

66, RAJAJI SALAI, CHENNAI 600001

Through electronic mode only

Date: 09.04.2021

ABSTRACT		
REPAIRS & RENOVATION OF 3RD FLOOR, INDIAN BANK, H.O. MAIN BUILDING AT 66, RAJAJI SALAI, CHENNAI		
Sl No	Description	Amount (Rs.)
1	Civil work	
2	Interior work	
3	Electrical work	
4	Airconditioning work	
5	Networking & Accessories	
6	Modular Furniture work	
	Total	



CIVIL WORK ESTIMATE					
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 3rd floor, carting away from the site etc, complete.	Sqm	110.00		
2	Dismantling the wall of 9" & above thickness B.W in wall removing the debris from 3rd floor, carting away from the site etc, complete.	Cum	15.00		
3	Removing the Existing wall & floor Tile/Mosaic flooring with cement mortar removing the debris from 3rd floor, carting away the waste from site.	Sqm	820.00		
4	Charges for Chipping the existing ceiling area and at carting away the debris as instruction given by Engineer in charge.	Sqm	100.00		
5	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				
6	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	10.00		
7	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 fixturers , curing etc . all complete as per specifications and as directed by the Architects.	Sqm	27.00		
8	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 admixturers 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	2.00		



CIVIL WORK ESTIMATE					
S.No	Description	Unit	Qty	Rate	Amount
9	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	7.00		
10	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	250.00		
11	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	120.00		
12	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	100.00		
13	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	600.00		



CIVIL WORK ESTIMATE					
S.No	Description	Unit	Qty	Rate	Amount
14	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	15.00		
15	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		
16	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 & panelling cost included).	Sqm	120.00		
17	Providing and fixing (thickness as per drawing) 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	76.50		
18	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	2.00		
19	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		



CIVIL WORK ESTIMATE					
S.No	Description	Unit	Qty	Rate	Amount
20	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 Brushbond RFX (acrylic polymer cementitious coating from water proofing material) on the sunken slab after proper surface preparation and pressure grouting if required.	Sqm	3.00		
	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.				
	Plumbing work				
21	Supplying, Installing, testing and commissioning of approved make kitchen sink with single bowl &single drain board made of Stainless steel 1 No.40mmdia CP bottle trap with extension pipe,CPwallflange, CPwaste coupling, 1No. 15mm dia C.P sink cock unit wall mounted type with 2 nos swinging spout, C.I.brackets etc.,complete. Kichen Sink : Make Nirali 600mmx 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		
22	Supplying, laying, jointing, testing and commission-ing approved make UPVC pipes SWR gradeconfirming to IS 13592 Class "B" with rubber ring jointsconfirming to IS 5382. The quoted rate shallincludenecessary fittings like Tees, Bends,Offsetsetc., 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		
23	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 chasedsurfaces (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		
24	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 plastichinges,C.I. chair bracket etc., complete. Make : Hindware White - 92051 - Essence	Nos	1.00		



CIVIL WORK ESTIMATE					
S.No	Description	Unit	Qty	Rate	Amount
25	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		
26	Supplying and fixing Geberit Alpha Kombifix Tank with necessary fittings etc. complete. Make Geberit 110.120.00.1	Nos	1.00		
27	Supply of Geberit Push Plate with necessary fittings etc. complete. Make: Geberit Alpha 15 Shinny Push Plate 115.045.21.1	Nos	1.00		
28	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		
29	Supply and fixing mirror using 6mm imported mirror over 12mm thk bison board alround wooden bleeding with polish finish etc.complete	Sqm	0.45		
30	Supply,Fixing approved make C.P.Towel ring, Paper holder including C.P.screws etc.,complete.	Nos	1.00		
31	Supplying and fixing Enox shutter in counter Wash basin area with necessary harware fittings etc., complete	Nos	1.00		
32	Dismantling, removing, cleaning and carting away from the site for materials under buy back such as wooden /aluminium, false ceiling, partitions of all types, existing steel windows doors with frames and other demolition materials, electrical fittings, wiring, AC ducts etc as identified by bank officials/Architects Rate Should be inclusive of GST 5%	LS	1.00		
TOTAL					



INTERIOR WORK ESTIMATE

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	400.00		
1.a	All the specifications are same as above for Curved Surfaces with necessary fittings and fixtures etc. complete, (attached drawings)	Sqm	260.00		
2	Providing and fixing of "Daiken" Mineral Fiber Ceiling Tiles, with hot dipped galvanized steel grid work, surface chemically cleaned capping pre-finished in baked polyester paint, Main Tees of size 35 (H) x 14.5 mm every 1.2 m centre to centre, stitched Cross Tee at 0.6 m centre to centre to form a grid of size 600 X 600 mm and suspending the grid from RCC roof using 3 mm GI rod, 6 mm nylon rawl plug and 6mm J bolt at every 1200 mm intervals. And laying "Daiken Mineral Fiber Acoustic Ceiling Tiles (New Venus) of size 60x 600 x 15 mm OCR over the formed grid having fire rating of 60 minutes as per BS 47G / 23 of 1987. Light Reflection of > 85%. Noise Reduction Coefficient (NRC) of 0.70, Sound Attenuation of 32 db, K = 0.52-0.57 W/mk. Humidity Resistance up to 99% at 50°C. (DAIKEN" 5/8" New Venus Mineral Fiber Ceilings with "CKM" UDT Black Regress 14.5 x 35 mm T Bars)	Sqm	265.00		
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	8.00		
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	5.00		
PARTITION					



Sl No	Description	Unit	Quantity	Rate	Amount
5	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	20.00		
6	Providing and fixing full height 10mm thick Indowud 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	375.00		
7	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 Gobain.	Sqm	31.00		
8	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 Gobain	Sqm	6.50		



Sl No	Description	Unit	Quantity	Rate	Amount
9	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	150.00		
10	Supply and fixing column panelling 50 x 25mm aluminium frame with 19mm Indowud 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		
11	Supply and fixing panelling 50 x 25mm aluminium frame with 19mm thick Indowud 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	165		
12	Supply and fixing writing PU coated 6mm thk glass over 6mm thick Indowud 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		
13	Supply and fixing 12mm tk 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	12.00		
14	Providing and fixing of lobby main entry door ply boxing of size 9" using 19mm thk ply wood with laminate finish with necessary frames & fixtures etc. complete as shown in the drawing.	Sqm	13.00		
15	Providing and fixing wooden door frame (2nd class burma teakwood) of size matched to 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	29.00		



Sl No	Description	Unit	Quantity	Rate	Amount
16	Supplying and fixing Full Height Storage 0.38m deep using BWR 19mm plywood 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	50.00		
17	Supplying and Fixing Countertop in Pantry 0.6 m deep using 19mm tk Kadappa Slab at the bottom and 19mm tk 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.	Sq.m	4.10		
18	Supply and fixing Vertical blinds for windows using necessary fittings. (Sheer out) (Fabric cost Rs. 1500/Sq. Mtr.)	Sq.m	135.00		
	Painting work				
19	Prepare surfaces of painting apply one coat of primer, 2 coats of putty and two coats paint 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	740.00		
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	360.00		
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	500.00		
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	820.00		
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	22.00		
24	Providing and Fixing frosted film in glass with necessary fixtures design and drawings as mentioned etc., complete.	Sqm	20.00		
25	Supplying and fixing carpet flooring SHAW / equivalent carpet (Basic cost Rs. 1500 /- per sqm) over 5mm thk U - form finish.etc complete.	Sqm	240.00		
	TOTAL				



**BILL OF QUANTITIES FOR PROVIDING ELECTRICAL WORKS FOR
M/S INDIAN BANK 3RD FLOOR AT CHENNAI.**

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 DISTRIBUTION BOARDS						
	NOTE :						
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, COMPART- MENT & 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 INTERCONNECT- ING 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 3F 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 3F 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 3F 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 .						
	36 - 16A/20A SP MCB as outgoing to loads .	Set	2				
4	S E T C of VTPN double door industrial pattern MCCB/MCB DB for 3F 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 3F 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	2				



BILL OF QUANTITIES FOR PROVIDING ELECTRICAL WORKS FOR							
6	S E T C of compartmental type phase segregated double door industrial pattern MCB DB for 1F Lighting, Power & AC load (with C curve MCB's) comprising of :-						
	1 - 63A 4 Pole MCB as incomer.						
	3 - 63A DP MCB as phase isolation .						
	9 - 16A/20A SP MCB as outgoing to loads .						
	3 - 6A/10A SP MCB as outgoing to loads .	Set	1				
7	S E T C of VTPN type double door industrial pattern MCCB/MCB DB for 3F Lighting load (with B curve MCCB/MCB's) comprising of :-						
	1 - 125A 4P MCCB 16KA as incomer.						
	2 - 63A TP MCB as outgoing to loads.						
	6 - 40A SP MCB as outgoing to loads.	Set	1				
8	S E T C of VTPN type double door industrial pattern MCCB/MCB DB for 3F AC load (with B curve MCCB/MCB's) comprising of :-						
a	1 - 125A 4P MCCB 16KA as incomer.						
	6 - 63A TP MCB as outgoing to loads.	Set	1				
b	1 - 125A 4P MCCB 16KA as incomer.						
	8 - 63A TP MCB as outgoing to loads.	Set	1				
	PART-A SUB-TOTAL						
II	PART-B POINT WIRING						
	(WITH MODULAR SWITCHES / SOCKETS)						
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 shall be 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.	33				
b)	Two light point controlled by one 6A Modular switch all complete.	Pts.	9				
c)	Three light point controlled by one 6A Modular switch all complete.	Pts.	12				
d)	Four light point controlled by one 6A Modular switch all complete.	Pts.	10				
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. 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						



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	Each circuit shall belimited to 800W (or) 10 Pts. whichever is less. Each of the				
	Secondary point length shall be minimum of 4 Mtrs. Rates shall be quoted as a group				
	taking both the primary (13 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.) Emergency light points should be grouped				
	seperately.	Grps	10		
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. 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 4.5 Mtrs. Rates shall be quoted as a group				
	taking both the primary (12 mtrs) and the number of Secondary points (2 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.	Grps	6		
4	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. 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.	Grps	1		
5	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. 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 (12 mtrs) and the number of Secondary points (7 Pts) in each				



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	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.			
		Grps	6	
6	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. 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 10 Mtrs. Rates shall be quoted as a group taking both the primary (11 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.			
		Grps	2	
7	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.	890	
8	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	6	
9	Supply and Fixing of 2 nos of 6A 3 Pin Universal sockets controlled by 16 A switch mounted on suitable modular front plate	Nos	120	
10	Supply and Fixing of 3 nos of 6A 3 Pin Universal sockets controlled by 16 A switch mounted on suitable modular front plate	Nos	25	
11	Supply & fixing of 6A Independent socket outlet point including providing 6A 3 pin Modular shuttered socket outlet controlled by 6A Modular switch.	Nos	185	
12	Supply & fixing 6/16A 5 pin shuttered socket outlet with front plate controlled by 16A single way control switch in PVC switch box, accessories as required per site conditions.at locations required. As per site conditions.	Nos	35	
13	Supply & fixing 16A 5 pin shuttered socket outlet with front plate controlled by 16A single way control switch in PVC switch box, accessories as required per site conditions.at locations required. As per site conditions	Nos	10	
14	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			



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15	Supply & fixing of 6 module floor popup box with the following switch and sockets and accessories etc as required.	Set	4				
	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						
16	Supply and Fixing of 1 module USB charging point with all accessories etc as required.	Nos	qro				
17	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.	370				
18	Supply and laying of 3core 2.5 Sqmm copper flexible wire in existing floor race ways required for UPS & RAW power distribution	Mtrs.	4035				
19	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.	1105				
PART-B SUB-TOTAL							
III PART-C CABLES AND TERMINATIONS							
1	LT CABLES						
1.1	Supply and laying of following sizes of 1.1KV grade XLPE insulated armoured FRLS grade cable with aluminium 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 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 120 Sqmm Al. Ar.Cable	Mtrs.	120				
b	3.5C 70 Sqmm Al. Ar.Cable	Mtrs.	240				
c	4C 70 Sqmm Al. Ar.Cable	Mtrs.	65				
d	4C 25 Sqmm Al. Ar.Cable	Mtrs.	225				
e	4C 16 Sqmm Al. Ar.Cable	Mtrs.	250				
f	4C 10 Sqmm Al. Ar.Cable	Mtrs.	260				
g	3C 10 Sqmm Al. Ar.Cable	Mtrs.	120				
h	3C 6 Sqmm Al. Ar.Cable	Mtrs.	45				
i	1C 70 Sqmm CU. flx.Cable	Mtrs.	110				



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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 120 Sqmm Al. Ar.Cable	Nos	6			
b	3.5C 70 Sqmm Al. Ar.Cable	Nos	8			
c	4C 70 Sqmm Al. Ar.Cable	Nos	2			
d	4C 25 Sqmm Al. Ar.Cable	Nos	10			
e	4C 16 Sqmm Al. Ar.Cable	Nos	14			
f	4C 10 Sqmm Al. Ar.Cable	Nos	8			
g	3C 10 Sqmm Al. Ar.Cable	Nos	6			
h	3C 6 Sqmm Al. Ar.Cable	Nos	2			
i	1C 70 Sqmm CU. flx.Cable	Nos	18			
3	CABLE TRAY / MARKERS & TERMINAL BOX					
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	100			
b	300mm	Mtre	100			
c	150mm	Mtre	20			
d	100 mm closed tray (For CCTV)	Mtre	110			
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.	74			
	PART-C SUB-TOTAL					
IV	PART-D EARTH & EARTH CONNECTION					
1						



BILL OF QUANTITIES FOR PROVIDING ELECTRICAL WORKS FOR						
	Supply, installation, testing & commissioning of maintenance free earth electrode 48MM dia, 3mts long, Zinc coated pipe in pipe Electrode Highly conductive non corrosive nature crystalline material along with electrode moisture booster back fill compound of 50KGs filled surround the pipe complete with all as mentioned in the technical specification. The rate include all connected civil work. A brick work masonry shall be constructed of size 450x450x600mm with CI heavy duty cover with lifting arrangement					
	Electrodite 25kg -2bags each Pit)					
	NOTE: The job includes submitting test report of resistance of the new earth pit.					
		Nos	8			
3	Supply and run of following sizes of copper/ Alu 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)	25 x 6mm GI. flat.	Mtrs.	350			
b)	No. 8 SWG copper	Mtrs.	110			
4	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			
PART-D SUB-TOTAL						
V	PART-E LUMINARIES					
	General Requirement of Light Fittings:					
	LEDs-LOW POWER ONLY: 2-MECADUM-LEVEL- with manufacturers certificate.					
	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 : 1 years free replacement along with driver					
1	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.	70			
2	Supply, erection, testing & commissioning of recessed mounting 18W LED down lighter with necessary ,driver, interconnecting wires & fixing hardwares etc , (4000K)	Nos.	82			
3	Supply, erection, testing & commissioning of recessed mounting 9W LED spot light with necessary ,driver, interconnecting wires & fixing hardwares etc , (4000K)	Nos.	71			
4	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	55			



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5	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.	2			
	PART-E SUB-TOTAL					
VI	PART-F LOW VOLTAGE SYSTEM					
1	TELEPHONE & DATA					
	NOTE:					
	1.Qtys are tentative subjected to change based on clients requirement.					
1.1	Supply and drawing of CAT6 cable in existing surface in floor Raceway complete as required.	Mtrs.	9625			
1.2	Supplying and fixing modular type TV socket outlet and modular plate in cadmium / GI plated MS box including making connections etc as required.	Each	3			
2	FLOOR RACEWAYS / CONDUITS					
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	380			
b	50 x 25 mm	Mtrs	180			
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.	82			
b	125 x 125 x 50 mm	Nos.	66			
c	250 x 250 x 50 mm	Nos.	21			
d	500 x 500 x 50 mm	Nos.	6			
e	550 x 550 x 50 mm	Nos.	6			
	PART-F SUB-TOTAL					
VII	PART-G PANEL					
1	EXISTING PANEL.					
	Supply, erection, testing & commissioning of adding Current Transformer in existing panel for power factor sensing comprising of following :-					
	INCOMER :					
	1 No.- Current transformer of ratio 300/5A Class 0.5, 15 VA for power f	Set	1			
2	3F APFCR Panel -Qty- 1No.					
	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 :-					
	INCOMER;					



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1 No.-	125A 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								
	1 - 8 stage APFCR Relay.								
	1 - Auto manual selector switch.								
	1 - Digital type flush mounting meter with inbuilt selector to indicate the following parameters suitable for operation with 5A CT secondary.								
	Current, Voltage, Frequency								
	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. - Amber Breaker trip due to fault indication								
	1Set - Potential protection HRC fuses/MCB of suitable rating for indicating lamp, meter, control circuit etc.								
	BUSBAR:								
	1 - 125A 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.								
	OUTGOINGS:								
1 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.								
2 Nos. -	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.								
1 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.								
1 No. -	Capacitor compartment each with 32A TP 10KA MCB with suitably rated having specific duty contactor with accessories etc. all complete for control of 4 KVAR capacitors. ON - OFF push buttons, ON -OFF indicating lamp, provided with a 4 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 32A TP 10KA MCB with suitably rated having specific duty contactor with accessories etc. all complete for control of 3 KVAR capacitors. ON - OFF push buttons,								



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	ON -OFF indicating lamp, provided with a 3 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 32A TP 10KA MCB with suitably rated				
	having specific duty contactor with accessories etc. all				
	complete for control of 2 KVar capacitors. ON - OFF push buttons,				
	ON -OFF indicating lamp, provided with a 2 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 32A TP 10KA MCB with suitably rated				
	having specific duty contactor with accessories etc. all				
	complete for control of 1 KVar capacitors. ON - OFF push buttons,				
	ON -OFF indicating lamp, provided with a 1 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.	Set	1		
PART-G	SUB-TOTAL				
	TOTAL				



HVAC WORK FOR INDIAN BANK - 3RD FLOOR

Sl No	Description	Unit	Qty	Unit Rate (in Rs.)	Total Amount (in Rs.)	installatio n price	Total Amount (in Rs.)
A							
1							
	Supply, Installation, testing and commissioning of Outdoor units 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 Chennai ambient conditions as specified. The capacities are as mentioned below:-						
1	VRV OUTDOOR UNITS						
a	14 HP	Nos.	2				
b	16 HP	Nos.	3				
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.	8				
b	Cooling Capacity - 2.0 TR	Nos.	3				
c	Cooling Capacity - 2.55 TR	Nos.	5				
d	Cooling Capacity - 3.2 TR	Nos.	4				
e	Cooling Capacity - 4 TR	Nos.	5				
	SUB TOTAL						
B	LOW SIDE WORKS						
1	Pressure Testing & Pressure holding nitrogen	Lot	1				
2	Testing and commissioning of entire system VRV Units and other accessories.	HP	76				
3	Supply, Installation, Testing & commissioning of hard/soft drawn refrigeration piping . The copper brazing to be carried out with bleeding of Nitrogen.						
	6.4mm dia	Rmt	15				
a	9.5mm dia	Rmt	80				
b	12.7mm dia	Rmt	40				
c	15.9mm dia	Rmt	62				



d	19.1mm dia	Rmt	28				
e	22.2mm dia	Rmt	20				
f	28.6mm dia	Rmt	38				
g	34.9mm dia	Rmt	7				
h	41.3mm dia	Rmt	11				
4	The copper Pipes to be insulated with 19mm thick/13mm thick Nitrile rubber sleeves	Rmt	300				
5	Supply and laying of 2C x 1.5 Sqmm PVC Copper 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				
6	Providing, fixing, testing and commissioning insulated PVC drain piping for indoor unit with 6 mm thick Nitrile Rubber insulation.						
a	32 mm	Rmt	80				
b	40 mm	Rmt	60				
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				
b	Air Qty: 780 CFM, ESP: 15mmWC, With MERV 8 filter	Nos.	1				
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				
b	200mm dia with necessorie fittings	Rmt	27				
c	150mm dia with necessorie fittings	Rmt	23				
d	100mm dia with necessorie fittings	Rmt	45				
9	Insulated Flexible Ducting						
	The flexible duct shall me made of triple lamination of aluminium foil, polyester and metalised polyester film permanently bonded to a coated spring steel wire helix. The exterior shal be wrapped with 25mm thick 16 kg / cum fibreglass insulation. The outer insulation jacket / vapour barrier made of fibreglass reinforced metalised polyester film laminate.						
a	100 mm dia	Rmt	32				
10	Supply and Erection of ODU Stands	Nos.	5				
11	Additional Gas charging -R 410 A	Lot	1				
12	Supply and Installation of PVC Pipe for Exposed Pipes	Rmt	76				
13	Lifting and shifting of VRV IDU's to the respective floors	Lot	25				
14	Lifting and shifting of VRV ODU's to the respective floors	Lot	5				
15	Transport charges	Lot	1				
16	Anti Corrosive Paints for all the VRV IDU's	Nos.	25				
17	Anti Corrosive Paints for all the VRV ODU's	Nos.	5				



	SUB TOTAL						

DX Unit - 3rd Floor

1	Design, Supply, Installation, testing and commissioning of Indoor and outdoor units with direct driven fan, high efficient filter, inbuilt microprocessor thermostat, electronic expansion valve, provision of fresh air duct connection, remote controller including cable, necessary ceiling supports & vibration isolators, oil charging, control wiring, power cable from the nearest socket including plug, and drain connection, etc. The capacities are as mentioned below:-						
1	NON VRV UNITS						
a	Non inverter Cooling Capacity - 3.8TR	Nos.	4				
	SUB TOTAL						
B	LOW SIDE WORKS						
1	Pressure Testing & Pressure holding nitrogen	Nos	4				
2	Supply, Installation, Testing & commissioning of hard/soft drawn refrigeration piping . The brazing to be carried out with bleeding of Nitrogen.						
a	9.5mm dia	Rmt	101				
b	15.9mm dia	Rmt	101				
3	The copper Pipes to be insulated with 19mm thick/13mm thick Nitrile rubber sleeves	Rmt	202				
4	Supply and laying of Copper 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	122				
5	Providing, fixing, testing and commissioning insulated PVC drain piping for indoor unit with 6 mm thick Nitrile Rubber insulation.						
a	32 mm	Rmt	45				
b	40 mm	Rmt	20				
6	Supply and Erection of ODU Stands	Nos.	4				
7	Supply and Installation of PVC Pipe for Exposed Pipes	Rmt	35				
8	Lifting and shifting of NON VRV IDU's to the respective floors	Lot	4				
9	Lifting and shifting of NON VRV ODU's to the respective floors	Lot	4				
10	Anti Corrosive Paints for all the NON VRV IDU's	Nos.	4				
11	Anti Corrosive Paints for all the NON VRV ODU's	Nos.	4				
	SUB TOTAL						



A	DX unit 1st floor						
1							
2	Design, Supply, Installation, testing and commissioning of Indoor and outdoor units with direct driven fan, high efficient filter, inbuilt microprocessor thermostat, electronic expansion valve, provision of fresh air duct connection, remote controller including cable, necessary ceiling supports & vibration isolators, oil charging, control wiring, power cable from the nearest socket including plug, and drain connection, etc. The capacities are as mentioned below:-						
i	NON VRV UNITS						
a	Non Inverter Hiwall Split - 1 TR	Nos.	2				
	Non Inverter Hiwall Split - 1.5 TR	Nos.	2				
	Non Inverter Hiwall Split - 1.8 TR	Nos.	2				
	SUB TOTAL						
	TOTAL						
B	LOW SIDE WORKS						
1	Pressure Testing & Pressure holding nitrogen	Nos	6				
3	Supply, Installation, Testing & commissioning of hard/soft drawn refrigeration piping . The brazing to be carried out with bleeding of Nitrogen.						
	6.4mm dia	Rmt	63				
	9.5mm dia	Rmt	10				
b	12.7mm dia	Rmt	53				
4	The copper Pipes to be insulated with 19mm thick/13mm thick Nitrile rubber sleeves	Rmt	126				
5	Supply and laying of 2C x 1.5 Sqmm PVC Copper 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	88				
6	Providing, fixing, testing and commissioning insulated PVC drain piping for indoor unit with 6 mm thick Nitrile Rubber insulation.						
a	32 mm	Rmt	28				
b	40 mm	Rmt	10				
10	Supply and Erection of ODU Stands	Nos.	6				
12	Supply and Installation of PVC Pipe for Exposed Pipes	Rmt	10				
13	Lifting and shifting of Non VRV IDU's to the respective	Lot	6				
14	Lifting and shifting of Non VRV ODU's to the respective	Lot	6				
16	Anti Corrosive Paints for all the Non VRV IDU's	Nos.	6				
17	Anti Corrosive Paints for all the Non VRV ODU's	Nos.	6				
	SUB TOTAL						
	TOTAL						





CCTV WORK FOR INDIAN BANK - 3RD FLOOR, 66, RAJAJI SALAI, CHENNAI									
Sl.No	ITEM DESCRIPTION	UOM	Quantity	Supply (in Rs)		Installation (in Rs)		Total (Supply + Installation) (in Rs)	
				Rate	Amount	Rate	Amount		
	Section A - Third Floor - CCTV system								
1.01	Supply , Installation , Testing & Commissioning of 2 MP IR IP Dome Camera	No.s	10						
1.02	Supply , Installation , Testing & Commissioning of CCTV Camera Accessories required for complete installation	No.s	10						
1.03	Supply , Installation , Testing & Commissioning of 24-Port Smart Managed POE Gigabit Switch with all accessories (To be procured based on approval from bank).	No.s	1						
1.04	Supply , Installation , Testing & Commissioning of Cat6 24 Port Fully Loaded Patch Panel with all accessories	No.s	1						
1.05	Supply , Installation , Testing & Commissioning of Cat6 Patch Cable - 1 Metre with all accessories	No.s	11						
1.06	Supply , Installation , Testing & Commissioning of CAT6 Cable in 25mm PVC Conduit with Wall/Ceiling Clamping as layout shared by the Architect with all accessories	Mtrs	915						
1.07	Supply , Installation , Testing & Commissioning of Wall Mount 12U x 500 W x 450 D , Front Glass Door with Lock, 2 pairs of 19" Mounting Rails :- Standard Accessories :- 1U Cable Manager, Roof Mounted Fan Unit / 90 CFM / 230V AC, 6 Way 5 Amp Power Distribution Unit, Mounting Hardware with all accessories	No.s	1						
1.08	Supply , Installation , Testing & Commissioning of 6 Core Single Mode Armoured Optic Fibre Cable with - To CCTV Ground Floor Hub with all accessories	Mtrs	100						
1.09	Supply , Installation , Testing & Commissioning of Necessary for 6 core OFC - 12 Core rack mounted Fully Loaded LIU, Core Splicing, Patch Cables, SFP Module & OFC connectors for connectivity to ground floor Hub (To be integrated with the ground floor CCTV Hub & Commissioned with the required accessories). (To be procured based on approval from bank).	LS	1						
	Sub Total (A) (Exclusive of taxes)								
	Section B- Third Floor - NETWORKING								
2.01	Supply , Installation , Testing & Commissioning of 24-Port Smart Managed Gigabit Switch with all accessories (To be procured based upon the approval from Bank)	No.s	13						

2.02	Supply , Installation , Testing & Commissioning of Rack 27U 600Wx1000D Floor Mount Network Rack with Accessories :: (1) 90 CFM Fan-2 Nos. (2) 1U Cable Manager-2 Nos. (3) 10 Socket 6/16A PDU-1 Nos. (4) Monitor 475D Tray -1 Nos. (5) Mounting Hardware packet of 20Nos with all accessories(To be procured based on approval from bank).	No.s	2						
2.03	Supply , Installation , Testing & Commissioning of Wall Mount 12U x 500 W x 450 D , Front Glass Door with Lock, 2 pairs of 19" Mounting Rails :- S t a n d a r d A c c e s s o r i e s :- 1U Cable Manager, Roof Mounted Fan Unit / 90 CFM /230V AC, 6 Way 5 Amp Power Distribution Unit, Mounting Hardware with all accessories	No.s	1						
2.04	Supply , Installation , Testing & Commissioning of Cat 6 24 Port Loaded Patch Panel with all accessories	No.s	13						
2.05	Supply , Installation , Testing & Commissioning of Cat 6 patch cable - 1 Metre with all accessories	No.s	150						
2.06	Supply , Installation , Testing & Commissioning of Cat 6 patch cable - 2 Metres with all accessories	No.s	150						
2.07	Supply , Installation , Testing & Commissioning of Cat 6 patch cable - 2 Metres (End User Side) with all accessories	No.s	290						

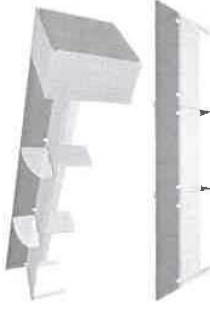


2.08	Supply, Installation, Testing & Commissioning of Cat 6 I/O	No.s	296						
2.09	Supply, Installation, Testing & Commissioning of dual face plate	No.s	296						
2.10	SITC of 6 Core Single Mode Optic Mode Optic Fibre Cable with 40 mtrs - To networking 2nd Floor IT Network	Mtr	60						
	Sub Total (B) (Exclusive of taxes)								
	Section C - Third Floor - EPABX								
3.01	Supply, Installation, Testing & Commissioning of 20 pair Cable x 5 Armoured Cable with necessary clamping /termination arrangements (To 1st Floor Hub 20) with clamping/Crimping and all required accessories	Mtrs	120						
3.02	Supply, Installation, Testing & Commissioning of Cat6 24 Port Loaded Patch Panel and all accessories	No.s	6						
3.03	Supply, Installation, Testing & Commissioning of Cat 6 I/O	No.s	135						
3.04	Supply, Installation, Testing & Commissioning of dual face plate	No.s	135						
3.05	Supply, Installation, Testing & Commissioning of fully loaded Krone box for 100 x 2 connections and accessories. (separate Krone box for Incoming and separate krone box for outgoing for all connections and all accessories (Krone Box to be fitted both in Third floor & First Floor for all the connections including all accessories including crimping, connecting etc.)	L.S	1						
3.06	Supply, Installation, Testing & Commissioning of Analog Telephone with Speaker and all accessories	No.s	135						
3.07	Supply, Installation, Testing & Commissioning of Digital IP Phone with all accessories	No.s	20						
3.08	SITC of 6 Core Single Mode Optic Mode Optic Fibre Cable with 40 mtrs	mtrs	50						
3.09	Supply, Installation, Testing & Commissioning of Necessary for 6 core OFC - 12 Core rack mounted Fully Loaded LIU, Core Splicing, Patch Cables, SFP Module & OFC connectors for connectivity to Hub (To be procured based on approval from client).	Nos	1						
	Sub Total (C) (Exclusive of taxes)								
	Section D- Third Floor - PUBLIC ADDRESS SYSTEM								



4.01	Supply , Installation , Testing & Commissioning of Ceiling Speakers - 6W	No.s	33						
4.02	Supply , Installation , Testing & Commissioning of 0.75sq.mm Speaker Cable / CAT6 Cable in 25mm PVC Conduit. Junction box with on/off switch to be connected in the fourth floor. From fourth floor Junction box , one 2 x 0.75 sq.mm cable needs to be connected to the 1st floor hub.	Mtrs	1500						
Sub Total (D) (Exclusive of Taxes)									

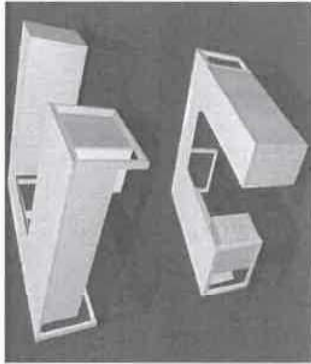
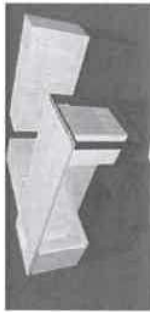


Sl.no	Description	Qty.	Unit	Rate (Rs)	Amount	Reference Images
1	LINEAR WORKSTATION - Size 1200W x 600D x 1050HT - BTB Desking System considered Main Privacy screen : 305H 8mm thk Frameless sandwich glass screen fixed to worktop with special metal brackets. Divider screen : 305H 8mm thk Frameless frosted film 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 management with electricals & data cut outs.	41	Nos			
2	LINEAR WORKSTATION - Size 1200W x 600D x 1050HT - INLINE 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 film 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 management with	46	Nos			

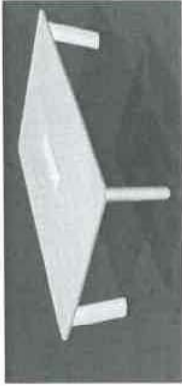
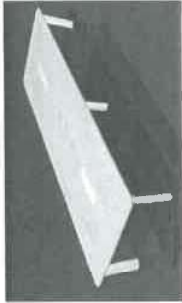


3	CM CABIN TABLE MAIN : Size 1500W x 750D x 74SHIT; RETURN STRG - 900W x 425D x 74SH Table Top - 25mm thk pre laminate table top with PVC edge lipping Legs : 40x40 MS powder coated closed legs with MS powder coated cross member for table support. Modesty: Front powdercoated modesty considered with square perforation below worktop 450H. Electricals & Data - Powder coated cable tray below the table top for wire management with electricals & data cut outs. Wire management 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 74SH with d handles. Pedestal : Not considered Keyboard tray and CPU trolley : Not considered.	15	Nos				
4	AGM CABIN TABLE MAIN : Size 1800W x 750D x 74SHIT; RETURN TBL - 1350W x 450D x 74SH ; BACK STRG - 1500W x 450D x 74SH 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 management with electricals & data cut outs. Wire management 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 74SH with d handles. Pedestal Not Considered	4	Nos				
5	CM , AGM CABIN 50 mm PARTITIONS Height - 1200 mm Pedestal Not Considered	225	RMTs				



6	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 technology.coat 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 Aluminium .The raceways are made out of 1.5 mm thick DGM,GM CABIN TABLE- MAIN : Size 1800W x 750D x 745HT; RETURN TBL - 1350W x 450D x 745H ; BACK STRG - 1500W x 450D x 745H	1	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 management with electricals & data cut outs. Wire management 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 - 450W x 450D x 600H						
7	GM CABIN TABLE - MAIN : Size 2100W x 750D x 745HT; RETURN TBL - 1500W x 600D x 680H ;	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 management with electricals & data cut outs. Wire management 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.						



8	MEETING TABLE TYP 1 - 1800W x 1100D x 729H 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 management with electricals & data cut outs. Wire management through legs.	1	Nos	
9	MEETING TABLE TYP 2 - 2600W x 1200D x 729H 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 management with electricals & data cut outs. Wire management through legs.	1	Nos	
10	3D BFF PRELAM PEDESTAL - 400W x 470D x 620H 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 .	135	Nos	
11	PRELAM STORAGE MEDIUM HEIGHT - 900W x 425D 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).	28	Nos	

12	PRELAM STORAGE LOW HEIGHT - 1200W x 425D 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 : SHELF : 2 NOS (1 ADJUSTABLE & 1 FIXED) .	4	Nos			
13	ERIC METAL STORAGE - 750W x 450D x 1660H ERIC METAL STORAGE TOP : CRCA POWDERCOATED. BODY & DOOR : CRCA POWDERCOATED. DOOR TYPE : SHUTTER. HANDLES : FLUSH TYPE. LOCK : MULTIPURPOSE LOCK. SHELF : 4 NOS (4 ADJUSTABLE) .	6	Nos			
14	METAL KEY BOARD TRAY WITHOUT MOUSE PAD	134	Nos			
15	METAL CPU TROLLY WITH CASTORS Alysia double seater: The seat , armrest & backrest assembly shall consists of a Pine understructure with plywood frame consisting layers of foam with wadding. The complete assembly shall be covered with Leatherette upholstery . The size of seat shall be: 55.0cm. (W) X 55.0cm. (D) X 22.0cm. (T) Approx. The size of back shall be: 55.0cm. (W) X 27.0cm. (H) X 22.0cm. (T) Approx. Elastic Webbing is used to give a soft contour to the seat . It consists of a fabricated inner-frame hardboard assembly with layers of foam. The hardness of the P.U. foam= 16-20 Kgs. on Hampden m/c for 25% compression of the foam. The leg is made of wood and 4 tier packing is used to minimize damage & reduce wastage. Overall Dimensions of Chair shall be Seat Width - 54.5 cm, Height - 74 cm, Total width - 85 cm, Total length - 154 cm. Dimensions tolerance / variations shall be within +/- 1 cm.	134	Nos			
16		6	Nos			
17	Elliptical shape Ws: 1300Wx600Dx740H, Top: prelaminated particle board with melamine finish, Wire management: grommet, wiring tray & housing. Leg: 38mm sq leg, In between tower leg. Modesty: metal modesty.	32	Nos			
BASIC TOTAL						

