



154	1	Ea.	Providing & erecting 240 V <b>MCB double pole switch</b> for lighting Load (B Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity <b>(A) 6 to 32 Amp. Cat-III</b>			
155	1	Ea.	Providing & erecting 415 V <b>MCB Four Pole for Motor &amp; Inductive Load</b> (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity <b>(a) 6 to 32 Amp. Cat.III</b>			
156	4	Ea.	Providing & erecting 415 V <b>MCB Four Pole for Motor &amp; Inductive Load</b> (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity <b>(b)40 Amp. Cat.III</b>			
157	3	Ea.	Providing & erecting 415 V <b>MCB Four Pole for Motor &amp; Inductive Load</b> (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity <b>(c) 63 Amp. Cat.III</b>			
158	3	Ea	providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed <b>(i) 25 Amps.DP Cat. III</b>			
159	12	Ea	providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed <b>(ii) 40Amps. DP Cat. III</b>			
160	9	Ea	providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed <b>(iii) 63 Amps. DP Cat. III</b>			
161	4	Rn.Mtr	Supplying and erecting triple pole & neutral 440V / 500V panel mounting <b>Copper Busbars</b> with four equal Nos. of electrolyte bus having current density not more than 1.6 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports /insulators, main cable socket to each bar, erected in existing cubical panel with necessary connections. <b>(C) Suitable for 300 Amp. capacity</b>			
162	10	Ea	Providing and erecting Approved make <b>Four pole moulded case circuit breaker</b> having breaking capacity ICU of 25 KA. at 415 V, having normal <b>current rating up to 25 A to 100A.</b> with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing.			
163	2	Ea	Providing and erecting Approved make <b>Four pole moulded case circuit breaker</b> having breaking capacity ICU of 35 KA. and above at 415 V . having <b>normal current rating 250A.</b> with variable thermal & magnetic release suitable to work on A.C.supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing.			
164	1	Ea	Supplying & erecting approved make Four Pole 415V <b>change over switch</b> interior for panel mounting with operating mechanism A.C.23 duty conforming to IS for <b>(E)250A / 320A Cat. III</b>			
165	5	Sq.Mtr	Providing & erecting weather proof, dust & vermin proof, floor mounted front operated <b>indoor type cubical panel board</b> necessary IP- 42 and above protection as per approval from engineer incharge made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary accessories , supporting angles/ flats channel including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in- charge with erection of supplied switch gears, BUSBARS, suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses/MCB for measuring instruments, earth bus & earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket, heavy duty end terminal connection,danger notice board,necessary ventilation,earthing strip complete. The Panel shall be painted with epoxy powder coating (The rates excludes the cost of switchgears, bus bars, inter connecting mains & Copper Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size. (B) The standard companies switch gear shall be used and only manufacturers at CPRI approved factory. <b>(i) with 350mm depth board</b>			

166	60	Kg.	Providing , erecting , fabricating the <b>M.S. structure</b> as per requirement on site incorporating proper size of M.S. angles, square, round, flats, bars, channels, sections complete with cutting, welding, grinding & finishing duly painted with one coat of red oxide with erection on site as per direction of engineer in charge with necessary grouting, cementing, plastering & finishing complete.			
167	1	Ea	Providing and erecting <b>multifunctional meter</b> suitable for application of Power monitoring and showing measurement of following Voltage, Frequency, Apparent energy, Apparent power, Active and reactive energy, Active and reactive power, Average voltage Vavg, Peak demand power PM, QM, SM, Demand power P, Q, S, Apparent power S, S1, S2, S3, Unbalance current, Power factor and displacement PF (signed, four quadrant), Calculated neutral current, Active, reactive, apparent energy (signed, four quadrant), Active power P, P1, P2, P3, Voltage U21, U32, U13, V1, V2, V3, Phase currents, Average current lag, Peak demand currents, Reactive power Q, Q1, Q2, Q3, Demand current I1, I2, I3, [Us] rated supply voltage 40...300 V AC 45...65 Hz, 40...300 V DC, Network frequency 50 Hz, Type of network 3P, Display type 7 segments LED, Display colour Red, Messages display capacity 3 fields of 4 characters, Display digits 12 digit(s) - 14.2 mm in height			
168	6	Ea	Supplying and erecting approved make suitable <b>panel indicator LED type lamp</b> , lens cover, complete erected with necessary connections.			
169	1	Ea.	Providing & erecting <b>L.T. Current Transformer</b> with bar primary 50/5 to 1000/5 ratio 15 VA burden erected in existing CRCA box duly secured with insulating materials connected to the meter.			
170	1	Ea.	Supplying and erecting, commissioning and testing <b>diesel generating set</b> having continuous rating, 3 phase, 415 volts, 50 cycles A.C. supply comprising of a totally enclosed air/water cooled diesel engine with multi-cylinders developing suitable BHP not less than following capacity at 1500 RPM with 10% overload for one hour in 24 hours with standard accessories like fly wheel, lubricating oil cooler, "A" class governor, heavy duty fuel wheel and lubricating oil filter, oil bath air filler, lubricating oil pressure gauge, end exhaust manifold, standard set of tools with adjustable spanners, screw drivers, feeder gauge, cylinder head to cover, joint cylinder head to exhaust, element lube oil filter, 12/24 volts electric starting equipment complete with standard battery, dynamo, cut-outs, ammeter, necessary wiring, pressure gauge, starter etc and heavy duty Residential type exhaust silencer and vertical hot air duct both logged with asbestos rope, save oil trays, exhaust piping of required length, standard wall/floor mounted fuel with level indicator and piping and drip proof alternator, self excited, self regulated, screen protected, with excitation system, capable of delivering the rated system output at 415 volts, 3 phase, 0.8 PF, 50 Hz, 4 wire, running at 1500 RPM, conforming to IS-4722- 1968 with voltage regulation +/- 5% of rated voltage from no load to full load. Both the engine and alternator fitted on a common fabricated steel base plate with antivibration mounting engine and alternator both connected to each other by flexible flange coupling and with floor/wall mounted control panel box comprising of voltmeter ammeter, selector switches, ACB / MCCB / MCB of adequate capacity, indicator lamps duly wired with HRC fuses. The alternator & control panel shall be connected with provided suitable capacity armoured cable and complete with Acoustic enclosure (canopy) made out of 16 SWG CRCA Sheet, sound absorbing material Rockwool of 64 density & 100 mm thick conforming to IS:8183 / PU Foam of 40 Density - at least 40 mm. The resin bonded rockwool covered from inside the canopy by perforated sheet with 3/4 mm holes, sound level not more than 75 dB at a distance of 1 mtr, as per PVCT norms. Erection, commissioning and satisfactory testing as per requirement with first filling of fuel, oil, etc. with guarantee / Warrantee of complete system for Two years. & with obtaining all necessary certificate from Electrical Inspector. The <b>Capacity and Ratings of DG sets are as below.</b>			
171	1	Ea.	Providing & erecting approved make <b>AMF control panel</b> suitable for following size of 3 phase, 415 V., 50 cycles, A.C. diesel generating set complete of scope as detailed below: 1) Power module: A pair of electromechanically interlocked contactors (for mains & generator) Overload relay for generator contactor Neutral contactor for mains and generator Power socket for connections. 2) Control and metering module: Line voltage monitor. Generator voltage monitor Ammeter 3 items attempt start facility. Air circuit breakers/MCB/MCCB of suitable rating for auto/manual operation. Auto/manual switch. Emergency stop push buttons. Manual start push button. frequency meter. Engine hour meter. Two earthing studs. 3) Protection module: The engine shutdown in the unlikely event of Low lube oil pressure High cylinder head temperature. V belt failure. 4) Indicators with alarm Load on generator. 5) Indicators Load on mains Engine fails to start Emergency stop battery charger. The AMF Panel of following capacity <b>(D) AMF Control Panel for 200 KVA/250 KVA 3 phase DG Set</b>			
172	2	Ea.	Providing and erecting metallic vitrified <b>danger notice board</b> as per language suggested by engineer incharge for MEDIUM VOLTAGE installation to be erected as per IS-2551.			
173	100	Ea.	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. <b>(7) Blank Plate Single</b>			
174	200	Mtr.	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables. <b>(C) 3 core 6 Sq. mm</b>			
175	350	Mtr.	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables <b>(B) 3 1/2 core 35 Sq. mm ( 16 Sq. mm 1/2 core)</b>			

176	300	Mtr.	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables <b>(H) 3 1/2 core 185 Sq. mm ( 95 Sq. mm 1/2 core)</b>			
177	150	Mtr.	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand / Solid Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables <b>(A) 4 core 4 Sq. mm</b>			
178	250	Mtr.	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand / Solid Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables <b>(C) 4 core 10 Sq. mm</b>			
179	200	Mtr.	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables <b>(A) 4 core 16 Sq. mm</b>			
180	2	Ea	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. <b>(A) 2 to 4 core 2.5 / 4 Sq. mm</b>			
181	2	Ea	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. <b>(B) 2 to 4 core 6 Sq. mm</b>			
182	8	Ea	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. <b>(C) 2 to 4 core 10 Sq. mm</b>			
183	6	Ea	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. <b>(D) 2 to 4 core 16 Sq. mm</b>			
184	4	Ea	Providing and, fixing heavy duty flange type <b>brass double compression type cable gland</b> with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. <b>(B) 3 &amp; 1/2 core 35/50 Sq. mm</b>			
185	4	Ea	Providing and, fixing heavy duty flange type <b>brass double compression type cable gland</b> with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. <b>(G) 3 &amp; 1/2 core 185 Sq. mm</b>			
186	16	Ea.	Solderless crimping type <b>Aluminium lugs</b> conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. <b>(A) 1.5/ 2.5/4/6 Sq.mm</b>			
187	32	Ea.	Solderless crimping type <b>Aluminium lugs</b> conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. <b>(B) 10 Sq.mm</b>			
188	24	Ea.	Solderless crimping type <b>Aluminium lugs</b> conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. <b>(C) 16/25 Sq.mm.</b>			
189	16	Ea.	Solderless crimping type <b>Aluminium lugs</b> conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. <b>(D) 35/50 Sq.mm.</b>			
190	16	Ea.	Solderless crimping type <b>Aluminium lugs</b> conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. <b>(I) 185 Sq.mm.</b>			
191	8	Ea	Supplying & erecting <b>earth pit of minimum bore dia.150mm</b> size approved make Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 50mm having 80-200 Micron galvanising, Inner pipe dia of 25 mm having 200-250 Micron galvanising, connection terminal dia of 12mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover. (A)(approved make OEM has to submit test certificate including value of earth resistance of installation duly stamped and signed by agency and officer Incharge has to ensure the value of earthing resistance mentioned in test Certificate) & having back filling compound of (B) Inner chemical (CCM Compound)- Resistivity:- 0.2 ohm / meter testing as per IEC 62561-2017, Voltage drop:- < 1 volt at no load & dry form, Sulphar content:- <2%(C) Back fill Compound :- Earthing compound should be capable to retain moisture for long time Necessary test report must be submitted by Agency. <b>(c) For Electrical Installation covering Transformer Neutrals, Lightning arrester Earthing, A.C.Plant &amp; Sensitive Computer System(like Automation, SCADA) i.e independent Earthing in normal soil.</b> <b>Length of Pipe : 3.00 mtrs</b> <b>Back filling Compound :2 nos Bags of 25 Kg.</b>			
192	40	Kg.	Providing and erecting required size <b>Copper strip for earthing</b> of H.T. OCB / ACB/ Transformer, LT panel board, Motors etc. using copper clamp.			

193	200	Kg.	Providing and erecting required size <b>HOT deep Galvanised iron strip for earthing of H.T. ,</b> OCB/ ACB/ Transformer LT panel board, Motors etc. using proper clamp.			
194	50	Kg.	Providing and erecting Annealed bare <b>Copper wire 8 to 16 SWG.</b>			
195	10	Ea	Supplying and erecting approved make <b>oscillating type bracket fan A.C. 230V. 50cy/s 400/450 mm sweep wall mounted</b> with height adjustment and rotary tilting device complete with guard, flexible Core plug top complete erected with lead wires as directed.			
196	15	Ea	Supplying & erecting approved make <b>low noise decorative exhaust fan</b> having square frame ABS body with inbuilt lowers & square frame. 200mm with 1350RPM Cat.II			
197	15	Ea	Providing <b>recess in wall or window frame</b> suitable for erection of Exhaust fan complete with plastering and colour washing to match the colour of the wall or window complete with expanded metal in order to render the fitting in accessible and the room water-proof.			
198	10	Ea	Supplying and erecting <b>led lamps</b> with following wattage capacity of 220 to 240 voltage, minimum 15000 burning hours life, 500 V in built-surge protection, Polycarbonate diffuser, mounting suitable for E14 / E27 / B22 lamp holders, pf >= 0.5 <b>(A) LED Lamps integral type, with PC diffuser suitable LAMP holder (ii) 5 to 8 watts cat III</b>			
199	375	Ea	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15 %, CCT 3000 K to 6500K, Luminaire efficacy > 85 lumens/watt , LED driver efficiency > 85 % ( fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) <b>(A) Square/ Circular shaped Surface/Recessed Mount Downlight with provision for spring loaded mounting clips complete.IP20 (iii) 16-20 watts, Surge-2 KV cat - III</b>			
200	110	MTR.	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15 %, CCT 3000 K to 6500K, Luminaire efficacy > 85 lumens/watt , LED driver efficiency > 85 % ( fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) <b>(D) LED Profile Light (ii) Minimum 15W -240 LED per meter,(2 wire, IP-65) with non integral suitable Driver complete CAT iii</b>			
201	5	Ea	Supplying & erecting Approved make <b>call bell indicator</b> with buzzing sound and Red light indicating lamp with Red light button to attend the call suitable for 240 v 50 c/s supply to be erected.			
202	50	Ea	Supplying and erecting <b>ceiling speaker</b> with rated power of 30 watt/power tapping 30/15/7.5 watt available, opening angle 180 degree H * 77 degree V , sound pressure level 88 dB , frequency response of 70Hz to 20KHz [[Approved by Competent Authority i.e. not Below the rank of Executive Engineer ]			
203	3	Ea	Providing and erecting <b>cordless microphone with UHF Diversity handheld wireless microphone/caller wireless</b> complete with receiver and transmitter unit, Cardiod , polar pattern, dynamic microphone, LCD display for battery and frequency status and information , 32 preset channels, with compatible groups of 8 channels, 14 hrs. battery life, frequency response 80Hz to 18KHz., RF sensitivity <1.0 Uv, image rejection > 55 dB, dynamic range >95 dB and receiver having 32 channels, S/N ratio >100 dBA, Dynamic range >95 dB, distortion <1% [[Approved by Competent Authority i.e. not Below the rank of Executive Engineer ]			
204	800	Mtr.	Supplying and erecting Flexible PVC insulated multi strand multi core 1.1 kv grade ISI marked copper wires of following size to be erected as directed. <b>(d) 1.50 Sq.mm 2 core round PVC sheathed</b>			
205	2	Ea.	Providing and erecting <b>water cooler having storage capacity 80Ltr. &amp; cooling capacity 40 Ltr.per hour @ an ambient temp of 45° C.</b> The outlet temp. of the water should drop by 15° C within a hour. The water cooler should be comprising of hermetically sealed compressor, fan motor, condensing unit, water tank surrounded by evaporating coil, thermostats, relay etc. complete with necessary inlet & outlet connection. The body of water cooler will be made from Stainless Steel. °			
206	2	Ea.	Supplying & erecting <b>reverse osmosis (RO) water purification system</b> with M.S. powder coated pedestal frame, prefilter housing carbon filter suitable buster DC pump, auto low & high pressure switches with following size of LPH capacity & erected as directed <b>[D] 100 LPH</b> with 1 phase / 3 phase Raw water pump of 500LPH @ 2.5kg/cm2 - (1No - Kirloskar /CRI/Lubi), Dual media filter 10"x54" - (1 No), Micron cartridge filter 20" x 2.5" (1No), High pressure pump 500LPH @ 10kg/cm2 - (1No - Shimge /CRI /Lubi), RO Membrane housing with RO membrane of 40"40 - (1No), RO pressure tube 4" x 1E - (1No), 0 - 1200LPH Rotameter -(2 Nos), with Recovery Rate 50%.			

207	1	Ea	Supplying and erecting approved make <b>online Un-interruptible Power Supply system</b> comprising flat cum-boost charger with IGBT base rectifier & Inverter & sealed maintenance free SMF batteries. The charger having operating capacity for input 160-270V AC & inverter having output 230V,50 Hz Ac with 0.8 load power factor with battery, over/under voltage output with over load & short circuit protection equipment. The system housed in CRC sheet duly powder coated paint with following power backup.with MS painted batteries stand, 10% Overload capacity for momentary load. <b>[G] 7.5 KVA with 1Hr Backup</b>			
208	1	Ea	Supplying and erecting approved make <b>online Un-interruptible Power Supply system</b> comprising flat cum-boost charger with IGBT base rectifier & Inverter & sealed maintenance free SMF batteries. The charger having operating capacity for input 160-270V AC & inverter having output 230V,50 Hz Ac with 0.8 load power factor with battery, over/under voltage output with over load & short circuit protection equipment. The system housed in CRC sheet duly powder coated paint with following power backup.with MS painted batteries stand, 10% Overload capacity for momentary load. <b>(J) 20 KVA 3 - phase with 1Hr Backup</b>			
209	75	Per Hp	<b>OUTDOOR UNIT</b> Supply Installation, Testing & Commissioning of modular type Variable Refrigerant Volume air cooled Outdoor units suitable for cooling and heating, having all hermetically sealed inverter type Scroll Compressor(s), microprocessor based Controller, top discharge type condensing unit(s), with R410 A Refrigerant (Or Eco Friendly Green Gas if any), vibration isolators, with suitable foundation, MS Stand for Unit with necessary paint etc. complete as required. The unit shall deliver the rated capacity at AHRI Conditions and work even at 50°C ambient temperature without tripping. The unit shall be suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply. The unit shall be filled with first charge of the refrigerant and ready for use as required. The COP at AHRI conditions shall not be less than 3.1 and IEER not less than 6.5. (Design should be got approval before execution from engineer in charge)			
210	8	Ea.	<b>INDOOR UNIT-CASSETTE TYPE</b> Supply, installation, testing and commissioning of following minimum capacity 4-way/2 way/radial flow as per approval VRV Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration isolation, cord less remote control etc., suitable for operation on single phase 230 V ± 10%, 50Hz AC supply, max noise level 60dB @ 400 cfm per TR(minimum) complete, as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature fresh air provision compatible for Remote Operation System <b>(B) 1 TR</b>			
211	12	Ea.	Supply, installation, testing and commissioning of following minimum capacity 4-way/2 way/radial flow as per approval VRV Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration isolation, cord less remote control etc., suitable for operation on single phase 230 V ± 10%, 50Hz AC supply, max noise level 60dB @ 400 cfm per TR(minimum) complete, as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature fresh air provision compatible for Remote Operation System <b>(D) 1.6 TR</b>			
212	10	Ea.	Supply, installation, testing and commissioning of following minimum capacity 4-way/2 way/radial flow as per approval VRV Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration isolation, cord less remote control etc., suitable for operation on single phase 230 V ± 10%, 50Hz AC supply, max noise level 60dB @ 400 cfm per TR(minimum) complete, as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature fresh air provision compatible for Remote Operation System <b>(E) 2 TR</b>			
213	2	Ea.	Supply, installation, testing and commissioning of following minimum capacity 4-way/2 way/radial flow as per approval VRV Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration isolation, cord less remote control etc., suitable for operation on single phase 230 V ± 10%, 50Hz AC supply, max noise level 60dB @ 400 cfm per TR(minimum) complete, as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature fresh air provision compatible for Remote Operation System <b>(F) 2.4 TR</b>			

214	1	Ea.	Supply, installation, testing and commissioning of following minimum capacity 4-way/2 way/radial flow as per approval VRV Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration isolation, cord less remote control etc., suitable for operation on single phase 230 V $\pm$ 10%, 50Hz AC supply, max noise level 60dB @ 400 cfm per TR(minimum) complete, as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature fresh air provision compatible for Remote Operation System <b>(J) 4 TR</b>			
215	9	Ea.	<b>INDOOR UNIT-HIGH WALL TYPE</b> Supply, installation, testing and commissioning of following minimum capacity VRV High wall type Indoor unit equipped with washable synthetic media pre-filter, fan section with noise level maximum 60 dB @min 400 cfm /dynamically balanced blower, multispeed motor, coil section with DX copper coil, electronic expansion valve, outer cabinet, cord less remote control, drain pan, necessary accessories etc., suitable for operation on 230 V $\pm$ 10%, 50 Hz, single phase AC supply, complete as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature. <b>(D) 1.65 TR</b>			
216	3	Ea.	Supply, installation, testing and commissioning of following minimum capacity VRV High wall type Indoor unit equipped with washable synthetic media pre-filter, fan section with noise level maximum 60 dB @min 400 cfm /dynamically balanced blower, multispeed motor, coil section with DX copper coil, electronic expansion valve, outer cabinet, cord less remote control, drain pan, necessary accessories etc., suitable for operation on 230 V $\pm$ 10%, 50 Hz, single phase AC supply, complete as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature. <b>(D) 2 TR</b>			
217	300	Mtr.	COPPER REFRIGERANT PIPING Supply, installation, testing and commissioning of following minimum capacity VRV High wall type Indoor unit equipped with washable synthetic media pre-filter, fan section with noise level maximum 60 dB @min 400 cfm /dynamically balanced blower, multispeed motor, coil section with DX copper coil, electronic expansion valve, outer cabinet, cord less remote control, drain pan, necessary accessories etc., suitable for operation on 230 V $\pm$ 10%, 50 Hz, single phase AC supply, complete as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature. <b>(B) 9.5 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation (C.) 12.7 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation</b>			
218	180	Mtr.	<b>(D) 15.86 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation</b>			
219	220	Mtr.	<b>(E) 19 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation</b>			
220	210	Mtr.	<b>(F) 22.2 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation</b>			
221	150	Mtr.	<b>(H) 28.58 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation</b>			
222	80	Mtr.	<b>(J) 34.9 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm with 19 mm thick insulation</b>			
223	100	Mtr.	<b>(L) 41.27 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm with 19 mm thick insulation</b>			
224	120	Mtr.	<b>(L) 41.27 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm with 19 mm thick insulation</b>			
225	450	Mtr.	<b>Control Cables and Wires</b> Supply installation testing commissioning Shielded Shielded Control Cables for VRV System with necessary ISI mark Medium class rigid PVC pipes with necessary accessories with termination in machine and control equipments.. <b>(C) 4C X 1.5 Sq mm Shielded Armoured</b>			
226	33	Nos	Central Control System <b>(A) Cord type remote control with thermostat, LED Display and internal wiring for Cassette, FCU &amp; CSU</b>			
227	1	Nos	<b>(B) Central wired Remote Control System</b>			
228	1	Nos.	<b>8th Floor Conference Room</b> Supply, Testing and Commissioning of 86" Interactive touch display should have Direct-Type LED Display, 450 cd/m <sup>2</sup> Brightness (typical). Native Resolution should be 3840 x 2160 (16:9) - UHD. It should have 1200:1 Contrast Ratio, 40000:1 Dynamic Constrast Ratio, 1895 x 1066 mm Active Area (H x V), Min. 30000 Hrs Panel Life Time, 8 ms Response Time, Viewing Angle : 178° Vertical & 178° Horizontal, 4mm Tempered Anti-Glare. 86at4vs should have built in Android Pie 9.0 Operating System, CPU, GPU, 2 GB DDR3 Memory, 8GB eMMC Storage, Wifi and Bluetooth. Infrared (IR) Touch Technology, Continuous Touch Points : 20 Points for Windows & 10 Points for Android, HID, TUIO, Flash connectivity, 2 Pen Identitties, Battery-less Pen type, Slim Bezel, User-Friendly Front Ports and Buttons, Detachable power cable, Carrying handles. RGB Input : VGA, Video Input : 4 x HDMI2.0, 2 x USB2.0 type-A, 1 x USB2.0 type-C, 1 x MicroSD (up to 1TB), 1 x Secure Slot (USB2.0), 1 x OPS Slot(15W). Video Output : 1xHDMI2.0, External Control : RS232(3.5mm jack), Ethernet(RJ45), Service(RJ12), External Sensor : RJ12, Front I/Os : 2 x USB2.0 Type-A, 1 x USB2.0 Type-B for touch, 1 x HDMI2.0 Input. Audio : 2x20 W - Front Facing Speakers, Pen Holder : Integrated Magnetic Tray. Operating Temperature should be +40°C / 0°C. Operating Humidity should be 90%. Power Supply should be 110 VAC - 240 VAC. Power Consumption should be 379W typical.			

229	1	Nos.	<b>8th Floor Conference Room</b> Supply, Testing and Commissioning of OPS having CPU: Onboard Intel Core i5-8260U, TDP: 15W, BOIS: AMI EFI BIOS, Chipset: Whiskey Lake, Memory: 2 x SO-DIMM DDR4 Slot, Support 4GB/8GB/16GB/32GB/64GB,DDR42133/2400Mhz, OS: WINDOWS 10, WINDOWS 10 IOT, LINUX, PXE: Yes Network: 2 x Onboard RTL8111 Gigabit Ethernet NIC,10/100Mbps/1000Mbps Base T LAN, Video: Intel UHD Graphics 620, Module: 1 x MSATA-half slot for WIFI & Bluetooth Module, Antenna: 2 x inner RF cables and 2 x external antenna, MSATA: 1 x M-SATA3.0 slot for MSATA SSD, support 6Gb/s, M.2: 1 x M.2 slot NVME 2280 SSD, SATA: 1 x SATA3.0 slot for SATA HDD or SSD, support 6Gb/s			
230	1	Nos.	<b>8th Floor Conference Room</b> Supply, Testing and Commissioning of Wall Bracket for 86" Interactive Display.			
231	1	Nos.	<b>8th Floor Conference Room</b> Supply, Testing and Commissioning of 17" Paperless Multimedia Conference System with Motorised / Tabletop Display. Digital display should be damage proof, with anti-pinch and obstacle prevention that ensures a safe and smooth operation. The display panel is processed by full lamination( non air-gap) technology which greatly reduce the reflection and the loss of light and ensure a high brightness and clear images on panels. HD screen of ultra-narrow black border for a wider viewing angle. The screen gives a high resolution vivid images of high color contrast and color richness. dust and moisture are well kept away from the panels for a durable and stable working life. Full lamination panels also allow a quiet touch control instead of a noisy control from air-gap screens which is cause by the gap and air between. it's polished smoothly after wire drawing then blasted by fine glass sand finish for more batter finish, DC12V operation for motorised display, While it's working, any manual operation to the lift is allowed. You can lift up, pull down the screen, or adjust the screen angle manually. It gives a good protection to hands while it's close. Brushed aluminum panel surface is dealed by 5mm Anodizing Process lines . slim design . panel's width is only 75mm . panel control switch with			
232	1	Nos.	<b>8th Floor Conference Room</b> Supply, Testing and Commissioning of Dual Lens PTZ Camera having advanced ISP processing technology and algorithms make the image true to life with uniform picture brightness. It should have 20 X optical zoom with 80.5° angle, 4K UHD Image Quality : maximum resolution can reach 4K (3840×2160), and the 4K output frame rate can reach up to 30 frames per second. The advanced auto-focusing algorithm enables the lens to complete auto-focusing quickly, accurately and stably. It supports HDMI, USB3.0, wired LAN, POE, USB3.0 supports dual stream. It supports low-power sleep/wake-up, and the power consumption during sleep is less than 400mW. Multiple Presets: Supports up to 255 presets (10 for remote control settings). Users can choose infrared remote control or wireless remote control according to the environmental conditions used. 2.4G wireless remote control is not affected by angle, distance and infrared interference. Support remote control signal transparent transmission function, which is convenient for back-end devices to use. Image Sensor : 1/2.8inch high quality CMOS sensor , Effective Pixel : 8.51M, 16:9. Video Signal HDMI : 4KP30, 4KP25, 1080P30, 1080P25, 1080P29.97. 12X Close-up Lens, Viewing Angle : H : 7.6° (N) ~ 80.5° (W), Digital Zoom : 15X, Minimum illumination : 0.5Lux(F1.8, AGC ON), Focus Mode : Auto/Manual/One key focus, Shutter Speed : 1/25~1/20000, Dynamic Range : Off, 1 ~ 8, SNR : >50dB, Panoramic Lens : Fixed Lens, Back Panel : HDMI, LAN (support POE), USB3.0, A-IN, RS232IN, DC12V power supply, power switch. Video Output : HDMI, LAN, USB3.0. Audio Input : Dual channel 3.5mm linear input, Audio Output : HDMI, LAN, USB3.0. Audio Compression Format : AAC, MP3, G.711A, Control : RS232-IN, Serial Port Communication Protocols : VISCA/Pelco-D/Pelco-P ; Baud Rate:115200/38400/9600/4800/2400. PTZ PAN : -110°~+110°, Tilt : -30°~+30°, Preset Speed : Pan : 78.8°/s, Tilt : 31.7°/s. Auto Framing : Built-in high-speed processor and face detection algorithm, it can automatically detect participants and provide optimal framing. Speaker Tracking : Built-in 6 omnidirectional microphone arrays, intelligent sound source localization algorithm, can locate the speaker's position in real time.			
233	4	Nos.	<b>8th Floor Conference Room</b> Supply, Testing and Commissioning of Pop UP Box should provide an extremely simple, affordable and elegant single-push pop-up multi-connection solution. By pressing down gently on the lid, the unit opens and closes pneumatically, fast and easy to install and flexible to configure, should have HDMI, Audio, Power, CAT6 inputs.			
234	2	Nos.	<b>8th Floor Conference Room</b> Supply, Testing and Commissioning of HDMI Extender Set with Bidirectional IR with EQ and EDID management should have point to point extension of HDMI over UTP supporting 1080p@60hz/24bit video and audio up to 40m/131ft along a single Cat5e/6 cable, should support all high definition resolutions like 1080p, 1080i, 720p with screen refresh rates of 24Hz, 30Hz, 50Hz and 60Hz, should transmits discrete wide-band bidirectional IR control signal together within the HDMI signal over UTP, includes wide-band and dual-band IR Receivers for improved IR performance, extensive EDID management on Transmitter and EQ management on Receiver for improved communication between connected devices and transmission over cable distances, low profile chassis of 17mm / 0.67" for easier, more convenient installations behind screens at display zones, full 3D compatibility, extenders cascadable up to 7 times within a single output zone, 24bit True Color, cable termination follows IEEE-568B standards, HDCP compliant, should be with additional power via phoenix connection, LED indication for visual confirmation of power supply to units and signal status to show established connection between connected devices.			
235	2	Nos.	<b>8th Floor Conference Room</b> Supply, Testing and Commissioning of HDMI Patch Cord of 15 meter for display. 4K UHD and HD compatible, 99.999% oxygen free copper conductors, Flexible, durable foil-insulated housing material increases ease of installation and product life Exceptional high speed performance for 4K UHD and HD 1080p displays with 3D, Perfect opaque plug end as well as excellent conductivity and protection against oxidation, Kink protection and strain relief to protect conductor.			

236	9	Nos.	<b>8th Floor Conference Room</b> Supply, Testing and Commissioning of HDMI Patch Cord of 2 meter for display. 4K UHD and HD compatible, 99.999% oxygen free copper conductors, Flexible, durable foil-insulated housing material increases ease of installation and product life Exceptional high speed performance for 4K UHD and HD 1080p displays with 3D. Perfect opaque plug end as well as excellent conductivity and protection against oxidation, Kink protection and strain relief to protect conductor.			
237	1	Nos.	<b>8th Floor Conference Room</b> Supply, Testing and Commissioning of 4X4 HDMI Matrix Switcher Should have 4 HDMI inputs & 4 HDMI outputs,Should support max. resolution 4K@60Hz (4:4:4),Should have HDMI Support — Deep Color, 3D, ARC, up to 7.1 uncompressed audio channels,Should support 18G data rate and HDCP 2.2/1.4 compliant,Should have embedding and de-embedding capability for audio at both HDMI input and output respectively,Should have Independent Audio Matrix — With ARC support,Should have Level & balance support with bass and treble adjustment,Should have Selectable HDCP Off per Input,Should have Automatic Input Selection — Based on priority selection or last connected input,Should have Flexible control options viz Front Panel, Ethernet with built-in webpages & RS-232,Maximum Data Rate should be 4.95Gbps (1.65Gbps per graphic channel),Resolution Should be 1080p, 1920x1200 UXGA,Should support Front panel buttons, infrared remote control transmitter, RS-232, Ethernet Control,Should have 4 Indicator display on the front panel,Power Consumption Should be 100–240V AC; 50/60Hz, 28VA.			
238	200	Mtr.	<b>8th Floor Conference Room</b> Supply, Cabling, Testing and Commissioning of CAT-6 Cable.			
239	1	Nos.	<b>8th Floor Conference Room</b> Supply, Testing and Commissioning of Chairman Unit should be with high effect circuit that ensure the anti-interference function. It should have Professional hi-fi condenser capsule, good sensitivity, clear sound quality and 2. 20Hz to 20KHz frequency band, 4. Red ring indicator which shows the ON/OFF status, LCD window, Voice active function. It should have Cardioid Capsule, -46 dBV/Pa Sensitivity, 20Hz-20kHz Frequency response, 2 kΩ Input impedance, 20 dBA SPL Equivalent noise, 125 dB SPL, greater than 80dB S/N ratio, less than 0.05% T.H.D.			
240	9	Nos.	<b>8th Floor Conference Room</b> Supply, Testing and Commissioning of Delegate Unit should be with high effect circuit that ensure the anti-interference function. It should have Professional hi-fi condenser capsule, good sensitivity, clear sound quality and 2. 20Hz to 20KHz frequency band, 4. Red ring indicator which shows the ON/OFF status, LCD window, Voice active function. It should have Cardioid Capsule, -46 dBV/Pa Sensitivity, 20Hz-20kHz Frequency response, 2 kΩ Input impedance, 20 dBA SPL Equivalent noise, 125 dB SPL, greater than 80dB S/N ratio, less than 0.05% T.H.D.			
241	1	Nos.	<b>8th Floor Conference Room</b> Supply, Testing and Commissioning of Central Control Unit should have adapting digital technology and embed high performance CPU. It should be with high effect circuit that ensure the anti-interference function. System should be with USB recording in WAV format, 4 channels input, each channel supports 30 units. VIP units can be preset, Multi system can be connected. Systems should can be set by main controller or via computer by USB. It includes modes like FIFO,LIFO,FREE, C-ONLY etc. System also should set Time off, auto off and voice control. It should be with 20Hz-20kHz Frequency response, greater than 96dBA S/N ratio, less than 0.05% T.H.D, USB Recording connector, DIN-8 x4 Input connector, DIN-8 x2 Extension connector, RS-232 x1 Central controller connector, USB x1 Computer connecting, RCA x2 &6.3mm x1 Audio input, RCA x2, 6.3mm x1, XLR x1 Audio output.			
242	1	Nos.	<b>8th Floor Conference Room</b> Supply, Testing and Commissioning of 8 Core Conference System Cable.			
243	8	Nos.	<b>8th Floor Conference Room</b> Supply, Testing and Commissioning of 6" Wall / Ceiling Speaker should have 75Hz - 20kHz Frequency Range, 60W program Power Handling RMS, 90 ± 3db output SPL, 8 Ω 60W- 25W-12.5W-6.25W Input Power, Impedance : 8 ohms.			
244	1	Nos.	<b>8th Floor Conference Room</b> Supply, Testing and Commissioning of 250W RMS Power PA Amplifier Should have 6 Mic Line Input & 2 Aux Input, It should have high mid low tone control (3 band EQ) should support 2 ohms stable operation, should have cooling fan for extra heat dispersion, separate volume control for media player, should have effect processor built in for minimum two microphone for repeat and delay control, Frequency response Should be 50 to 15 KHz,SN ratio Should be 60 dB, Should Support Mp3 Player with USB,FM radio,Bluetooth,Recording; Power supply Should be 220V-240VAC & 24VDC ( 2 X car Batteries).			
245	1	Nos.	<b>8th Floor Conference Room</b> Supply, Testing and Commissioning of Wireless HL/W Microphone Should have UHF600-937 MHz, frequency response Should be 0-17KHz, Distortion Should be <0.5%, SNR Should be >98dB, Sensitivity Should be 5dbuV, Transmission power Should be 10mV, Capsule Type Should be Dynamic, PLL Synthesized Frequency Oscillation Mode, Battery Power Should be 3V.			
246	120	Mtr.	<b>8th Floor Conference Room</b> Supply, Cabling, Testing and Commissioning of 1.5 Sq.mm. Speaker Cable.			
247	100	Mtr.	<b>8th Floor Conference Room</b> Supply, Cabling, Testing and Commissioning of 0.5 Sq.mm. Microphone Cable.			
248	1	Nos.	<b>8th Floor Conference Room</b> Supply, Testing and Commissioning of 12U system rack should be with 600 x 600 mm size with 2 cooling fan, 2 power strip, multi print, front glass door, 2 side ventilation with appropriate hardware for mounting, one tray, two L Bracket set.			
249	1	Set	<b>8th Floor Conference Room</b> Supply, Testing and Commissioning of Connectors and Accessories like XLR Male, XLR Female, RCA, Jack etc...			
250	1	Time	<b>8th Floor Conference Room</b> Installation and Calibration charges			



251	1	Nos.	<p><b>8th Floor Meeting Room</b> Supply, Testing and Commissioning of 65" Interactive touch Should have Direct-Type LED Display, 400 cd/m<sup>2</sup> Brightness (typical). Native Resolution should be 3840 x 2160 (16:9) - UHD. It should have 1200:1 Contrast Ratio, 35000:1 Dynamic Contrast Ratio, 1428 x 803 mm Active Area (H x V), Min. 30000 Hrs Panel Life Time, 8 ms Response Time, Viewing Angle : 178° Vertical &amp; 178° Horizontal, 4mm Tempered Anti-Glare. 65at4vs should have built in Android Pie 9.0 Operating System, CPU, GPU, 2 GB DDR3 Memory, 8GB eMMC Storage, Wifi and Bluetooth. Infrared (IR) Touch Technology, Continuous Touch Points : 20 Points for Windows &amp; 10 Points for Android, HID, TUIO, Flash connectivity, 2 Pen Identities, Battery-less Pen type, Slim Bezel, User-Friendly Front Ports and Buttons, Detachable power cable, Carrying handles. RGB Input : VGA, Video Input : 4 x HDMI2.0, 2 x USB2.0 type-A, 1 x USB2.0 type-C, 1 x MicroSD (up to 1TB), 1 x Secure Slot (USB2.0), 1 x OPS Slot(15W). Video Output : 1xHDMI2.0, External Control : RS232(3.5mm jack), Ethernet(RJ45), Service(RJ12), External Sensor : RJ12, Front I/Os : 2 x USB2.0 Type-A, 1 x USB2.0 Type-B for touch, 1 x HDMI2.0 Input. Audio : 2x20 W - Front Facing Speakers, Pen Holder : Integrated Magnetic Tray. Operating Temperature should be +40°C / 0°C. Operating Humidity should be 90%. Power Supply should be 110 VAC - 240 VAC. Power Consumption should be 155W typical.</p>			
252	1	Nos.	<p><b>8th Floor Meeting Room</b> Supply, Testing and Commissioning of OPS having CPU: Onboard Intel Core i5-8260U, TDP: 15W, BOIS: AMI EFI BIOS, Chipset: Whiskey Lake, Memory: 2 x SO-DIMM DDR4 Slot, Support 4GB/8GB/16GB/32GB/64GB,DDR42133/2400Mhz, OS: WINDOWS 10, WINDOWS 10 IOT, LINUX, PXE: Yes Network: 2 x Onboard RTL8111 Gigabit Ethernet NIC,10/100Mbps/1000Mbps Base T LAN, Video: Intel UHD Graphics 620, Module: 1 x MSATA-half slot for WIFI &amp; Bluetooth Module, Antenna: 2 x inner RF cables and 2 x external antenna, MSATA: 1 x M-SATA3.0 slot for MSATA SSD, support 6Gb/s, M.2: 1 x M.2 slot NVME 2280 SSD, SATA: 1 x SATA3.0 slot for SATA HDD or SSD, support 6Gb/s</p>			
253	1	Nos.	<p><b>8th Floor Meeting Room</b> Supply, Testing and Commissioning of Wall Bracket for 65" Interactive Display.</p>			
254	1	Nos.	<p><b>8th Floor Meeting Room</b> Supply, Testing and Commissioning of Pop UP Box should provide an extremely simple, affordable and elegant single-push pop-up multi-connection solution. By pressing down gently on the lid, the unit opens and closes pneumatically, fast and easy to install and flexible to configure, should have HDMI, Audio, Power, CAT6 inputs.</p>			
255	1	Nos.	<p><b>8th Floor Meeting Room</b> Supply, Testing and Commissioning of Dual Lens PTZ Camera having advanced ISP processing technology and algorithms make the image true to life with uniform picture brightness. It should have 20 X optical zoom with 80.5° angle, 4K UHD Image Quality : maximum resolution can reach 4K (3840x2160), and the 4K output frame rate can reach up to 30 frames per second. The advanced auto-focusing algorithm enables the lens to complete auto-focusing quickly, accurately and stably. It supports HDMI, USB3.0, wired LAN, POE, USB3.0 supports dual stream. It supports low-power sleep/wake-up, and the power consumption during sleep is less than 400mW. Multiple Presets: Supports up to 255 presets (10 for remote control settings). Users can choose infrared remote control or wireless remote control according to the environmental conditions used. 2.4G wireless remote control is not affected by angle, distance and infrared interference. Support remote control signal transparent transmission function, which is convenient for back-end devices to use. Image Sensor : 1/2.8inch high quality CMOS sensor , Effective Pixel : 8.51M, 16:9. Video Signal HDMI : 4KP30, 4KP25, 1080P30, 1080P25, 1080P29.97. 12X Close-up Lens, Viewing Angle : H : 7.6° (N) ~ 80.5° (W), Digital Zoom : 15X, Minimum illumination : 0.5Lux(F1.8, AGC ON), Focus Mode : Auto/Manual/One key focus, Shutter Speed : 1/25~1/20000, Dynamic Range : Off, 1 ~ 8, SNR : &gt;50dB, Panoramic Lens : Fixed Lens, Back Panel : HDMI, LAN (support POE), USB3.0, A-IN, RS232IN, DC12V power supply, power switch. Video Output : HDMI, LAN, USB3.0. Audio Input : Dual channel 3.5mm linear input, Audio Output : HDMI, LAN, USB3.0. Audio Compression Format : AAC, MP3, G.711A, Control : RS232-IN, Serial Port Communication Protocols : VISCA/Pelco-D/Pelco-P ; Baud Rate: 115200/38400/9600/4800/2400. PTZ PAN : -110°~+110°, Tilt : -30°~+30°, Preset Speed : Pan : 78.8°/s, Tilt : 31.7°/s. Auto Framing : Built-in high-speed processor and face detection algorithm, it can automatically detect participants and provide optimal framing. Speaker Tracking : Built-in 6 omnidirectional microphone arrays, intelligent sound source localization algorithm, can locate the speaker's position in real time.</p>			
256	1	Nos.	<p><b>8th Floor Meeting Room</b> Supply, Testing and Commissioning of Table Array Speakerphone Should have 9 built-in microphones pick up voices from 360 degrees; Built-in digital signal processing includes state-of-the-art acoustic echo cancellation, automatic gain control, noise cancellation, and de-reverberation algorithms; Should have LED lights indicate voice direction and device status, Should have Controls on the device include Volume Up, Down, and Mute; Should have RJ45 and USB Type B Connector, Frequency Response Should be 50 Hz to 16 kHz; Noise Cancellation Should be &gt;15dB, Acoustic Echo Cancellation Should be &gt;40dB, Speaker Power Handling Should be 4 watts (RMS).</p>			
257	1	Nos.	<p><b>8th Floor Meeting Room</b> Supply, Testing and Commissioning of HDMI Patch Cord of 10 meter for display. 4K UHD and HD compatible, 99.999% oxygen free copper conductors, Flexible, durable foil-insulated housing material increases ease of installation and product life Exceptional high speed performance for 4K UHD and HD 1080p displays with 3D, Perfect opaque plug end as well as excellent conductivity and protection against oxidation, Kink protection and strain relief to protect conductor.</p>			
258	1	Nos.	<p><b>8th Floor Meeting Room</b> Supply, Testing and Commissioning of HDMI Patch Cord of 2 meter for display. 4K UHD and HD compatible, 99.999% oxygen free copper conductors, Flexible, durable foil-insulated housing material increases ease of installation and product life Exceptional high speed performance for 4K UHD and HD 1080p displays with 3D, Perfect opaque plug end as well as excellent conductivity and protection against oxidation, Kink protection and strain relief to protect conductor.</p>			
259	1	Time	<p><b>8th Floor Meeting Room</b> Installation and Calibration charges</p>			

260	1	Nos.	<b>9th Floor Meeting Room</b> Supply, Testing and Commissioning of 65" Interactive touch Should have Direct-Type LED Display, 400 cd/m <sup>2</sup> Brightness (typical). Native Resolution should be 3840 x 2160 (16:9) - UHD. It should have 1200:1 Contrast Ratio, 35000:1 Dynamic Contrast Ratio, 1428 x 803 mm Active Area (H x V), Min. 30000 Hrs Panel Life Time, 8 ms Response Time, Viewing Angle : 178° Vertical & 178° Horizontal, 4mm Tempered Anti-Glare. 65at4vs should have built in Android Pie 9.0 Operating System, CPU, GPU, 2 GB DDR3 Memory, 8GB eMMC Storage, Wifi and Bluetooth. Infrared (IR) Touch Technology, Continuous Touch Points : 20 Points for Windows & 10 Points for Android, HID, TUIO, Flash connectivity, 2 Pen Identities, Battery-less Pen type, Slim Bezel, User-Friendly Front Ports and Buttons, Detachable power cable, Carrying handles. RGB Input : VGA, Video Input : 4 x HDMI2.0, 2 x USB2.0 type-A, 1 x USB2.0 type-C, 1 x MicroSD (up to 1TB), 1 x Secure Slot (USB2.0), 1 x OPS Slot(15W). Video Output : 1xHDMI2.0, External Control : RS232(3.5mm jack), Ethernet(RJ45), Service(RJ12), External Sensor : RJ12, Front I/Os : 2 x USB2.0 Type-A, 1 x USB2.0 Type-B for touch, 1 x HDMI2.0 Input. Audio : 2x20 W - Front Facing Speakers, Pen Holder : Integrated Magnetic Tray. Operating Temperature should be +40°C / 0°C. Operating Humidity should be 90%. Power Supply should be 110 VAC - 240 VAC. Power Consumption should be 155W typical.			
261	1	Nos.	<b>9th Floor Meeting Room</b> Supply, Testing and Commissioning of OPS having CPU: Onboard Intel Core i5-8260U, TDP: 15W, BOIS: AMI EFI BIOS, Chipset: Whiskey Lake, Memory: 2 x SO-DIMM DDR4 Slot, Support 4GB/8GB/16GB/32GB/64GB,DDR42133/2400Mhz, OS: WINDOWS 10, WINDOWS 10 IOT, LINUX, PXE: Yes Network: 2 x Onboard RTL8111 Gigabit Ethernet NIC,10/100Mbps/1000Mbps Base T LAN, Video: Intel UHD Graphics 620, Module: 1 x MSATA-half slot for WIFI & Bluetooth Module, Antenna: 2 x inner RF cables and 2 x external antenna, MSATA: 1 x M-SATA3.0 slot for MSATA SSD, support 6Gb/s, M.2: 1 x M.2 slot NVME 2280 SSD, SATA: 1 x SATA3.0 slot for SATA HDD or SSD, support 6Gb/s			
262	1	Nos.	<b>9th Floor Meeting Room</b> Supply, Testing and Commissioning of Wall Bracket for 65" Interactive Display.			
263	1	Nos.	<b>9th Floor Meeting Room</b> Supply, Testing and Commissioning of Pop UP Box should provide an extremely simple, affordable and elegant single-push pop-up multi-connection solution. By pressing down gently on the lid, the unit opens and closes pneumatically, fast and easy to install and flexible to configure, should have HDMI, Audio, Power, CAT6 inputs.			
264	1	Nos.	<b>9th Floor Meeting Room</b> Supply, Testing and Commissioning of Webcam Should Supports up to 1080p@30 Full HD. Should have 120° ultra wide-angle field-of-view, Lens Should be Focus: f=2.8mm with 1/2.7", CMOS Sensor , Pixel Should be 2.07M, Minimal Illumination Should be 0.05 Lux, Shutter Should be 1/30s – 1/10000s, Should Support Backlight Compensation, 2D & 3D Digital Noise Reduction, Horizontal Viewing Angle Should be 120°, Should Support Windows 7,Windows 8.1,Windows 10 or higher,macOS™ 10.10 or higher, Should have 2 GB RAM, Should have USB 2.0 port, Should Support 1080p@30fps/25fps, 720p30/25, 960x540p30/25, 640x360p30/25 Video Format. Input Voltage Should be 5v, Operating Temperature Should be 14°F ~ 104°F (0°C ~ 40°C).			
265	1	Nos.	<b>9th Floor Meeting Room</b> Supply, Testing and Commissioning of USB Speakerphone with minimum 1 x USB, 1 x RJ45 and Frequency Response should be 20Hz - 20 kHz, 10 kΩ Input Impedance, 50 Ω Output Impedance, 85 dB SPL, - 41 - 104° F Operating Temperature.			
266	1	Nos.	<b>9th Floor Meeting Room</b> Supply, Testing and Commissioning of HDMI Patch Cord of 5 meter for display. 4K UHD and HD compatible, 99.999% oxygen free copper conductors, Flexible, durable foil-insulated housing material increases ease of installation and product life Exceptional high speed performance for 4K UHD and HD 1080p displays with 3D, Perfect opaque plug end as well as excellent conductivity and protection against oxidation, Kink protection and strain relief to protect conductor.			
267	1	Nos.	<b>9th Floor Meeting Room</b> Supply, Testing and Commissioning of HDMI Patch Cord of 2 meter for display. 4K UHD and HD compatible, 99.999% oxygen free copper conductors, Flexible, durable foil-insulated housing material increases ease of installation and product life Exceptional high speed performance for 4K UHD and HD 1080p displays with 3D, Perfect opaque plug end as well as excellent conductivity and protection against oxidation, Kink protection and strain relief to protect conductor.			
268	1	Time	<b>9th Floor Meeting Room</b> Installation and Calibration charges			
269	2	Nos.	Supply, Testing and Commissioning of Face with Finger Attendance Cum Access Control System Should have 1500 Face capacity, 5000 Card capacity, 5000 Fingerprint capacity, 5000 Password capacity, Should have Maximum 5,00,000 Attendance log & 10000 Management log,Should have 4.3 inch Touch LCD Display,Should Support TCP/IP & Wifi Communications,processor Should be 1.3 Ghz A33 Quad Core, Should have 512 MB Flash memory & 64MB SDRAM,Hardware Should be Platform 600 Multi Medium Development, Should Support U-disk , Should Support Intelligent adaptation Function, Self-test function, Search attendance log & Matching mode, Should have ≤1.0 second Identify speed, Fingerprint input angle Should be 360 degree.			
270	15	R.mtr	Pipe Laying. Supply, Fabrication, Installation, Hydro Testing & Painting of Above Ground Pipe. With necessary Pipe Fittings (Flanges, Bands, Socket etc.), MS Support/Clamps/Hangers etc. Hardware (Gaskets, Nut-Bolts, Paint etc.), Consumables (Welding Rod, etc.) and Labour Charge. Quality: GI, C-Class (Heavy). Paint: UOM:-Price Per Running Meter Size: 100 mm			
271	31	R.mtr	Size: 80 mm			
272	13	R.mtr	Size: 65 mm			

273	5	R.mtr	Size: 50 mm			
274	70	R.mtr	Size: 40 mm			
275	195	R.mtr	Size: 25 mm			
276	1	No.	Butterfly Valve Supply, Installation and Testing of: Butterfly Valve with necessary pipe fitments, hardware and consumables. MOC:-Body: Cast Iron, Disk: SS, Seat: Nitrile. UOM:-Price Per Each No. Size: 100 mm			
277	1	No.	Size: 80 mm			
278	80	No.	Sprinkler Head/ Nozzle. Supply, Installation and Testing of: K 5.6 Pendent type Standard Response Sprinkler rating of 57 deg.C. with required accessories. MOC:-Brass Standard: UL Listed Size:-15 mm (1/2") UOM:-Price Per Each No.			
279	80	Rmt	Sprinkler Hose. Supply, Installation and Testing of 1000mm flexible sprinkler hose with required accessories. Standard: UL Listed Size:-15 mm (1/2") UOM:-Price Per Each No.			
280	2	No.	Flow Switch Supply, Installation and Testing of: Flow Switch with necessary pipe fitments, hardware and consumables. UOM:-Price Per Each No. With all wiring/ cabling up to control panel and all electrification.			
281	2	No.	Providing and fixing, testing and commissioning of <b>Draining Valve</b> 50mm dia with by pass drain connection as required.			
282	95	Ea	SITC of Analogue Addressable <b>Multi-Sensor</b> which is fully compatible with Analogue Addressable Protocol, having removable high performance chamber with Twin fire LED's allow 360 degree viewing, User selectable sensitivity modes 1% to 4.5% obs/m, Incorporate Optical and dual Heat elements, lock mechanism (sensor to base), Electronically addressed, Pulsing/non-pulsing controlled from panel. Approved by LPCB & VdS. (Including Five year free maintenance with guarantee)			
283	5	Ea	SITC of <b>sensor isolator</b> mounting base, includes stainless steel contacts, slim profile - only 8mm, quick connection via square cable clamps, facility for remote indicator, Approved by LPCB (Including Five year free maintenance with guarantee)			
284	2	Ea	SITC of Analogue Addressable <b>Manual Call Point</b> with Integral Short Circuit Isolator, Analogue Addressable Protocol having, Bi-coloured status LED (red for alarm, amber for (short-circuit), Non-frangible element fitted as standard (conforms to EN54), pulsing/non-pulsing can selectable via panel, Electronically addressed, Approved by LPCB. (Including Five year free maintenance with guarantee)			
285	2	Ea	SITC of <b>addressable loop</b> powered Base sounder with integral Beacon, includes 51 user-selectable tones (all tones EN54-3 compatible), variable sound output 50 ~ 98 dB(A) ( $\pm 2$ dB(A)) output at 1 metre, Auto shut down feature prevents noise pollution, 'O' rated beacon to EN-23, IP21 rated for internal use, sounder and beacon can operate independently, Approved by LPCB (Including Five year free maintenance with guarantee)			
286	500	Mtr.	Supplying & laying of 2x1.5 sqmm <b>fire alarm armoured cable</b> , 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armouring & FRLS outer sheath complete as required.			
287	1	Ea.	SITC of Microprocessor based Net-workable Analogue Addressable <b>Fire Alarm Control Panel</b> . The Panel shall be compliant with EN54-2, EN54-4 and approved by LPCB. The Fire Alarm Control Panel shall have inbuilt 3 loops and expandable upto 4 Loops. The Panel must have large graphic display. The Panel must also have the capability to take Addressable Intelligent Wired and Wireless Devices on same loop. Each loop shall have a capacity of 127 analogue Addressable devices and 127 Base sounders/Base Sounder Beacons. The Panel shall have 240 V AC power supply along with automatic Battery Charger. Approved by LPCB (Including Five year free maintenance with guarantee)			
288	4	Ea.	Supplying & erecting <b>carbon dioxide (CO2) fire extinguisher</b> user of following capacity with necessary clamps made from 50 x 6 mm M.S. Flat with nut & bolts grouted in wall complete. [A] For 4.5 Kg Capacity			
289	4	Ea.	Supplying & erecting <b>ABC powder type 'Ceasefire' type Fire extinguisher</b> as per IS 13849 or 1 Kg capacity with necessary clamp for erection on wall			
290	20	No.	Safety Signage- Night Glow Type: SIRC of: Single Side Printed Night Glow (Glow in Dark ) Safety Signage. Printed on PVC sticker sheet and pasted on 3-5 mm thick PVC foam sheet. Size: 10" X 10".			
291	1	No.	Approval of Fire Hydrant & Entire Fire Protection System from Local Fire Authority and any other relevant statutory authority at initial and various other stages of work, including preparation of report/drawings as per fire authority requirement. Contractor shall include cost of all liason work which are not explicitly mentioned above but are mandatory to have fire authority approval (any statutory charges will be paid extra).			
<b>BUY-BACK</b>						
1	1	LOT	<b>BUY_BACK OF EXISTING FURNITURE/ COST Contractor have to visit the site before bidding make list out of existing furniture/electrical works/Existing HVAC and Give deduction in cost of existing furniture.</b>			