

BOQ for STATE BANK OF INDIA BRANCH AT CARGO BUILDING, JEWAR AIRPORT, U.P.					
S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
I	FURNISHING WORK				
1.0	FALSE CEILING				
1.1	Providing and fixing suspended false ceiling in Glass Fiber Reinforced Gypsum board. Gypsum board suspended ceiling shall comprise of providing and fixing G.I. perimeter channel (MF-6A) of size 0.50mm thick having one flange of 19.6mm and another flange shall be of size 29.6mm and a web of 26.6mm along with perimeter of ceiling, screw fixed to the beam for the required curvature with nylon sleeves and screws are not exceeding 610mm centers. Then suspending G.I. intermediate channel (MF-7) of size 45mm, 0.9mm thick with two flanges of 15mm each bent to the required curvature by cutting both of its flanges. Suitable bracing to be provided where ever the flanges are cut with 0.9mm G.I. Flat and nuts and bolts at specific positions and thereafter at 1220mm centers with ceiling angle of width 25mm x 10mm x 0.50mm thick fixed to the soffit with G.I. cleats and steel expansion fasteners. Ceiling section (MF-5) of 0.50mm thickness having knurled web of 51.5mm and two flanges of 25.6mm each with lips of 10.5mm bent to the required profile by cutting both its flanges. Suitable bracing to be provided wherever the flanges are cut with 0.50mm flats.				
	Steel screws, are then fixed to the intermediate channel with the help of connecting clip and in direction perpendicular to the intermediate channel at 457mm centres. 12.5mm tapered edge Glass Fiber Reinforced Gypsum board (conforming to IS-2095-1982) is then screw fixed to ceiling section with 25mm drywall screws at 230mm centres.				
	Screw fixing is done mechanically either with screw driver or drilling machine with suitable attachment. The boards are to be jointed and finished which includes filling and finishing the tapered and square edges of the boards with jointing compound and fiber tape suitable for Gypsum board. A layer up to of 3.00mm thickness of Veneer Plaster is applied followed by two coats of topcoat (primer) at the face of board to give smooth seamless finish. 2 or more coats of plastic emulsion paint (roller finish) of approved shade and make shall be applied.				
	The item includes making all necessary cut outs & frame work for electrical fixtures / air conditioning work coves etc. Shall have edge groove details and cove lighting provisions as per drawings.				
	Rectifying all defects and cracks formed during the construction period before handing over the work complete. The rates shall include for necessary supports, scaffolding and labor. All as per drawing, approval and instructions of the architect / employer. Note: - Horizontal surface shall be measured for the purpose of payment.	Sq.Mtr.	85.00		0.00

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
1.2	<p>Providing and fixing false ceiling system manufactured by M/s. Armstrong World Industries using hot dipped galvanized steel section, rotary stitched main tee of size 15mm x 42 mm web height, having 0.36 mm gauge at every 600 mm centre to centre maximum and rotary stitched cross tee of size 15 mm x 42 mm, having 0.33 mm gauge at every 600 mm. c/c. and wallangle of size 19 x 19 mm., having 0.35 mm gauge fixed to the periphery of the wall. The above grid is suspended at every 600mm c/c. in both directions using Butterfly clip & adjustable rod hanger laying. FINE FISSURED MICROLOOK WITH SILHOUETTE GRID ceiling tiles manufactured by M/s. Armstrong World Industries, of size 600mmx600mmx15mm having NRC 0.55, Light reflectance of >84% (WT), thermal conductivity k = 0.052-0.057 W/m0K, Humidity Resistance of 99% , having Fire Performance CLASS O / CLASS 1 (BS 476), surface having 3 coats of white paint with Fine Fissured,back of the tile duly sanded and finished with a coat of protective paint over the formed grid complete. All complete as per manufacturer's specification.</p> <p>Rectifying all defects and cracks formed during the construction period before handing over the work complete. The rates shall include for necessary supports, scaffolding, labour. All complete as per drawing, approval and instructions of the Architect/ employer.</p>	Sq.Mtr.	48.00		0.00
1.3	<p>Providing and fixing Wooden False ceiling made of GI framework with specification same as Item No. 1.1 hanged from RCC ceiling with proper MS hangers. 12mm thick EDHMR ply is then fixed to ceiling section clad with 12mm thick flute Panel (Basic Rate Rs. 2500/- Sq.m) of approved design. Screw fixing shall be done mechanically either with screw driver or drilling machine with suitable attachment. All exposed woodwork / veneer to be melamine polished. All complete as per approval of the Architect / Engineer.</p>	Sq.Mtr.	11.00		0.00
	<p>NOTE:-</p> <ul style="list-style-type: none"> For item no. 1.1 , 1.2 & 1.3 the falseceiling design can be stepped / curved / architectural design etc however only plan / horizontal surface shall be measured for the purpose of payment. 				
	<ul style="list-style-type: none"> Ceiling shall be hung from the existing slab through hanger's. Rate quoted in the tender shall be applicable for all floor levels/ all floor height including scaffolding, etc complete. The rate of falseceiling items also includes 6 mm ply backing for supporting light fixtures in the false ceiling. 				
	FALSE CEILING TOTAL	:			0.00
2.0	PARTITIONS & PANELLING WORK				
2.1	<p>Providing and fixing fully glazed partition including door made 12mm thick toughened glass fixed to the floor / wall / false ceiling with patch fittings. Exposed edges of glass shall be machine cut & polished.</p>				

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	Door shall have 1" dia. 2'-0" long SS brushed finish handle (Hettich Make 9250424) on both sides including heavy duty double action floor-spring HETTICH Make Cat. No. 9227856 with steel cover plate, all accessories complete including lock etc. Cost includes cutting and making good the floor, walls, ceiling etc. for fixing floor spring and patch fittings. All glass to glass, glass to ceiling, glass to wooden partition & glass to floor joints shall be sealed with transparent silicon. All complete as per approval of the Architect / Engineer-in-Charge.				
a	FIXED PARTITION	Sq.Mtr.	29.00		0.00
b	DOOR	Sq.Mtr.	5.00		0.00
2.2	FULL HEIGHT PARTITION - PARTLY GLAZED. Providing and fixing in position full height partition having overall thickness of 75mm thick approx. including 38mm thick door shutter finished with 1.0mm thick laminate on both side with steam beech wood chowkhat of size 76mm x 65mm approx. Partition made out of aluminum hollow section of 50mm x 50mm size 1.50 thick (Section no. 14525) of JINDAL / INDAL as internal frame structure placed horizontally & vertically in 600mm x 600mm center to center. Fixing 12mm thick EDHMR ply on both sides with 1.0 mm thick laminate on top in approved shade with groove pattern as per architect instructions.	Sq.Mtr.	4.00		0.00
	10mm thick clear Modi float glass with 3M glass film above 1'-0" / 3'-0" & up to 7'-0" fixed with steam beech wood beading of finished size 1½" x 1" all along the edge. Item includes Heavy-duty SS ball bearing butt hinges 100 x 5.5 mm (4 Nos. per shutter) with screws, door closer, cylindrical door locks, door stopper, melamine polishing all necessary hardware etc. All edge-to-edge glass joint to be machine cut and polished and sealed with silicon sealant. Joint shall be located strictly as shown in the drawing. All exposed woodwork to be melamine polished. All complete as per approval of the Architect.				
2.3	LOW HEIGHT PARTITION				
	Providing and fixing in position low height partition of 2100mm / 1200 mm high with 12mm thick toughened glass with 3M glass film as per design including 38mm thick Flap door shutter finished with 1.0mm thick laminate on both side with steam beech wood chowkhat of size 76mm x 65mm approx. made out of aluminum hollow section of 50mm x 50mm size 1.50 thick (Section no. 14525) of JINDAL/ INDAL as internal frame structure placed horizontally & vertically at max distance of 600mm approx c/c both ways. Fixing 12mm thick EDHMR ply on both sides finished with High gloss PU paint / 1.0mm thick ultra gloss laminate of Blue & White / approved shade as per architect instructions. 12mm thick toughened glass (blue shade) as per design fixed	Sq.Mtr.	8.00		0.00

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	with teak wood beading of finished size 1½"x 1" all along the edge. Item includes teak wood edging of size 3" x 1 ½" at the exposed edges of the partition. All exposed woodwork to be high gloss PU polished. Shutter hung on 3 nos. heavy-duty SS butt ball bearing hinges of size 100 x 5.5mm with screws etc. The item inclusive Night Latch locks of Godrej make (ULTRA C2) with both side key, s tower bolt etc. complete in all respect. All complete as per approval of the Architect / employer.				0.00
2.4	Providing and fixing in position paneling on existing wall including making niches, cove, design as per drawing shall be made out of aluminum hollow section of 50.80mm x 25.40mm size 2.03 thick (Section No. 14003) of JINDAL / INDAL as internal frame structure placed horizontally & vertically in 600mm x 600mm center to center. Frame work clad with 12mm thick EDHMR ply finished with high gloss PU paint / 1.00mm thick edge laminate in approved shade with groove pattern as per architect instructions. The item also includes 32mmx 25mm steam beech wood moulding finished with melamine polish, scaffolding etc. All complete as per approval of architect/ engineer.				0.00
a	Finished with 1.0 mm thick laminate premium range (Basic rate Rs. 550/- Sq.m.)	Sq.Mtr.	64.00		0.00
b	Finished with 1.25/ 1.5mm thick laminate premium range (Basic rate Rs. 850/- Sq.m.)	Sq.Mtr.	12.00		0.00
c	Finished with 4mm thick annealed GRIHA rated lacquered glass (of Saint-Gobain make or equivalent) coated with PU lacquer (minimum 60 micron thick or more) of color Vert Onyx and lemon green as per approval of Engineer -in -charge / Architect . Glass fixed with compatible neutral core silicon / lacquered glass compatible double sided tape (SGG PlaniFIX or equivalent) . Silicon / tape should not react with coating on glass & render even color tone when viewd from glass side. Lacquered glass must be made industrially; must be opaque (if viewed against a support wall) must have panel to panel color consistency (measured by Minolta spectrophotometer CM5081 or eq.); highly durable (passes PERSOZ hardness test for min. 220 oscillations or more); humid resistant (conforms to BS EN 1036 1999 or eq); environmentally friendly (no lead, no arsenic, no copper, no formaldehyde); appropriate recycled content (12% post industrial / 6% post consumer or eq.); compressive strenght (1000 MPa) & tensile strenght (40 MPa),same as float glass. All complete as per approval of Engineer -in -charge / Architect.	Sq.Mtr.	2.00		0.00
d)	Panelling clad with 12 mm thick flute Panel (Basic rate Rs. 2500/- Sq.m.)	Sq.Mtr.	9.00		0.00
2.5	Providing and fixing frosted / striped / designer glass film of 3M, Avery Dennison or equivalent (basic rate of film Rs. 600/ Sq.m.) on existing glass as per manufacturer's specification. All as per drawing, approval and instructions of the Architect / Eingneer-in-charge.	Sq.Mtr.	22.00		0.00

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
2.6	Providing, fabricating & fixing in position Aluminium Composite Panel (ACP) with framing of aluminum hollow section of 53mm x 38.10mm size 1.80 thick (Section no. 14089) of JINDAL / INDAL as internal frame structure placed horizontally & vertically in 600mm x 600mm center to center. Joint free ACP to be in minimum 600mm width panels or distributed equally as per the direction of Bank/Architects and site condition. Panels to be fixed to the frame with adhesives as per manufacturer's specification. ACP shall be of minimum 4mm thickness (0.5mm+3mm+0.5mm). Colour of ACP shall be as per bank's preference. Additional Aluminium Sections to be provided to fix the AC units near the machine area at the highest position. All complete as per approval & instructions of the architect/ employer.	Sq.Mtr.	10.00		0.00
2.7	Providing and fixing 12mm thick Bison board complete in all respect as per approval of architect / engineer-in-charge.	Sq.Mtr.	6.00		0.00
	Note For Item No. 2.1, 2.2,2.3, 2.4, 2.5, 2.6 & 2.7 : - For the purpose of payment partition shall be measured including the area of door / door frames up to false ceiling height.				
a)	Framework shall be rigidly secured to floor, bottom of slab & existing walls at 600mm c/c with dash fasteners.				
b)	For All Full height partitions (Toughned Glass, Solid, Partly Glazed) framework and ply shall be provided up to the bottom of slab. The item also includes scaffolding for maximum height upto 4000 mm from floor etc complete				
c)	Center to center spacing may vary to make provision for fixing dado rail / to adjust the level of glass or for fixing counter / storage units or otherwise as per site requirement.				
d)	No extra payment shall be made for reduction in framework, opening as indicated in the drawing or as instructed by the Engineer-in-charge. Framework shall be rigidly secured to floor, walls and ceiling by dash fasteners etc. at maximum 600mm c/c.				
e)	For full height solid / partly glazed partitions rate also includes providing and fixing steam beach chowkhat, doors with laminate / veneer as per the specification of the items including handles, locks, door closer, door stopper, Hinges / patch fittings, accessories etc of approved make. Ref. HETTICH Cat. 1) FOR door closer Article no. : 9227817 (2) Handle Article no. 922768 (3) Mortise cylinder lockcase Article no. 9228136 (4) Europrofile Clynder Lock Article No. 9228171 (5) Ball bearing butt hinges 102 x 76 x 3 mm article No.9287297(6) Door stooper: 9228709 (7) Cylindrical door lock 9228335				
f)	For all full height partitions (solid / partly glazed / toughend glass) rate also includes providing and doing infill of 50mm glass wool insulation having density of 24kg/ cu.m. with polybag covering on either sides in partition framework.				
2.0	PARTITION WORK TOTAL :				0.00

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
3.0	DOOR'S / WINDOWS				
3.1	FIRE DOORS - Providing and fixing with all frame, panic bar, and accessories as below.				
	Providing and fixing of Hollow metal fire rated doors as per IS 3614. Pressed Galvanized steel with the following specification. Recommended fire door should have been tested earlier of similar design at CBRI for maximum rating of 2hrs. Individual Test certificates should also be provided. Doors should be finished in Thermo setting Powder Coating desired RAL Shades. Approved manufacturer Navair / Shakti Harmann or equivalent subject to architect's approval. And should be ISO Certified company. Door frame shall be double rebate profile of minimum size 153mm x 77mm made out of 1.50mm minimum thick galvanized steel sheet. Frames shall be Butt jointed and field assembled with self bolted. The frames should be finished with Thermo setting Powder Coating in desired Shade. All provision should be mortised, drilled and tapped for receiving appropriate hardware. Frames should be provided with back plate bracket and anchor fasteners for installation on a finished plastered masonry wall opening. Door leaf shall be minimum 46mm thick fully flush single skin door with vision lite. Door leaf shall be manufactured from 1.0mm minimum thick galvanised steel sheet. The internal construction of the door should be rigid reinforcement pads for receiving appropriate hardware. The infill material shall be Rock wool treated with Viper FRS881LH. All doors shall be factory prepped for receiving appropriate hardware and provided with necessary reinforcement for hinges, locks, and door closers. The edges should be inter locked with abending radius of 1.4mm. For pair of doors astragals has to be provided on the meeting stile for both active and inactive leaf.				
	Vision lite wherever applicable should be provided as per manufacturers recommendation with a beeding and screws from inside. However the glass should be contraflam Door Lite 11mm clear 120 min fire rated and partially insulated (EW120), Non Wired Toughened, interlayered glass having a sound reduction and Impact Resistance as per EN12600 standard from Saint Gobain. All doors and frames shall be finished with Powder coating in desired Regular Shades.				
	VISION PANEL				
	Providing & fixing of Contra flam Door Lite 11mm thick, 120 min fire rated (EW120) clear, Non Wired Toughened Inter layer edglass with a light transmission of 86% and a sound reduction and is to be used as vision panel including cost of fire rated ceramic tape and moulding / beading all complete. NOTE : THE MINIMUM SIZE OF VISION PANEL SHOULD BE 220 x 370mm.	Sq.Mtr.	2.00		0.00
3.2	Providing and fixing Steam beech wood in frames of size 150x 75mm approx. in doors, and other frames in moulded wood work as per design , bit mastic paint wherever required etc (Using best quality wood). Wood protected by melamine matte finish. Item includes hold fast wherever required. All complete as per approval and instructions of the Architect/ employer.	Cu.mtr.	0.2		0.00

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
3.3	Providing and fixing flush door D1 shutter 1½" thick approx. and sizes as per drawings. Door of solid core of comm board construction with well matched Ist class 8mm thick comm ply, exterior grade with vertical grains or cross bands on both faces of shutters sealed with Steam beech wood edging slip of finished section 1 ½" x ¾" approx. on all sides and finished as per following specification . Heavy-duty SS ball bearing butt hinges(100 x 5.5 mm (4 Nos. per shutter) with screws. Item includes door closer, cylindrical door locks, door stopper, melamine polishing. All complete as / approval of the Architect / employer.				
a).	Finished in 1.0mm thick laminate on both sides	Sq.Mtr.	4.00		0.00
3.4 a	MS GRILL DOOR				
	Manufacturing, supplying and fixing of Steel door of size 1200x 2250mm with following specification. MS angle of size 50x50x6mm at 3.9 kg/m shall be used for outer frame and MS Angle of size 40x40x5mm at 2.6 Kg/m for the shutter frame. Stiffeners with 32x6mm at 1.5 Kg/m MS Flat is provided as the lock rail of the door and welded intact on both ends to the shutter frame. The inner grill patterns made of 12 x 12mm MS square bars placed vertically @ 100mm c/c and horizontal as per design welded with 40 x 40 x 5mm MS angle. MS flat of size 15 x 3mm & 25 x 12mm shall be used for design .Shutter shall have 10 inch long MS Aldrops- 2Nos, 4 nos 150mm length MS hinges welded to the outer frame of the door. Tower bolt 2 Nos at the top & bottom provided. Item includes all necessary hardware, priming coat etc. All complete as per drawing, approval and instructions of the Architect / employer.	Each	1.00		0.00
3.4 b	Manufacturing, supplying and fixing of Steel door of size 1200x 2250mm with following specification. MS angle of size 50x50x6mm at 3.9 kg/m shall be used for outer frame and MS Angle of size 35 x 35 x 5mm at 2.6 Kg/m for the shutter frame. Stiffeners with 32 x 6mm at 1.5 Kg/m MS Flat is provided as the lock rail of the door and welded intact on both ends to the shutter frame. 18 G CR Sheets of best quality is laid as panel in the shutter frames. 18x5mm at 0.70 kg/m MS flat is welded over the 32 x 6mm at 1.50kg/m MS Flat on the rear side of the door, sandwiching the CR Sheet for rigidity. Additional stiffeners with 18 x 5mm at 0.7 Kg/m MS flats are provided diagonally on the rear side of the shutter. Each door & shutter combine shall have 2 No's 10 inch long MS Aldrops- 2 No's, 4 No's 6" length MS hinges, 6 No's of 250mm length hold fasts 200mm length specified at the ends are welded to the outer frame of the door. Tower bolt 2 Nos at the top & bottom provided. All complete as per drawing, approval and instructions of the Architect / employer.	Each	1.00		0.00
3.5	Providing and fixing MS grill for window made of 12 x 12mm MS square bars placed vertically @ 100mm c/c and horizontal as per design welded with 40 x 40 x 5mm MS angle. MS flat of size 15 x 3mm & 25 x 12mm shall be used for design. Grill shall be fixed to the floor. Item includes all necessary hardware, priming coat etc. All complete as per drawing, approval and instructions of the Architect / employer.	Sq.Mtr.	14.00		0.00

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
3.6	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.				
	All complete including applying primeing coat of approved steel primer, as per drawing, approval and instructions of the Architect / employer.				
i	80X1.25mm MS laths with 1.25mm thick top cover	Sq.Mtr.	16.00		0.00
ii	Extra for providing mechanical device chain and cranck operation for operating vrolling shutter	Sq.Mtr.	16.00		0.00
3.7	Providing and fixing in position collapsible gate with 40m x 40 mm x 6mm Tee as top and bottom guide rail, 20mm x 10mm x 2m vertical channels 100 mm apart in fully stretched position 20mm x 5mm MS / flats as collapsible bracings properly rivetted and washered including 38mm steel rollers including lacking arrangements, fitted and fixed in position with lugs set in cement concrete and including applying primer complete as per specifications . All complete as per drawing, approval and instructions of the Architect / employer.	Sq.Mtr.	14.00		0.00
3.0	DOOR / WINDOWS	TOTAL	:		0.00
4.0	WORKING COUNTERS / TABLES				
4.1	Providing and fixing 750mm wide staff counter made of 18mm thick EDHMR board . Working top and edges of the worktop shall be finished with 12mm thick corian curved to shape as per design.				
	Front bracing panel made of 18mm thick EDHMR board finished with 4.0mm thick lacquered Glass (of Saint-Gobain make or equivalent) coated with PU lacquer (minimum 60 micron thick or more) of approved shade. All edges of EDHMR board shall be sealed with teak wood edging of size 1/4"x3/4" finished with high gloss PU Paint. The counter to be provided with platform type of foot rest of size 450mmx 600mm				
	Drawer unit made out of 18mm thick EDHMR board having 2nos. drawers at top and one no. openable shutter below. Drawers Base, Back & sides @ 12mm thick EDHMR board. Front @ double layer, 12mm thick EDHMR ply . All drawers shall run on hydraulic drawer slides. Top drawer shall have partitions as per banks requirement made of 6mm thick EDHMR ply Shutter shall be provided with hydraulic auto closing hinges (Ref Hettich Artical No. 9281432 & 9281434 - 2 nos. per shutter). All shutters / drawers shall be provided with lock, 150mm long S.S. brush finish handles, All exposed edge finished with the teak wood edging. All surfaces exposed to view shall be finished with 1.0mm thick ultra gloss laminate				

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	Each seat shall be provided with keyboard pull out tray of size 480-500 x 240-260mm minimum made of 0.8mm thick CRCA steel duly powder coated, of minimum thickness 45 micron, with metallic roller slides (Telscopic channels Ref Hettich Article No. 9193319) on both sides and shall be fixed to the bottom of worktop surface with the help of screws, readymade metal powder coated CPU trolley, grommet & footrest .	R.Mtr.	8.00		0.00
	Item includes w height partition of 2100mm / 1200 mm high with 12mm thick toughened glass with 3M glass film above working top with patch fittings. All exposed wood shall be high gloss PU polished and non-laminate surface to be enamel painted. All complete as per approval and instructions of the Architect / employer.				
4.2	<p>Providing and placing the tables as per drawing and the following specification</p> <p>Table top made out of 18mm thick EDHMR board (Double Layer 18+18mm)over hard wood frame work. Top including edges finished with 6mm thick corian. Item includes 10mm thick clear float Glass on the table top with all beveled edges machine cut & polished. Bracing panel, sides made of 18mm thick EDHMR (Double Layer 18+18mm) board finished with 1.0mm thick laminate & flute12mm thick flutes. All exposed edge of board shall be finished with the steam beech wood edging.</p> <p>Top supported on side credenza and drawer unit as per detail drawing. Each table shall be provided with 1 no. grommet, 1 no. CPU Trolley,1 no. footrest, 1 no. prefabricated computer key board tray including drawer slides 12.5" x 22" tray with 14" telescopic slides including L – brackets for securing to the table top.</p>				
	Side credenza finished with 12mm thik corian top and drawer unit made out of 18mm thick EDHMR board. Drawers Base, Back & sides @ 12mm thick EDHMR ply. Front @ double layer, inside of 12mm thick ply, outside 18mm thick EDHMR board. All external surfaces shall be finished with 1.0mm thick laminate of approved shade and all internal surfaces shall be finished with .8 mm thick laminate. All drawers shall run on drawer slides.				
	All exposed edge finished with the edges steam beech wood edging. All woodwork to be melamine polish and all non laminated surfaces to be finished with two or more coats of spirit polish. All complete including lock, auto- closing hinges, 6" long S.S. handles, studs for adjustable shelving etc.				
a)	T1 1800mm x 900mm x 750mm high with side credenza 1650mm x 450mm x 712mm & drawer unit 450mm x 600mm.	Nos.	1.00		0.00
b)	T2 1500mm x 750mm x 750mm high with side credenza 1350mm x 450mm x 712mm & drawer unit 450mm x 600mm.	Nos.	1.00		0.00

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4.3	Providing and placing writing desk of size 900mm x 300mm and shape as per drawings and made of 18mm thick EDHMR board finished in 1.0mm thick laminate. Top having 12mm thick clear float glass. Shutter below shall be partly glazed having 6mm thick clear float glass. All exposed edges of EDHMR board sealed with steam beech wood beading of size 6mm x 19mm . All beading and exposed wood shall be melamine polished and non- laminate surface to be finished with two or more coats of spirit polish. All complete as per approval of the Architect / employer.	Each	1.00		0.00
4.4	Providing and placing side table of size 530 x 530 x 530mm as per following specification:- Top having 12mm thick Clear float glass with machine cut and polished edges. Base made of hard wood framework clad with 6mm thick EDHMR ply finished with 1.0mm thick laminate. Edges sealed with 6mm thick steam beech wood lipping. All wood work to be protected with melamine polish. All complete as per drawing, approval and instructions of the architect /employer.	Each	3.00		0.00
4.5	Providing and fixing notice board size 900mm x 1200mm approx. or as required / directed with open able shutter on the front. Made out of 18mm thick EDHMR board frame and outer frame in 65 x 37mm Steam beech wood section, concealed hinges, locking arrangement, glass of (5.5mm thick) with rear panel of SITATEX board, covered with fabric of approved shade. (Basic rate Rs. 150/- per mtr, 48" width) fixed to back ply 6mm thick. All complete including melamine polish in stain of required shade. All complete as per design and approval of the Architect / employer.	Each	1.00		0.00
4.0	WORKING COUNTERS/ TABLES TOTAL :				0.00
5.0	STORAGE				
5.1	Providing and fixing 400mm deep low ht. Storage with following specification: - Outer framework i.e. top, sides, shutters, shelving of 18mm thick EDHMR board. Back shall be of 8mm thick EDHMR ply. Storage top shall be finished as mentioned below. All other surfaces exposed to view to be finished with 1.0mm thick Ultra high gloss laminate/ High gloss PU paint. All internal surfaces shall be finished with 0.8mm thick laminate. Skirting shall be finished with 1.0mm thick metallic laminate. All edges of the EDHMR board shall have Steam beech wood edging of 6mm x 19mm .				
	All shutters shall be provided with lock (1 no. for two shutters), auto closing hydraulic hinges (2 nos. per shutter), brass catchers, 150mm long S.S. brush finish handles, 1 no. Intermediate shelf shall rest on studs for adjustable shelving etc. Woodwork protected with melamine polish. Entire surfaces left without lamination to be finished with two or more coats of spirit polish. All complete as per drawing, approval and instructions of the Architect / employer.				
a	Storage top shall be finished with 1.0mm thick Laminate of approved shade.	Sq.Mtr	12.00		0.00

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5.2	Providing and fixing Louvered Shutter Cabinet for main panel fabricated out of 18 mm thick Fire Retardant MDF (FRMDF) (conform to BS 476 : Part 7 Class 1) finished with putty and fire retardant paint from inside and 1 mm thick laminate of approved make & shade from outside.				
	The item to include powder coated MS louvers in both the shutters of the door of size - 300 mm x 1.2 m				
	The door is to be provided with 12 x 200 mm SS Aldrop, 150 mm SS handles (2 nos), auto closer hinges (3 Nos. per shutter) with necessary screws, hardware. All complete as per approval & instructions of the architect/ employer.				
	Front fascia shall be measured for payment. Measurement of height shall be taken from finished floor level up to the finished edge of the cabinet and width shall be from outer edge to outer edge of cabinet. In case of varying heights on either side of partition, average height shall be considered. Measurement shall be taken of the visible front surface (elevation - 2D surface) only.	Sq.Mtr	5.00		0.00
	NOTE:- For Item no.. 5.1, 5.2 Front area shall be measured for the purpose of measurement. For hardware (Ref Hettich (1) Autoclosing hinges Article No. 9281432 & 9281434				
5.3	Providing and fixing side credenza 1350 x 450 x 750 with following specification: - Top and edges of the unit shall be finished with 12mm thick corian as per design Outer framework i.e. top, sides, shutters, shelving of 18mm thick EDHMR board. Back shall be of 8mm thick EDHMR ply. Drawers Base, Back & sides @ 12mm thick EDHMR ply. Front @ double layer, inside of 12mm thick ply, outside 18mm thick EDHMR board. All drawers shall run on hydraulic drawer slides. All surfaces exposed to view to be finished with 1.0mm thick laminate. Skirting shall be finished with 1.0mm thick metallic laminate. All edges of the EDHMR board shall have Steam beech wood edging of 6mm x 19mm . All complete including lock, auto-closing hydraulic hinges, 6" long S.S. handles, and drawer slides etc. Woodwork protected with melamine polish. Entire surfaces left without lamination to be finished with two or more coats spirit polish. All complete as per drawing, approval and instructions of the Architect / employer.	Each	3.00		0.00
5.0	STORAGES	TOTAL	:		0.00
6.0	MISCELLANEOUS WORK				
6.1	Providing plaster of paris punning 2mm to 5mm approx. thick (nominal) on walls, leveling and smooth finishing the surface including sand papering the old surface etc. The rates are inclusive of scaffolding staging etc. for any height and for plane as well as for architectural surface. All complete as per directions and approval of the Architect / employer.	Sq.Mtr	133.00		0.00

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
6.2	Providing and doing textured surface coating on walls of approved shade & texture (basic rate Rs. 375/- Sq.Mtr. including taxes & transportation). The rates are inclusive of scaffolding staging etc. for any height and for plane as well as for architectural surface. All complete as per approval and instructions of the Architect / employer. Note: - Entire area of wall shall be measured in single front plane.	Sq.Mtr	29.00		0.00
6.3	Providing and applying two or more coats of plastic emulsion paint (roller finish) of approved make and shade as per the manufacturer's specifications to give a smooth surface including priming coat, scaffolding, cleaning, curing etc. complete as specification and as directed by the Architect / employer.	Sq.Mtr	133.00		0.00
6.4	Providing and applying two or more coats of synthetic enamel paint of approved make and shade as per the manufacturer's specifications to give a smooth surface including scrapping and removing existing paint and preparing the surface with putty , providing priming coat etc. complete as specified and as directed by the Architect / employer.	Sq.Mtr	74.00		0.00
6.5	Providing and fixing wall paper on wall, gypsum board ceiling , partition or anywhere else as required with approved adhesive (basic rate of wall paper Rs. 1200/- Sq.m.). All complete as per approval and instructions of the Architect / Engineer-in- charge.	Sq.Mtr	10.00		0.00
6.6	Providing and placing aluminium dust buster mat for entrance door of 19 mm thickness of Euronics/approved make all complete as per the the directions of the Architect/Employer.	Sq.Mtr	2.00		0.00
6.7	Providing and placing SS perforated dustbin with square holes of Euronics/ approved make (Cat No.- AFBR 3FP) of size 200 x 300mm all complete as per directions of Architect / Engineer-in-charge.	Each	7.00		0.00
6.8	Providing and placing in position planter box of size 600mm wide & 450mm high made of 18mm thick EDHMR board. Inside finished with 1.0mm thick laminate and outside finished with 3.5mmthick veneer. Exposed edges of board finished with 6mm thick steam bech wood lipping . All wood work and veneer shall be finished with two or more coats of PU polish over one coat of sealer.All complete as per approval of architect / employer.	Each	4.00		0.00
6.9	Providing and fixing SS LOGO of 450 mm dia. Made of 304 grade stainless steel complete as per approval of client/ architect.	Each	1.00		0.00
6.10	Providing, fixing and installation of roller blinds (Basic rate Rs. 2000/- per Sq.m) of Vista make or equivalent in approved finish of required shade complete in all respect. All complete as per approval and instructions of Engineer-in-Charge / Architect.	Sq.mtr	14.00		0.00
6.0	MISCLLANEOUS TOTAL	:			0.00

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
7.0	CIVIL WORK				
7.1	Providing and laying Autoclaved Aerated concrete (AAC) blocks masonry with 150mm to 300 mm thick with Grade-1 AAC blocks of density 551 to 650 kg/cum conforming to IS: 2185 (Part 3) in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge.	Cum	42.00		0.00
	All complete including cost and conveyance of all materials to site, all taxes and all operational, incidental labour charges such as mixing mortar, curing, scaffolding, lift charges etc., complete and cutting grooves as directed by the Engineer - in - Charge for finished item of work as per standard specification complete as directed by the Architect / Engineer in charge. (The payment of RCC band and reinforcement shall be made for seperately).				
7.2	Providing and making 230mm high RCC BAND (1:2:4) including reinforcement(12mm dia.) for 150mm to 300 mm thick wall as per drawing . Item includes all material ,labour scaffolding etc. complete as directed by the Architect / Engineer in charge	RM	81.00		0.00
7.3	Extra for providing and placing in position 2 nos. 6mm dia MS bar at every 3rd course of 150mm AAC block work complete as per direction & approval of Architect / Engineer in Charge.	Sq.mtr	39.00		0.00
7.4	Providing and applying average 12mm thick cement plaster in a single coat in cement mortar 1:4 without neeru finish with Natural sand to concrete or brick surface in all positions, heights & leads including providing fibre-mesh / chicken mesh at joints of brickwork and concrete and making good the chase cut for the purpose of electrification / plumbing, filling all gapes along the wooden door frames, Making moist the surface before plastering & curing the plaster surface for minimum 7 Days, scaffolding etc. complete as directed by the Architect / Engineer in charge.	Sq.mtr	336.00		0.00
7.5	Making 150mm thick RCC wall (Sides , Top & back) , 300MM thick RCC Base (as per drawing) for embedding safe unit as per following specification:-				
	Providing and fixing tested deformed steel bars 12mm dia. as reinforcement for RCC work i/c cutting, removal of loose rust, straightening, bending , binding and placing in position i/c cost of MS annealed steel binding wire 0.9 to 1.6mm thick at all level and height as per design. Laying cement concrete M-20 in walls and floor. Providing fabricating erecting centering plywood formwork in vertical surfaces, flat surfaces including cost of striping off forms de-shuttering and de-centering work at all levels. Applying 10-12mm thick cement plaster of 1:3 (1 cement: 3 sand) on RCC wall including racking joints, hacking, curing, scaffolding etc. All complete as per drawing, approval and instructions of the Architects / Employer.	LS	2		0.00

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
7.6	Providing and laying 50 to 100 mm thick PCC 1:2:4 (1 cement: 2 coarse sand: 4 stone aggregate 20mm nominal thickness) to make a uniform base. All complete as per drawing, approval and instructions of the Architect / employer.	CUM	11		0.00
7.7	Providing and laying full body Vitrified tiles(double charged) in flooring including 100MM high skirting (Basic rate of tile is Rs. 750/- per Sq.mt. including transportation) of homogeneous composition of size 1197mm x 1197mm (thickness to be specified by the manufacturer) with water absorptions less than 0.08% and confirming to IS : 15622 of approved shade and pattern. Tile to be laid on 20 to 50 mm thick cement mortar 1:4 (1 cement : 4coarse sand) including filling the joints with white cement slurry mixed with pigment to match the shade of the tile, leveling of floor if required, covering it with plaster of paris to avoid damages & complete cleaning prior to handing over. All complete as per drawing, approval and instructions of the Architect/ employer. (Make : H R Johnson / Somany / RAK / Kajaria / Nitco or equivalent)	Sq.mtr	141.00		0.00
	NOTE:- Rates to include, Protection of newly laid floor during interior work: Rate shall include Providing and laying polythene and layer of 12 mm thick Plaster Of Paris in two layers on new flooring surface (For the protection of floor surface during other activities). Rate should be inclusive of the cost of removing this protective layer, (after the work is completed) carrying all debris out of site and dumping it to municipal authorized. Dumping ground, cleaning the entire covered flooring area complete in all aspect.				
	CIVIL WORKS TOTAL	:			0.00
	TOTAL INTERIOR FURNISHING & CIVIL WORK (ITEM NO. 1.0 TO 7.0)				0.00
II	ELELCTRICAL WORK				
1	Wiring for light point/ fan point/ wall fan point/ exhaust fan/ light sockets etc. with 1.5 sq.mm. PVC insulated 1100 V Grade copper conductor (FRLS) wires & 1.5 sq.mm. copper earth wire in concealed/ surface using 16 SWG MS conduits, accessories such as bends, tees, saddles, draw boxes, mounting boxes, inner plates, cover plates, ceiling rose etc (wherever required) and chromium plates brass screws/ rowel plug etc. The circuit wiring starting from DB to point control box/ switch box using 2 X 2.5 sq.mm PVC insulated 1100 V grade multi- stranded copper conductor wire & 2.5 sq.mm. PVC insulated earth wire (color code to be used). (Flexible conduit/ elbow not allowed). The conduit to be laid in ceiling with proper clamps/ wall/ floor and flling the chase with cement mortar and finishing the same in original form/ wooden partition/ above false ceiling with proper clamps etc. all complete.				
	(Wherever required as per standard specifications).				
	i) Each circuit shall have independent earth wire.				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	ii) Each point shall be earthed.				
	iii) Circuit wiring is to be included in point wiring rates.				
i	One light points controlled by one 6 amp. Modular switch.	Nos.	8.00		0.00
ii	Two light points controlled by one 6 amp. Modular switch.	Nos.	15.00		0.00
iii	Three light points controlled by one 6 amp. Modular switch.	Nos.	12.00		0.00
iv	Four light points controlled by one 6 amp. Modular switch For cove light.	Nos.	4.00		0.00
v	One call bell point with ceiling rose/ 6amp. 3 pin socket controlled by one 6 amp. Push Modular switch. With call bell	Nos.	1.00		0.00
vi	One wall fan/ ceiling/ exhaust fan point with 6 amp 3-pin socket controlled by one 6 amp. Modular switch. The switch should be at switchboard level.	Nos.	13.00		0.00
vii	One 5 pin socket controlled by one 6 amp. Modular switch complete assembly includes plate box etc.				
a	Dependent	Nos.	3.00		0.00
viii	Same as serial no 1 but using 2*2.5 + 1*2.5 Sqmm Copper Conductor FRLS wires from DB to first 6A, 5 Pin modular socket controlled by one 6A switch and looped to the nearest second point with same 2*2.5 + 1*2.5 Sqmm copper conductor wires FRLS insulated 1100V grade.				
a	Primary (For Printer)	Nos.	5.00		0.00
b	Secondary (For Charging)	Nos.	8.00		0.00
ix	Same as serial no 1 but using 2*2.5 + 1*2.5 Sqmm Copper Conductor FRLS wires from DB to first 16 Amp MCB two Nos., for Glow sign Board.				
a	Primary Point	Nos.	3.00		0.00
2	POWER POINTS				
	Same as serial no.1, but wiring for 16 Amp, 6-pin sockets by using 2*4 sq.mm. PVC insulated 1100 V grade copper conductor wire with independent 1* 4.0 sq.mm earth wire from D.B. to first point 1 st socket and 1 st to 2 nd , socket with 2*2.5 sq.mm. and 1*2.5 earth wire including providing and fixing of 16 Amp, 6 -pin socket with 16 Amp. Switch. (Modular type switch/ socket/ plate etc. complete assembly) max 2 points per circuit.				
a)	Primary Point	Nos.	6.00		0.00
b)	Secondary Point	Nos.	3.00		0.00
3(a)	Same as serial no.1, but wiring for A/C socket by using 2*4 sq.mm. PVC insulated 1100 V grade copper conductor wire and earthing with 1*4.0 sq.mm. PVC insulated 1100 V grade copper conductor wire with modular type AC box(tiny trip type) with socket complete in all respects controlled by 25/32 A SP MCB to be provided near indoor unit. The point starts from DB to stabilizer to the point near the indoor unit including top.	Nos.	1.00		0.00
4	COMPUTER POINTS				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
a	Wiring with 2x2.5 sq.mm. + 1x2.5 sq.mm. PVC insulated 1100 V grade multi stranded copper conductor wires in 2 mm thick PVC conduit from UPS DB to computer point. Each point to have 3 nos. 6 amps. 5 pin modular type sockets, one 6 amps modular switch with all accessories, inner/ outer plates, metal box etc. and to be fixed on wooden partitions/ by grouting on wall etc. as per requirement at site. The switch should be fixed above the top of counter with indicator and sockets under the counter h) Same as above but looped from the above 1st point to				
	Primary Points	Nos.	6.00		0.00
	Secondary Points	Nos.	4.00		0.00
b	Wiring with 2x2.5 sq.mm + 1x2.5 sq.mm PVC insulated 1100 V grade multi stranded copper conductor wires in 2mmthick PVC conduit from UPS DB to computer point. Each point to have 2 nos. 16 amps 5 pin modular type sockets, 2 No's 16 amps modular switch with all accessories, inner/ outer plates , metal box etc and to be fixed on wooden partitions/ by grouting on wall etc as per requirement at site. The switch should be fixed above the top of counter and sockets under the counter. or as directed by the engineer incharge for the rack supply in server room, PA rack, CCTV, b) Same as above but looped from the above 1st point to 2nd point (Maximum 2 points in a circuit)				
	Primary Points	Nos.	3.00		0.00
	Secondary Points	Nos.	2.00		0.00
B.	CONDUITING FOR TELEPHONE, COMPUTER & CONDUITING, WIRING FOR T.V. SYSTEM.				
1	TELEPHONE SYSTEM				
1.1	Wiring for VOICE from Jack Panel in data rack to computer workstation with Cat-6 voice cable in PVC conduits of size 20/ 25 mm including providing ferrules at both ends and termination at both ends including providing & fixing frame for Cat-6 with shutter, RJ 45 outlet, faceplate and mounting box complete of modular type. This work includes supply and laying of CAT-6 cable in PVC conduits throughout the length, from the I/O hub to the point.	Nos.	8.00		0.00
1.2	Supplying, laying, effecting terminations, testing and commissioning of 0.51 mm dia Cu. Conductor, twisted, colour coded with polythene capor barrier, telephone cables in the existing tray or in conduit including providing &fixing conduit pipe or cable tray as required from building tag block to the floor as required.				
a)	Supplying & fixing 10 pair krone tag block with enclosure.	Nos.	1.00		0.00
b)	P/L 10 Pair of PVC insulated PVC sheathed multi core jelly filled armored telephone.	Mtrs.	40.00		0.00
2	COMPUTER NETWORKING				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
2.1	Wiring for computer networking from Jack Panel in data rack to computer workstation with Cat-6A computer cable in PVC conduits of size 20/ 25 mm including providing ferrules at both ends and termination at both ends including providing & fixing frame for Cat-6A with shutter, RJ 45 outlet, faceplate and mounting box complete of modular type, This work includes supply and laying of CAT-6A cable in PVC conduits throughout the length, from the I/O hub to the point.	Nos.	12.00		0.00
2.2	Supplying and fixing 9 U (Rack with glass door, opening in the front power panel 1 (horizontal), cable manager 1 lock & key).	Nos.	1.00		0.00
2.3 a	Supply, Installation, Testing & Commissioning of 24 port Jack Panel.	Nos.	1.00		0.00
2.3 b	Supply, Installation, Testing & Commissioning of 16 port Jack Panel.	Nos.	1.00		0.00
2.40	Supplying and fixing Patch Cord-2 Meter- (DBPS Mounting Cord) CAT6A	Nos.	13.00		0.00
2.5	Supplying and fixing Patch Cord-1 Meter-	Nos.	13.00		0.00
3.00	Supply and fixing of 1.6 mm thick G.I. Box along with RG 6 T.V Co axial socket with Cover Plate.	Nos.	1.00		0.00
4.00	Supply, drawing, connecting, testing and commissioning of T.V Coaxial cable RG 6 in existing conduit.	RM	50.00		0.00
C.	CABLES, MAINS & SUBMAINS				
1.00	Supplying all materials and laying/ pulling 1100 volts grade PVC insulated copper conductor wires (FRLS) in MS conduit with all fixing accessories after cutting the floor, wall and the like etc. and replastering the floor level to original. Conduit must be 30 mm below the floor finish level.				
i	1 X 10 sq mm Cu wire for earthing.	RM	25.00		0.00
ii	2 X 6 sq.mm. + 1 X 6 sq.mm.	RM	30.00		0.00
iii	4 X 6 sq.mm. + 2 X 6 sq.mm.	RM	10.00		0.00
vi	Supplying, laying, testing & commissioning of 4 C X 10 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (Power DB, AC UNIT & Server Room DB).	RM	30.00		0.00
v	Supplying, laying, testing & commissioning of 4 C x 35 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (Mains).	RM	60.00		0.00
2	Cable Tray and Raceways				
	Supplying and fixing of following size of Perforated pre painted ms Cable Trays with perforation not more than 17.5% in convenient section, joined with connector, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required. Rates shall be included tee, band reducers etc				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
a.	100x100 x50 2mm thick Cable tray (For Submain Incoming)	RM	50		0.00
3.00	Fabricating supplying to site of installation, in floor including chase cutting of floor, leveling, refilling and making good the same 1.6 mm thick G.I raceways of height 40 mm and 2.0 mm thick openable cover, totally enclosed, The two lengths of channels and junction box shall be nut bolted together to make it dust and water proof. complete with all fixing accessories as required.				
a.	100 mm (wide) x 40 mm (height)	RM	5		0.00
D.	DISTRIBUTION BOARD				
	Supplying, installing, testing & commissioning of surface/recessed mountings, Double door 415 volts TPN MCB distribution board of steel steel, 1.6mm thick dust phosphatized and painted, inclusive of 100 amps, tinned copper busbars, earthbar, common neutral link, din bar for mounting of MCB's detachable gland / knock out plate & with built in loose wire box, and superior make terminal connectors for all incoming and outgoing circuits duly prewired with adequate size of PVC insulated copper wires between the bus bars and the MCB's as well as the incomer and upto the terminal connectors/ neutral link and ready for installation of following ways as required.				
	Use 'B' curve MCB's for lighting & small power circuits, 'C' curve for motor duty i.e. for pumps, AC motors, window and split AC's etc. & 'D' curve for UPS DB's i.e. for computers/ PC's circuit. Main incomer & outgoing circuit MCB's shall be selected accordingly i.e. type B,C & D. Contractor to select the MCB's accordingly as per the nature of the circuit/ load.				
	Each DB shall have separate neutral links of rating not less than 100A for each phase. The main incoming neutral link shall be in addition to three outgoing neutral links and shall be of 125 A.				
	UPS DB's shall have a dedicated Earthing link fixed on insulated supports, which will be in addition to body earth link.				
	All internal inter connecting wiring within the DB's shall be PVC insulated flexible copper conductor wires of adequate capacity as per the current rating.				
	Inside each DB, a DB chart is to be fixed.				
a	12-way SPN DB (LIGHT DB)	No.	1.00		0.00
	Incomer:-				
	1 No. 40 Amp SPN (10 KA) MCB with 40 A DP RCCB (100 MA) phase				
	Outgoing:-				
	8 Nos. 6/10 Amp (10 KA) SP MCB				
b	6-way TPN DB (POWER DB)	No.	1.00		0.00
	Incomer:-				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	1 No. 40 Amp TPN (10 KA) MCB with 40 A DP RCCB (100 MA) each phase				
	Outgoing:-				
	12 Nos.6/10 Amp (10 KA) SP MCB				
e	4-way TPN DB UPS ROOM	No.	1.00		0.00
	Incomer:-				
	1 No. 40 Amp TPN (10 KA) MCB as Incomer				
	Outgoing:-				
	1 Nos. 40 Amp (10 KA) TPN MCB, For UPS				
	4 Nos. 25/32 Amp (10 KA) SP MCB, For Split AC				
	4 Nos. 6/10/16 Amp (10 KA) SP MCB, For Lights, Power & spare				
f	4-way SPN DB with 2 No 40 A (10 KA) DP MCB (For UPS Input/output)	No.	1.00		0.00
g	16-way SPN DB (For UPS Sub DB)	No.	1.00		0.00
	Incomer:-				
	1 No. 40 Amp DP (10 KA) MCB with 40 A DP RCCB (100 MA)				
	Outgoing:-				
	12 Nos.6/10/16/25Amp (10 KA) SP MCB				
E	(LIGHT FITTINGS & ACCESSORIES)				
	Supplying, installation with hanging support, testing and commissioning of following light fixtures with electronic Ballasts, Tubes, lamps, all fixing materials including connecting wires etc. all complete as per the directions of Engineer-in-charge (All LED Light Fixures should be covered with minimum 3 Years onsite replacement warranty).				
i	FULL GLOW 2 X 2 LED 36 W slim Smart Panel of make As specified in tender document or approved by SBIIMS/Architect.	Nos.	17.00		0.00
ii	Supplying, fixing, testing and commissioning of 15 W LED commercial type down lighter of make As specified in tender document or approved by SBIIMS/Architect.	Nos.	21.00		0.00
iii	Supplying, fixing, testing and commissioning of 9 W LED commercial type down lighter of make As specified in tender document or approved by SBIIMS/Architect.	Nos.	8.00		0.00
iv	supplying , fixing ,testing and commissioning of 5 W LED commercial type spot light of make As specified in tender document or approved by bank	Nos.	3.00		0.00
v	LED 18 watt Tube Light with all accessories.make As specified in tender document or approved by bank	Nos.	2.00		0.00
vi	LED Strip for cove lighting 15 W per 5 M with driver and necessary installation fittings Led strip light (5 mtr.) make as specified in tender document or approved by SBIIMS/Architect.	Nos.	5.00		0.00

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
vii	Profile light 50mm wide complete with LED strip 5700K with driver and necessary installation fittings as per approval of SBI/ Architect.	RM	25.00		0.00
viii	Supplying, fixing, testing and commissioning of commercial type Liner light 1200 mm x 50 mm double led 240 led bulb of make As specified in tender document or approved by SBI/Architect. (Basic price Rs. 4000)	Nos.	3.00		0.00
ix	Supply, installation, testing and commissioning of following fans with all fixing materials like white Polycarbonate 2 mm Hylem sheet cover, down rods, fan box as required etc. all complete as per the directions of Engineer-in-charge.				
a	Metal body Wall mounted fans 400/450 mm dia. make As specified in tender document or approved by SBIIMS/Architect.	Nos.	9.00		0.00
b	Supply & fixing of 230 mm exhaust fan with self closing louvers and plastic body with all accessories etc. complete of make As specified in tender document or approved by SBIIMS/Architect.	Nos.	2.00		0.00
F.	EARTHING SYSTEM				
1	Supply, Installation, Testing and Commissioning of Maintenance Free Earthing system made up of copper-bonded rod of 10 feet length, 23 mm dia. (Minimum copper bonding shall be 0.25mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill).	Nos	2.00		0.00
2	Supply, Installation, Testing and Commissioning of Maintenance Free Earthing system made up of copper-bonded rod of 10 feet length, 17.2 mm dia. (Minimum copper bonding shall be 0.25 mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill).	Nos	1.00		0.00
3	Providing and fixing of Copper/ GI strips in surface or in recess for loop earthing etc. as required.				
i	25 mm x 3 mm copper strip in B-class GI pipe	RM	5.00		0.00
ii	25 mm x 5 mm GI strip	RM	100.00		0.00
iv	Providing and fixing 2 X 8 SWG dia. Cu earth wire in PVC conduit on surface or in recess for loop earthing along with the existing surface/ recess cable as required.	RM	250.00		0.00
G.	MAIN PANEL AND METER BOARD				
	Designing, fabrication, supply, installation, testing and commissionings of front operated cubicle type compartmentalised, front access, free standing on 75MM "I" MS channel, dust and vermin proof (IP 42 degree protection) panel suitable for use at 415V, 3 phase, 4-wire 50Hz system suitable for fault level of required value symmetrical at 415V fabricated from 2mm thick CRCA MS sheets with hinged, gasketted (Metal based neoprene)				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	locable doors having structural reinforcement including 3mm thick gland plates on top and bottom, lifting hooks, GI earth strip of required size with 2 nos earth terminals, 2 nos 230V AC operated 250mm X 250mm size axial fans for exhaust of heat with On-Off toggle switches including 2 coated primer and 2 power coated paint finish of approved shade over metal surface cleaned and treated with seven tank process complete with interconnections etc as per specifications as required. main panel board of approved make (KRYPTON POWER CONTROLS/NEPTUNE/TRICOLITE/AMPTECH Or should be CPRI Approved, Type of Approval as instructed by the SBIIMS/Architect) as per the following specifications, should be CPRI Approved.				
	All live accessible parts shall be shrouded and all equipment shall be finger touch proof. The busbars insulation shall be with heat shrinkable sleeves SMC/ DMC shrouds and busbar supports shall be used. Padlocking facility shall be provided on all outgoing feeders doors and switch handles shall be locable in OFF position.				
	Suitable arrangement shall be made for termination of multiple incoming cables.				
	All kA values indicated shall be Ics breaking capacity				
	GA drawings shall be got approved by SBI				
a	Fabrication, supply, installation, testing and commissionings of cubicle type floor/wall mounted L.T. panel made out of 2 mm thick CRCA sheet including connection, inter-connection along with 4 strip aluminium busbar as per CPWD specifications, (Part IV-Sub-station) etc. as required. (Main PANEL)				
	Incoming :-				
	1 no. 63 Amp with extendable rotary handle each thermal over current, instantaneous, Short circuit release, Earth fault.				
	ii) Busbar :-100 Amps 4P aluminum conductor bus bar (BPTM type Heat-shrinkable busbar insulation) supported by DMC / FRP insulators.				
	Complete panel described as above.	Set	1		0.00
b.	Floor panel shall consists of : -				
	INCOMER				
	1 No. 63 A 4 pole MCCB (16 KA) with earth fault protection WITH PHASE INDICATION				
	BUSBARS				
	100 amps TPN pole busbar chamber of suitable length with copper busbars. All busbars and interconnections shall be of suitable size copper strips.				
	OUTGOINGS:-				
	4 nos. 40/32 TP MCB (10KA) as required				
	6 nos. 40/32/25/16 SP MCB (10KA) as required	Set	1.00		0.00
	6 way VTPN DB as per drawing and as described above				
H	PUBLIC ADDRESS SYSTEM				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
1	Supply and laying Wiring of 1.5 sq mm twin core shelded type of speaker cable with Providing and fixing in position the following FRLS PVC conduits including all accessories concealed/ exposed in F.Ceiling/ Wall complete as required including 1.6/2.0 mm thick PVC junction or pull boxes with 3 mm thick perspex sheet cover plate complete with 1.6 mm dia G.I. pull wires in the length of conduit.	RM	5.00		0.00
2	Supply, installation, testing and commissioning of following Philips/BOSCH or equivalent make Music Accessories/ Equipments.				
a.	Ceiling Speaker Unit 6 Watts	Nos.	5.00		0.00
b	Power Amplifier, 70 Watts with output transformer etc. complete. Plena Range or as approved by the Bank. Capable of taking inputs from USB etc.	Nos.	1.00		0.00
c	6U Equipment Rack complete with mounting unit, speaker, power supply control etc. President make suitable for 1x70 watts amplifier system With all terminating set up.	Nos.	1.00		0.00
II	TOTAL FOR ELECTRICAL WORKS				0.00
III	AIR CONDITIONING WORK				
	AHU's AND THEIR CONTROLS				
1.1	Double Skin Ceiling Mounted AHU With Pre Filters + Fine filters (2 pipe system)				
	Supply, installation, testing and commissioning of double skin construction Horizontal/Vertical Floor/Ceiling mounted(as per approved shop drawing and specifications) draw/blow through type chilled water Air handling units fabricated out of extruded aluminium section with 0.6 mm pre-plasticized / pre-coated Galvanised steel sheet outside & 0.6 mm plain Galvanised steel sheet inside; each complete with mixing box wherever specified, low leakage aluminium aerofoil gear driven VCD & fire resistant neoprene flexible connection at outlet, pre-filter section with 50mm thick filters of non woven synthetic media (efficiency 90% down to 10 microns MERV-8) , fine filter section with 300mm thick fine filters of non woven synthetic media (efficiency 99% down to 3 microns MERV-14) ,coil section having min 6 Row Deep chilled water coil of copper tube & aluminium fins construction alongwith di- electric union of suitable size (Coil shall have copper header and supporting frame work/End plates in SS 304 construction),polished SS 304 drain pan made out of 22G sheet duly insulated, complete with squirrel cage induction, belt driven aerofoil centrifugal backward curved fan (or equivalent performance direct driven plug fan) with vibration isolators. Coil size shall be selected for a maximum face velocity of 450 feet/minute and fan outlet velocity shall be limited to 1800 FPM. Motor shall be atleast IE 2 rated suitable for 415±10% volts, 50 cycles, 3 phase AC supply, meeting criterion as per ASHRAE standard 90.1-2010 & high efficiency. The AHU panels shall be insulated with minimum 23 mm thick & 40± 2 Kg/m ³ density PU foam & shall have thermal break.				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	The motor & blower assembly shall be mounted on Aluminium extruded section only. Total static pressure shall be checked by vendor. Change in static pressure will not attract any price implication. Fan capacities shall be based on minimum 50mm static pressure as mentioned below for recirculation type AHUs. The AHUs shall be complete in all respects along with accessories as per specifications. The capacity of Air-handlers shall be as follows:				
1.1.1	AHU 3600 CFM / 10.0 TR / 6 Row CC / Aerofoil backward curved fan of 280 mm Dia (or equivalent plug fan), 1.5 KW fan Motor.(Ceiling mounted with 600mm deep mixing box) . Make:- Blue Star limited , Voltas Limited or Equivalent	No.	1		0
2	Chilled water Hi-Wall Units				
	Supply, installation, testing & commissioning of Chilled Water High wall Unit with copper tube and aluminium finned cooling coil, low noise fan and motor with ON/OFF and 3 speed control and suitable for 1 phase, 220 $\pm$ 10%V, 50 Hz electric supply, with cordless remote control, fabric filter, and decorative front grille.				
i	2.0 TR	No.	1		0
3	Pressure Independent Balancing Cum Two Way Control Valve				
	(Automatic control for AHU)				
	Supply, installation, testing and commissioning of Pressure Independent Balancing Cum Two Way Control Valve in a single body equipped with electronic modulating actuator working on 0-10 V DC, 4- 20 mA electric signal. The minimum close off Pressure of actuator must be 1.5 times shut off head of pump as per specifications of following sizes. Valve should come to close position ,if the power supply to the actuator is cut off. The valve actuator shall be compatible with digital modulating type Cooling thermostat. The valve system shall be complete with necessary power/control cabling between control transformer in the panel, valve, and standalone thermostat. The valve shall be suitable for the following pipe sizes:				
i	25 mm Dia pipe	No.	1		0
ii	32 mm Dia pipe	Nos.	1		0
iii	40 mm Dia pipe	Nos.	1		0
4	Modulating type Thermostat suitable for 2 pipe system for Airhandling units				
	Supply, installation, testing and commissioning of modulating type Digital display thermostat (with NTC sensors) for cooling mode in Airhandling units as described above. The thermostat shall be compatible with the above mentioned 2 way PIBC valves and will have provision of setting of room temperature, capable of providing space temperature control for cooling application. The thermostat shall produce a output to cooling in response to load change in space. Related control cabling is already captured in above mentioned control valves.				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	Cooling mode modulating type thermostat as described above	Nos.	1		0
5	Propeller Fans				
	Supplying, installing, testing and commissioning of direct driven PROPELLER FANS for exhaust/fresh air as shown in drawings. Each fan shall be complete with permanent split capacitor or shaded pole motor, mounting plate, accessories like wire guard, bird screen and fixed louvers for weather protection as required. Fan shall be provided with speed regulator and NC level 3M away from source shall be less than 60db. Fan selection arrangement and Electrical characteristics shall be as follows :				
i	225 mm dia 900 RPM fan suitable for 240± 10% volts 50 cycles, 1 phase AC supply.	No.	2		0
6	Chilled / Condenser Water Piping				
	Supply, Installation, testing & Commissioning of MS "C" class ERW Chilled water piping conforming to IS1239/IS3589 cut to required lengths & installed with grooved fittings such as bends, elbows, tees, reducers, rubber gaskets, factory fabricated GI piping supports & vibration isolators, companion flanges, thermowells for sensors/thermometers & socket for BAS, painting etc. Price shall also include pressure testing.				
i	20 mm dia pipe	Rmt	15		0
ii	25 mm dia pipe	Rmt	15		0
iii	32 mm dia pipe	Rmt	40		0
iv	40 mm dia pipe	Rmt	10		0
7	Ball Valves (in Cast steel construction three piece design with screwed end)				
	Providing and fixing in position the following Ball Valves as per the specifications. Ball valves shall be complete with companion flanges, nuts, bolts, gaskets etc. as required. Quoted price shall be inclusive of insulation for chilled & hot water as per the specifications and of PN-16 rating.				
i	20 mm dia	Nos.	4		0
i	25 mm dia	No.	2		0
ii	32 mm dia	Nos.	2		0
iii	40 mm dia	Nos.	1		0
8	Ball Valves (For Drain purpose ,in forged brass/Gun metal construction with screwed end)				
	Providing and fixing in position the following ball Valves as per the specifications. Quoted price shall be inclusive of insulation as per the specifications and of PN-16 rating.				
i	20 mm dia	Nos.	2		0
ii	15 mm dia	Nos.	2		0
9	Y-strainer				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	Providing and fixing in position the following Y-strainers as per specifications (PN - 16). Y strainers shall be complete with companion flanges, nuts, bolts, gaskets etc. as required. Quoted price shall be inclusive of insulation as per the specifications.				
i	25 mm dia	No.	1		0
ii	32 mm dia	Nos.	1		0
iii	40 mm dia	Nos.	1		0
10	Auto air Purge				
	Providing and fixing in position the following automatic purge valve with ball valve.				
	15mm dia	Nos.	2		0
11	Condensate Drain Piping				
	Supply, installation, testing and commissioning of condensate drain water piping of uPVC complete with fittings like elbows, tees, reducers, bends, U-traps, braided flexible pipe connections with GI clamps, flanges, supports, solvent etc. as required conforming to tender specifications and of following sizes.				
i	20 mm dia pipe	Rmt	35		0
12	Site Fabricated GI Duct				
	Supply, fabrication, Installation, testing and commissioning of site fabricated rectangular ducts using G.I Sheets (120GSM coating). The price shall include factory fabricated MS flanges (wherever required), turning vanes, splitter dampers, supports (factory fabricated, full threaded G.I rod/hangers & G.I slotted channel), sealant, neoprene gasket, access door etc. as required and as per ISI specifications.				
	The joints shall be with least leak and shall be tested with pressure testing machine of approved vendor. Corrective action shall be taken ,if the leakge is more than the permissible limit. Report shall be generated after satisfactory testing of ducts for leakage and shall be duly signed by the client's /PMC representative before giving clearance for the thermal insulation. Gaskets used shall have low VOC content and should comply LEED requirement.				
i	24 gauge galvanized sheet steel	Sq.m	80		0
ii	22 gauge galvanized sheet steel	Sq.m	10		0
13	GSS VOLUME CONTROL DAMPER				
	Supply, installation, testing and balancing of opposed multiblade box type GI volume control damper within ducts to be provided with suitable links, levers and quadrants for manual control of volume of air flow and for proper balancing of the air distribution system as per approved shop drawings & specifications. (All AHUs, fan sections VCD at machine outlets shall be included in the equipment cost only)	Sqm	2		0
14	Diffusers				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	Supply , installation , testing and commissioning of Powder coated Aluminium extruded Diffuser as per specification & the sizes will be as per drawings and schedules :				
i	Supply Air Diffuser with Damper for balancing the air flow by remote	Sqmt	6		0
ii	Return Air Diffuser without Damper	Sqmt	6		0
15	SUPPLY/RETURN GRILLS				
	Supplying , installation, testing ,balancing & fixing of powder coated extruded aluminium Grills of various sizes and as per specifications and approved drawings and schedules.				
i	Supply Air Grills with Collar Damper	Sqmt	1		0
ii	Return Air Grills	Sqmt	1		0
16	Thermal Insulation(Internal ducting):				
	Supply & installation of external thermal insulation on ducts with approved sample of black colour factory laminated fibre glass cloth on closed cell nitrile rubber/Aluminium foil faced XLPE duct insulation with density 40-60 Kg/ Cum for nitrile rubber & density 25-30 Kg/Cum for XLPE, class 'O' complete as per specifications. All longitudinal and transverse joints shall be sealed with 50mm wide and 3mm thick Nitrile rubber /XLPE tape .The cost shall be inclusive of Low VOC adhesive and should comply LEED requirement.				
a	13mm thick	Sqm	90		0
17	Acoustic lining				
	Supply & Installation of acoustic lining within supply and return air ducting using open cell elastomeric insulation/XLPE insulation with with 140-160 Kg/cum. density.All ducts shown cross hatched on the approved shop drawings shall be provided with acoustic lining as per the specifications.The cost shall be inclusive of low VOC adhesive and should comply LEED requirement.				
	15 mm thick	Sqm	10		0
18	Chilled water pipe Insulation				
	Supply, Installation & Testing of below mentioned thickness of insulation with factory laminated black colour fibre glass cloth on closed cell elastomeric nitrile rubber/ Aluminium foil faced XLPE insulation with density 40-60 Kg/ Cum for nitrile rubber & density 25-30 Kg/cum for XLPE, class 'O' material, in tubing form/flat sections for chilled water piping (including fittings,valves & flanges) to be installed in risers, branch piping and laid on terrace as per specifications and approved shop drawings.				
	All longitudinal and transverse joints shall be sealed with 50mm wide and 3mm thick Nitrile rubber /XLPE tape .The cost shall be inclusive of low VOC adhesive and should comply LEED requirement.Quoted price shall be inclusive of adhesive and UV/mechanical protection using UV resistant paint/starbond coating spread over Glass cloth as per specifications.				

S.NO.	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
	25 / 32 mm thick insulation suitable for following pipe sizes				
i	20 mm dia pipe	Rmt	15		0
ii	25 mm dia pipe	Rmt	15		0
iii	32 mm dia pipe	Rmt	40		0
iv	40 mm dia pipe	Rmt	10		0
19	Air Purification				
	Air purification for ceiling suspended Ductable indoor units				
	The system shall be integrated with the existing pre-section				
	Electronic filters should consist of an Internet of Things (IoT)				
i	610*610*25	Each	2		0
ii	610*305*25	Each	2		0
iii	Supplying , installation testing & commissioning of IOT complete including hardware , software integration , cloud platforms, and mobile-ready user interfaces etc. All key components as per approval and instructions of the Architect / employer.	Each	1		0.00
	Sub-Total Carried To Summary				0
I	TOTAL INTERIOR FURNISHING & CIVIL WORK (ITEM NO. 1.0 TO 7.0)				0.00
II	TOTAL ELECTRICAL WORK				0.00
III	TOTAL AIR CONDITIONING WORK				0.00
	TOTAL (I +II +III)				0.00
	LESS DISCOUNT (%) (IF ANY) (-)			Rs.	0.00
	GRAND TOTAL			Rs.	0.00
	(RUPEES)				