

**TENDER DOCUMENT FOR
PROPOSED REPAIRS & RENOVATION OF 4TH FLOOR
OF
INDIAN BANK**

HEAD OFFICE BUILDING

66, RAJAJI SALAI, CHENNAI 600001

**PART – 2
PRICE BID**

Through electronic mode only

CO:EST:TNDR:GP:001:2020-21

Date: 27.11.2020

**ARCHITECT:
CREATIVE ARCHITECTS AND INTERIORS
1090, POONAMALLEE HIGH ROAD,
1ST FLOOR, A.R. COMPLEX
EGMORE. CHENNAI – 600084
PH: 044 – 42042303
Email: creative1090@gmail.com**



ABSTRACT		
REPAIRS & RENOVATION OF 4 TH FLOOR OF INDIAN BANK, HEAD OFFICE BUILDING, 66, RAJAJI SALAI, CHENNAI		
Sl No	Description	Amount (Rs.)
1	Civil work	
2	Interior work	
3	Electrical work	
4	UPS & Allied work	
5	Air-conditioning work	
6	Modular Furniture work	
	Total	



CIVIL WORK - REPAIRS & RENOVATION OF 4TH FLOOR OF INDIAN BANK HEAD OFFICE BUILDING

S. No	Description	Unit	Qty	Rate	Amount
	Demolishing work				
1	Dismantling the wall of 4.5" thickness B.W in wall removing the debris from 4th floor, carting away from the site etc, complete.	Sqm	375.00		
2	Dismantling the wall of 9" & above thickness B.W in wall removing the debris from 4th floor, carting away from the site etc, complete.	Cum	75.00		
3	Removing the Existing wall & floor Tile / Mosaic flooring with cement mortar removing the debris from 4th floor, carting away the waste from site.	Sqm	825.00		
4	Removing the existing Gypsum / grid false ceiling with the framing carefully in all respect at 4th floor and carting away from the site to contractor's own yard.	Sqm	825.00		
5	Removing the existing doors with frames (All sizes) carefully at 4th floor and stock the same at ground floor as directed by the bank.	nos	27.00		
6	Removing of Wooden Partition, Aluminum Glass partition, Doors with frame, Glass partition, storage, Tables, modular partition, Wall panelling carefully in all respect at 4th floor and stock the same at Basement/ground floor as directed by the bank.	Lot	1.00		
7	Removing of existing window.	Sqm	120.00		
8	Removing of existing Electrical fittings, conduits, wire, MCB, DB and switch board in all respect at 4th floor and stock the same at Basement/Ground floor as directed by the bank.	lot	1.00		
9	Removing of existing centralised Aircondition duct, collar, grills and all frames in all respect at 4th floor and stock the same at Basement / ground floor as directed by the bank.	lot	1.00		
10	Charges for Chipping the existing ceiling area and at carting away the debris as instruction given by Engineer in charge.	Sqm	QRO		
11	Removing of sanitary item, CP fittings, Pipes etc in the existing Toilet and carting away the waste from the site complete.	lot	1.00		
	New Work				
12	Providing and laying Autoclaved Aerated concrete Block work of thickness 200mm with cement mortar 1:5 (1 cement: 5 sand) for all shape including the cost of materials, labour, scaffolding/staging, sampling and testing, cutting and laying the blocks, providing recesses, making opening of any shape and size, finishing the joints above ground level, sealing the gap between masonry and soffit of beam/slab, embedding the fittings and fixturers, curing etc., all complete as per specifications and as directed by the Architects.	Sqm	30.00		



S. No	Description	Unit	Qty	Rate	Amount
13	Providing and laying Autoclaved Aerated concrete Block work Masonry of 150mm thick cement mortar 1:4 (1 cement : 4 sand) in any shape , including the cost of labour, materials, scaffolding/ staging, sampling, and testing, cutting and laying of blocks providing and opening of any shape and size ,raking out the joints, supplying and placing 2 Nos. 6mm dia . M.S. bars at every fourth course ,sealing the gap between masonry and soffit of beam/slab , embedding the fittings and fixtures , curing etc . all complete as per specifications and as directed by the Architects.	Sqm	25.00		
14	Providing and laying REINFORCED CEMENT CONCRETE 1:2:4 using 20mm and down size graded crushed stone aggregates in Sub Structure of all types e.g. foundations , footings, raft, beams , slabs, retaining walls, jambs, trenches, manholes, pipe encasements, catch pits, drains, RCC Pits, plinth beams, suspended floors, including cost of admixtures if used, providing pockets, openings, recesses, chamfering, providing pvc cover block wherever required to give a smooth and even surface etc. all complete for all depths below and upto the plinth level in any shape, position, thickness, etc. all complete as specified and directed. (Rate exclusive of cost of reinforcement and shuttering).	Cum	1.00		
15	Providing and fixing form work including shuttering in SUPER STRUCTURE with water proof plywood in beam sides, spreading Metal sheets, Props, Jackey upto sufficient level and strutting and propping in super structure, and Proper foams to be placed between the joints, of the sheets column, beams, walls slabs, staircases,(Steps, waist slabs, landing etc.) lintel, sun shades, canopies, cantilevers etc. for all heights including removal of the shuttering after the specified period is over and as directed by the engineer in charge complete with all materials, labour consumable etc. (Form work shall be supplied by the contractor and shall remain the property of the contractor).	Sqm	10.00		
16	Supplying & fabricating and placing in position HIGH STRENGTH DEFORMED STEEL BARS REINFORCEMENT for RCC work straightening, cleaning, decoiling, cutting, bending, butt Welding, to required shapes and lengths as per details, binding wire contractor's own 16 SWG black soft annealed binding wire at every intersection, supplying and placing with proper pvc cover blocks, PVC role covering 19 to 21 gauge width 56" to 59", supports overlaps, welding spacers, fan hooks, etc. for all heights and depths etc., all complete as directed.	Kg	300.00		
17	Providing 12mm thick plaster in cement mortar CM (1:4) on Internal walls / concrete surfaces including cleaning, hacking of concrete surfaces, including chicken mesh fixing, packing of electrical, plumbing works, scaffolding, finishing, curing etc.for all heights and also including cost of cement etc complete.,	Sqm	150.00		
18	Providing 20mm thick plaster in cement mortar CM (1:4) on External walls / concrete surfaces in duct including cleaning, hacking of concrete surfaces, including chicken mesh fixing, packing of electrical, plumbing works, scaffolding, finishing, curing etc.for all heights and also including cost of cement etc complete.,	Sqm	QRO		



S. No	Description	Unit	Qty	Rate	Amount
19	Providing 8mm to 10mm thick plaster in cement mortar CM (1:4) on ceiling surfaces including cleaning, hacking of concrete surfaces, including chicken mesh fixing, packing of electrical, plumbing works, scaffolding, finishing, curing etc.for all heights and also including cost of cement etc complete.,	Sqm	75.00		
20	Providing and laying Premium Quality Vitrified floor tiles of size 800mm x 800mm x 10 to 12mm of approved make as per design & pattern colour, first quality approved make with bed of 20mm thick cement mortar 1:3 (1 cement : 3 sand) in line and level including pop covering with the tiles cleaning the finished surfaces, flush pointing of joints of tiles with as per company grout matching the shade of tiles etc. at all and as per specifications, standards and instructions. colour and shade as per choice of Architect. rate and work inclusive of skirting. Basic rate inclusive of tax tile cost. Rs.70/- per sft.	Sqm	800.00		
21	Providing and fixing coloured glazed tile of approved make as per design & pattern in dadoing in size of tile 600 x 300 mm first quality approved make with a bed of 15mm mortar 1:3 (1 cement : 3 sand) in line and level, cleaning the finished surfaced including raking out the joints, flush pointing of joints of grout all complete at all heights as per specifications, and instructions colour and shade matching to the floor tiles as per choice of Architect. Basic rate inclusive of GST taken as Rs 50/sft.	Sqm	20.00		
22	Providing and fixing Mat tiles of approved make as matched to the wall tiles in size of tile 300 x 300 mm first quality approved make with a bed of 15mm mortar 1:3 (1 cement : 3 sand) in line and level, cleaning the finished surfaced including raking out the joints, flush pointing of joints of grout all complete at all heights as per specifications, and instructions colour and shade matching to the floor tiles as per choice of Architect. Basic rate inclusive of GST taken as Rs 50/sft.	Sqm	5.00		
23	Providing and Fixing Aluminium work for windows, ventilators with appropriate Z Sections of approved make conforming to IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/ neoprene felt etc. Aluminium sections shall be smooth rust free, straight, snap beading for glazing/panelling, C.P. brass/Stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing with 6mm ST 167 Annealed Glass cost included).	Sqm	120.00		
24	Providing and fixing 75 mm thick grano flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) finishing the top smooth etc, complete	Cum	62.00		
25	Supplying and laying of jump lining of Toilet doors frames & Ventilator for using 20 mm thick Telephone black Granite with cement mortar & pointing, the edge of granite half round moulded inclusive of all works etc completed (Basic rate Rs.125/- per sft)	Sqm	2.50		
26	Supplying and laying of Wash basin counter with Granite and cement mortar & pointing, the edge of granite half round moulded inclusive of all works etc completed (Basic rate Rs.125/- per sft)	Sqm	1.00		



S. No	Description	Unit	Qty	Rate	Amount
27	Water Proofing Treatment: a. Providing and laying WATER PROOFING TREATMENT coving with CM 1:3 admixed with water proofing admixture/equivalent) at the slab wall junction, cutout openings, corners, junction of pipes and masonry. Applying two coats of Brush bond RFX (acrylic polymer cementitious coating from water proofing material) on the sunken slab after proper surface preparation and pressure grouting if required. b. Providing and laying Light weigh block in toilet portion with CM 1:5 including Material, Labour etc., complete. 150mmthk in single layer to achieve the slope.	Sqm	5.00		
28	Plumbing work Supplying, Installing, testing and commissioning of approved make kitchen sink with single bowl & single drain board made of Stainless steel 1 No. 40mm dia CP bottle trap with extension pipe, CP wall flange, CP waste coupling, 1 No. 15mm dia C.P sink cock unit wall mounted type with 2 nos swinging spout, C.I. brackets etc., complete. Kitchen Sink : Make Nirali 600mm x 450mm Sink Cock : Make: Jaquar Continental, Model : 347 Waste Coupling : Model No : 709, Make: Jaquar Bottle Trap : Model No : 773, Make: Jaquar	nos	1.00		
29	Supplying, laying, jointing, testing and commissioning approved make UPVC pipes SWR grade conforming to IS 13592 Class "B" with rubber ring joints conforming to IS 5382. The quoted rate shall include necessary fittings like Tees, Bends, Offset etc., MS brackets with GI clamps, nuts & bolts, anchor fasteners, grip bolts, etc., necessary earthwork etc., complete. To be connected to existing exterior connection.				
	a) 75 mm O.D	Rmt	30.00		
	b) 110 mm O.D	Rmt	30.00		
30	Supplying, Installing, testing & commissioning approved make Astral CPVC Pipes & fittings etc complete. The quoted rate shall include necessary, chasing in walls, making bores in walls, Beam & slabs and making good the chased surfaces (Inside the Shafts) for Cold Water Supply Lines.				
	a) 20 mm dia I.D	Rmt	15.00		
	b) 25 mm dia I.D	Rmt	35.00		



S. No	Description	Unit	Qty	Rate	Amount
31	Supply,installing, testing and commissioning approved make white colour wall mounted European water closet type colour plastic solid seat andcover with rubber buffers and flap, heavy duty plastic hinges,C.I. chair bracket etc., complete. Make : Hindware White - 92051 - Essence.	Nos	1.00		
32	Supply,installing, testing and commissioning of approved make 15mm CP health faucet including angle cock, bib cock with easy flexible tube 1.0m long, CP crutch, nozzle etc.,complete. Make : Jaquar Allied, Model No : ALD-CHR-565.	Nos	1.00		
33	Supplying and fixing Geberit Alpha Kombifix Tank with necessary fittings etc. complete. Make: Geberit 110.120.00.1.	Nos	1.00		
34	Supply of Geberit Push Plate with necessary fittings etc. complete. Make: Geberit Alpha 15 Shinny Push Plate 115.045.21.1.	Nos	1.00		
35	Supply and fixing of Table top Wash Basin with all necessary fittings etc. complete. Wash basin: Make: Hindware INOX Code no: 91050. Pillar cock Make : Jaquar Continental, Model No.: CON-CHR-021KN, Bottle trap: Jaquar ALD-769, Braided hose: Jaquar ALD-803B	Nos	1.00		
36	Supply and fixing 6mm imported mirror over 12mm thk bison board alround wooden bleeding with polish finish and necessary fittings, fixing etc.complete.	Sqm	0.90		
37	Supply, Fixing approved make C.P.Towel ring, Paper holder including C.P.screws etc.,complete.,	Nos	1.00		
38	Supplying and fixing Enox shutter in counter Wash basin area with necessary harware fittings etc., complete.,	Nos	1.00		
39	Supplying & Fabrication of Good Quality of structural steels, welding electrodes, bolts, nuts and washers etc as per IS : 800 section V & involves trimming, straightening, edge preparation, preparation and getting reviewed of fabrication drawings and providing one coat of red oxide zinc chromate primer.& as per drawing The work include Epoxy Paint as mentioned in the technical specification. The work includes the connection works & taxes, Transportaion etc. complete., (ISMB, Connections, chequered MS plate etc., complete).	MT	7.00		
40	Supply, installation, testing and commissioning of False Flooring with unitile with wooden finish including all labour, material, fixtures, transportation, suitable for finished false floor of approx. height 150mm with understructure etc.complete.	Sqm	80		
	TOTAL				
41	Buy Back of Ceiling wooden frames, Door & frames, Partitions, Existing window and demolished materials, Electrical wiring, A/C ducting etc complete Rate Should be inclusive of GST 5%.	LS	1.00		
	GRAND TOTAL				



INTERIOR WORK -REPAIRS & RENOVATION OF 4TH FLOOR OF HO MAIN BUILDING

Sl No	Description	Unit	Quantity	Rate	Amount
1	Providing and fixing Gypsum Board false ceiling laid in 4 levels with the difference in height to accommodate ceiling lighting consisting: Frame work of intermediate channels (M.F.T) at 122cm centre along one direction M/F ceiling section MF5 at 45.7 cm centre along other direction. Perimeter channels (MF 6A) along walls all-round perimeter side of the ceiling, all to detail as per drawing. The intermediate channels suspended from ceiling, through strap hangers 25x0.5mm (MF8) at 122 cm centre connected to soffit cleats P534 (27x37x25x1.6mm) the cleats connected to ceiling through metal expansion rawl plugs 1/2" dia and 17/16" long with necessary bolts and nuts etc. all connected with additional perimeter channels (MF 6A) for openings for light fixtures, AC ducts, vertical drops, offsets etc. wherever necessary all to detail and as per direction. 12 mm thick Gypsum sheets fixed to underside of suspended grid with 25 mm screws to form grids of 45.7cm x 122cm varied along wall ends etc. including painting the underside of gypsum sheet with 2 coats of plastic emulsion paint of approved colour and shade over a priming coat etc.complete. (as per direction of the Architect) including indirect light in all cabins and vertical step in modular area false ceiling.	Sqm	465.00		
1.a	All the specifications are same as above for Curved Surfaces with necessary fittings and fixtures etc. complete, (attached drawings)	Sqm	15.00		
2	Providing & Fixing of approved make Mineral Fibre Acoustical Suspended Ceiling System with Dune Supreme (Bevelled Tegular) Edge Tiles With 15mm Exposed GRID. The tiles should have Humidity Resistance (RH) of 99%, NRC 0.5, CAC = 35 dB, Light Reflectance ≥85%, Thermal Conductivity k = 0.06 w/m K, Colour White, Fire Performance Euro Class A2-S1,d0 in module size of 600 x 600 x 15mm , suitable for Green Building application, with Recycled content of 44%. The tile shall be laid on 32 with 15 mm wide T - section flanges colour white having rotary stitching on all T sections i.e. the Main Runner, 1200 mm & 600 mm Cross Tees with a web height of 32mm and a load carrying capacity of 7 Kgs/M2 & minimum pull out strength of 100 Kgs.. The T Sections have a Galvanizing of 90 grams per M2 and need to be installed with Suspension system of approved make. . INSTALLATION: To comprise main runner spaced at 1200mm centres securely fixed to the structural soffit using approved make suspension system (specifications below) at 1200mm maximum centre. The First/Last approved make suspension system at the end of each main runner should not be greater than 450mm from the adjacent wall. Flush fitting 1200mm long cross tees to be interlocked between main runners at 600mm centre to form 1200 x 600 mm module. Cut cross tees longer than 600mm require independent support. 600 x 600mm module to be formed by fitting 600mm long flush fitting cross tees centrally between the 1200 mm cross tees. Perimeter trim to be approved make wall angles of size 3000x19x19mm, secured to walls at 450 mm maximum centres. Approved make SUSPENSION SYSTEM accessories manufactured and supplied by approved manufacturer consisting of M6 Anchor Fasteners with Vertical Hangers made of Galvanised steel of size 26 x 26 x 25 x 1.2mm with a Galvanised Thickness of 80gsm, A pre Straightened Hanger wire of dia – 2.5 mm of 1.8 m length., thickness of 80gsm and a tensile strength of 344-413 MPa, along with Adjustable hook clips of	Sqm	330.00		
3	Providing and fixing trap door for indoor units access using aluminium frame of size 50 x 50 mm 1.2mm thick extruded aluminum "L" angle cleats fixed with 12mm galvanized metal screws and support from ceiling and wall with 12mm BWR ply over 3mm mdf, inside wood primer two coats and outside to be finished with two coats of putty, one coat of primer and two coats of paint. Door edges to be covered by 20 x 10mm teak beading with paint finish and necessary hardware like lock, SS tower bolt, magnetic catch and SS hinges.	Sqm	15.00		



Sl No	Description	Unit	Quantity	Rate	Amount
4	Supply and laying Calcium silicate board of 8mm thk. with 24mm wide white powder coated channel and suitable downrod 4mm thk necessary hardware fittings. The board finish by Plastic Emulsion Paint of primer one coat and two coats of emulsion paint over two coats of putty etc.complete.,	Sqm	5.50		
	PARTITION				
5a	Providing and fixing full height Gypsum board partitions and of overall thickness 75mm consisting of Frame works 50mm x 25mm x 1.2mm thick extruded aluminum box section framework at spacing not exceeding 600mm both ways (horizontal and vertical). Framework formed using 50mm x 25mm x 1.2mm thick extruded aluminum "L" angle support cleats fixed with 12mm galvanized metal screws.and Fibreglass insulation RB slab density 24 kg/m3 50mm thick - NRC - 0.91. Partition framework to be secured to floor, structural support and nearest structural member using galvanized metal screws and wooden / PVC rowel plugs and all joint to be covered by paper tape finished with two coats of putty,one coat of primer & two coats of plastic emulsion paint as per detail drawing. All openings of windows and doors to be done with 19mm x 75mm wide plywood with 3 x 3mm groove. Glass fixed with beading and finished with paint as per detail drawing. (Measurement will be taken below false ceiling only).	Sqm	QRO		
5b	Providing and fixing full height 10mm thick Induwud Natural Fibre Composite (NFC) board partitions (both sides) and of overall thickness 71mm consisting of Frame works 50mm x 50mm x 1.2mm thk & 50mm x 25mm x 1.2mm thick extruded aluminum box section framework at spacing not exceeding 400mm both ways (horizontal and vertical). Framework formed using 50mm x 25mm x 1.2mm thick extruded aluminum "L" angle support cleats fixed with 12mm galvanized metal screws and Fibreglass insulation RB slab density 24 kg/m3 50mm thick - NRC - 0.91. Partition framework to be secured to floor, structural support and nearest structural member using galvanized metal screws and wooden / PVC rowel plugs and all joint to be covered by paper tape finished with two coats of putty, one coat of primer & two coats of plastic emulsion paint as per detail drawing. All openings of windows and doors to be done with 19mm x 75mm wide plywood with 3 x 3 mm groove. Glass fixed with beading and finished with paint as per detail drawing. (Measurement will be taken below false ceiling only).	Sqm	200.00		
6	Supply and Fixing of Slim Glass partition of 10mm Toughened Glass using Dormakaba Alexa System-45 Frames to a height of maximum 3m or as per drawing.The Fixed glass to be fixed using Dormakaba Alexa BP45 Profiles at Top & Bottom & Alexa SP45 at sides. The profile size to be 45x25MM to be fixed on to the floor/wall/ ceiling as per the architect design. Dormakaba Alexa H Junction profile to be used at all Glass to Glass vertical joints, 90 Deg L Junction Profiles and T Junction profiles necessary as per design.In case of Glass overall panel Alexa MP45 & BP45 Overpanel Profile to be used.In case of Open glass edges EP45 End Profile to be used. The Alexa profiles shall be suitable for Glass thickness of 10mm.The Profile shall be matt natural anodized, the Profile Manufacturer to supply all the necessary clips, seals and fixing accessories for the system. All Profiles to be with 2 mm Gauge thickness Excluding 20 Micron of Anodizing. Approved Manufacturer: Profiles/Frames: Dormakaba, Glass : Saint Giobain.	Sqm	38.00		



Sl No	Description	Unit	Quantity	Rate	Amount
7	Supply & Fixing of Glass Door (Single Leaf) of 10mm toughened glass with Dormakaba Alexa System-45 frames all around the door. Alexa DP45 Door Profile frame of size 45X50mm with seals with Dormakaba Junior Office Hinges (3nos) & Studio Gala Locks (1no) in aluminium silver (EV1) finish and Dormakaba TS 89 Slide Channel Door closer with (as per EN 1154) and saddle plate for fixing on the Glass door and necessary seals to be provided all around the door frames. In case of Glass over panel Alexa OHP-DP45 Over Panel Door profile to be used. The Alexa profiles shall be suitable for Glass thickness of 10mm. The Profile shall be matt natural anodized, the Profile Manufacturer to supply all the necessary clips, seals and fixing accessories for the system. All Profiles to be with 2 mm Gauge thickness Excluding 20 Micron of Anodizing. Approved Manufacturer: Profiles/Frames: Dormakaba, Glass : Saint Giobain	Sqm	9.00		
8	Providing and fixing of Powder coated Aluminium Strip/ Skirting of size of 75 and thickness of 5-6mm (+/- 5%) on existing Gypsum partition with proper care by using adhesive at back and screwing from front to the existing GI partition frame work complete in line and level as per direction of Architect/ PMC. The colour and shade of powder coating shall be as approved Architect.	RM	50.00		
9	Supply and fixing column panelling 50 x 25mm aluminium frame with 12.5 thk.mm induwud and above Laminate with necessary hardware fittings & fixing etc.. Complete, The colour and shade shall be selected Architect with corner guard of 10mm L profile & etc complete.	Sqm	50.00		
10	Supply and fixing writing PU coated 6mm thk glass over 6mm thk induwud with necessary hardware fittings & fixing etc.. Complete, The colour and shade of glass shall be selected Architect with corner guard of 10mm L profile & etc complete.	Sqm	3.00		
11	Supply and fixing 12mm thk toughened glass door and Partition with dorma patch fittings, SS handle 32mm dia 600 mm high, lock, floor spring and door stopper and 3M frost film as per detail drawing in Main entrance. Rates inclusive of necessary supports with necessary fixtures etc., complete.	Sqm	7.20		
12	Providing and fixing of lobby main entry door boxing of size 9" using 18mm thk Induwud with laminate finish with necessary frames & fixtures etc. complete as shown in the drawing.	Sqm	13.00		
13	Providing and fixing wooden door frame (2nd class burma teakwood) of size matched to gypsum partition with wood to fix 35mm tk flush door Single leaf finished with laminate / metallic laminate and 12mm teak wood lipping and necessary hardware fittings like door lock with key hole flange, SS handle 25mm dia 1.2m high, door stopper, SS ball bearing hinges, SS tower bolt 150mm long & door closer. Door middle portion with 6mm thk toughened glass view panel of size 300 mm x 2.0 mtr fixed with teak wood beading, Lipping, polish finish matching with laminate shade with necessary fixtures, screws etc., complete.	Sqm	8.70		
14	Supplying and fixing Full Height Storage 0.3m deep using 18mm Indowud with openable shutter at the top & bottom and centre portion open shelf as per detail drawing. Exposed surface area of the storage to be 1mm tk laminate and inside to be 0.8mm tk laminate. Edges of the shutter to be finished with teak wood beading polish finish. Rates including necessary hardware fittings like SS handle 6", Lock, auto close hinges, magnetic catch, tower bolt 8" high, 2" dia SS leg etc., complete in with necessary frames & fixtures etc. complete.	Sqm	2.40		



Sl No	Description	Unit	Quantity	Rate	Amount
15	Supplying and Fixing Countertop in Pantry 0.6 m deep using 19mm tk Kadappa Slab at the bottom and 19mm thk polished Granite at top fixed with Adhesive, at the front 50mm height granite to be shown with nosing as per detail. Slab to be fixed with 2" either side bearing on the wall with necessary chipping and packing. Below the counter provide storage using 19mm tk ply on all sides, shelves, partitions, Door Shutter, Drawers finished with 1mm tk laminate and inside to be 0.8mm tk laminate. Edges of the shutter to be finished with teak wood beading polish finish. Rates including necessary hardware fittings like SS handle 6", lock, auto close hinges, magnetic catch, tower bolt 6" high etc, complete.	Sqm	5.70		
16	Supply and laying wall paper in conference room & GM cabin etc complete (Wall paper - Brick tile wall paper As per design and selection of Architects)	Sqm	77.00		
17	Supply and fixing Vertical blinds for windows using necessary fittings. (Sheer out) (Fabric cost Rs. 1500/Sq. Mtr. As per design and selection of Architects)	Sqm	145.00		
18	Supply and fixing Rollar blinds for windows using necessary fittings. (Sheer out) (Fabric cost Rs. 1500/Sq. Mtr. As per design and selection of Architects)	Sqm	5.50		
	Painting work				
19	Prepare surfaces of painting apply one coat of primer, 2coats of putty and two coats and final coat roller finish of Premium emulsion / Royal touch , to interior faces of wall including scraping the existing surfaces shade approval by architect / bank engineer.etc...,complete.	Sqm	800.00		
20	Prepare surfaces of wall and remove dirt, old painting, strains, install level marks and apply POP punning to achieve a perfect plane for receiving the painting treatment. etc..., complete as instructed by the architect / Bank Engineer etc., complete.	Sqm	500.00		
21	Prepare surfaces of painting apply one coat of primer,putty and two coats paint finish of luster paint , to interior faces of window, door and shutter including scraping the existing surfaces shade approval by architect / bank engineer.etc..., complete.	Sqm	75.00		
22	Prepare surfaces of painting apply one coat of primer,putty and two coats paint and final coat roller finish of OBD to interior faces of wall /ceiling including scraping the existing surfaces shade approval by architect / bank engineer. etc..., complete.	Sqm	825.00		
23	Applying a trowel based texture coat of Acrylic modified resin and special quality quartz RoughTex Texture which is an intermediate coat (of Asian Paints or Equivalent brands). Surface preparation for all surfaces like RCC/ Rough Plaster/Textured walls etc to be done as per recommended procedure like surface to be cleaned properly, application of a coat of Acrylic exterior grade Primer followed by a coat of desired / recommended pattern of ROUGHTEX texture followed by Acrylic exterior grade Primer and two Coats of Apex Ultima of desired shade.	Sqm	40.00		
24	Providing and Fixing frosted film in glass with necessary fixtures design and drawings as given by the architects etc., complete.	Sqm	47.00		
25	Supplying and fixing carpet flooring SHAW/Welspun carpet (basic cost Rs. 1500 /- per sqm) over 5mm thk U - form finish.etc complete.	Sqm	45.00		
26	Providing and fixing Green wall Hedges, Monk Yellow Single as per the design with adhesive fixing with Poly carbonate sheet and necessary fittings etc complete.	Sqm	16.50		
27	Supplying and fixing Stainless steel grade - 304 plate thk 4mm in flooring fixing with necessary fixtures, screws, etc, complete. Size 300 x 300/230 x 230.	Nos	10.00		
28	Providing and fixing center table of size 750mm x 500mm using SS frame with 12mm thk glass top and legs 2" dia pipe support etc..., complete	Nos	1.00		
29	Providing and fixing corner table of size 450mm x 450mm using SS frame with 12mm thk glass top and legs 2" dia pipe support etc..., complete	Nos	3.00		
	TOTAL				



ELECTRICAL WORKS - REPAIRS & RENOVATION OF 4TH FLOOR OF HO MAIN BUILDING

SI No	DESCRIPTION	UNIT	QTY	SUPPLY		ERECTION	
				RATE	AMOUNT	RATE	AMOUNT
	ABBREVIATION : S E T C : Supply, erection, testing & Commissioning. I.T.C : Installation, Testing & Commissioning. E.T.C : Erection, Testing & Commissioning						
I	<u>PART-A DISTRIBUTION BOARDS</u>						
	<u>NOTE :</u>						
a	THE MCB'S IN THE MCB DB SHALL BE OF APPROPRIATE DUTY (CURVE) DEPENDING ON THE CONNECTED LOAD.THE MCB SHALL BE OF 10KA RUPTURING CAPACITY.						
b	THE MCB DB SHALL BE PROVIDED WITH SUITABLE BUS BARS, INTERLINKS, NEUTRAL LINK, EARTH LINKS, EARTH LABELS, DESIGNATION LABELS, COMPARTMENT & INTER-COMPARTMENT SHROUDS ETC. AS PER REGULATORY MEASURES AND THE SIZE OF THE DB's SHALL BE AS PER THE SITE REQUIREMENT / CONDITION. THE DB's SHOULD BE INSTALLED EITHER CONCEALED / SURFACE MOUNTED WITH REQUIRED ACCESSORIES AS PER SITE CONDITION.						
c	THE DB'S SPECIFIED HEREIN UNDER SHALL BE PROVIDED WITH SUITABLE SIZE ADOPTER BOX WITH SHROUDED CONNECTOR SAND WITH INTERCONNECTING SUITABLE SIZE SOLID LINKS / COPPER WIRES TO TAKE THE AL. AR. CABLE AS SPECIFIED ELSE WHERE IN THE TENDER.						
1	S E T C of double door Industrial pattern SPN MCB DB for 4F Lighting load (with C curve MCB's) comprising of :-						
a	1 - 32A 2 Pole MCB as incomer. 6- 6/10A SP MCB as outgoing to loads.	Set	1				
b	1 - 32A 2 Pole MCB as incomer. 14 - 6/10A SP MCB as outgoing to loads.	Set	3				
2	S E T C of compartmental type phase segregated double door industrial pattern MCB DB for 4F Power load (with C curve MCB's) comprising of :-						
a	1 - 63A 4 Pole MCB as incomer.						
	3 - 63A DP 100mA RCCB as phase isolation .						
	24 - 16A/20A SP MCB as outgoing to loads .	Set	2				
3	S E T C of compartmental type phase segregated double door industrial pattern MCB DB for 4F UPS Power load (with C curve MCB's) comprising of :-						
a	1 - 63A 4 Pole MCB as incomer.						
	3 - 63A DP MCB as phase isolation .						
	24 - 16A/20A SP MCB as outgoing to loads .	Set	1				
b	1 - 63A 4 Pole MCB as incomer.						
	3 - 63A DP MCB as phase isolation .						
	36 - 16A/20A SP MCB as outgoing to loads .	Set	1				



SI No	DESCRIPTION	UNIT	QTY	SUPPLY		ERECTION	
				RATE	AMOUNT	RATE	AMOUNT
4	S E T C of VTPN double door industrial pattern MCCB/MCB DB for 4F UPS Power load (with C curve MCCB/MCB's) comprising of :- 1 - 100A 4P MCCB 16KA as incomer. 4 - 63A TP MCB as outgoing to loads. 6 - 32A SP MCB as outgoing to loads.	Set	1				
5	S E T C of compartmental type phase segregated double door industrial pattern MCB DB for 4F AC Power load (with C curve MCB's) comprising of :- 1 - 63A 4 Pole MCB as incomer. 3 - 63A DP MCB as phase isolation . 12 - 16A/20A SP MCB as outgoing to loads .	Set	1				
6	S E T C of VTPN type double door industrial pattern MCCB/MCB DB for 4F Lighting load (with B curve 1 - 63A 4P MCCB 16KA as incomer. 2 - 40A TP MCB as outgoing to loads. 6 - 40A SP MCB as outgoing to loads.	Set	1				
II	<u>PART-B POINT WIRING</u> <u>(WITH MODULAR SWITCHES / SOCKETS)</u>						
1	Supply and wiring for the following Light, Exhaust Fan, 6A independent socket outlets points, using 2.5 Sqmm multi-strand copper conductor 660 Volts Grade ZHFR PVC insulated wires drawn through suitable dia concealed PVC FRLS conduit of thickness not less than 2mm conform to I.S. with all necessary conduit accessories such as junction boxes bends, couplings etc. The wiring for points should include providing 1.5 Sqmm ZHFR PVC insulated Green colour copper conductor wire loop earth, Modular switch/ receptacles mounted insuitable size Phospated MS switch box front plate etc. required to complete the point wiring in full as per IS 732 with latest revision whether or not all materials required specifically brought in here. The specified conduit shallbe laid in roof slab requirement of site condition. The rate shall include embedding pipes, accessories etc, in wall / ceiling including necessary chasing on wall making the surface good etc.The surface conduits Shall be PVC FRLS of 2mm thick of required size.						
	The point rate should include cost of circuit/sub-circuit wiring also (ie) Run of 3R 2.5 Sqmm conductor ZHFR PVC insulated wire drawn through surface PVC FRLS conduit with all conduit accessories from distribution board to switch box and, switch box to switch box & switch box to primary points each circuit shall be limited to 800W or 10 points which ever is less. The circuit wiring should be independent of point wiring (The point wiring length may be considered 6 Mtrs. Length appx.)						
a)	Single light point controlled by one 6A Modular switch all complete.	Pts.	34				
b)	Two light point controlled by one 6A Modular switch all complete.	Pts.	13				



SI No	DESCRIPTION	UNIT	QTY	SUPPLY		ERECTION	
				RATE	AMOUNT	RATE	AMOUNT
C)	Three light point controlled by one 6A Modular switch all complete.	Pts.	3				
d)	Four light point controlled by one 6A Modular switch all complete.	Pts.	2				
2	Supply and wiring for the following group control light points with materials as etc.as initem above 2.5 Sqmm multi-strand copper conductor 660V grade ZHFR wires drawn through suitable dia concealed PVC FRLS conduit of thickness not less than 2mm conform to IS with all necessary conduit accessories such as junction boxes bends, couplings etc. The wiring for points should include providing 2.5 Sqmm ZHFR Green colour copper conductor loop earth, as 'required to complete the point wiring in full as per IS 732 with latest revision whether or not all 'materials required are specifically brought in here or not. The specified conduit shall be laid in roof slab in surface pattern as per requirement of site condition.	Grps	14				
	<u>The rate shall include embedding pipes, accessories etc. in wall / ceiling including necessary chasing on wall making the surface good etc. as per site requirement. The point rate should include cost of circuit /sub-circuit wiring also (ie) Run of 3R 2.5 Sqmm copper conductor ZHFR wire drawn through PVC FRLS conduit of 2mm thickness with all conduit accessories from DB Each circuit shall belimited to 800W (or) 10 Pts. whichever is less. Each of the Secondary point length shall be minimum of 5 Mtrs. Rates shall be quoted as a group taking both the primary (20 mtrs) and the number of Secondary points (1 Pts) in each of the group .(The primary or to secondary and sub-sequent connection shall be in an alternate manner as per Architect/ Consultants instruction.)</u> <u>Emergency light points should be grouped seperately.</u>						
3	Supply and wiring for the following group control light points with materials as etc.as initem above 2.5 Sqmm multi-strand copper conductor 660V grade ZHFR wires drawn through suitable dia concealed PVC FRLS conduit of thickness not less than 2mm conform to IS with all necessary conduit accessories such as junction boxes bends, couplings etc. The wiring for points should include providing 2.5 Sqmm ZHFR Green colour copper conductor loop earth, as 'required to complete the point wiring in full as per IS 732 with latest revision whether or not all 'materials required are specifically brought in here or not. The specified conduit shall be laid in roof slab in surface pattern as per requirement of site condition.	Grps	8				



SI No	DESCRIPTION	UNIT	QTY	SUPPLY		ERECTION	
				RATE	AMOUNT	RATE	AMOUNT
	The rate shall include embedding pipes, accessories etc. in wall / ceiling including necessary chasing on wall making the surface good etc. as per site requirement. The point rate should include cost of circuit /sub-circuit wiring also (ie) Run of 3R 2.5 Sqmm copper conductor ZHFR wire drawn through PVC FRLS conduit of 2mm thickness with all conduit accessories from DB Each circuit shall belimited to 800W (or) 10 Pts. whichever is less. Each of the Secondary point length shall be minimum of 5 Mtrs. Rates shall be quoted as a group taking both the primary (15 mtrs) and the number of Secondary points (3 Pts) in each of the group .(The primary or to secondary and sub-sequent connection shall be in an alternate manner as per Architect/ Consultants instruction.) Emergency light points should be grouped seperately.						
4	Supply and wiring for the following group control light points with materials as etc.as initemabov 2.5 Sqmm multi-strand copper conductor 660V grade ZHFR wires drawn through suitable dia concealed PVC FRLS conduit of thickness not less than 2mm conform to IS with all necessary conduit accessories such as junction boxes bends, couplings etc. The wiring for points should include providing 2.5 Sqmm ZHFR Green colour copper conductor loop earth, as 'required to complete the point wiring in full as per IS 732 with latest revision whether or not all 'materials required are specifically brought in here or not. The specified conduit shall be laid in roof slab in surface pattern as per requirement of site condition.	Grps	11				
	The rate shall include embeddingpipes, accessories etc. in wall / ceiling including necessary chasing on wall making the surface good etc. as per site requirement. The point rate should include cost of circuit /sub-circuit wiring also (ie) Run of 3R 2.5 Sqmm copper conductor ZHFR wire drawn through PVC FRLS conduit of 2mm thickness with all conduit accessories from DB Each circuit shall belimited to 800W (or) 10 Pts. whichever is less. Each of the Secondary point length shall be minimum of 7 Mtrs. Rates shall be quoted as a group taking both the primary (15 mtrs) and the number of Secondary points (6 Pts) in each of the group .(The primary or to secondary and sub-sequent connection shall be in an alternate manner as per Architect/ Consultants instruction.) Emergency light points should be grouped seperately.						



SI No	DESCRIPTION	UNIT	QTY	SUPPLY		ERECTION	
				RATE	AMOUNT	RATE	AMOUNT
5	EMERGENCY LIGHT POINT Supply and wiring for the following group control light points with materials as etc.as in item above 2.5 Sqmm multi-strand copper conductor 660V grade ZHFR wires drawn through suitable dia concealed PVC FRLS conduit of thickness not less than 2mm conform to IS with all necessary conduit accessories such as junction boxes bends, couplings etc. The wiring for points should include providing 2.5 Sqmm ZHFR Green colour copper conductor loop earth, as 'required to complete the point wiring in full as per IS 732 with latest revision whether or not all 'materials required are specifically brought in here or not. The specified conduit shall be laid in roof slab in surface pattern as per requirement of site condition. <u>The rate shall include embedding pipes, accessories etc. in wall / ceiling including necessary chasing on wall making the surface good etc. as per site requirement. The point rate should include cost of circuit /sub-circuit wiring also (ie) Run of 3R 2.5 Sqmm copper conductor ZHFR wire drawn through PVC FRLS conduit of 2mm thickness with all conduit accessories from DB Each circuit shall belimited to 800W (or) 10 Pts. whichever is less. Each of the Secondary point length shall be minimum of 12 Mtrs. Rates shall be quoted as a group taking both the primary (12 mtrs) and the number of Secondary points (4 Pts) in each of the group .(The primary or to secondary and sub-sequent connection shall be in an alternate manner as per Architect/ Consultants instruction.)</u>	Grps	4				
6	Supply and wiring for 3R of 2.5 Sqmm multi-strand ZHFR copper conductor 660V grade wire (one wire shall be of green colour)in ISI marked suitable size PVC FRLS conduit (price excluding of PVC FRLS conduit) with all standard accessories all complete as circuit wiring from LDB to Switch box, small power,AC socket to socket etc..	Mtrs.	560				
7	Supply and fixing 6A 1 Way modular switch and 6A 3pin shuttered modular socket outlet with plug. In the light control switch box itself with necessary wiring. (The size of the light control switch box shall be suitable to accommodate the above with necessary front plate) etc. all complete.	Nos	15				
8	Supply and Fixing of 2 nos of 6A 3 Pin Universal sockets controlled by 16 A switch mounted on suitable modular front plate	Nos	103				
9	Supply and Fixing of 3 nos of 6A 3 Pin Universal sockets controlled by 16 A switch mounted on suitable modular front plate	Nos	27				
10	Supply & fixing of 6A Independent socket outlet point including providing 6A 3 pin Modular shuttered socket outlet controlled by 6A Modular switch.	Nos	157				
11	Supply & fixing 6/16A 5 pin shuttered socket outlet with front plate controled by 16A single way control switch in PVC switch box, accessories as required per site conditions.at locations required. As per site conditions.	Nos	46				



SI No	DESCRIPTION	UNIT	QTY	SUPPLY		ERECTION	
				RATE	AMOUNT	RATE	AMOUNT
12	Supply & fixing of 4 module furniture popup box with the following switch and sockets and accessories etc as required.	Set	6				
	3 Nos-6A 5 pin socket						
	2 Nos - 6A switch						
	1 No-RJ - 45 data socket						
	1 No-RJ -45 Telephone socket						
	1 No-HDMI socket						
13	Supply & fixing of 6 module floor popup box with the following switch and sockets and accessories etc as required.	Set	8				
	3 Nos-6A 5 pin socket						
	2 Nos - 6A switch						
	1 No-RJ - 45 data socket						
	1 No-RJ - 45 Telephone socket						
	1 No-HDMI socket						
14	Supply and Fixing of 1 module USB charging point with all accessories etc as required.	Nos	QRO				
15	Supply and wiring for 2R of 4+1R of 2.5 Sqmm multi-strand FRLS copper conductor 660V grade wire (one wire shall be of green colour) excluding of PVC FRLS conduit with all standard accessories all complete as required for 6/16A power sockets from PDB, AC DB to power circuits etc..	Mtrs.	360				
16	Supply and laying of 3core 2.5 Sqmm copper flexible wire in existing floor race ways required for UPS & RAW power distribution	Mtrs.	4000				
17	Supplying and fixing of following sizes of medium class PVC FRLS conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.						
a	25 mm	Mtrs.	810				
III	<u>PART-C CABLES AND TERMINATIONS</u>						
1	<u>LT CABLES</u>						
1.1	Supply and laying of following sizes of 1.1KV grade XLPE insulated armoured FRLS grade cable with aluminium the cable trays, racks (excluding supply & erection of cable trays / racks) Wherever cable are conductor multistrand cable with ISI markings of approved make and quality from Existing AHU room Panel to various switch boards / Distribution boards . The cable shall be laid in required to be laid on wall, base bracket fitted onto wall / ceiling and necessary clamps/ hardware etc. all complete and the rate for such clamps, hardware shall be included in the scope. Before laying the cable approval for the routing and the manner of laying shall be obtained from the Architect / Owner.						
a	3.5C 150 Sqmm Al. Ar.Cable	Mtrs.	QRO				
b	4C 70 Sqmm Al. Ar.Cable	Mtrs.	60				
c	4C 25 Sqmm Al. Ar.Cable	Mtrs.	280				
d	4C 16 Sqmm Al. Ar.Cable	Mtrs.	150				
e	3C 10 Sqmm Al. Ar.Cable	Mtrs.	130				
f	3C 6 Sqmm Al. Ar.Cable	Mtrs.	40				



SI No	DESCRIPTION	UNIT	QTY	SUPPLY		ERECTION	
				RATE	AMOUNT	RATE	AMOUNT
2.0	LT CABLE TERMINATION						
2.1	Supply and providing cable end termination for following sizes of 1100V grade XLPE insulated armoured FRLS grade aluminium conductor multi-strand cable with necessary gland sand jointing materials etc. all as per requirement.						
a	3.5C 150 Sqmm Al. Ar.Cable	Nos	1				
b	4C 70 Sqmm Al. Ar.Cable	Nos	2				
c	4C 25 Sqmm Al. Ar.Cable	Nos	12				
d	4C 16 Sqmm Al. Ar.Cable	Nos	12				
e	3C 10 Sqmm Al. Ar.Cable	Nos	6				
f	3C 6 Sqmm Al. Ar.Cable	Nos	2				
2.2	Removing Of 150 Sq.mm Al. Ar.Cable Existing Cable & Cutting to the length and Retermination.	LS	1				
3	<u>CABLE TRAY / MARKERS & TERMINAL BOX</u>						
3.1	Design, Fabricating, Supply and Installing varies type MS supports for cable tray to suit to withstand the weight of the number of cables to be laid as per the site requirement. The Supports of cable trays shallbe fabricating out of 25mm x 25mm x 6mm angle iron with necessary welded cross supports of size 25mm x 6mm MS flat (or) 10mm threadred rod with tray support from roof as may be required. The rate shall be include all supporting brackets, Anchor Fastners including epoxy painting of cable trays.	Kgs	1300				
3.2	Supply, erection, testing & commissioning of following sizes of GI ladder type (above 300 mm) / upto 300 perferated type cable trays including Tees, Bends etc. with accessories as required by the site condition.						
a	450mm	Mtre	75				
b	150mm	Mtre	60				
c	100 mm closed tray (For CCTV)	Mtre	150				
d	50 mm closed tray	Mtre	80				
3.3	Cable identification tags made out of round aluminium plates of thickness not less than 3mm and tying with cable with appropriate intravels for cable emenating from individual SSB. The work should be carried out as required by Inspecting Authorities as well as satisfaction of Architect.	Nos.	72				
IV	<u>PART-D EARTH & EARTH CONNECTION</u>						
1	Supply and run of following sizes of copper/ Alu flat from earth electrode to neutral terminals of transformer and other requiried locations as per statutory requirements and neatly clamped to wall, cable tray with necessary hardwares, PVC FRLS conduits at places required as directed by Architects / Consultants.						
a)	25 x 6mm GI. flat.	Mtrs.	270				
b)	No. 8 SWG copper	Mtrs.	200				



SI No	DESCRIPTION	UNIT	QTY	SUPPLY		ERECTION	
				RATE	AMOUNT	RATE	AMOUNT
2	Supplying & providing an earth link made out of copper approximately 450mm long with 25 x 6mm copper flat with 2 Nos.20mm long 3mm dia brass bolt & nut with 30A cable end sockets connected to the main earth strip running along the vertical earth bus in the cable tray, 8 Nos.outgoing connection to be tapped from the strip with 20mm long 3mm dia brass bolt & nut and 30A cable end socket to get connected to the 2 Nos.6 Sqmm multi-stranded copper wire.	Nos.	4				
V	<u>PART-E LUMINARIES</u>						
	General Requirement of Light Fittings:						
	LEDs-LOW POWER ONLY: 2-MECADUM-LEVEL- with manufacturers certificate.						
	Driver : 120V to 270V 50HZ with ISI or CE Certificate. (With Surge Protector of 2.5 to 3KV. along with separate earthing stud.)						
	Lumen Maintenance Certificate: LM-80						
	Lumen test certificate: LM-79						
	System Lumen efficiency: >120 Lm/W						
	CRI : >80						
	THD-I : < 10%						
	Power factor:> 0.9						
	BURNING HOURS : 40000 HOURS-Minimum						
	WARRENTY : 3 years free replacement along with driver						
1	Supply,erection, testing & commissioning suspended (500mm) 1200mm length 36 to 40W LED Tube light fitting to be fitted on to ceiling as per site requirement with necessary frame ,diffuser,driver, interconnecting wires & fixing hardwares etc. , (6500K)	Nos.	10				
2	Supply,erection, testing & commissioning of recessed mounting 28 to 30W LED 2x2 down lighter (above 100 lu/w) with necessary ,driver, interconnecting wires & fixing hardwares etc , (6500K)	Nos.	87				
3	Supply,erection, testing & commissioning of recessed mounting 18W LED down lighter with necessary ,driver, interconnecting wires & fixing hardwares etc , (4000K)	Nos.	9				
4	Supply,erection, testing & commissioning of recessed mounting 15W LED square down lighter with necessary ,driver, interconnecting wires & fixing hardwares etc , (4000K)	Nos.	5				
5	Supply,erection, testing & commissioning of recessed mounting 9W LED spot light with necessary ,driver, interconnecting wires & fixing hardwares etc , (4000K)	Nos.	96				
6	Supply of LED STRIP lights including driver, mounting arrangement, hardwares, etc. The wattage shall not exceed 5W per meter (one driver per three meter)	Mtr	90				
7	Supply of LED STRIP lights including driver, mounting arrangement, hardwares, etc. The wattage shall not exceed 25W per meter(one driver per meter)	Mtr	15				



SI No	DESCRIPTION	UNIT	QTY	SUPPLY		ERECTION	
				RATE	AMOUNT	RATE	AMOUNT
8	Supply,erection, testing & commissioning of PIR Sensors (motion sensor 5 meter coverage area) for the light points to be fitted on to ceiling as per site requirement with necessary frame, diffuser,driver, interconnecting wires & fixing hardwares etc. ,	Nos.	3				
9	Supply, erection,testing & commissioning of circular suspended full diffuser led luminarie of 26W to 34W to be fitted on to ceiling as per site requirement with necessary frame, diffuser,driver, interconnecting wires & fixing hardwares etc. , Orbit LED LM 71-441-xxx-57-xx	Nos.	5				
VI	<u>PART-F LOW VOLTAGE SYSTEM</u>						
1	<u>TELEPHONE & DATA</u>						
	<u>NOTE:</u>						
	1.Qtys are tentative subjected to change based on clients requirement.						
1.1	Supplying and fixing RJ 45 modular type data socket outlet and modular plate in cadmium / GI plated MS box including making connections etc as required.	Each	260				
1.2	Supply and drawing of CAT6 cable in existing surface in floor Raceway complete as required.	Mtrs.	9680				
1.3	Supply and fixing of CAT 6 RJ45 Jack complete as required for data socket.	Each	520				
1.4	Supplying and fixing RJ 45 modular type telephone socket outlet and modular plate in cadmium / GI plated MS box including making connections etc as required.	Each	129				
1.5	Supply and fixing of CAT 6 RJ45 Jack complete as required for telephone socket.	Each	258				
1.6	Supplying and fixing modular type TV socket outlet and modular plate in cadmium / GI plated MS box including making connections etc as required.	Each	4				
2	<u>FLOOR RACEWAYS / CONDUITS</u>						
2.1	Supply, erection, testing & commissioning of in-screed floor raceways consisting of heavy gauge rectangular aluminium anodized pipe sections including chasing and refilling the trench as per the route shown in the drawing and approved by consultant at site including clamping & closing the open pipe ends temporarily by suitable end - covers against entry of dust or any other foreign material.						
a	100 x 40 mm	Mtrs	400				
b	50 x 25 mm	Mtrs	210				
2.2	Supply, erection, testing & commissioning of floor junction boxes with top cover of SS with 3mm thick(Cover alone SS) for above raceways of 2.5mm thick , fabricated out of M.S. sheets fully powder coated with removable screwed cover plates on all four sides for blocking the entry.						
a	75 x 75 x 50 mm	Nos.	84				
b	125 x 125 x 50 mm	Nos.	79				
c	250 x 250 x 50 mm	Nos.	17				
d	350 x 350 x 50 mm	Nos.	15				
e	550 x 550 x 50 mm	Nos.	5				



SI No	DESCRIPTION	UNIT	QTY	SUPPLY		ERECTION	
				RATE	AMOUNT	RATE	AMOUNT
VII	PART-G PANEL						
	<u>4th FLOOR POWER PANEL -Qty- 1No.</u>						
	Supply, erection, testing & commissioning of indoor floor mounting dust & vermin proof cubicle pattern 4th Floor Power Panel fabricated out of 14 /16 SWG CRCA sheet comprising of the following :-						
	1 No. - 200A 4P 25KA MCCB with manual closing mechanism & rotary handle with over current and short circuit protection and with 230V shunt trip releases Aux switch of 1 NO + 1 N/C for contacts multiplication etc. as incomer. spare Auxiliary contact shall be provided for external linking, and provided with an instrument chamber having 1 - Digital type flush mounting power monitor with RS 485 with inbuilt selectors to indicate the following parameters and Current,Voltage,KW, KWHr,P.F,etc.						
	1 Set. - 3 Nos. R, Y, B indicating lamp to indicate supply position.						
	1 Set. - 2 Nos. Red & Green indicating lamp to indicate ON-OFF position of breaker.						
	1 Set . - 50KA Class 1 & 2 Surge Protection Devices with HRC Fuse.						
	3 - Curent transformer of ratio 200/5, class 1, 15 VA burden for metering.						
	1 - Set of control HRC fuses/MCB of suitable rating for indicatiing lamp, meter, control circuit etc.						
	The incoming & outgoing terminal of the MCCB shall have extended to receive cables and this terminal are properly supported so that the stress of the cable does not transfer to MCCB terminal necessary shrouds between phase should also be provided as per OEM.						
	<u>BUSBAR:</u>						
	1 - 200A 4P Bus Bars with Alu. flat with the size having current rating of 0.7A / Sqmm. The bus bars shall be sleeved with colour coded heat be sleeved with colour coded heat shrinkable PVC sleeves with the exception of joint. The bus bars shall be supported at suitable interval with SMC / FRP as per IS.						
	<u>OUTGOINGS:</u>						
	10 Nos. - 63A 4P 10KA MCB of C curve as outgoing.	Set	1				
	TOTAL						
	GRAND TOTAL						



UPS & ALLIED WORKS - REPAIRS & RENOVATION OF 4TH FLOOR OF HO MAIN BUILDING

SI No	DESCRIPTION	UNIT	QTY	SUPPLY		ERECTION	
				RATE	AMOUNT	RATE	AMOUNT
	ABBREVIATION : S E T C : Supply, erection, testing & Commissioning. I.T.C : Installation, Testing & Commissioning. E.T.C : Erection, Testing & Commissioning						
I	PART-A PANELS						
	<u>1 FLOOR PANEL -Qty- 1No.</u>						
	Supply, erection, testing & commissioning of indoor floor mounting dust & vermin proof cubicle pattern 1F Panel fabricated out of 14 /16 SWG CRCA sheet comprising of the following :-	set	1.00				
	1 Set. - 1 No, 400A 4P AC23 On Load Change Over Switch with electrical closing mechanism with A/M SS along with a controller for sensing and switching ON-OFF the COS depending on the available source and also swithcing ON /OFF COS depending the load requirement either locally or from remote. Apart from their own usage 2 NO + 2 N/C auxillary spare contacts shall have to be provided for external linking. Contractors for multiplying the contacts may be employed. Metering & instruments as detailed may also be provided.						
	1 No. - 400A 4P 36KA MCCB with manual closing mechanism & rotary handle with over current and short circuit protection and with 230V shunt trip releases Aux switch of 1 NO + 1 N/C for contacts multiplication etc. as incomer. spare Auxilary contact shall be provided for external linking, and provided with an instrument chamber having 1 - Digital type flush mounting power monitor with RS 485 with inbuilt selectors to indicate the following parameters and Current,Voltage,KW, KWHr,P.F,etc.						
	1 Set. - 3 Nos. R, Y, B indicating lamp to indicate supply position.						
	1 Set. - 2 Nos. Red & Green indicating lamp to indicate ON-OFF position of breaker.						
	1 Set . - 50KA Class 1 & 2 Surge Protection Devices with HRC Fuse.						
	3 - Curent transformer of ratio 400/5, class 1, 15 VA burden for metering.						
	1 - Set of control HRC fuses/MCB of suitable rating for indicatiing lamp, meter, control circuit etc.						
	The incoming & outgoing terminal of the MCCB shall have extended to receive cables and this terminal are properly supported so that the stress of the cable does not transfer to MCCB terminal necessary shrouds between phase should also be provided as per OEM.						
	<u>BUSBAR:</u>						
	1 - 400A 4P Bus Bars with Alu. flat with the size having rating of 0.7A / Sqmm. The bus bars shall be sleeved with colour coded current heat be sleeved with colour coded heat shrinkable PVC sleeves with the exception of joint. The bus bars shall be supported at suitable interval with SMC / FRP as per IS.						
	<u>OUTGOINGS:</u>						
	5 Nos. - 200A TPN 25KA MCCB with FD kit with TM release of OL &SC.						
	4Nos - 63A 4P MCB of C curve						



Sl No	DESCRIPTION	UNIT	QTY	SUPPLY		ERECTION	
				RATE	AMOUNT	RATE	AMOUNT
2	<p><u>OUTGOING UPS PANEL -Qty- 1No.</u></p> <p>Supply, erection, testing & commissioning of indoor floor mounting dust & vermin proof cubicle pattern Incoming UPS Panel fabricated out of 14 /16 SWG CRCA sheet comprising of the following :-</p> <p>3 Nos. - 200A TP+2N 36KA MCCB with manual closing mechanism & rotary handle with over current and short circuit protection and with 230V shunt trip releases Aux switch of 1 NO + 1 N/C for contacts multiplication etc. as incomer. spare Auxilary contact shall be provided for external linking, and each provided with an instrument chamber having</p> <p>1 - Digital type flush mounting power monitor with RS 485 with inbuilt selectors to indicate the following parameters and Current,Voltage,KW,KWHr,P.F, THD V& etc.</p> <p>1 Set. - 3 Nos. R, Y, B indicating lamp to indicate supply position.</p> <p>1 Set. - 2 Nos. Red & Green indicating lamp to indicate ON-position of breaker.OFF</p> <p>1 Set . - 50KA Class 1 & 2 Surge Protection Devices with HRC Fuse.</p> <p>3 - Curent transformer of ratio 400/5, class 1, 15 VA burden for metering.</p> <p>1 - Set of control HRC fuses/MCB of suitable rating for indicating lamp, meter, control circuit etc.</p> <p>The incoming & outgoing terminal of the MCCB shall have extended to receive cables and this terminal are properly supported so that the stress of the cable does not transfer to MCCB terminal necessary shrouds between phase should also be provided as per OEM.</p> <p><u>BUSBAR:</u></p> <p>1 - 400A TP+2N Bus Bars with Alu. flat with the size having current rating of 0.7A / Sqmm. The bus bars shall be sleeved with colour coded heat be sleeved with colour coded heat shrinkable PVC sleeves with the exception of joint. The bus bars shall be supported at suitable interval with SMC / FRP as per IS.</p> <p><u>OUTGOINGS:</u></p> <p>8 Nos. - 100A TP+2N 25KA MCCB with FD kit with TM release of OL &SC.</p>	Set	1.00				
3	<p><u>APFCR Panel -Qty- 2Nos.</u></p> <p>Supply, erection, testing & commissioning of floor/wall mounting dust & vermin proof cubicle pattern noncompartmentalised APFCR Panel fabricated out of 14 /16 SWG CRCA sheet comprising of the following :-</p> <p><u>INCOMER:</u></p> <p>1 No.- 200A TP & N 25KA MCCB with manual closing mechanism with Rotary handle, fitted with over current and short circuit protection and with 433V shunt trip releases Aux switch of 1 NO + 1 N/C for contacts multiplication etc. as incomer and provided with an instrument chamber having</p> <p>1 - 8 stage APFCR Relay.</p> <p>1 - Auto manual selector switch.</p> <p>1 - Digital type flush mounting meter with inbuilt selector to indicate the following parameters suitable for operation with 5A CT secondary.Current, Voltage, Frequency</p> <p>1 Set. - 3 Nos. R, Y, B indicating lamp to indicate supply position.</p> <p>1 Set. - 2 Nos. Red & Green indicating lamp to indicate ON-OFF position of breaker.</p> <p>1 Set. - Amber Breaker trip due to fault indication</p> <p>1Set - Potential protection HRC fuses/MCB of suitable rating for indicating lamp, meter, control circuit etc.</p>	Set	2.00				



Sl No	DESCRIPTION	UNIT	QTY	SUPPLY		ERECTION	
				RATE	AMOUNT	RATE	AMOUNT
	<u>BUSBAR:</u>						
	1 - 200A TP & N Alu. bus bar having a current density of 0.7A per Sqmm and with adequate number of FRP/SMC bus supports at suitable interval as per IS. The busbar shall be PVC sleeved with heat shrinkable colour coded PVC sleeves with the exception of joint.						
	<u>OUTGOINGS:</u>						
	3 Nos. - Capacitor compartment each with 63A TP 10KA MCB with suitably rated having specific duty contactor with accessories etc. all complete for control of 15 KVAR capacitors. ON - OFF push buttons, ON -OFF indicating lamp, provided with a 15 KVar capacitor bank with reactors, control wiring from the APFC relay all complete for proper operation of bringing in or out of the capacitors connected to maintain the Power Factor as stipulated by the supply authorities. As per details given.						
	1 No. - Capacitor compartment each with 63A TP 10KA MCB with suitably rated						
	having specific duty contactor with accessories etc. all complete for control of 10 KVAR capacitors. ON - OFF push buttons, ON -OFF indicating lamp, provided with a 10 KVar capacitor bank with reactors, control wiring from the APFC relay all complete for proper operation of bringing in or out of the capacitors connected to maintain the Power Factor as stipulated by the supply authorities. As per details given.						
	4 No. - Capacitor compartment each with 32A TP 10KA MCB with suitably rated having specific duty contactor with accessories etc. all complete for control of 5 KVAR capacitors. ON - OFF push buttons, ON -OFF indicating lamp, provided with a 5 KVar capacitor bank with reactors, control wiring from the APFC relay all complete for proper operation of bringing in or out of the capacitors connected to maintain the Power Factor as stipulated by the supply authorities. As per details given.						
	The instrument chamber meter /instruments shall be wired with 2.5 Sqmm for CT's & 1.5 Sqmm for other circuits multi-strand copper conductor wire with double sleeving & with appropriate colour code and the terminal ferruled and connected with suitable lugs. The above panel shall be fabricated as per IS and complete with specified bus bar, bus supports, interconnections from bus to MCB, MCB to capacitor banks duly taped or sleeved wirings providing 2 Nos.earth bus with 25 x 6mm Alu. flat, door earthing with braided copper etc. all complete as per IS as acceptable to Architects in conformity with the Local Electrical Inspectorate whether or not all items has brought in this. The board shall be provided with noncompartmental and intercompartment shrouds, terminal extensions for receiving cable, shrouds for terminals etc. The aggregated capacity of each of the bank shall be of 75 KVAR. The board shall be finished with powder coated paint of approved shade after duly treated for rust prevention and applying 2 coats of metal primer.						
	The board shall be provided with necessary warning, feeder designation labels as per IS and as per site requirement and cater to General requirement of switch board specification given in the tender.						



Sl No	DESCRIPTION	UNIT	QTY	SUPPLY		ERECTION	
				RATE	AMOUNT	RATE	AMOUNT
4	S.E.T.C of indoor wall mounting free standing dust & vermin proof cubicle pattern isolator/starter panels with suitable cable adaptor boxes to receive incoming and outgoing cables with proper extended bus and cable supports the scope shall include the necessary mounting / standalone hardwares						
a	200A TPN MCCB 25KA of TM release with FD Kit.	set	3.00				
II	<u>PART-B CABLES AND TERMINATIONS- TRAYS</u>						
1	<u>LT CABLES</u>						
1.1	Supply and laying of following sizes of 1.1KV grade XLPE insulated armoured/unarmoured FRLS grade cable with aluminium/copper conductor multistrand cable with ISI markings of approved make and quality from Existing Main panel/ floor panel to UPS IN/OUT going Panels The cable shall be laid in the cable trays, racks (excluding supply & erection of cable trays / racks) Wherever cable are required to be laid on wall, base bracket fitted onto wall / ceiling and necessary clamps/ hardware etc. all complete and the rate for such clamps, hardware shall be included in the scope. Before laying the cable approval for the routing and the manner of laying shall be obtained from the Architect / Owner.						
a	3.5C 185 Sqmm Al. Ar.Cable	Mtrs.	80.00				
b	3.5C 120 Sqmm Al. Ar.Cable	Mtrs.	105.00				
c	3.5C 95 Sqmm Al. Ar.Cable	Mtrs.	30.00				
d	4R 1C 70 Sqmm Al. Ar.Cable	Mtrs.	15.00				
e	5R x 1C 70 Sqmm CU. flx.Cable	Mtrs.	15.00				
2.0	<u>LT CABLE TERMINATION</u>						
2.1	Supply and providing cable end termination for following sizes of 1100V grade XLPE insulated armoured FRLS grade aluminium conductor multi-strand cable with necessary gland sand jointing materials etc. all as per requirement.						
a	3.5C 185 Sqmm Al. Ar.Cable	Nos	8.00				
b	3.5C 120 Sqmm Al. Ar.Cable	Nos	12.00				
c	3.5C 95 Sqmm Al. Ar.Cable	Nos	4.00				
d	4R 1C 70 Sqmm Al. Ar.Cable	Nos	4.00				
e	5R x 1C 70 Sqmm CU. flx.Cable	Nos	4.00				
3	<u>CABLE TRAY / MARKERS & TERMINAL BOX</u>						
3.1	Design, Fabricating, Supply and Installing varies type MS supports for cable tray to suit to withstand the weight of the number of cables to be laid as per the site requirement. The Supports of cable trays shall be fabricating out of 25mm x 25mm x 6mm angle iron with necessary welded cross supports of size 25mm x 6mm MS flat (or) 10mm threadred rod with tray support from roof as may be required. The rate shall be include all supporting brackets, Anchor Fastners including epoxy painting of cable trays.	Kgs	600.00				
3.2	Supply, erection, testing & commissioning of following sizes of GI ladder type (above 300 mm) / upto 300 perforated type cable trays including Tees, Bends etc. with accessories as required by the site condition.						
a	300mm	Mtre	20.00				
b	150mm	Mtre	30.00				
3.3	Cable identification tags made out of round aluminium plates of thickness not less than 3mm and tying with cable with appropriate intravels for cable emanating from individual SSB. The work should be carried out as required by Inspecting Authorities as well as satisfaction of Architect.	Nos.	64.00				



SI No	DESCRIPTION	UNIT	QTY	SUPPLY		ERECTION	
				RATE	AMOUNT	RATE	AMOUNT
III	PART-C EARTH & EARTH CONNECTION						
4.1	Supply & providing 100mm dia Cast iron earth electrode as per IS 3043 - 1987 including providing necessary char coal salt etc. to the earth pit & constructing necessary masonry work, providing earth pit cover etc. all complete as per IS and as acceptable to Electrical Inspectorate.	Nos	QRO				
a)	As in item 1 above but using maintenance free 80 mm diameter earth electrode of 3 Mtrs length earth.	Nos	4.00				
4.2	Supply and run of following sizes of copper/ Alu/GI flat from earth electrode to neutral terminals of transformer and other required locations as per statutory requirements and neatly clamped to wall, cable tray with necessary hardwares, PVC FRLS conduits at places required as directed by Architects / Consultants.						
a	40mm x 6mm GI flat	Mtrs.	120.00				
b	25 x 6mm GI flat.	Mtrs.	140.00				
c	No. 8 SWG copper	Mtrs.	60.00				
d	25 x 3 mm cu.flat,	Mtrs.	60.00				
4.3	Supplying & providing an earth link made out of copper approximately 450mm long with 25 x 6mm copper flat with 2 Nos.20mm long 3mm dia brass bolt & nut with 30A cable end sockets connected to the main earth strip running along the vertical earth bus in the cable tray, 8 Nos.outgoing connection to be tapped from the strip with 20mm long 3mm dia brass bolt & nut and 30A cable end socket to get connected to the 2 Nos.6 Sqmm multi-stranded copper wire.						
		Nos.	3.00				
	TOTAL						
	GRAND TOTAL						



AIR CONDITIONING WORK - REPAIRS & RENOVATION OF 4TH FLOOR OF HO MAIN BUILDING

SI NO	Description	Unit	Qty	Supply		Installation	
				Rate (Rs.)	Total Amount (Rs.)	Rate (Rs.)	Total Amount (Rs.)
A							
	consists of 100% inverter scroll compressor / Twin Rotary compressors, DC fan motor with aero-spiral fan blade, e-pass heat exchanger, safety valves, solenoid valves, receiver, capillary tube, check valve, electronic expansion valve, high pressure switch, low pressure sensor, pressure regulating valve, refrigerant filter, stop valve, accumulator and refnet kits. Rate inclusive of R-410A refrigerant & oil pre charging, power cable from nearest isolator, vibration isolators, supports, necessary foundation / pedestal works etc. The units shall be selected for Bangalore ambient conditions as specified. The capacities are as mentioned below:-						
1	VRV OUTDOOR UNITS						
a	14 HP	Nos.	1.00				
b	18 HP	Nos.	3.00				
c	20 HP	Nos.	1.00				
2	Design, Supply, Installation, testing and commissioning of Indoor air conditioning units with direct driven fan, high efficient filter, inbuilt microprocessor thermostat, electronic expansion valve, provision of fresh air duct connection, remote controller including cable, drain pump set (for cessette units and hi-static ductable units), necessary ceiling supports & vibration isolators, refrigerant charging, Refnet joints (Refrigerant branch kit) for both liquid and gas line branch kits, oil charging, control wiring, power cable from the nearest socket including plug, and drain connection, etc. The capacities are as mentioned below:-						
i	VRV INDOOR UNITS (CASSETTE)						
a	Cooling Capacity - 1.6 TR (2x2)	Nos.	3.00				
b	Cooling Capacity - 1.6 TR (3x3)	Nos.	14.00				
c	Cooling Capacity - 2 TR	Nos.	2.00				
d	Cooling Capacity - 2.55 TR	Nos.	3.00				
e	Cooling Capacity - 3.2 TR	Nos.	3.00				
e	Cooling Capacity - 4.55 TR	Nos.	6.00				
	SUB TOTAL						
	TOTAL (Supply + Installation) (A)						



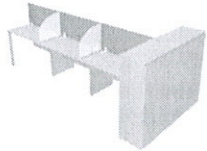

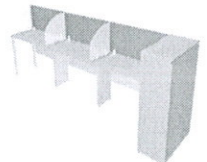

SI NO	Description	Unit	Qty	Rate (Rs.)	Total Amount (Rs.)	Rate (Rs.)	Total Amount (Rs.)
B	LOW SIDE WORKS						
1	Pressure Testing & Pressure holding nitrogen	Lot	1.00	-----			
2	Testing and commissioning of entire system VRV Units and other accessories.	HP	88.00	-----			
3	Supply, Installation, Testing & commissioning of hard/soft drawn refrigeration piping . The brazing to be carried out with bleeding of Nitrogen. The copper Pipes to be insulated with 19mm thick/13mm thick Nitrile rubber sleeves						
	6.4mm dia	Rmt	28.00				
a	9.5mm dia	Rmt	86.00				
b	12.7mm dia	Rmt	43.00				
c	15.9mm dia	Rmt	59.00				
d	19.1mm dia	Rmt	36.00				
e	22.2mm dia	Rmt	33.00				
f	28.6mm dia	Rmt	27.00				
g	34.9mm dia	Rmt	7.00				
h	41.3mm dia	Rmt	24.00				
4	The copper Pipes to be insulated with 19mm thick/13mm thick Nitrile rubber sleeves of GC material	Rmt	343.00				
5	Supply and laying of 3C x 1.5 Sqmm PVC Copper Armoured Cable Communication and Control cabling between indoor and outdoor units. The rate shall be including suitable size MS conduit with conduit accessories and necessary fixing arrangement.	Rmt	286.00				
6	Providing, fixing, testing and commissioning insulated PVC drain piping for indoor unit with 6 mm thick Nitrile Rubber insulation.						
a	32 mm	Rmt	82.00				
b	40 mm	Rmt	QRO				
7	Design, Supply, installation, testing and commissioning of Fresh air Fan Units. The unit shall be double skin 25±5mm thick panel with PUF insulation, belt driven centrifugal fan, High efficiency motor , spring vibration isolator for fan and motor, Fire retardant canvass connections, internal power and control wiring, GI base frame complete as per specifications as required. The cost shall inclusive of starter panel, required power cabling between the starter panel and fans, mounting arrangements, etc.						
a	Air Qty: 1100 CFM, ESP: 15mmWC, With MERV 8 filter	Nos.	1.00				
b	Air Qty: 780 CFM, ESP: 15mmWC, With MERV 8 filter	Nos.	1.00				
8	Supply & installations of hi-density PVC pipe with necessities (Elbow, coupling, tee joints)and supporting materials.						
a	250mm dia with necessorie fittings	Rmt	2.00				
b	200mm dia with necessorie fittings	Rmt	27.00				
c	150mm dia with necessorie fittings	Rmt	23.00				
d	100mm dia with necessorie fittings	Rmt	45.00				



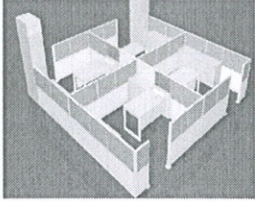
SI NO	Description	Unit	Qty	Rate (Rs.)	Total Amount (Rs.)	Rate (Rs.)	Total Amount (Rs.)
9	Insulated Flexible Ducting						
	The flexible duct shall be made of triple lamination of aluminium foil, polyester and metalised polyester film permanently bonded to a coated spring steel wire helix. The exterior shall be wrapped with 25mm thick 16 kg / cum fibreglass insulation. The outer insulation jacket / vapour barrier made of fibreglass reinforced metalised						
a	100 mm dia	Rmt	32.00				
10	Supply and Erection of ODU Stands for Cassette units	Nos.	5.00				
11	Additional Gas charging -R 410 A	Lot	1.00				
12	Supply and Installation of PVC Pipe for Exposed Pipes	Rmt	59.00				
13	Lifting and shifting of VRV IDU's to the respective floors	Lot	31.00	-----			
14	Lifting and shifting of VRV ODU's to the respective floors	Lot	5.00	-----			
15	Transport charges	Lot	1.00	-----			
16	Anti Corrosive Paints for all the VRV IDU's	Nos.	31.00				
17	Anti Corrosive Paints for all the VRV ODU's	Nos.	5.00				
	SUB TOTAL						
	TOTAL (Supply + Installation) (B)						
	GRANT TOTAL (A+B)						



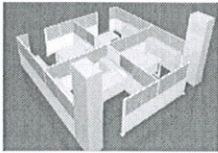
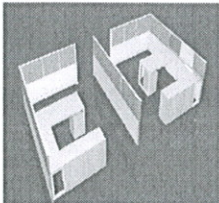
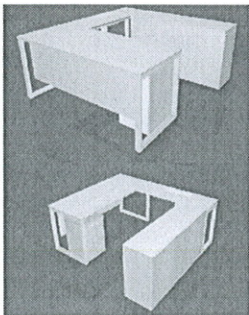
MODULAR FURNITURE WORK - REPAIRS & RENOVATION OF 4TH FLOOR OF HO MAIN BUILDING

Sl. No	Description	Qty.	Unit	Rate (Rs)	Amount	Reference Images
1	<p>LINEAR WORKSTATION - Size 1200W x 600D x 1050HT - BTB</p> <p>Desking System considered Main Privacy screen : 305H 8mm thk Frameless sandwich glass screen fixed to worktop with special metal brackets. Divider screen : 305H 8mm thk Frameless frosted flim glass screen fixed to worktop with special metal brackets. Partition height : 1050H considered from floor level. Table Top - 25mm thk pre laminate table top with PVC edge lipping 3 side and Reverse chamfered edge on user side. Legs :40X40 MS powder coated slant open legs with MS powder coated cross(50x25) member for table support. Modesty: Front powdercoated modesty considered with square perforation below cable beam 300H. Electricals & Data - Powder coated cable beam below the table for wire managment with electricals & data cut outs. Access flap: Not considered Pedestal : Not considered Keboard tray and CPU trolley : Not considered.</p>	82	Nos			 
2	<p>LINEAR WORKSTATION - Size 1200W x 600D x 1050HT - INLINE</p> <p>Desking System considered Main Privacy screen : 305H 8mm thk Frameless sandwich glass screen fixed to worktop with special metal brackets. Divider screen : 305H 8mm thk Frameless frosted flim glass screen fixed to worktop with special metal brackets. Partition height : 1050H considered from floor level. Table Top - 25mm thk pre laminate table top with PVC edge lipping 3 side and Reverse chamfered edge on user side. Legs :40X40 MS powder coated slant open legs with MS powder coated cross(50x25) member for table support. Modesty: Front powdercoated modesty considered with square perforation below cable beam 300H. Electricals & Data - Powder coated cable beam below the table for wire managment with electricals & data cut outs. Access flap: Not considered Pedestal : Not considered Keboard tray and CPU trolley : Not considered.</p>	23	Nos			 

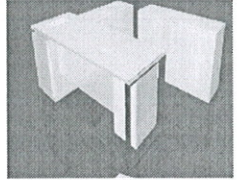
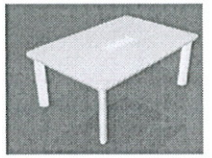
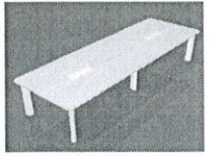
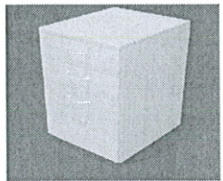


Sl. No	Description	Qty.	Unit	Rate (Rs)	Amount	Reference Images
3	CM CABIN TABLE MAIN : Size 1500W x 750D x 745HT; RETURN STRG - 900W x 450D x 745H	17	Nos			
	Table Top - 25mm thk pre laminate table top with PVC edge lipping Legs :40x40 MS powder coated closed legs with MS powder coated cross member for table support. Modesty: Front powdercoated modesty considered with square perforation below worktop 450H. Electricals & Data - Powder coated cable tray below the table top for wire managment with electricals & data cut outs. Wire managment through MS powder coated vertical duct. Access flap: 450W Aluminium access flap considered 1 nos on table top. Return combo storage - : 900W x 450D x 745H with d handles. Pedestal : Not considered. Keyboard tray and CPU trolley : Not considered.					
4	AGM CABIN TABLE MAIN : Size 1800W x 750D x 745HT; RETURN TBL - 1350W x 450D x 745H ; BACK STRG - 1500W x 450D x 745H	7	Nos			
	Table Top - 25mm thk pre laminate table top with PVC edge lipping Table Top - 25mm thk pre laminate table top with PVC edge lipping. Legs :40x40 MS powder coated closed legs with MS powder coated cross member for table support. Modesty: Front powdercoated modesty considered with square perforation below worktop 450H. Electricals & Data - Powder coated cable tray below the table top for wire managment with electricals & data cut outs. Wire managment through MS powder coated vertical duct. Access flap: 450W Aluminium access flap considered 1 nos on table top. Back - Shutter door strg : 1500W x 450D x 745H with d handles. Pedestal Not Considered Keyboard tray and CPU trolley : Not considered.					

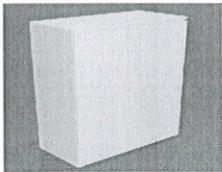
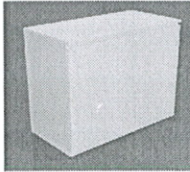
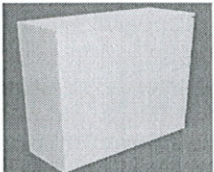
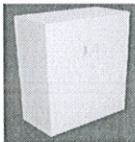


Sl. No	Description	Qty.	Unit	Rate (Rs)	Amount	Reference Images
5	<p>CM , AGM CABIN 50 mm PARTITIONS Height - 1200 mm</p> <p>Partition Height - 1200mm Ht is considered from Floor level Main panel: 50THK-1200H(1st Module Laminate tile front & back; 2nd module- Mdf fabric front & back side considered). Return panel:50 THK - 1200H(1st Module Laminate tile front & back; 2nd module-Mdf fabric front side and back side considered). Special tile - 1 nos MGP fabric and 1 nos laminate marker tile considered in each workstation.Frame Horizontals are made of 1.5mm thick CRCA sheets & the verticals are made of Aluminium Extrusions of 1.5mm thick, All the frames along with 2 - way , 3-way connectors, top curve trims ,caps are duly powder coated using nano powdercoating technologyat colour , powder coating color will be as per Customers choice, which will be inline with the Top trims & end trims All the frames are fastened together by means of M6 NUTS & BOLTS . Raceway caps are made out of Die-cast Aluminum. The raceways are made out of 1.5 mm thick aluminium and with a height of 90 -100 mm powder coated.The electrical raceway can be provided below worktop or above worktop or at skirting level. The free space available within raceway accommodates power, data and communication cables.</p>	135	RMts			 
	<p>The cable can be taken into the Frame from the floor from the bottom. Once the cables enter the Frames , it can be taken from one end to the other end continuously as per Power / LAN layout plan. Number of cables passing from floor would be 26 CAT 6 cables and 10 DIA 10 raw power cable , number of cables passing from one frame to another would be 32 CAT 6 cables and 12 DIA 10 raw power cables.</p>					
6	<p>DGM,CABIN TABLE- MAIN : Size 1800W x 750D x 745HT; RETURN TBL - 1350W x 450D x 745H ; BACK STRG - 1500W x 450D x 745H</p>	2	Nos			
	<p>Table Top - 25mm thk pre laminate table top with PVC edge lipping. Legs :40x40 MS powder coated closed legs with MS powder coated cross member for table support. Modesty: Front powdercoated modesty considered with square perforation below worktop 450H. Electricals & Data - Powder coated cable tray below the table top for wire managment with electricals & data cut outs. Wire managment through MS powder coated vertical duct. Access flap: 450W Aluminium access flap considered 1 nos on table top. Back - Shutter door strg : 1500W x 450D x 745H with d handles. Pedestal : BBF Prelam pedestal with D handles & castors - 400W x 470D x621H. Keboard tray and CPU trolley : Not considered.</p>					



Sl. No	Description	Qty.	Unit	Rate (Rs)	Amount	Reference Images
7	GM CABIN TABLE - MAIN : Size 2100W x 750D x 745HT; RETURN TBL - 1500W x 450D x 680H ; BACK STRG - 1500W x 450D x 745H	1	Nos			
	Table Top - 25mm thk pre laminate table top with PVC edge lipping. Legs : MS powder coated closed MINI TRIA legs with MS powder coated cross member for table support. Modesty: Front Acrylic modesty considered below worktop 400H. Electricals & Data - Powder coated cable tray below the table top for wire managment with electricals & data cut outs. Wire managment through MS powder coated vertical duct. Access flap: 300W Aluminium access flap considered 1 nos on table top. Side storage - Shutter + open strg : 1350W x 450D x 680H with I handles. Back - Shutter door strg : 1500W x 450D x 745H with I handles. Pedestal : BBF Prelam pedestal with I handles & castors - 400W x 470D x 621H. Keboard tray and CPU trolley : Not considered.					
8	MEETING TABLE TYP 1 - 1800W x 1100D x 729H	1	Nos			
	Worktop : 25thk Prelaminated top with access flap cutouts. Height of the Tabletop - 729mm Ht is considered from Floor level Leg: Powder coated ALUMINIUM leg considered. Accessflap: 450w 1nos Aluminium make considered. Electricals & Data - Powder coated cable tray below the table top for wire managment with electricals & data cut outs. Wire managment through legs.					
9	MEETING TABLE TYP 2 - 3600W x 1200D x 729H	2	Nos			
	Worktop : 25thk Prelaminated top with access flap cutouts. Height of the Tabletop - 729mm Ht is considered from Floor level Leg: Powder coated ALUMINIUM leg considered. Accessflap: 450w 2nos Aluminium make considered. Electricals & Data - Powder coated cable tray below the table top for wire managment with electricals & data cut outs. Wire managment through legs.					
10	3D BBF PRELAM PEDESTAL - 400W x 470D x 620H	128	Nos			
	PRELAM PDSL TOP : 18 MM THK. PRELAM TABLE TOP WITH 2 MM THK. FLAT EDGE PVC LIPPING. BODY & DOOR : 18 MM THK. PRELAM TABLE TOP WITH 2 MM THK. FLAT EDGE PVC LIPPING. DOOR TYPE : DRAWER . HANDLES : 'D' SHAPE. LOCK : CENTER LOCK. REST ON : CASTORS .					



Sl. No	Description	Qty.	Unit	Rate (Rs)	Amount	Reference Images
11	PRELAM STORAGE MEDIUM HEIGHT - 900W x 450D x 1200H PRELAM STORAGE TOP : 18 MM THK. PRELAM TABLE TOP WITH 2 MM THK. FLAT EDGE PVC LIPPING. BODY & DOOR : 18 MM THK. PRELAM TABLE TOP WITH 2 MM THK. FLAT EDGE PVC LIPPING. DOOR TYPE : SHUTTER . HANDLES : TOP GROVE. LOCK : MULTIPURPOSE LOCK. SHELF : 2 NOS (1 ADJUSTABLE & 1 FIXED).	18	Nos			
12	PRELAM STORAGE LOW HEIGHT - 900W x 450D x 750H - INSIDE CM ROOM PRELAM STORAGE TOP : 18 MM THK. PRELAM TABLE TOP WITH 2 MM THK. FLAT EDGE PVC LIPPING. BODY & DOOR : 18 MM THK. PRELAM TABLE TOP WITH 2 MM THK. FLAT EDGE PVC LIPPING. DOOR TYPE : SHUTTER . HANDLES : TOP GROVE. LOCK : MULTIPURPOSE LOCK. SHELF : 1NOS .	24	Nos			
13	PRELAM STORAGE MEDIUM HEIGHT - 1150W x 450D x 1200H - NEAR CM CABIN PRELAM STORAGE TOP : 18 MM THK. PRELAM TABLE TOP WITH 2 MM THK. FLAT EDGE PVC LIPPING. BODY & DOOR : 18 MM THK. PRELAM TABLE TOP WITH 2 MM THK. FLAT EDGE PVC LIPPING. DOOR TYPE : SHUTTER . HANDLES : TOP GROVE. LOCK : MULTIPURPOSE LOCK. SHELF : 2 NOS (1 ADJUSTABLE & 1 FIXED).	10	Nos			
14	ERIC METAL STORAGE - 900W x 450D x 1200H ERIC METAL STORAGE TOP : CRCA POWDERCOATED. BODY & DOOR : CRCA POWDERCOATED. DOOR TYPE : SHUTTER . HANDLES : FLUSH TYPE. LOCK : MULTIPURPOSE LOCK. SHELF : 2 NOS (1 ADJUSTABLE & 1 FIXED).	10	Nos			
15	METAL KEY BOARD TRAY WITHOUT MOUSE PAD	128	Nos			
16	METAL CPU TROLLY WITH CASTORS	128	Nos			
	TOTAL					

