



**NATIONAL AGRICULTURAL COOPERATIVE  
MARKETING FEDERATION OF INDIA LTD.  
(NAFED)**

**Corrigendum for Extension of Date**

**TENDER FOR INTERIOR, CIVIL, ELECTRICAL, AIR-  
CONDITIONING & ITS ASSOCIATED WORKS OF NAFED  
BRANCH OFFICE AT NBCC COMMERCIAL COMPLEX,  
GOMTINAGAR EXTENSION, LUCKNOW.**

Tender ID: 1544/2024-25 Dated: 05/09/2024

In reference to various requests received from various firms, detailed BOQ is being enclosed for needful action. Further, the revised timeline for submission of BOQ is as follows:

<b>PARTICULARS</b>	<b>ORIGINAL DATE OF SUBMISSION</b>	<b>REVISED DATE OF SUBMISSION</b>
Submission of Sealed Bids at NAFED Office Lucknow up to 1500 Hrs.	09-10-2024	23-10-2024
Opening of Techno - Commercial Bids at NAFED Office Lucknow in the 1530 Hrs	09-10-2024	23-10-2024
Opening of Price Bids at NAFED Office Lucknow at 1630 Hrs. (Change of date will be notified if any)	11-10-2024	25-10-2024
	Submission to be done in offline mode only	

\* All other terms & conditions remain unchanged.

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Sd/-  
State Head  
NAFED Lucknow

**SUMMARY FOR INTERIOR WORKS FOR NAFED OFFICE  
NBCC COMMERCIAL COMPLEX, GOMTINAGAR EXTENSION,**

<b>SUMMARY</b>		
<b>S.NO.</b>	<b>DESCRIPTION</b>	<b>DSR AMOUNT (In Rs.)</b>
<b>A</b>	<b>CIVIL WORKS</b>	
<b>B</b>	<b>PLUMBING WORKS</b>	
<b>C</b>	<b>INTERIOR WORKS</b>	
<b>D</b>	<b>ELECTRICAL WORKS</b>	
<b>E</b>	<b>FIRE FIGHTING WORKS</b>	
<b>F</b>	<b>AIR CONDITIONING WORKS</b>	
	<b>SUB TOTAL</b>	<b>0.00</b>
	<b>ADD- 18% GST</b>	<b>0.00</b>
		<b>0.00</b>

BOQ FOR INTERIOR WORKS FOR NAFED OFFICE AT NBCC COMMERCIAL COMPLEX, GOMTINAGAR EXTENSION, LUCKNOW					
S.No.	Description	Unit	Quantity	Rate	Amount
<b>(A ) Civil Work</b>					
1	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand :3 20mm aggregate)	Cum	0.60		
2	Centering and shuttering including strutting, propping etc. and removal of form for :				
2.1	Suspended floors, roofs, landings, balconies and access platform	Sqm.	5.00		
3	Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like	Sqm.	3.00		
4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
4.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	100.00		
5	Half brick masonry with common burnt clay FPS ( non modular ) bricks of class designation 7.5 in Superstructure above plinth upto floor V level				
5.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm.	105.00		
6	Extra for providing and placing in position 2 Nos. 6mm dia MS bars at every 3rd course of half brick masonry	Sqm.	105.00		
7	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
7.1	Granite of any colour and shade				
7.1.1	Area of slab upto 0.50 sqm	Sqm.	1.00		
7.1.2	Area of slab over 0.50 sqm	Sqm.	10.00		
8	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.	Rmt.	18.00		
9	Extra for providing opening of required size & shape for wash basin/kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	Each	5.00		
10	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm.	90.00		
11	Providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc. with iron screws, plugs and priming coat on unexposed surface etc. complete 2nd class teak wood.				
11.1	50x50 mm (base and height)	Rmt.	150.00		
12	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	300.00		
13	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.				
13.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm.	370.00		
14	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only. Laying of tiles will be done with the notch trowel, piler, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily..				
14.1	Double charge vitrified tile polished finish of size				
14.1.1	Size of Tile 800 x 1600 mm	Sqm.	280.00		
14.2	Glazed Vitrified tiles Matt/Antiskid finish of size				
14.2.1	Size of Tile 800 x 1200 mm	Sqm.	40.00		
15	Providing and Fixing William Tape for protecting floor & glass from dust during construction Item includes removing the tape after completion of work and cleaning the area	Sqm.	380.00		
16	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.				
16.1	Size of Tile 800x800 mm	Sqm.	30.00		
17	Providing & fixing WPC (Wood Plastic Composite) Plank fixed with adhesive over levelled 50 mm (average) thick cement concrete all complete as specified and as directed by the SAIL/ Engineer/ Engineer's Representative. Wooden Flooring as per design (Basic Rate minimum Rs. 200 sq.ft)	Sqm	70.00		
18	12 mm cement plaster of mix :				
18.1	1:6 (1 cement: 6 coarse sand)	Sqm.	280.00		
19	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm.	625.00		
20	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.				
20.1	Two coats	Sqm.	625.00		
21	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content.				
21.1	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	Sqm.	625.00		
22	Providing & applying two or more coats of Luster Paint on walls, columns & ceilings. The rate shall include scrapping, levelling & preparing the surface. Primer coat + (minimum) 3 coats to get evenly spread quality finish (roller finish) of approved make, quality & shade.	Sqm.	50.00		
	NOTE : Rate shall also include - Filling up the cracks in walls & ceiling, making good surface and Applying two or more coats after 6 to 9 months after inauguration of the Branch. Also with rectification of wet and swollen patches				
23	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying :(a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours.	Sqm.	30.00		
	(The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.)				
<b>(B ) Plumbing Work</b>					

1	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :			
1.1	Kitchen sink without drain board			
1.1.1	610x510 mm bowl depth 200 mm.	Each	1.00	
2	providing and fixing cp brass bottle trap of approved quality & make and as per the direction of Engineer -in- Charge / consultant.			
2.1	40 mm dia	Each	7.00	
3	providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved of Engineer -in- Charge / Consultant.			
3.1	15 mm nominal bore	Each	1.00	
4	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.			
4.1	Flexible pipe			
4.1.1	32 mm dia	Each	5.00	
5	Providing and fixing 6mm Mirror upon Ply Boxing made of 12mm commercial Plywood with a provision of cove to accommodate LEDstrip for back lit effect as per the directions of Engineer-in-charge/ Consultant.	Sqm.	3.00	
6	Providing and fixing White vitreous wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required:	Each	4.00	
7	Providing & fixing Blush Deck Mounted Sensor faucet with Control Box (Battery Operated) for wash basin, all complete as per direction of Engineer-in-charge/ Consultant.	Each	4.00	
8	Providing and fixing <b>Braided Hoses</b> with Two 15mm CP Brass Nuts & Rubber Washers Without Nipple (Suitable for Geysers and basins), all complete as per direction of Engineer-in-charge/ Consultant.			
	45 cm length			
8.1	15 mm nominal bore	Each	8.00	
9	Providing & fixing of <b>Wall Mounted Paper towel dispensers</b> towels with C/Z folds capacity: 400-600 C/Z towels made of AISI 304 Stainless Steel with Satin finished. The towel tray opening has bound edges to minimise tearing of paper towels. Door fixed to the body with two rivets, allowing it to be swung open for replenishment. Slot for viewing content level on the front, all complete as per direction of Engineer-in-charge/ Consultant.	Each	4.00	
10	Providing and Fixing of <b>Health Faucet Kit (Flexible Chrome Hose, Handset &amp; Bracket)</b> all complete including CP flange etc all complete as per the direction of Engineer-in-charge/ Consultant, all complete as per the direction of Engineer-in-charge/ Consultant.	Each	4.00	
11	Providing & fixing <b>Towel Ring Square</b> with C.P. brass wall brackets & C.P. brass screws complete as required, all complete as per the direction of Engineer-in-charge/ Consultant.			
11.1	Size 600 x 20 mm size	Each	4.00	
12	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore.			
12.1	15 mm nominal bore	Each	5.00	
13	Providing and fixing of <b>Sensor Operated Optimum Hand Dryers</b> - Weld-free cover fixed to the base with 4 Allen bolts. Base in ABS thermoplastic UL 94-V0. Thermoplastic fan wheel PA6 UL 94-V0. Class F induction motor incorporating a safety thermal cut-off. PP UL 94-V0 aluminium centrifugal single inlet fan wheel. Heating element incorporating a safety thermal cut-off. Electronic infrared detection sensor. Adjustable detection adjustable (15-25 cm), all complete as per the direction of Engineer-in-charge/ Consultant.	Each	4.00	
14	Providing & Fixing <b>Automatic soap dispenser</b> Capacity-0.8 L. made by aluminium / ABS with Chrome finished, all complete as per the direction of Engineer-in-charge/Consultant.	Each	4.00	
15	Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/6 litre (adjustable to 4 litre/8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.	Each	4.00	
16	Providing & fixing white vitreous china Touchless urinal with rear inlet with integrated sensor having antibacterial /germs free ceramic surface, fixed with cartridge having debris catcher and hygiene seal, all complete as per the direction of Engineer-in-charge/ Consultant.	Each	4.00	
17	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.	Each	14.00	
18	Providing and fixing chlorinated polyvinyl chloride (CPVC) pipe having thermal stability for hot and cold water supply, including all CPVC plain and brass threaded fittings, including fixing i/c fixing the pipe with clamp at 1.0M spacing. this include joints of pipes and fittings with one stap CPVC solvent cement and the cost of cutting chases making good the same includind testing of joints complete as per direction of Engineer in charge / Consultant.			
	<b>Concealed work</b> including cutting chases and making good the wall.			
18.1	15 mm dia nominal bore	Rmt.	30.00	
18.2	20 mm dia nominal bore	Rmt.	50.00	
19	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. <b>External work</b>			
19.1	25 mm nominal dia Pipes	Rmt.	30.00	
19.2	32 mm nominal dia Pipes	Rmt.	30.00	
20	Providing & fixing UPVC soil, waste, vent pipework comprising UPVC pipe conforming to IS :4985-1983 and of required class as specified below and fittings (moulded as well as fabricated) like elbows, bends, reducers, threaded tail pieces, caps and and other specials. jointing with cement solvent, chasing, cutting and making good the walls, complete in all respects including testing of complete installation.			
20.1	50 mm dia	Rmt	25.00	
20.2	75 mm dia	Rmt	30.00	
20.3	100mm dia	Rmt	50.00	

(C ) Interior Work				
	<b>FALSE CEILING</b>			
	<b>FALSE CEILING- MODULAR TYPE</b>			
1	Providing and fixing mineral fibre false ceiling tiles at all heights of size 595x595mm of approved texture, design and pattern. The tiles should have Humidity Resistance (RH) of 99%, Light Reflectance > 85%, Thermal Conductivity k = 0.052 0.057 w/m K, Fire Performance as per (BS 476 pt - 6 & 7) in true horizontal level suspended on interlocking T-Grid of hot dipped all round galvanized iron section of 0.33 mm thick (galvanized @120 gsm) comprising of main T runners of 15x32 mm of length 3000 mm, cross T of size 15x32mm of length 1200 mm and secondary intermediate cross T of size 15x32 mm of length 600 mm to form grid module of size 600x600 mm suspended from ceiling using galvanized mild steel item (galvanised@80gsm) 50 mm long 8mm outer diameter M-6 dash fasteners, 6 mm diameter fully threaded hanger rod up to 1000 mm length and L-shape level adjuster of size 85x25x2 mm, spaced at 1200 mm centre to centre along main 'T'. The system should rest on periphery walls /partitions with the help of GI perimeter wall angle of size 24x24x3000 mm made of 0.40 mm thick sheet, to be fixed to the wall with help of plastic rawl plug at 450 mm centre to centre & 40 mm long dry wall S.S. screws. The exposed bottom portion of all T-sections used in false ceiling support system shall be pre-painted with polyester baked paint, for all heights. The work shall be carried out as per specifications, drawings and as per directions of the engineer-in-charge.			
1.1	With 16 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.55 to 0.60)	Sqm.	150.00	
	<b>FALSE CEILING- GYPSUM TYPE</b>			
2	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :			
2.1	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) : 2011 (Board with BIS certification marks	Sqm.	210.00	
	<b>GI Metal Ceiling</b>			
3	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting /making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.			
3.1	GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.	Sqm.	25.00	
	<b>VENEER CEILING:</b>			
4	Providing and fixing in position 18 mm thick block board for soffit / false ceiling finished with veneer finish including 25 x 25mm thick II class TW wooden frame work/ supports, suspended from RCC ceiling & mouldings, groove, veneer finished with melamine polish. Item to be completed in all respects as per drawings & instructions from EIC / Architect.	Sqm.	30.00	
	<b>FULL HEIGHT SOLID PARTITION</b>			
5	<b>Full Ht. Solid Partition :-</b> Providing and fixing solid partition, the framing shall made out of aluminium hollow section of 53mm x 38.1mm size 1.1mm thick of JINDAL / INDAL as internal frame structure placed horizontally & vertically at max distance of 2'-0" x 2'-0" center to center. Fixing 8 mm thick commercial ply on both sides with 1.0mm thick laminate on top of approved shade with groove pattern as per instructions of Architect. The shade of laminate finish to be got approved by Engineer-in-Charge /Consultant. Approved make 10mm thick Clear Float glass to be fixed from skirting level to 2100mm level ( in the top line of Door), The skirting should be as per approved laminate as per drawing and direction. Rate shall be inclusive of necessary hardware items, etc. Complete. The edge beadings with steam beach wood should be finished with melamine polish if required, frame work above false ceiling done shall not be measured but contractor may factor it while quoting there rates as measurement up to false ceiling lvl.	Sqm.	165.00	
	<b>LOW HEIGHT PARTITION</b>			
6	<b>Low ht. Solid Partition :-</b> Providing and fixing solid partition, the framing shall made out of aluminium hollow section of 53mm x 38.1mm size 1.1mm thick of JINDAL / INDAL as internal frame structure placed horizontally & vertically at max distance of 2'-0" x 2'-0" center to center. Fixing 8 mm thick commercial ply on both sides with 1.0mm thick laminate on top of approved shade with groove pattern as per instructions of Architect. The shade of laminate finish to be got approved by Engineer-in-Charge /Consultant. The skirting should be as per approved laminate as per drawing and direction. Rate shall be inclusive of necessary hardware items, etc. Complete. The edge beadings with steam beach wood should be finished with PU coating if required including providing & fixing steam beech wooden coping as per Architect Design on horizontal and vertical exposed ends of low height partition polished with PU coated finished complete in all respect.Providing and Fixing inserted Soft board / White boards / Glass maintaining the vertical surface lines and no extra measurements would be taken for the soft boards / white boards / Glass.	Sqm.	50.00	
7	Extra charge for Providing & fixing of Resin Bonded Fibre glass wool conforming to IS : 8183, density 24kg / cum, 50mm thick, wrapped in 200 G VirginPolythene bags in Solid Wooden Partition Wall for Soundproofing.	Sqm.	60.00	
	<b>WALL PANELLING</b>			

8	<b>WALL PANELLING</b> :- Fabricating and fixing wall/column paneling, the framing shall made out of aluminium hollow section of 40mm x 37mm size 1.5mm thick of JINDAL / INDAL at spacing not exceeding 600mm bothways (horizontal and vertical). Paneling framework to be secured to wall surface/column surface. Paneling framework to be clad on one side with 9mm thick ply finished with 4 mm thick Veneer & melamine polish including skirting of 100mm high & 12mm x 12mm groove at skirting level. basic cost of the veneer Rs. 175 per/ Sqft leaving taxes and transportation charges, etc all complete as per detailed drawing.	Sqm.	100.00		
9	Fabricating and fixing wall/column paneling, the framing shall made out of aluminium hollow section of 38.1mm x 25.4mm size 1.44mm thick at spacing not exceeding 600mm bothways (horizontal and vertical). Paneling framework to be secured to wall surface/column surface. Paneling framework to be clad on one side with 8mm thick ply board finished with premium Veneer & melamine polish over 6 mm ply including skirting of 100mm high & 12mm x 12mm groove at skirting level. All complete as per direction of the SAIL/ Engineer/ Engineer's Representative.	Sqm.	35.00		
<b>TOUGHENED GLASS PARTITION</b>					
10	Providing and Fixing Full height straight glass partitions using 12mm thk toughened glass inclusive of the glass surface as indicated on the drawings and as per the instructions of the Architect. Glass to be fixed with SS "U" CHANNEL, concealed properly with requisite sealant within partition / MDF frame as per detail. All exposed edges of the glass shall be machine polished.All glass-to-glass joints to be sealed with pre-approved silicon sealants/ 3M tape, as required (GLASS MAKE Modiguard/Asahi float/Saint-Gobain/Asahi India)	Sqm.	25.00		
<b>TOUGHENED GLASS DOOR</b>					
11	Providing and fixing Single/Double leaf glass door made of 12 mm thick toughened glass fixed on stainless steel fittings of required section of chrome finished,100mm high Stainless steel plate at top and bottom both side of the glass shutter as per drawing, including floor spring, patch fittings, SS top pivot, door handle, lock of approved make (sample approved by the Architect/ Client) and all necessary hardwares and fixing arrangement complete as shown in drawing and directed by the Architect. make of Fitting as approved: Kich/Ozone/Neki/Dorma. & Glass Make : Modiguard/Asahi float/ Saint-Gobain/Asahi india.with cylindrical locks and kitch handles both sides 30mm dia and 600mm long in buffed SS 304 finish.	Sqm.	15.00		
<b>FROSTED FILM</b>					
12	Providing and fixing frosted film on both sides of Glass Partition/Glass door with MCS warranty of 5 years as per the manufacturer specification. (Finished works to be measured as smt). To include cost of printing designing, and sample approvals.	Sqm.	40.00		
13	Providing & fixing full height interior grade A.C.P. wall paneling 3 mm thick in two or more shades/ design fixed on 50 X 25 Aluminum frame at 600 centre to centre both sides horizontal & vertical. The paneling to be finished with silicon complete in all respects as per Bank/ Architect.	Sqm.	10.00		
<b>DOOR</b>					
14	Providing & fixing 30mm thk flush door with 1 1/2" X 1/4" lipping patti on all sides, 1mm thk laminate finish on both sides as per architect instructions. complete with all necessary hardware, stoppers. (Cost to include cost of Handle, lock, floor spring / door closure, hinges )	Sqm.	18.00		
15	<b>Door Frame</b> :- Made overall size 60x150 mm finished with polish finish(Steam beech wood basic cost Rs. 3500.00/-per cft) Note:- for partition frame size :- 50x100 or as per partiton width. Architraves of overall size 40x12 mm fixed to wooden frame both side	Cft.	18.00		
16	Providing, fitting and fixing of Modular Toilet Enclosure made out of 12mm thick High Pressure Laminate of approved color and texture with door size 1925mm(H)x600mm(W) divider size 2100mm (H) overall height of cubicle 2100mm (including bottom gap of 100mm) of Merino or equivalent make including cost of all fittings, accessories, labour etc all complete as per direction of Engineer-in-Charge.	Nos	3.00		
17	Providing and fixing Planters Size-(450x450x300) inside GI lining and external finished with laminate	Nos	10.00		
18	Providing and Supplying picture Frame made of Acrylic sheet size-300 mm x450 mm with basic price @ 1200 Rs.	Nos	10.00		
19	Providing and Supplying Artificial Plant with pebbles may be approved with basic price @ 2000 Rs.	Nos	10.00		
20	Providing and Supplying Art work /painting of approved quality with basic price @ 10000 Rs	Nos	5.00		

	<b>STORAGE</b>				
21	Providing and fixing Full height storage 500mm deep made out of 19mm Comm. Ply finished with 1.0mm laminate in all exposed areas . The drawers to be made out of 19mm comm. ply in the front clad with 1.0mm laminate( color, vertical grain) .sides to be made out of 12mm plywood and bottom made out of 6mm plywood duly painted in matching tone and it should play on drawer sliding channels . The shutters to be made out of 19mm block board and should play on drawer sliding castors on powder coated channels. The necessary locks, handles, etc to be provided . 3" high laminated skirting to be fixed bottom side of the Storage. Inside of the unit to be enamel painted in matching tone . All the exposed edges of the boards/plywoods to be covered with wooden lippings/mouldings duly polished all complete. <u>All complete as per the design and instructions of Engineer- in- Charge / Consultant.</u>				
21.1	Full HT. STORAGE UPTO 8'-0"	Sqm.	52.00		
21.2	Low HT. / OVER HEAD STORAGE UPTO 4'-0"	Sqm.	35.00		
22	Providing & fixing 1 mm thick Premium high glossy laminate paste over 18 mm thick commercial board cladding with Rawl plug on the wall for glass shelves	Sqm.	50.00		
23	Providing & fixing 10 mm thick toughened glass as glass shelves including patch fitting as required, all complete as per direction of Engineer-in-charge.	Sqm.	35.00		
24	Providing & fixing 08 mm thick toughened glass as glass shutter including channel & patch fitting as required, all complete as per direction of Engineer-in-charge.	Sqm.	45.00		
	<b>TABLES</b>				
25	<b>CONFERENCE ROOM TABLE</b> 750mm ht. as per design with round edges of all 4 corners, Table top to be made of 35mm thick commercial plywood, top and base of the table to be finished in 12mm solid acrylic top (corian) of approved shade, Table to be constructed in hardwood framework with necessary provisions for wire management. Finished in 1 mm premium laminate as/design and detail. All visible surfaces to be finished in same 1 mm premium laminate & internal area's of Table to be finished in 1mm laminate of approved shade. with pop up boxes in SS finish Legrand Make (approximately 5 boxes of 8 module). and also to be co-ordinate with services for the provision of speaker, data, telephone etc.				
	CONFERENCE ROOM- 5400x1200x750mm	Nos	1.00		
26	<b>STATE HEAD ROOM TABLE</b> Size: 2400mm x 850mm x 750mm ht. as per design Table top to be made of 35mm thick commercial plywood, top face & visible sides of the table to be finished in 12mm solid acrylic (corian) of approved shade, Table to be constructed in hardwood framework with necessary provisions for wire management. Finished in 1 mm premium laminate as/design and detail. All other internal area's of Table to be finished in 1mm laminate of approved shade. cost to include Back storage Size: 2850mm x 450mm x 750mm ht. with solid acrylic (corian) 12 mm top and side storage of Size: 1200mm x 450mm x 750mm ht. with solid acrylic (corian) 12 mm top including providing & fixing of all hardware & accessories, hinges, door handle, lock, making of grooves, providing & applying wood preservative, antitermite proof paint, polish, screws, nails, wooden studs, wooden beading, all necessary fixing arrangement etc complete as per design and drawing. all hardware to be Hettich / hafele. Basic cost of corian to be Rs. 1000/- per sq.ft.	Nos	1.00		
	STATE HEAD ROOM TABLE- 2400x825x750mm				
27	<b>AM/ DM CABIN TABLE</b> Size: 1350mm x 750mm x 750mm ht. as per design Table top to be made of 35mm thick commercial plywood, top, face and visible sides of the table to be finished in 12mm solid acrylic (corian) of approved shade, Table to be constructed in hardwood framework with necessary provisions for wire management. Finished in 1 mm premium laminate as/design and detail. All other internal area's of Table to be finished in 1 mm laminate of approved shade. cost to include side storage of Size: 1050mm x 450mm x 750mm ht. with solid acrylic (corian) 12 mm top including providing & fixing of all hardware & accessories, hinges, door handle, lock, making of grooves, providing & applying wood preservative, antitermite proof paint, polish, screws, nails, wooden studs, wooden beading, all necessary fixing arrangement etc complete as per design and drawing. all hardware to be Hettich / hafele. Basic cost of corian to be Rs. 1000/- per sq.ft.				
	OFFICER CABIN TABLE-1350X750x750mm	Nos	11.00		
28	<b>RECEPTION TABLE</b> Size: 2400 x 600 : Providing and fixing of reception table as per design 1050 mm height of transaction counter and other is 750mm height of table. Table to be made of 19mm thick ply/commercial board with necessary framing in TW. Table to have two levels, writing level at 750 mm height and transaction level at 1050mm height. Transaction top, front and sides of the reception counter to be clad in 12mm solid acrylic (corian) of approved shade . Cost to include Back storage of size: 3000x450x750ht. the exposed surface of storage to be finished in veneer finish and all other internal surface to be finished in 1mm laminate of approved shade. Basic cost of corian to be Rs. 1000/- per sq.ft.				
	RECEPTION TABLE-2400X600x1050mm	Nos	2.00		
29	<b>WORKSTATION</b> Size (1350X600) : Providing and placing in position Workstation as per specification given below with size & design : Top made out of 25 mm thick Commercial ply Board with 1.0 mm thick Premium High glossy laminate on top and Front made out of 19 mm thick commercial ply Board with 1.0 mm Premium High glossy laminate of approved pattern & quality in approved design. Necessary Provisions of wire Management. All other internal area of table to be finished in 1.0 mm laminate of approved shade. Table to have drawer storage unit size - (450 x 450 x 675 mm) made out of 19 mm thick Commercial ply Board with 1.0 mm laminate on all exposed area & 0.8 mm thick laminate on internal area including teak wood member at corner junctions as per design. Drawers unit to have 2 No. sliding drawers & cabinet, complete in all respect including all hardware, EBCO/ flyrail Drawers slides, Lock etc. Note- Providing & applying wood preservative anti termite treatment all wood contact area. All complete as per direction of the Engineer-in-charge.				
29.1	Work Station-1200x600mm	Nos	18.00		
	<b>Signage Boards</b>				
30	Providing and fixing Signage (Gents)-on door- Acrylic duco painted signage with text graphics in 3M grade vinyl Size:- 200mm wide x 200mm tall	Nos	1.00		
31	Providing and fixing Signage (Ladies)-on door- Acrylic duco painted signage with text graphics in 3M grade vinyl Size:- 200mm wide x 200mm tall	Nos	1.00		
32	Floor Level Indicator- wall mounted (Lift Lobby)- Acrylic duco painted signage with text graphics in 3M grade vinyl Size:- 317mm wide x 317mm tall	Nos	2.00		
33	Cabin Naming (In Vinyl on glass)-Ht.30mm Font:- Expert sans regular, Length Max.-450mm, Ref:- Colour 100% cyan, 4 colour process C100 MO to KO, RGB:- RO G164 B232	Nos	4.00		
34	Desk Numbering: (In SS Plate)	Nos	27.00		
35	Supply & Installation of Pull- Push Signages- Brush finished stainless steel signs Size-63mm ht.x63mm wide.	Nos	6.00		
	<b>Pin Up Boards</b>				
36	Providing and fixing pinup boards. It consist 12mm thick soft boards of good density to be mounted over 12mm thick comm. ply. The soft board will be covered with a plain fabric (approx Rs.400 /Rmts. of approved colour) from front and edges. Suitable steam beach moulding 25mm x 25mm size to be fixed on all four sides and will be finished in melamine polish.	Sqm.	20.00		
	<b>ROLLER BLINDS</b>				
37	Providing & fixing of Roller Blinds- The Blind system consist of a coated aluminium tube of 38 mm diameter with provision of fabric clamping. The Fabric is rolled up and down through a chain drive system with built in drive gear and an over run brake system. The side brackets are universal type suitable both for wall and ceiling mounting. The bottom end of the fabric is rolled over an oval shape aluminium tube with provision to lock the fabric, all complete as per direction of the Engineer-in-charge/Consultant.	Sqm.	60.00		
	<b>CHAIRS</b>				

38	<b>High Back Chair.</b> The cushioned seats shall be made of injection moulded plastic outer and inner. Plastic inner shall be upholstered with pure leather and moulded high resilience polyurethane foam of Density = 45±2 kg/m <sup>3</sup> , and hardness load 16±2 kgf as per IS:7888 for 25% of compression. Seat size shall be 47.6 cm W x 49.2 cm D. The back shall be cushioned and shall be made up of PU foam with insitu moulded MS ERW round tube of size 1.9±0.03 cm x 0.16±0.0128 cm, upholstered with pure leather. Back size shall be 47.5 cm W x 77 cm D. The armrest top shall be moulded from polurethane, and shall be upholstered with pure leather and mounted on ot a drop lift adjustable type tubular armrest support made up of Ø3.81±0.03 cm x 0.2±0.01 cm thick MS ERW tube having chrome plated finish. The armrest height shall be adjustable upto 6.5±0.5 cm in 5 steps. The adjustable tilting mechanism shall be designed with the following features : 360° revolving type, front-pivot for tilt with feet resting on ground and contionuous lumbar support ensuring more comfort, Tilt tension adjustment can be operated in seating position, 5-position tilt limiter giving options of variable tilt angle to the chair, seat/backtilting ratio 1:2, the mechanism housing is made up of HPDC aluminium black powder coated. Seat depth adjustment shall be integrated in the seat through a sliding mechanism. Seat depth adjustment range shall be 6.0±0.5 cm. Back frame shall be connected to the up/down mechanism housed in plastic T spine. It can be adjusted in the range of 7.42±0.5 cm for the comfortable back support to suit individual need. the pneumatic height adjustment shall have an adjustment stroke of 10±0.3 cm. The pedestal shall be high pressure die cast polished aluminium and fitted with 5 nos. of twin wheel castors. The pedestal shall be 65.0±0.5 cm pitch centre dia. 5 nos. of twin wheel castors shall be injection moulded in plastic having 6.0±0.1 cm wheel diameter and assembled to pedestal.	Nos.	2.00		
39	<b>Visitors. The cushioned seats</b> shall be made of injection moulded plastic outer and inner. Plastic inner shall be upholstered with pure leather and moulded high resilience polyurethane foam of Density = 45±2 kg/m <sup>3</sup> , and hardness load 16±2 kgf as per IS:7888 for 25% of compression. Seat size shall be 47.6 cm W x 49.2 cm D. The back shall be cushioned and shall be made up of PU foam with insitu moulded MS ERW round tube of size 1.9±0.03 cm x 0.16±0.0128 cm, upholstered with pure leather. Back size shall be 47.5 cm W x 77 cm D. The tubular frame shall be cantilever type and made of Ø2.54±0.03 cm x 0.2±0.016 cm thick SS 202 tube. The back shall be connected to the frame through chrome plated high pressure die cast connector piece.	Nos.	33.00		
40	<b>Mesh back chair</b> whose Seat shall be made of 1.4cm thick hot pressed plywood upholstered with fabric and moulded Polyurethane foam. It shall have a seat depth adjustment of 5cm integrated in the seat through a sliding mechanism. Seat size shall be 50cm x 49cm. The back shall be injection moulded in Glass filled polyamide which shall be upholstered with Mesh fabric. The back consist of adjustable lumbar support shall be made of injection moulded polypropylene having an adjustment of 6cm. Back size shall be 50cm x 68cm. The Polyurethane foam for seat shall be of density 55 kg per meter cube. The three way adjustable armrests shall be made of glass filled polyamide arm structure with PU armtop and height adjustment of 7cm. The armtop shall have swivel and to and fro motion. The inner tube of armrest shall be chrome plated. It shall have center tilt synchro mechanism, 360 degree revolving type, 3 position locking system with anti-shock feature. The headrest shall be injection moulded in glass filled polypropylene which shall be upholstered with foam and fabric. The pneumatic height adjustment shall be chrome plated with an adjustment stroke of 9cm. The pedestal shall be injection moulded polyamide and fitted with 5 nos. of twin wheel castors. The pedestal shall be 65cm PCD. The overall dimension of the chair shall be 75cm x 75cm x (100-109cm). Seat height shall be 44.5cm to 53.5cm. This shall come with sliding seat, which helps user adjusting the seat depth as per the user size and needs.	Nos.	11.00		
41	<b>Mid back chair</b> of following specification. The seat and back shall be made up of 1.2 ±0.1cm. thick hot-pressed plywood and upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam shall be designed with contoured lumbar support for extra comfort. The seat shall be extra thick foam on front edge to give comfort to popliteal area. The dimensions of back shall be 47.5 cm(W) x 58.0 cm(H) and of seat shall be 47.0 cm (W) x 48.0 cm (D). The HR polyurethane foam shall be moulded with density= 45±2 kg/m <sup>3</sup> and hardness load 16 ± 2 kgf as. per IS:7888 for 25% compression. The one-piece armrests shall be injection moulded from black Co.polymer Polypropylene. The mechanism shall be designed with 360° revolving type, Upright-position locking, Tilt tension adjustment, Seat/back tilting ratio of 1:3. The pneumatic height adjustment shall has an adjustment stroke of 12.0 ±0.3cm. The bellow shall be 3 piece telescopic type and injection moulded in black Polypropylene. The pedestal shall be injection moulded in black 33% glass-filled Nylon-66 and fitted with 5 nos. twin wheel castors. The pedestal shall be 66.3 ±0.5cm. pitch-center dia. (76.3 ±1.0cm with castors). The twin wheel castors shall be injection moulded in Black Nylon. Overall Dimensions of Chair shall be Seat Height - min 42.5 to max 54.5cm, Height - min85.5 to max 97.5cm, Width & Depth of Chair as measured from pedestal - Width-76.3 cm and Depth-76.3 cm.	Nos.	35.00		
42	<b>3 seater sofa.</b> The overall dimensions of the sofa shall be <b>2060W x 905D x 855H</b> . The seat should be made of PU foam with Density 28 ± 2 kg/cu.mtr having an additional top layer of supersoft PU foam with Density 32 ± 2 kg/cu. Seat should be upholstered with fabric or leatherette. 2) BACK FOAM: The back should be made of PU foam with Density 28 ± 2 kg/cu. mtr with two additional top layer of supersoft foam of density 32±2 kg/cu. mtr, upholstered with fabric or leatherette. Understructure should be made up of 1.2±0.1 cm. thick hot pressed plywood (which also shall be resistance and termite proof as per IS:303.) and pinewood of cross section deviod of major knots and surface defects 6 nos. per seat and 3.8mm dia. zigzag spring assembly is mounted over understrucure for cushioning effect. It should be a welded assembly made in Stainless steel (grade SS 202) tube & plate with plastic endcap.	Nos.	1.00		
43	<b>2 seater sofa.</b> The overall dimensions of the sofa shall be <b>1460W x 905D x 855H</b> . The seat should be made of PU foam with Density 28 ± 2 kg/cu.mtr having an additional top layer of supersoft PU foam with Density 32 ± 2 kg/cu. Seat should be upholstered with fabric or leatherette. 2) BACK FOAM: The back should be made of PU foam with Density 28 ± 2 kg/cu. mtr with two additional top layer of supersoft foam of density 32±2 kg/cu. mtr, upholstered with fabric or leatherette. Understructure should be made up of 1.2±0.1 cm. thick hot pressed plywood (which also shall be resistance and termite proof as per IS:303.) and pinewood of cross section deviod of major knots and surface defects 6 nos. per seat and 3.8mm dia. zigzag spring assembly is mounted over understrucure for cushioning effect. It should be a welded assembly made in Stainless steel (grade SS 202) tube & plate with plastic endcap.	Nos.	1.00		
44	<b>Side table</b> with sizes <b>500mm(W), 500 mm(D),428 mm(H)</b> with top made in 10mm tempered glass supported with an understructure MDF & finish with paper laminate . Lower shelf shall be made of MS CRCA steel with epoxy polyester power coating	Nos.	3.00		
<b>(D) ELECTRICAL WORK</b>					
<b>ELECTRICAL WIRING</b>					
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
1.1	Group C	NOS.	110.00		
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	NOS.	50.00		
3	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Metre	450.00		
4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
4.1	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	1200.00		



4.2	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	200.00		
5	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Each	80.00		
6	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	Each	45.00		
7	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Each	2.00		
8	Supply Fixing & connection of modular type 16 Amps 6pin socket with 16amps switch for raw power point.	NOS.	25.00		
9	<b>Television Point for confrence room:-</b> Wiring for 2 Nos. 6 amps Socket + 2 Nos. Switch outlets with 3x2.5 sq.mm FRLS PVC insulated stranded copper conductor wires in PVC conduits in ceiling/walls/floor as directed including providing and fixing of 2 Nos 6 amps flush type 5 pin socket and 6 amps switch with cover plate, 5 sided G.I boxes for housing switches, sockets and earthing complete as required. Supplying and drawing co-axial TV cable RG-6 grade, 0.7mm solid core copper conductor PE insulated, shielded with fine tinner copper braid and protected with PVC sheath in the required size PVC conduit, surface/recessed and including.	NOS.	2.00		
<b>LIGHT FITTINGS / FANS :</b>					
10	Supplying, fixing, connecting, testing and commissioning of 1x45 watt LED light fixture suitable for 600x600 ceiling with electronic ballast, with integral ballast, profiled diffuser, grey colored body , suitable mounts, suspension cables complete as required	NOS.	60.00		
11	Supply of Surface Mount Round Led Downlighter consuming a system wattage of 18W (±10%) & the luminaire shall be with system efficacy ≥ 100 lm / W. Housing: CRCA Powder Coated. IP20 , Optics: PMMA/Polysterene Diffuser. The operating CCT shall be 5700K with CRI of ≥80. The luminaire shall be with BIS Registered electronic driver with input voltage range of 150 to 270V , THD ≤ 10% & PF ≥ 0.9, 50,000 Hrs LED Life with L70 Criteria. The LED Driver shall be easily avaiable in India for repair and service. The LED shall be SMD type. Luminaire shall have minimum surge protection of 2KV.The luminaire shall be with following certifications: LM79 with NABL Own LAB & LM80 issued by LED manufacture along with Photo Biological Safety Standard. (Similar to Bajaj :- Sleek Surface 18w LED or equivalent as per approved list of make)	NOS.	110.00		
12	Supply of 2ft Linear LED luminaire delivering an initial system lumen of 903 lumens & the luminaire shall be with system efficacy ≥ 90 lm / W. The luminaire Housing shall be made of PC & the diffuser shall be of polycarbonate/PMMA. The operating CCT shall be 6500K with CRI of ≥80. The luminaire shall be with BIS Registered electronic driver with input voltage range of 150 to 270V , THD ≤ 20% & PF ≥ 0.95 , 50,000 Hrs LED Life with L70 Criteria, IP20. The LED Driver shall be easily avaiable in India for repair and service. The LED shall be SMD type. Luminaire shall have minimum surge protection of 2KV.The luminaire shall be with following certifications: LM79 with NABL Own LAB & LM80 issued by LED manufacture along with Photo Biological Safety Standard. (Similar to Bajaj :- BCLSB 10W LED or equivalent as per approved list of make)	NOS.	15.00		
13	Supply, installation, testing and commissioning of single phase , Fresh Air Fans / Heavy duty Exhaust Fans of Bajaj/Crompton Greaves/Khaitan/Usha make only including supply and fixing with all necessary supports All complete with labour and materials as per drawings, specifications and directions of Engineer-in-Charge.. NOTE: Necessary civil works required for fixing the exhaust fans shall be in the scope of Contractor.	NOS.	4.00		
14	Supply, installation, testing and commissioning of Wall Mounted Fans of Bajaj/Crompton Greaves/Khaitan/Usha make only including supply and fixing of the electronic regulators with all necessary supports. All complete with labour and materials as per drawings, specifications and directions of Engineer-in-Charge. NOTE: Necessary civil works required for fixing the exhaust fans shall be in the scope of Contractor.	NOS.	25.00		
15	Supplying, fixing, connecting, testing and commissioning of LED cove light fixture with average lumen output of 630 lm per metre for white color including all drivers, connecting cables, controllers, led mounted in extruded poly corbonate, suitable to end to end coupling, non dimmable, average 4 watt / metre for mono color and 11 watt/ metre for white color. Color as per PMC instruction complete as required equivalent to philips cat no: vaya cove	Mtr	125.00		
16	Supply, installation, testing, commissioning and numbering of indoor type 10W surface/wall mounted LED batten fitting (Mirror Light) covered by diffuser, high efficiency reflector, prewired electronic driver complete with all accessories suitable for operation on single phase 240V 50Hz AC supply as required. LED shall be SMD type. ( similar to BCLSB 10W LED Mirror light or equivalent)	NOS.	5.00		
<b>Main Eelectrical Distriburion</b>					
17	Providing and fixing following capacity TP&N disconnector fuse switch unit inside the existing panel board with ISI marked HRC fuses including drilling holes in cubicle panel, making connections, etc. as required.				
17.1	63 A TP&N	Each	4.00		
17.2	100 A TP&N	Each	2.00		
18	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
18.1	12 way, Double door	Each	1.00		
19	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's (but without MCB's and incomer ) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
19.1	4 way (4+12) , Double door	Each	2.00		
19.2	8 way (4+24) , Double door TPN	Each	2.00		
20	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
20.1	Single pole	Each	60.00		
21	Supplying and fixing following rating, double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
21.1	63 A	Each	4.00		
<b>T.V. &amp; TELEPHONE SYSTEM &amp; CONDUITING FOR LAN SYSTEM</b>					
22	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
22.1	4 Pair	Metre	350.00		
23	Providing, laying connecting and testing of multi-core telephone armoured cable of conductor size 0.6 mm dia annealed copper conductor PVC insulated PVC sheathed jelly filled (as per DOT specification) cable as required				
23.1	10 Pair telephone cable	Metre	100.00		
24	Providing, fixing connecting and testing of under noted size of solderless telephone tag block Krone make in surface/recess in wall required size of M.S. box with hinged lockable cover duly stove enamel painted.				
24.1	10 pair tag block	Each	1.00		
25	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
25.1	25 mm	Metre	350		
25.2	32 mm	Metre	200		
26	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
26.1	Telephone socket outlet	Each	10.00		
26.2	TV antenna socket outlet	Each	2.00		

27	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	Metre	150		
28	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.				
28.1	1 or 2 Module (75mmX75mm)	Each	45.00		
29	Supply , Installation , Testing and comissioning of CAT 6A U/UTP LSZH cable solid copper conductor with Penta testing, Documentation & Certification (for DATA).	Metre	1200.00		
30	Supply , Installation , Testing and comissioning of CAT6A U/UTP information outlet (I/O) for Data,Wifi & CCTV Outlet	Nos	35		
31	Supply , Installation , Testing and comissioning of CAT6A LSZH patch cord 3 feet for rack side switch termination for Data,Wifi & CCTV Outlet	Nos	35		
32	Supply , Installation , Testing and comissioning of CAT6A LSZH patch cord 7 feet for user termination to information outlet for for Data,Wifi & CCTV Outlet	Nos	35		
33	Supply , Installation , Testing and comissioning of Intelligent Ready loaded 24 port CAT6A U/UTP Jack Panel for CAT6A cable termination. For DATA	Nos	1		
34	Supply , Installation , Testing and comissioning of CAT6 U/UTP information outlet (I/O) For VOICE	Nos	25		
35	Supply , Installation , Testing and comissioning of CAT6 U/UTP LSZH patch cord 3 feet for rack side switch termination For VOICE	Nos	25		
36	Supply , Installation , Testing and comissioning of CAT6 LSZHpatch cord 7 feet for rack side switch For VOICE termination	Nos	25		
37	Supply , Installation , Testing and comissioning of Intelligent Ready loaded 24 port CAT6 U/UTP Jack Panel for CAT6 cable termination. For VOICE	Nos	1		
	<b>(V) EARTHING</b>				
38	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Set	2		
39	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Set	2		
40	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	Metre	20		
41	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Metre	10		
42	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	Metre	20		
43	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	Metre	10		
44	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Metre	250		
45	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	Metre	75		
46	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Metre	250		
	<b>(iv) RACEWAYS AND CABLE TRAYS</b>				
47	Fabricating supplying to site of installation, installation on ceiling/ surface 1.6 mm thick M.S. powder coated raceways of height 50 mm and 2.0 mm thick openable cover, totally enclosed, the joints between two lengths of channels or between channel and junction box shall be joined together with 3 mm thick M.S. Powder coated coupler plates to make it dust and water proof. The cost shall including all supporting and fixing accessories including dash fasteners. ( Orange colour for data and Blue colour for power)				
47.1	150 mm (wide) x 45 mm (height)	Metre	50		
47.2	100 mm (wide) x 45 mm (height)	Metre	50		
48	Fabricating supplying to site of installation, Junction boxes for raceways made from 2 mm thick , with 2.5 mm thick G.I. cover including providing neoprene gaskets between the cover and the junction box, cadmium plated flat/round head screws, height as per site condition,totally enclosed. Proper cutouts shall be made in the side walls for raceway entry wherever required. The junction box shall be all side walls should be welded except top cover and all side walls shall have suitable size of rectangular knock out holes for taking raceways / conduits as required and not a complete cut out. The top cover should be sealed with M Seal to make it dust and water proof complete as required etc.				
	<b>GI FLOOR JB</b>				
48.1	200 mm x 200 x 50 mm (height)	Nos.	20		
48.2	150 mm x 150 x 50 mm (height)	Nos.	10		
	<b>(E) FIRE Fighting WORK</b>				
	<b>FIRE DETECTION SYSTEM</b>				
1	Supplying & laying of 2x1.5 sqmm fire alarm armoured cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armouring & FRLS outer sheath complete as required.	Mtr	450		
2	Supplying and drawing of cable Fire Retardant PVC insulated copper conductor cable in the existing surface / recessed steel conduit of following pairs, cores and size including connections and interconnections etc. as required.				
2.1	speaker cable Single pair, 2-core, 1.5 sqmm	Mtr	450		
3	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.				
3.1	20 mm	Mtr	300		
4	Providing and fixing in position 1.6mm thick M.S. outlet boxes for housing smoke detectors/heat detectors including providing 3 mm thick hylam sheet cover as required				
4.1	75mm x 75mm x 75mm	Each	3		
5	Supply, installation, connecting, testing and commissioning of conventional Smoke Detectors (Optical) with blinking LED etc as required complete. (make as per builders specs)	Each	15		
6	Supply, installation, connecting ,testing and commissioning of conventional type Heat Detectors as required complete. (Rate of rise cum fixed type) (make as per builders specs)	Each	10		
7	Supply, installation, connecting, testing and commissioning of Hooters (30 M range) in suitable size of M.S. box. as required complete.	Each	2		
8	Supply, installation, connecting, testing and commissioning of Manual Call Push button with Hammer etc.in suitable size of M.S. as required complete.	Each	3		
9	Supply, installation, connecting, testing and commissioning of Remote Indicators with LED Display to be attached with the Detectors as required complete provide suitable M.S. Box to house the indicator.	Each	5		
10	Supply, installation, connecting, testing and commissioning of 2 Zone conventional type Fire Control Panel as per specifications mentioned elsewhere in the Document/ as per the builders specification complete as required. The Fire Panel shall also have necessary control relay modules to switch off the AC unit/ AHU's supply/ Fire Damper in case of Fire. The Contractor shall provide necessary relay for each unit to switch it off in case of fire and also relays to link with the main fire alarm panel.				
10.1	2 Zone Control Panel	Set	1		

11	Supply, fabrication, laying and testing of <b>MS, BLACK, ERW</b> , heavy class conforming to IS 1239, PART I as per IOCL Specifications including pipeline fittings like bends, tee etc as required and as directed for Above Ground pipeline including surface preparation according to standard SSPC ST2 and painting with 2 coats of red oxide zinc phosphate primer and 2 coats of Synthetic enamel / aluminium finish paint as per IOCL specifications				
	Notes- pipes upto 50mm dia threaded forged steel fittings and for pipes above 50 mm dia welded joint shall be used				
	<b>For Sprinkler system - MS `C' Heavy class pipe</b>				
11.1	25 mm dia	Rmt.	30		
11.2	32 mm dia	Rmt.	20		
12	Providing, fixing, testing & commissioning of <b>brass quartzoid sprinklers</b> (UL approved) of 15 mm dia size, suitable for sustaining the pressure on the seat & water hammer effect. The type & temperature rating shall be as follows :				
12.1	Pendent /UPRIGHT (68 °C) sprinkler	Each	20		
13	Supplying, installation, testing & commissioning of sprinkler flexible pipe (UL Listed) of stainless steel complete with 15 NPT on reducer thread with maximum working pressure of 175 PSI test pressure of 875 PSI (Burst) with branch line (Inlet) 25mm NPT male thread to sprinkler head (Outlet) 15mm NPT female thread with reducer, nipple, 2 side brackets, center bracket, stockbar of following sizes complete as required.				
13.1	1000mm	Each	25		
<b>(F) AIR CONDITIONERS WORK</b>					
1	Supply, installation , testing and commissioning of 2.0 TR 5 Star Invertor cassette type air conditioners including remote, mounting brackets for outdoor and indoor units with rotary compressor, copper condenser and first charge refrigerant R410A/R22/Other, including connection of copper pipe and material supplied with complete unit etc. as required (Excluding cost of copper pipe) within Refinery / Petrochemical Complex/ Refinery Township as per direction of Engineer-in-charge.	NOS.	3.00		
2	Supply, installation , testing and commissioning of 3.0 TR 5 Star Invertor cassette type air conditioners including remote, mounting brackets for outdoor and indoor units with rotary compressor, copper condenser and first charge refrigerant R410A/R22/Other, including connection of copper pipe and material supplied with complete unit etc. as required (Excluding cost of copper pipe) within Refinery / Petrochemical Complex/ Refinery Township as per direction of Engineer-in-charge.	NOS.	8.00		
3	Installation of split type wall Mounted Air Conditioner indoor, outdoor unit fitted with rotary compressor, copper condenser and first charge refrigerant R410A/R22/Other, including connection of copper pipe and material supplied with complete unit etc. as required (Excluding cost of copper pipe) within Refinery / Petrochemical Complex/ Refinery Township as per direction of Engineer-in-charge.	NOS.	11.00		
4	Supply & fixing of additional length of copper tube for split A/C commissioning including all accessories.	Metre	125.00		
5	Supply, Installation, Testing and Commissioning of Hard u-PVC condensate drain piping complete with fittings, support as per specification with 6mm thick closed cell elastomeric nitrile rubber tubular insulation ( Supreme / Superflon ) up to the nearest drain point .				
5.1	25mm	Metre	75.00		
5.2	32mm	Metre	50.00		
6	Supply, Installation, Testing and Commissioning of 2 core x 1.5 sq.mm copper conductor shielded communication cable as per requirement at site complete with supports etc. for control between indoor and outdoor unit in suitable PVC Conduit or communication between Indoor Unit & Remote Controllers in suitable PVC Conduit .				
6.1	2 C * 1.5 sq.mm Cable	Metre	150.00		
7	Wall Chiselling for Copper Piping / Drain Piping . Filling shall be in the Client Scope	Mtr	250.00		
8	Supplying, fixing & painting of Heavy duty GI steel wall bracket stand Load carrying capacity up to 160 Kgs Powder Coating for Rust Prevention with fastner for Air conditioner outdoor unit.	Each	11.00		
<b>Total Of AC Work</b>					

**National Agricultural Cooperative Marketing Federation of India Ltd.(NAFED)  
LUCKNOW - 227022 (U.P.)  
APPROVED MAKE LIST**

<b>CIVIL &amp; INTERIOR WORKS</b>		
Sr. No.	Description of Items	Approved Make
1	Anti Termite treatment	PEST CONTROL INDIA LTD / PEST CON INDIA PEST CONTROL INCORPORATED / PREMIER PEST CONTROL PVT. LTD. / ANY PERMANENT MEMBERS OF IPCA AS APPROVED BY ENGINEER-IN-CHARGE.
2	Cement	ULTRA TECH/ ACC/ AMBUJA/ LAFARGE/ J.K. CEMENT
3	White Cement	BIRLA WHITE / J.K. WHITE/ LAFARGE
4	Wall Putty	ASIAN PAINTS WALL PUTTY/ BIRLA WALL PUTTY/ BERGER WALL PUTTY
5	Reinforcement	TATA/ SAIL/ RINL / JSW
6	Water Proofing Compound	CICO/ FOSROC /BASF/ DR. FIXIT
7	AAC Block	SIPOREX/ MEGICRETE/ RENACON
8	HDHMR Board	ACTION TESA/ CENTURYPLY/ GREENPLY
9	MDF Board	GLO PANEL/ CENTURYPROUD/ GREENPLY
10	Ply Board	CENTURYPLY/ GREENPLY/ DUROPLY
11	Acrylic Sheet	ACRYLITE/ PLEXIGLAS/ LUCITE/ PLASKOLITE
12	Vitrified tiles	KAJARIA/ H & R JOHNSON/ SIMPOLO/ VERMORA
13	Laminate Wooden Flooring	PERGO/ MIKASA/ GREENLAM/ SQUAREFOOT
14	glazed Partition ( Aluminum Profile )	KUBIK/ ALKOM/ ALLOY/ ENCRAFT
15	Toughened Glass Door	KUBIK/ ALKOM/ ALLOY/ ENCRAFT
16	Flush Door Shutter	CENTURYPLY/ GREENPLY/ MIKASA DOORS
17	D Type Door Handle	HAFAL / HETTICH/ DORSET/ GODREJ
18	Dead Lock with Back Set	OZONE / YALE/ DORSET/ GODREJ
19	SS Mortice Lock With Back Set	OZONE / YALE/ DORSET/ GODREJ
20	Aluminum Section	HINDALCO/ BALCO/ NALCO/ JINDAL ALUMINIUM LIMITED
21	Laminate	GREENLAM/ ROYAL TOUCHE/ MERINO
22	Veneer	AK APPLE PLY/ DECOWOOD/ DUROPLY
23	Pet Board	BAJAJ ACOUSTIC/ WEDGE INDIA / MMT ACOUSTIC
24	WPC Louver	EVERWOOD/ SINOTEK/ LEBEN
25	Toughened Glass	ASAHI INDIA GLASS/ SAINT GOBAIN/ MODIGUARD
26	Frosted Crystal translucent Film	3M
27	Rockwool Insulation	WEDGE INDIA/ ROXUL/ MINROCK
28	Coloured Laquer Glass	ASAHI INDIA GLASS/ SAINT GOBAIN/ MODIGUARD
29	toilet Cubicle	MEGHA SYSTEM/ T-LINE/ CUBILO
30	Metal Grid Ceiling tiles	DURLUM/ HISTEEL/ TECHNOCEILING
31	Gypsum Board	GYPROC/ ARMSTRONG/ SHERA/ USG BOREL
32	Baffle Ceiling	HUNTER DOUGLUS/ ALUCRAFT/ ANUTONE
33	Plaster of Paris	SAKARNI/ TRIMURTI/ VINAYK
34	Acrylic Emulsion Paint	ASIAN PAINTS/ BERGER PAINTS/ DULUX PAINTS
35	Velvet Touch Paint	ASIAN PAINTS/ BERGER PAINTS/ DULUX PAINTS
36	PU Paint	ASIAN PAINTS/ BERGER PAINTS/ DULUX PAINTS
37	Duco Paint	ASIAN PAINTS/ NEROLAC PAINTS/ DULUX PAINTS
38	Roller Blinds	VISTA / MAC/ MAGIC DÉCOR
<b>ELECTRICAL WORKS</b>		
Sr. No.	Description of Items	Approved Make
1	Ceiling Fans / Exhaust Fans / Ventilation Fans / Kitchen Fan	ORIENT/ CROMPTON/ HAVELLS/ USHA/ BAJAJ
2	Luminaries	PHILLIPS/ WIPRO/ CROMPTON/ BAJAJ
3	Modular switches	LEGRAND/ SCHNEIDER/ ANCHOR "ROMA"/ HAVELLS/ WIPRO
4	Ordinary switches	LEGRAND/ SCHNEIDER/ ANCHOR "ROMA"/ HAVELLS/ WIPRO
5	Prewired distribution board	SIEMENS/ LEGRAND/ HAVELLS/ L & T
6	Electric Call Bell	ANCHOR/ PRESSFIT/ GM/ OXSAM
7	Junction boxes	SINTEX/ LEGRAND/ SCHNEIDER ELECTRIC
8	Telephone/TV Co-Axial Cable	R.R./ POLYCAB/ FINOLEX/ HAVELLS
9	PVC Conduit Pipe & fittings	AKG/ POLYCAB/ ASTRAL/ MODI
10	Change over switches	BENLO/ LEGRAND/ HAVELLS/ L&T
11	Air Circuit Breaker (ACB)	SCHNEIDER ELECTRIC/ ABB/ SIEMENS
12	Electric Motors	ABB/ SIEMENS/ KIRLOSKAR/ TOSHIBA
13	Feeder Pillar / LT Panels	GS CONTROL/ SMA POWER/ NEXT-GEN POWER
14	1.1 KV Grade LT XLPE Cables/1.1 KV grade LT PVC Cables	HAVELLS/ R.R/ KEI/ POLYCAB
15	PVC Insulated copper wires Domestic	HPL/ R.R/ KEI/ POLYCAB/ HAVELLS
16	MCCB	BENLO/ LEGRAND/ HAVELLS/ L&T
17	MCB, ELCB, RCB	SIEMENS/ LEGRAND/ HAVELLS/ L & T
18	Energy Efficient Tube light	PHILLIPS/ WIPRO/ CROMPTON/ BAJAJ
19	Industrial Plugs & sockets	LEGRAND/ HAVELLS/ L&T/ SIEMENS

20	Cable Joints	FINOLEX/ KEI/ POLYCAB/ HAVELLS
21	Relays	NOVATEK/ CONTROL & SWITCHGEAR/ FRICK ELECTRO CONTROL
22	Cable Terminal Block	ELEMAX/ PHOENIX/ CONNECTRONICS
23	Aluminium Conductor Steel Reinforced (ACSR)	STERLITE/ APAR/ KHETAN
<b>CCTV System</b>		
<b>Sr. No.</b>	<b>Description of Items</b>	<b>Approved Make</b>
1	5MP Dome Camera	HIKVISION/ SONY/ BOSCH/ CP PLUS
2	Video Recorder	HIKVISION/ SONY/ BOSCH/ CP PLUS
3	Hard Disk Drive	TOSHIBA/ LENOVO/ WESTERN DIGITAL
4	55" LED Full HD Display	SAMSUNG/ PANASONIC/ SONY
<b>Fire Alarm System</b>		
<b>Sr. No.</b>	<b>Description of Items</b>	<b>Approved Make</b>
1	Main fire Alarm Panel -2 loop	NOTIFIER/ RAVAL/ HONEYWELL
2	monitoring network Work station	DELL/ HP/ ASUS
3	Bacnet/Modbus Card for integration of 8 Loop panel with BMS system	NOTIFIER/ RAVAL/ HONEYWELL
4	Repeater Panel/Annunciators with suitable character LCD display	NOTIFIER/ RAVAL/ HONEYWELL
5	Intelligent analog addressable Photothermal/Multicriteria Detector detector	NOTIFIER/ RAVAL/ HONEYWELL
6	Intelligent addressable Thermal/Heat Detector with rate of rise cum fixed temperature thermistor	NOTIFIER/ RAVAL/ HONEYWELL
7	Addressable manual call point	NOTIFIER/ RAVAL/ HONEYWELL
8	Addressable horn cum strobe	NOTIFIER/ RAVAL/ HONEYWELL
9	Fire fighter phone jack	NOTIFIER/ RAVAL/ HONEYWELL
10	Fire fighter telephone	NOTIFIER/ RAVAL/ HONEYWELL
11	Addressable fire control module	NOTIFIER/ RAVAL/ HONEYWELL
12	Addressable fire Control/Monitor module	NOTIFIER/ RAVAL/ HONEYWELL
13	Response indicator	NOTIFIER/ RAVAL/ HONEYWELL
14	6 zone, voice alarm controller with USB, MP3 player	NOTIFIER/ RAVAL/ HONEYWELL
15	Voice command keypad 6 zone, with microphone	NOTIFIER/ RAVAL/ HONEYWELL
16	Digital Audio Amplifier	NOTIFIER/ RAVAL/ HONEYWELL
17	6 W Ceiling Speaker	NOTIFIER/ RAVAL/ HONEYWELL
<b>Data &amp; telephone Network</b>		
<b>Sr. No.</b>	<b>Description of Items</b>	<b>Approved Make</b>
1	Cat6/ 6A Tool less Information outlet	SIEMONS/ PANDUIT/ NORDEN/ LEGRAND
2	Double port Face Plate	SIEMONS/ PANDUIT/ NORDEN/ LEGRAND
3	24 port Cat 6 19" Modular Toolless Patch Panel	SIEMONS/ PANDUIT/ NORDEN/ LEGRAND
4	UTP 4 pair 23 AWG CAT 6 LSZH Cable	SIEMONS/ PANDUIT/ NORDEN/ LEGRAND
5	Cat6A UTP 24 AWG Patch Cord - 1 mtr with cross separator	SIEMONS/ PANDUIT/ NORDEN/ LEGRAND
6	Cat6UTP 24 AWG Patch Cord - 2 mtr with cross separator	SIEMONS/ PANDUIT/ NORDEN/ LEGRAND
7	24 Port POE Access Switches with switching capacity of 92 Gbps	SIEMONS/ PANDUIT/ NORDEN/ LEGRAND
8	Small Form Factor Pluggable 1 Gigabit Ethernet	SIEMONS/ PANDUIT/ NORDEN/ LEGRAND
9	Wireless Indoor Access Point	CISCO / ALCATEL / ARISTA / EXTERME
<b>ACCESS SYSTEM</b>		
<b>Sr. No.</b>	<b>Description of Items</b>	<b>Approved Make</b>
1	Door reader access control panel	SMART-I / HONEYWELL / HID / MERCURY
2	Smart Card Reader	SMART-I / HONEYWELL / HID / MERCURY
3	Face Recognition Reader	SMART-I / HONEYWELL / HID / MERCURY
4	16K chip memory Read/Write contact less non-proprietary smart card	SMART-I / HONEYWELL / HID / MERCURY
5	Cloud Compatible enterprise level Web based Modular Access Management and Time Attendance software with SQL Database and support up to desired number of users	SMART-I / HONEYWELL / HID / MERCURY
6	PC Work Station	DELL/ HP/ ASUS
7	Single Leaf Electro Magnetic Lock	BEL/NCOM/ALGATECH
8	'U/L' Bracket with Accessories.	BEL/NCOM/ALGATECH

9	Door Positioning sensor with Accessories	BEL/HONEYWELL/ALGATECH
10	8 Core multi strand, copper, unarmoured Cable	VIMCO/ FINOLEX/ POLYCAB
<b>Audio &amp; Visual System</b>		
Sr. No.	Description of Items	Approved Make
1	98 inch Smart Board/ Display	PLANAR/ BARCO/ ONFINITY/ SAMSUNG
2	Two-way, thin edge ceiling speaker with back can, built in cone driver, Line Transformer Tappings	OSL/OHM/ LACOUSTICS/ BOSE
3	Digital power amplifier, class-D, RMS power	OSL/OHM/ LACOUSTICS/ BOSE
4	Wireless presentation device which supports video resolution upto 1080p	OSL/OHM/ LACOUSTICS/ BOSE
5	Cable Manager with 1 no. multiregion Power socket	CRESTRON/SATELLIER/ RG SPECTRUM
6	4 x 4 HDMI Matrix Switcher with HDCP Compliant	CRESTRON/SATELLIER/ RG SPECTRUM
7	15 Metres HDMI patch cord with connectors	CRESTRON/SATELLIER/ RG SPECTRUM
8	85" diagonal, 20 pt IR touch, UHD, wide color gamut panel	PLANAR/ BARCO/ ONFINITY/ SAMSUNG
9	75" Full HD LED display	PLANAR/ BARCO/ ONFINITY/ SAMSUNG
10	55" Full HD LED display	PLANAR/ BARCO/ ONFINITY/ SAMSUNG
<b>IP &amp; EPABX System</b>		
Sr. No.	Description of Items	Approved Make
1	Pure IP based Voice solution with 1x PRI Trunk lines (30 Ch) Circuit	CISCO / AVAYA / CORAL / Alcatel
2	Type-1 IP Phone with 1 SIP accounts, Open standard SIP Phone, HD Voice	CISCO / AVAYA / CORAL / Alcatel
3	Type-2 IP Phone with 1 SIP accounts, Open standard SIP Phone, HD Voice	CISCO / AVAYA / CORAL / Alcatel
4	Type-2 IP Video Phone with Up to 16 SIP Accounts	CISCO / AVAYA / CORAL / Alcatel
<b>Plumbing Works</b>		
Sr. No.	Description of Items	Approved Make
1	EWC	KOHLER/ DURAVIT/ GROHE
2	Bottle Trap	JAQUAR/
3	Sensotronic Sensor Faucet	KOHLER/ DURAVIT/ GROHE
4	Braided Hoses	
5	Wall mounted Paper Towel Dispensor	KOHLER/ DURAVIT/ GROHE
6	Health Faucet Kit	KOHLER/ DURAVIT/ GROHE
7	Towel Ring Square	KOHLER/ DURAVIT/ GROHE
8	CP Brass Angle Valve	KOHLER/ DURAVIT/ GROHE
9	Sensor Operated Optimum Hand Dryer	JAQUAR/ EURONICS/ KOHLER
10	Automatic Soap Dispensor	KOHLER/ DURAVIT/ GROHE
11	CP Brass Extension Nipple	KOHLER/ DURAVIT/ GROHE
12	Vitrified China Touchless Urinal	KOHLER/ DURAVIT/ GROHE
13	Urinal Partition	KOHLER/ DURAVIT/ GROHE
14	Mirror Superior Glass	SAINT GOBAIN/ ASAH/ MODIGUARD