

**BOQ for furnishing works for Central Bank of India, BO Favara (Metro) under Agra Region**

(Quoted rates shall be inclusive of all labour, material, scaffolding etc)

1	No Offsite pre fabrication shall be allowed in any case. All fabrication shall be done at the site after getting the materials
2	No Payment shall be made for any in completed or unsatisfactory work.
3	The Contractor should strictly follow the shop drawings/ specifications requirements of the Bank, including the detailed
4	List of materials to be strictly as per the shop drawings/ specifications.
5	Cable managers to be provided in the tables and counters wherever required.
6	All under frame wooden work should be properly treated with ant termite and waterproofing material.
7	All Locks in drawers and door sets etc. should be Godrej or equivalent brand as specified or approved by Architect.
8	All keyboards Trays & Drawers to be on Channel Sliding Mechanism.
9	Etching to be provided as per Bank's design, specification and Architects instructions only.

S.No.	Item Description	Quantity	Unit	Rate	Amount
<b>B</b>	<b>CIVIL /FAÇADE &amp; DISMANTLING WORKS (IF ANY)</b>				
1	<b>ACP CLADDING:</b> Design, Supply , Fabrication and installation / Fixing of Aluminium Composite Panels of approved make for external cladding and canopy cladding in combination of solid / Metallic colours, including all necessary frame work and complete weather sealing. The composite panel should consist of 3 mm LDPE sandwiched between 2 skins of 0.5mm thick Aluminium sheet making a total panel thickness of 4 mm. The supporting framework shall be made to suit the grid requirement at site out of extruded section 38x38x3mm aluminium angle section or 50x25x1.6mm tube section running vertically or horizontally fixed to building structure through M.S clamps prefixed to masonry with suitable anchor fastener or screws as required after aligning the framework for level and lines. the ACP panel cut to size and bent at edges to form a tray to be fixed to aluminium grid tubes cleats, angles etc. with metal screws. All hardware will be corrosion resistant. The gaps will be sealed using weather sealant like Dow Corning 789 or any other approved brand. Note: the external surface shall be well protected with self adhesive peel off masking foil which is to be peeled off after the completion of all the works.	188.50	Sqft.		
2	<b>FLAMED GRANITE CLADDING (In steps &amp; Entry):</b> Providing and fixing 18 mm thk grey flamed finished granite slabs fixed with 20 mm thk cement mortar 1:4 mix (1 part cement, 4 parts coarse sand) as per the drawing. The grooves to be as/drg & instruction of architect in charge and slabs to be in perfect line, level and plumb. Joints to be filled with cement based matching grout .Basic Rate of granite - 92/- per sq.ft (For Entry Steps/ Facade).	20.00	Sqft.		
3	<b>PANTRY PLATFORM:</b> Providing and fixing polished and half round moulded edge 18 mm thick (Zed Black) Granite slab (Basic rate Rs.185/- sqft) on the existing pantry platform or making new complete with cleaning of joints , curing & polishing.	20.0	Sqft		
4	<b>VINYL FLOORING (Strong room):</b> Providing and fixing of 2 mm thk. 2'x2' tiles/roll of approved make & color inclusive of 4" to 6" skirting. The adhesive must be applied only after proper cleaning/ washing of the surface on which the tiles/roll are to be fixed. The rate is inclusive of cleaning repairing the floor wherever required and removing the spilled out adhesive, stains etc. on the surface. (In strong room/ locker room).	265.00	Sqft.		
	<b>TOTAL FOR CIVIL /FAÇADE &amp; DISMANTLING WORKS (B)</b>				
<b>C</b>	<b>FALSE CEILING WORK</b>				

1	<b>PLAIN GYPBOARD FALSE CEILING WITH PAINTING</b> : Providing and fixing suspended false ceiling consisting of 12.5mm thick Gypsum board (India Gypsum) suspended on GI framework. GI framework to consist of GI perimeter channels 0.55mm thick 20mm x 30mm along perimeter of false ceiling of ceiling, screw fixed to wall/partition with nylon sleeves and screws @ 600mm c/c. Suspending GI intermediate channels of size 0.9mm thick 45mm x 15mm from the soffit at max dist 1220mm c/c with ceiling angle 0.55mm thick 25mm x 10mm fixed to soffit using proprietary supplied GI cleats and steel expansion fasteners. Boards to be finished with proprietary supplied jointing tape and jointing compound and sand papered to achieve a smooth and seamless finish and 2 coats of primer along with coats of Acrylic paint suitable for Gypsum board up to Bank's Satisfaction .Rate quoted to include vertical all cut-outs required for light fixtures, smoke detectors and other services cut-outs complete as directed by Architect. Only Horizontal plan area will mesured for payment purposes.	430.00	Sqft.		
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2	<b>GRID FALSE CEILING /Modular False ceiling</b> :Providing and fixing suspended false ceiling consisting : approved make MODULAR CEILING	684.00	Sqft.		
	Providing & Fixing false ceiling at all heights of 600x600 mm Armstrong mineral fibre ceiling tiles of type RH-90/95 laid on Armstrong prelude XL exposed grid systems with 9mm wide T-section flanges color white. The frame work comprises of main runner spaced at 1200 C/C hangers (GI wire) to be fixed by the approved roof plugs, screws etc. The last hanger at the end of each main runner should not be greater than 450 mm from the adjacent wall. Fitting 1200 long cross tees (with double stitching) to be interlocked between main runners at 600mm center from 1200x600mm modules. Cut cross T section longer than 600mm to be supported independently 600x600mm module to be formed by fittings 600mm long flush fitting cross tees centrally between the 1200mm cross tees. Perimeter trim to be Armstrong wall angle secured to walls at 450 mm maximum centres.				
	<b>TOTAL FOR FALSE CEILING WORKS (C)</b>				
<b>D</b>	<b>INTERIOR FURNISHING WORKS</b>				
1	<b>P/F SOLID PARTITIONS</b> made out of Aluminium cross section / 2"x1 1/2" salwood section framework 2'-0" c/c both ways treated with ant termite solution, covered with 8 mm thk commercial <b>BWR</b> ply wood / partly glazed with approved shape & shade 1mm thk laminate/mica fixing on inside of panel with 1.5 mm thk grooves in panel as per the design with provision of the openings in the panel for switch boards, box and cuts in frame for carrying conduits if necessary and fixing 1.0 mm laminate on the outside face of shade and colour as per Bank's color scheme given in the tender specification <b>with 8 mm glass</b> to be given in the design. The open edges are to be blocked by teak wood bead of required size and design. All provisions to be made for all electrical, networking boxes onto partition framework at required heights/levels with necessary additional supports as directed.	160.75	Sqft.		
	Providing and pasting frosted film (3M, Garware make) on glass work including Bank's logo as required & as directed by the Architect.				
	Including providing of solid flush door made out of 35mm with both side laminate finish with necessary fitting with door closer provision . All material is of approved brand. Size of door 900 x2100 Doors-Providing and fixing single leaf solid core flush door 40mm thick factory made, finished on both sides with 1.0mm thick laminate of approved shade as indicated in drawing. Shutter to be lipped on all sides with 12mm thick teak wood beading. Applicable hardware's to be considered for following doors according to requirement as per detailed drawings including below mentioned hardware-Door closer,SS Ball bearing Hinges ,SS foot operated Door stopper,SS Mortise Latch Lock / concealed dead lock,SS Mortise Handle.				
	Measurement shall be considered only up to False Ceiling Level only.				
2	<b>Full/ Low height /glazed partition with 12 mm glass</b> with polished edges.	258.00	Sqft.		
a	Sal wood frame of section 2.5"x1.5" fixed in position with 2.5" to 3" long steel neetle fold screw. The vertical and horizontal members being placed at 2' C/C as per site condition as directed Architect in charge.				
b	Panel for solid partition fixing 8 mm water proof plywood, ant termite, borer proof plywood of century, Duro make on both the sides of frame work with fevicol SH and headless nails of 17 no of 1.25" length and securing the cover with 1.5" long steel nettled fold screw. Making the plywood surface level before fixing the laminate/veneer.				
c	1mm thk laminate/ mica fixing on inside of panel with 1.5 mm thk Groove in the panel for switch borads, box and cuts in frame for carrying conduits if necessary, and fixing 1.0mm laminate on the outside faces of shade and colour as per CBI colour scheme given in the design. The open edge are to be blocked by teak wood bead of required size and design with 6 mm groove.				
d	Including below mentioned hardware-Door closer,SS Ball bearing Hinges ,SS foot operated Door stopper,SS Mortise Latch Lock / concealed dead lock,SS Mortise Handle.				

e	Providing and pasting frosted film (3M, Garware make) on glass work including Bank's logo as required & as directed by the Architect.				
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3	Providing and fixing of <b>Toughened glass doors</b> with below fixtures of size 3'-6"x7'-0"mm	1.00	No's.		
	Door Lock				
	Door stopper				
	Floor Machine				
	Parch fitting				
	S.S. Handle 12" long				
4	<b>WALL PANELLING:</b> Fabricating and fixing wall/column panelling to consist of 37.5mm x 50mm treated salwood framework or Aluminium Sections at spacing not exceeding 600mm both ways (horizontal and vertical). Panelling framework to be secured to wall surface/column surface. Panelling framework to be clad on one side with 8mm thick commercial ply finished with 1.0mm thk laminate including skirting of 100mm high & 12mm x 12mm groove at skirting level. <b>AT GYPSUM CEILING BOTTOM LEVEL 25MM RED+75 MM BLUE BANK'S BRANDING PATTA IS TO BE PROVIDED ALL AROUND THE BANKING HALL AND AS PER INSTRUCTIONS OF ARCHITECT.</b>	252.50	Sqft.		
5	<b>FILE STORAGE CABINETS:</b> Providing and fixing the 1'-6" wide storage units. The storage units shall have shutters made in 19mm plywood and finished in laminate of approved shade including top. The storage units shall have intermediate shelves made in 19mm thick plywood with matching wood lipping. The storage shall have matching wood edge moulding as per the detail drawings. This also includes providing necessary hardware like handles, hinges, locks, tower bolts etc of approved make. All exposed wooden surfaces shall be stained to shade. (same for Over Head storage required above Pantry counter.)	95.00	Sqft.		
6	<b>WRITING TABLE:</b> Writing desk made of wood with glass top as per Design Size: 3'0"x1'0" minimum. Writing Ledge to have facility of pigeon holes beneath to place the pay in / pay-out slips etc.	1.00	No's.		
7	<b>VERTICAL BLINDS</b> -P/F Blinds made using 100% polyester with acrylic polymer coating.(only for external windows. In case of front facia necessary approval need to be obtained).	75.00	Sqft.		
8	<b>CHEQUE DROP/ COMPLAINT BOX</b> :(2'-0" x 18" High X 10" deep) Providing and fixing cheque drop/ Complaint box made out of 19mm thk. Commercial plywood grade I finished with 1mm thk. Laminate. Slit should be provided to drop cheques and opening provided with locking arrangement to remove cheques, complete in all respect.	1.00	No's.		
9	<b>NOTICE BOARD:</b> Providing and fixing notice board of 4'-0"x2'-6" size in ply board of 6mm fixed on a frame of 50 mm x 25 mm well seasoned wood polished and top fixed with bead. 12mm thk. Soft board clad with fabric of matching colour and shade complete with all fixtures necessary as required.	1.00	No's.		
10	<b>WHITE BOARD:</b> Providing and fixing WHITE board of 4'-0"x2'-6" outer edges finish with aluminium anodized section.	1.00	No's.		
11	<b>ARTIFICIAL PLANTERS &amp; PLANTER BOX:</b> Providing & fixing of 1'-6" x 3'-0" planter box 18" high, made of 19mm thick ply board, with teak wood Gola of size 1½ "x ¾ " as per design, which is to be polished as per color scheme. The planter box shall be finished with 1mm thick laminate of approved shade / colour, complete as per Bank's approved brand/make. Inside of planters shall be painted with synthetic enamel paint as per color scheme. Planter box to be furnished with white rounded pebbles & Artificial Bamboo Silk trees or Artificial Palm Trees of 3'-0" ht. (3 Nos. trees per planter box).	1.00	No's.		
12	<b>DRESSING TABLE(Strong Room):</b> Providing & supplying dressing table with mirror of size 1'-0" x 5'-0" including sitting desk for locker room as per standard design of locker room / dwg.	1.00	No's.		
13	<b>CENTRE TABLE:</b> Providing Centre table of 30" diameter, with stainless steel base frame & 12mm glass of approved quality at top as per drawing approved by Bank.	1.00	No's.		

14	<b>TABLES/ COUNTERS</b>				
	Providing and placing in position tables with top, Vertical sides/ dividers, skirting and modesty panel made out of 19mm thk Premium board (Green/ Century) with 1mm thk laminate (as/ bank's shade approved by architect) on all exposed surfaces. It shall also have 75mm x40mm teak wood runners below the top and for footrest below. Every table shall provided with side unit (size- w-500mm, H-750mm approx.), consisting of 150mm deep drawer at top and a cabinet with open able/ hinged shutter below.				
	The facia of drawer and shutter of cabinet below shall be made out 19mm thick Premium Board (Green /Century) with 1mm thick laminate (as/shade approved by the Architect) and sides and bottom of drawer shall be made out of 12mm thick Premium Board (Green /Century). The side unit shall have CAM locks, handles, guides, sliding units, hinges, magnetic catcher's etc. of approved make. Every table shall be provided with a keyboard drawer unit (size - W-550mm, H-100mm, D-300mm approx.) below. The table shall have 100mm deep fascia, below the top, in which keyboard drawer unit shall be adjusted. It shall be made out 19mm thick water proof board with 1mm thick laminate (as/shade approved by the Architect) and sides and bottom of drawer shall be made out of 12mm Premium ply (Green /Century). The unit shall have CAM locks, handles, guides, sliding units etc. of approved make.				
	The job shall include for 6mm x 6mm grooves in between sides and open able drawers and hinged shutters. All the exposed edges of Premium Board (Green /Century) and ply shall be provided with 6mm thick teak wood/hard wood lipping. All teak wood surfaces shall be melamine polished and other internal surfaces shall be painted with two coats of synthetic enamel over one coat of primer, all complete to the satisfaction of the Architect. Every table top shall be provided with 10mm thick float glass (as per profile) with polished/ bevelled edges.				
a	BM Table of size 6'-0"x3'-0" & 2'6" high with Side credenza of size 3'6"x16" & 2'6" high	1.00	No's.		
b	Officer Table size 5'-0"x 2'-6" & 2'6" high with Side credenza of size 3'x16" & 2'6" high	2.00	No's.		
c	Officer Table size 4'-6"x 2'-6" & 2'6" high with Side credenza of size 3'x16" & 2'6" high	1.00	No's.		
d	SWO Table size 4'-6"x 2'-6" & 2'6" high	2.00	No's.		
e	Daftari size 4'x2'-0" & 2'-6" high	1.00	No's.		
15	<b>CASH COUNTERS:</b> Providing, Fabricating and supplying and fixing in position service/cash counter as per the plan made with 18mm,12mm and 6mm ply of approved make and quality with a counter top of 2.5' width at a height of 2.5'/3.5' from the floor, with a length of 5.0' or as per plan or directed/as per the site conditions, and each unit shall be provided with credenza, drawers, keyboard, shuttered shelves etc. complete. All exposed surfaces to be fixed with 1.0mm thk. Laminate and inside faces like drawers,table,side table and back face shall be pasted with 0.7mm off white liner mica. The back side of the cabinet, side tables wherever visible shall have mica same as that of color scheme with all necessary handles, locks, night latch, hinges, keyboard tray , CPU trolley, Foot rest, wire managers etc complete in all respects and full satisfaction to Bank/ Architect.	10.75	Rft.		
16	<b>SERVER ROOM COUNTER:</b> (without top glass) Laminate colour and shade as per the specification in the tender and lock handle of (Godrej, Dorset or equivalent).	4.00	Rft.		

17	<b>CASH CABIN PARTITION(HT-7'-6"ONLY)</b>	298.00	Sqft		
	Providing and fixing of wooden partitions made out of 50mm x 40mm sal wood (with anti-termite) under framing for horizontal (at Omm, 75mm, 750mm, 900mm, 1200mm, 2100mm and 2250mm and ceiling levels) & vertical (at 600mm c/c approx.) divisions or as per site conditions. It shall be covered with 6mm thick Premium Ply (Green/Century) with 1 mm thick laminate, (from Omm to 1200mm and 2100mm to 2550 mm/ceiling levels) on both sides. The design shall have grooves (horizontal or vertical) at various levels, as suggested by the Architect.				
	The Job shall also include for provision of laying conduits, switch boxes etc. The erection of partition shall include for expansion bolts cleats, clamps bolts, nuts, screws, rivets and other accessories, all complete up to the satisfaction of the Architect All door opening shall have rebated teak wood framework (size - 75mm x 50mm, as per profile) an vertical (2 Nos.)and horizontal (1 No.) sides, with melamine finish and rebate of 40mm x 12mm, all complete up to the satisfaction of the Architect.it shall also Include for door shutters, as per required width and 2250 mm high. It shall be made out of 75mm x 25mm, kail/partal wood (with anti-termite) under framing for styles, top, middle and 100mm x 25mm for bottom rail. It shall be covered with 6mm thick Premium Ply (Green /Century) with 1mm thick laminate. (from Omm to 900mm and other under frames) in shade and pattern approved by the Architect, on both sides.				
	The design shall have teak wood beading as per profile with melamine finish Door shutters shall have teak wood edging size 40mm x 10mm, as per profile on all sides, with melamine finish. Each shutter shal have hinges floor spring/sliding arrangement/hydraulic door closer (heavy duty), mortise locks, etc. The rate shall Include cost of all Immaterial. labour. T&P. wastage etc.required for proper work.				
18	<b>GLASS BARRIER:</b> for cash cabin 12MM NECESSARY) Including ETCHING work.	90.00	Sqft		
	Providing and fixing glass barrier (as per profile and design) in front of cash and ledger counter made out of 12mm thick polished edged float glass (Make - Modi guard or equivalent). It shall have 25mm x 20mm teakwood beading (as/shape approved by the Architect) to held the glass from sides and top (optional). All teak wood surfaces shall be melamine polished. The rates shall include for cutting in geometrical shape) and polishing the edges, all complete to the satisfaction of the Architect.				
19	<b>METER BOXING (Only front face to be measured for payment purpose)</b>	38.25	Sqft		
	Manufacturing, supplying and fixing box type meter storage with overall depth of 1'6" and height as per the size of the metre. comprising of the following.				
	19mm block board hinged double shutter, height as size of the panel with all around beadings 3/4" x ". powder coated handles, piano hinges, magnetic ball catches, lock, locking arrangement, tower bolts etc., all as per directions.				
	All visible surfaces to be fixed with 1.0mm thick lamination sheet with matching grains & grooves as per instructions.				
	All internal & rear surfaces to be painted with two coats of enamel paint over a coat of primer/putty as directed to get a smooth finish.				
	Only front area will be measured for payment purpose.				
20	<b>Shutter Boxing with A.C.P. (Boxing with Trap door)</b>	108.00	Sqft		
	ACP Panelling & Rolling Shutter Box.				
	Frame Work-2" X 2" X 1.5 mm thick Aluminium Tubular section (Horizontal/Vertical) Jindal Make.				
	Aluminium Composite Panel-3.0mm thick of approved color with bonding material.				

	<b>Signage</b> including lighting MS square pipe of 1" x 1" - 18 gauge for framing with one coat of red oxide & 2 coats of oil paint to avoid rusting. 3" stainless steel Hinges at every 2 on top and Alan key lock at bottom for easy maintenance of electrical. Powder coated 24 gauge GI sheets on all Top, bottom & sides. 26 gauge GI sheets at the back as per specification enclosed.	75.00	Sqft		
21	Timer: LDR based timer make Kakatia energy system or GE/L&T Make with 5 years comprehensive warranty from manufacturer of the flex/ vinyl and substrate for Indian weather and dust conditions without any restrictive sub clauses. Copy of valid warranty to be provided to the bank.				
<b>TOTAL FOR INTERIOR FURNISHING WORKS (D)</b>					
<b>ELECTRIFICATION AND DATA CABELING WORKS</b>					
<b>E</b>	<b>WIRING AND CABELING</b>				
	The rates for the point wiring shall include providing and fixing of following:				
a	Wiring of the point of any length from distribution board to point outlet <b>including circuit wiring (i.e from DB to Switchboard)</b>				
b	Earthing of all switch box and all outlet boxes fitting, fans, 3rd pin of plug with 1.50mm copper wire.				
c	Modular Switch/ Sockets of Standard make with necessary modular series cover plate and MS Boxes				
d	Embedding all conduits in walls laying in slabs, above false ceiling or in floors including all accessories as required, cutting and refilling the chases with cement mortar .				
e	Providing, fixing Modular switches, sockets, M.S. boxes (1.6mm thick) draw boxes, G.I. Pull wires (where required), brass screws, ceiling rose/connector etc.				
f	Adopting separate and independent system of wiring for lighting, power (normal and essential supply). Wiring for following points using PVC insulated copper conductor wires of 650V/1100V grade in <b>MMS grade-PVC</b> conduit concealed/ exposed including switches & sockets as above.				
g	LIGHT :(Maximum three points to be looped from primary) POWER:( Maximum TWO points in one circuit)				
<b>INTERNAL WIRING</b>					
1	<b>POINT WIRING :</b>				
	Providing wiring ( supply, fixing, testing and comm. etc) for <b>light point / Exhaust fan point / Call bell point/6A Switch-socket point</b> etc with 2x1.5+1X1.5 sq mm <b>FRLS</b> PVC insulated copper conductor single core multi stranded wire in MMS grade-PVC conduit with conduit accessories like bend , junction box etc in concealed/surface manner as per site requirement with suitable Modular Switches with plate and metal / PVC box, ceiling rose , bulb holder etc including 1.5 sqmm PVC insulated copper earth wire etc complete as required. Wire colors : Red, Black, Green .Supplying, providing wiring (supply, fixing, testing and comm. etc) for <b>circuit</b> with 2 x 2.5 + 1 x 2.5 sq mm <b>FRLS</b> PVC insulated copper conductor single core multi stranded wire in MMS grade-PVC conduit with conduit accessories like bend, junction box etc on surface / recessed manner etc ( Wiring from D.B. / Source to Board/destination ) and making good all the damages, painting, cleaning the site etc complete as required as per site requirement and as directed.				
a	Providing and fixing <b>Primary light point</b>	45.00	No's.		
b	Providing and fixing <b>Secondary light point</b> (Maximum three points to be looped from primary)	5.00	No's.		
c	<b>Plug point /ceiling Rose Point</b> ( for wall fans/Exhaust fan)Supply, fixing and commissioning of 1 No 6A multi Socket with 1 No. 6A switch (Modular type) with cover plate, sheet steel box / PVC modular box etc on surface / concealed manner I/c electrical connections and making good all the damages, painting, cleaning the site etc. complete as required as per site requirement and as directed.	17.00	No's.		
d	P&F <b>Bell point</b> i/c of buzzer	1.00	No's.		
e	<b>6 AMP. POINTS ON SAME BOARD</b> (Half point) :				



	Supply, fixing, testing and commissioning of 1 No 6 A Multi Socket with 1No. 6 A switch ( Modular type ) with cover plate , sheet steel box / PVC modular box etc on surface / concealed manner I/c electrical connections and making good all the damages, painting, cleaning the site etc complete as required as per site requirement and as directed.	6.00	No's.		
f	<b>Ceiling fan point</b> (rate should include electronic fan speed regulator)	1.00	No's.		
2	<b>16 AMP. POWER POINTS:(including circuit wiring)</b>				
	Supply, fixing, testing and commissioning of 1 No 16 A switch & 1 No. six pin 6/16 Amp. Multi Socket ( Modular Type ) with cover plate , sheet steel box etc on surface / concealed manner I/c electrical wiring with 2 X4 sqmm + 1 X 4 sqmm <b>FRLS</b> PVC insulated copper conductor single core multi stranded wire in MMS grade-PVC conduit with conduit accessories like bend, junction box etc on surface / recessed manner etc ( Wiring from D.B. / Source to Board to destination ) and making good all the damages, painting, cleaning the site etc complete as required as per site requirement and as directed.	6.00	No's.		

3	<b>AC POINTS :</b>				
	Supply, Installation, Testing and commissioning of the surface / recess mounting distribution board with 20 A Metal plug and socket, with 20 A/25A/32A SP MCB Incl. wiring with 2 X 4.0 sq mm + 1 X 4 sqmm PVC insulated copper conductor single core multi stranded wire in MMS grade-PVC conduit with conduit accessories like bend, junction box etc on surface / recessed manner etc ( Wiring from D.B. / Source to Board/destination ) and making good all the damages, painting, cleaning the site etc complete as required as per site requirement and as directed.(MCB of C-Curve with S.C Capacity 10 kA)	7.00	No's.		
	PANELS AND D.B.'s				
4(a)	<b>MAIN PANEL/VTPN(4 WAY) :(With following minimum capacity)</b>				
	Supply, installation , testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board wall mounted fabricated with 14swg and 16swg of CRCAM.S.sheet duly painted with two coat of metal red oxide and two coat of fire resistance paint at inside and out side of the panel, bus-bar chamber ,outgoing switchgear etc (all feeder unit Would be compartmentalized), color coded PVC sleeved vertical / horizontal busbar of required size of length, ( bus-bar distances shall be minimum 32 mm ) insulators, hardware, neoprene gasket , hinged door, interconnecting single core multi strand lugged copper wire having current density of 2A / sqmm of suitable capacity & size with lugs from busbar to switchgears / mccb / mcb or where ever required, two earthing terminal busbar of size 25 x 5 mm with nut & bolts at out side of the panel , rating and name plates for all incoming & outgoing , two eye two nos eye bolts,wire mesh jali for ventilation etc comprising with the followings.				
	<b>NOTE:-</b>				
	Sheet 16 swg : panel sides,upper,lower,and Ft.doors				
	Sheet 16 swg : back side and compartments.				
	Gland plates : 3 mm thick.				
	Cable entry : Provision at bottom and upper sides.				
	Inside the panel : white colour paint.				
	Outside the panel : Grey colour paint.or as directed.				
	<b>INCOMER</b>				
	1 Nos 80 Amp MCCB, 25 KA- 4 Pole,C-curve				
	1 Nos – 100 A TPN insulated Copper Bus Bar				
	Set of Indicator Lamps				
	Set of Voltmeter + Ammeter+ Selector Switch				
	<b>OUTGOINGS</b>				
	3 Nos- 40 Amp, 1 No-63 A TPMCB,C-curve				
	<b>CHANGE OVER</b>				
	<b>SET AS ABOVE</b>	1.00	No's.		
(b)	<b>SFU TPN 80 A</b> with HRC fuses(just after meter and prior to Main Panel)	1.00	No's.		
5	<b>LIGHT DISTRIBUTION BOARD</b>				
	Supply, Installation, Testing and commissioning of the surface / recess mounting following way TPN MCB three phase distribution board for single phase outgoing with IP 42 protection , direct on wall incl. the followings accessories.				
	<b>INCOMER</b>				
	1 No. TPN-RCBO/ELMCB 40 Amp ,100 ma sensitivity				
	<b>OUTGOINGS</b>				
	6-8 Nos SPMCB 6/10/16 Amp,B-Curve				
	<b>SET AS ABOVE</b>	1.00	No's.		
	incl. Electrical connection ,earthing, making good all the damages, painting, cleaning the site, etc complete as per site requirement and as directed.				
6	<b>AC DISTRIBUTION BOARD</b>				
	Supply, Installation, Testing and commissioning of the surface / recess mounting following way MCB three phase distribution board for single phase outgoing with IP 42 protection , direct on wall incl. the followings accessories.				
	<b>INCOMER</b>				

	1 No. TPMCB 63Amp ,C-curve				
	<b>OUTGOINGS</b>				
	8 Nos SPMCB 25/32 Amp,C-curve				
	<b>SET AS ABOVE</b>	1.00	No's.		
	incl. Electrical connection ,earthing, making good all the damages, painting, cleaning the site, etc complete as per site requirement and as directed.				
	<b>SUBHEAD IV : UPS WIRING</b>				
7	<b>U.P.S. DISTRIBUTION BOARD (INCOMER)</b>				
	Supply, Installation, Testing and commissioning of the surface / recess mounting following way Double door MCB D.B.- Single phase distribution board ( Consumer unit ) for single phase out going with IP 42 protection incl. the followings accessories – incl. Electrical connection ,earthing, making good all the damages, painting, cleaning the site, etc complete as per site requirement and as directed.				
a	<b>INCOMER</b>				
	1 NOS 40 A DP MCB				
	<b>OUTGOINGS</b>				
	2 Nos- 40 Amp DP MCB				
	<b>SET AS ABOVE</b>	1.00	No's.		
b	<b>UPS DIST. BOARD OUTGOINGS.</b>				
	1 NOS 12 WAY SPN DIST BOARD				
	1 Nos- 40 Amp DPMCB				
	6-8 NOS 6/10 AMP SPMCB				
	<b>SET AS ABOVE</b>	1.00	No's.		
8	<b>SPECIAL POINTS: ( UPS) any length (TO WORKSTATIONS)</b>				
	Supply, fixing, testing and commissioning of following Modular type switch socket with cover plate , sheet steel box etc on surface / concealed manner I/c electrical wiring with 2 X 2.5 sq mm + 1 X 2.5 sq mm FRLS PVC insulated copper conductor single core multi stranded wire in rigid MMS grade PVC conduit with conduit accessories like bend, junction box etc on surface / recessed manner etc ( Wiring from D.B. / Source to Board/destination ) and making good all the damages, painting, cleaning the site etc complete as required as per site requirement and as directed.				
	1 Nos. 16 A Switch + 3 Nos. 6 A, 5 pin Socket.	14.00	No's.		
9	<b>EARTHING</b>				
	Preparation of the Earth station : ( as per I.S. 3043 )				
i).	Excavation of rocky earth,soft murrum, hard murrum etc and back filling with black cotton soil for the earth station, the earth pit size is 1000 mm X 1000 mm X 2500 mm deep.				
ii).	S/F of Copper plate of size 600 X 600 X 3.00 mm				
iii)	Supply & fixing 25 mm X 5 mm , 3 mtrs copper strip from copper plate to earth terminal including brazing/welding at plate etc.				
iv)	Supplying and laying in position 15 mm,2 mtrs G.I. B class perforated pipe for watering.				
v)	S/F of one set of reducer / funnel with mesh .				
vi)	S/F of the following in the earth station.				
vii)	75 Kg. Charcoal.				
viii)	50 Kg. Original Salt.				
a	Construction of earth pit chamber incl necessary brick work, concrete , plastering, S/F of C.I. cover of size 12" X 12" complete as per site requirement with watering arrangement etc complete.	2.00	No's.		
b	Supplying and laying 25 X 3 mm copper strip direct on wall/ in ground with screws and washer including soldering / welding etc if required..	1.00	No's.		
c	Supply and laying of 6.0 sqmm PVC insulated copper wire from earth station to main panel board in 20 mm GI Pipe including all materials, accessories etc complete.	145.00	Mtr		
	<b>CABLING :</b>				
10	<b>LT.CABLES :</b>				
	Supply,laying ,testing and commissioning of the following 1100 volt grade pvc insulated Al / Cu. Conductor armored cable inner and outer sheathed , along with the two run of G.I.earth wire i/c termination with brass gland and Al. lugs etc. complete as required.				

	<b>On surface :</b>				
	S/Fixing the cable on wall / column / beam / ceiling / above false ceiling / existing trench etc incl. s/f of of saddles / spacers ( wherever required as per site conditions) and two run of G.I. earth wire along with the cable. Making good all the damages.				
a	<b>4 C x 10.0 sqmm armored copper cable</b> with 10 SWG 2 Nos G.I. wire for Electric room /Ups room.	55.00	Mtr		
b	<b>3.5 C X 35 sqmm. Al. Armored</b> .( with 10 SWG 2 Nos. G.I. wire ) from electric pole to METER ROOM.	65.00	Mtr		

11	<b>E-DG Set Supply</b>				
	S/laying of <b>3.50 x 25sq.mm XLPE insulated armored Copper Conductor cable</b> from proposed DG set to Changeover switch including its connections at both ends with lugs to be laid in 25mm dia rigid PVC flexible conduit.	85.00	Mtr		
12	<b>32 amps change over switch</b> of Havels make	1.00	No's.		
	TELEPHONE WIRING / CABLING SYSTEM.				
13	<b>TELEPHONE POINT :</b>				
	Supplying, Installation, testing and commissioning of the telephone point with the followings -				
i).	Two pair, 0.61 mm dia. telephone cable tinned copper conductor, P.V.C. insulated and sheathed , fire retarding, anti termite, color coded twisted pairs and rip cord.				
ii).	HMS Pvc pipe on beam /column / wall / floor etc with all necessary materials i/c connections, identification by numbering etc complete as required as per I.T.D. specification.				
a	<b>Double outlet</b> with shutter modular type Telephone Outlets ( RJ – 11 ) with suitable size PVC modular boxes complete as required .	1.00	No's.		
b	<b>Single outlet</b> with shutter modular type Telephone Outlets ( RJ – 11 ) with suitable size PVC modular boxes complete as required .	5.00	No's.		
c	Providing and fixing <b>10 pair KRONE</b> make telephone tag block with 10 pair module with termination and crimping complete and making good the surface as required/ directed.	6.00	No's.		
d	Providing and fixing <b>10 pair armored tinned copper telephone cable</b> in 32 mm PVC conduit from telephone utility junction box.	65.00	Mtr.		
14	<b>COMPUTER CABLING SYSTEM.</b>				
1(i)	Supplying, Installation, testing and commissioning of the Computer point with the followings -				
ii).	Four pair STP CAT 6 LAN cable tinned copper conductor, P.V.C. insulated and sheathed , fire retarding, anti termite, color coded twisted pairs and rip cord. (from server room switch to I/O outlet )				
iii)	HMS Pvc Pipe on beam /column / wall / floor etc with all necessary materials i/c connections, identification by numbering etc complete as required as per At & T specification.				
a	Single outlet with shutter modular type I / O's Outlets ( <b>RJ – 45</b> ) with suitable size PVC modular boxes complete as required. <b>(including 2 for ATM)</b>	13.00	No's.		
b	Supply and Installation of following factory fabricated patch cords ( STP-CAT 6 ) complete with connectors and boots on both sides. <b>Two Meter length</b>	13.00	No's.		
c	Supply and laying of Four Pair STP <b>CAT 6 LAN cables</b> including cost of 25mm dia 1.5mm thick PVC Conduit / Floor tucking.(Rate Only)	0.00	Mtrs.		
2	Supplying and fixing				
a	<b>9U/12U Rack</b> 3 side open	1.00	No's.		
b	<b>Patch cord cat6 1 metre</b> B/Y Color	11.00	No's.		
15	<b>ELECTRICAL FITTINGS/FIXTURES</b>				
1	Supply, fixing, testing and commissioning of Recess mounted decorative luminaire with LED FIXTURES with class I electrical safety, complete as required Fitting Dimensions :				
a	32-40 watts,Minimum 2800 lumens LED SQUARE size 600X600X80 mm ( Approx.) : CRI>80,PF>0.9	22.00	No's.		
b	14-15 w ,Minimum 850 lumens LED ROUND DOWN LIGHTER Diameter 110-165mm,CRI>80,PF>0.9	10.00	No's.		
c	1 x (32-36) watt LED Light batten with fitting wall mounted	1.00	No's.		
d	S/F of suspended/ surface mounted/ ceiling/ wall mounted 1200 mm long, 32-36 watt with 3600 lumen metal batten LED Tube lights complete in all respects and as per specification e.g. Crompton/ Philips/ Panasonic/ Syska make.	7.00	No's.		
e	S/F of 9 watt LED bulb with holder for pantry/ toilets of rompton/ Philips/ Panasonic/ Syska make.	2.00	No's.		
2	<b>WALL BRACKET FAN</b>				
a	Supply and fixing of the following fans Wall bracket fan white (400mm blade size)	14.00	No's.		
	<b>CEILING FAN</b>				

b	Supply and fixing of CEILING FAN 1200 MM Sweep	1.00	No's.		
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	<b>EXHAUST FAN:</b>				
c	Supply and fixing of the following single phase Exhaust Fan continuously rated, capacitor start and run type, totally enclosed and ruggedly built, pre lubricated double ball bearing, copper wound, A & E class insulation, dynamically balanced, below 40 db sound level etc. Supplying & fixing of 300 dia Exhaust fans.	3.00	No's.		
	<b>TOTAL FOR ELECTRICAL AND DATA CABELING WORKS (E)</b>				
<b>F</b>	<b>LOW SIDE AIR CONDITIONING WORK</b>				
a	Supplying & Laying extra suitable Copper refrigerant piping with all required material.	45.00	Mtrs.		
b	Supplying & Laying extra suitable PVC Drain piping with all required material.	35.00	Mtrs.		
c	Supplying & Fixing suitable MS Stand for 1.5 tr/2 tr AC outdoor	7.00	No's.		
d	Supplying & Laying of power cable from indoor to outdoor suitable for 1.5 tr /2 tr load/AC	59.00	Mtrs.		
	<b>TOTAL FOR LOW SIDE AIR-CONDITIONING WORKS (F)</b>				
	<b>GRAND TOTAL AMOUNT FOR WORKS (B+C+D+E+F)</b>				
	<b>DISCOUNT IF ANY @</b>				
	<b>AMOUNT AFTER DISCOUNT</b>				
	<b>AMOUNT IN WORDS:</b>				

**Note: All quoted rates are excluding the GST.**