

UCO BANK					
ABSTRACT OF COST				DATE :	
COMBINE ESTIMATE FOR COMPOSITE WORK FOR OFFICE PREMISES AT SECTOR-75 , NOIDA					
S.NO	ITEM DESCRIPTION	UNIT	QTY	RATES	AMOUNT
A	FURNISHING WORK				
1	Providing and fixing in position Full Height Partition with GI framework (MAKE :- Apollo/JSW/JINDAL) of 600 X 600 mm grid (horizontally and vertically) comprising of 50 mm X 50 mm heavy duty GI (C)-Sections corrugated of 1.5 mm minimum thickness with 12 mm thick moisture resistant HDHMR (interior grade) (Make:- Century/Green/Actiontesa) on both sides finished with anti termite paint and 1 mm thick high gloss laminate (Basic Rate :- 60rs/sqft) on both sides in approved shade with groove pattern. Item includes provision of grooves in desired pattern, finishing the grooves with woodtech filler (asian paints/ nerolac paints) of specified shade. The rate includes provision of extra framework for skirting, niches and making cutouts for electrical switch plates, switch boxes, light fittings, making provision for laying conduits as per drawings & directions. Make:-Geenply/Action Tesa/Century.	SQ.MT	50.0		
	Measurement of height shall be taken from finished floor level up to the level of false ceiling. In case of false ceiling, the vertical GI members to be fixed to RCC ceiling or to be joined with False ceiling framing with screws but the area of partition payable will be below the false ceiling only. 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, nothing extra for designing and provision of niches and vertical sections.				
2	Providing and fixing in position Low Height Partition upto height of 1200 mm supported with GI framework (MAKE :- Apollo/JSW/JINDAL) of 600 X 600 mm grid (horizontally and vertically) comprising of 50 mm X 50 mm heavy duty GI (C)-Sections corrugated of 1.5 mm minimum thickness with 12 mm thick moisture resistant HDHMR (interior grade) (Make:- Century/Green/Actiontesa) on both sides finished with anti termite paint and 1 mm thick high gloss laminate (Basic Rate :- 60rs/sqft) on both sides in approved shade with groove pattern. 10 mm thick acid wash glass is to be fixed with SS clamp at the exposed edges of the partition. Item includes 2nd class teakwood / pine wood beading corner chamfered of size 75 X 25 mm.All exposed woodwork to be high gloss melamine polished after using proper masking tapes while polishing to prevent any damage tohigh gloss laminate.Make:- Geenply/Archicd/Century.	SQ.MT	2.0		
	Measurement of height shall be taken from finished floor level. 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, nothing extra for designing and provision of niches and vertical sections.				
3	Providing and fixing full glazed glass partition including door with 12 mm thick Toughened Glass fixed to the floor / wall / false ceiling / partition / panelling with patch fittings moving on double action hydraulic heavy duty floor spring (Hettich/Ozone/Dorma) and pivot on top. The glass is to be machine cut & the surface polished, floor spring to be properly embedded inside the floor spring after cutting and making good the floor and finally covering with Stainless Steel cover plate, The doors are to be provided with Lock fitted to the glass, 600 mm long & 25 mm dia Stainless Steel door handles along with all associated patch fittings (Make:- SaintGobin, Modi Gaurd,Ashai India.) Fixed Glass Partition	SQ.MT	10.0		
4	Frameless Door	SQ.MT	4.0		
5	Providing & fixing Glazed Door 30 mm thick flush door with 10 mm teak wood lipping on all sides finished with 1.0 mm thickhigh gloss laminate of approved shade fixed on both sides and provision of vision panel of size 150 mm X 1500 mm having 12 mm thick float glass fixed with 10 mm thick teakwood lipping. The door is to be fixed to wooden frame of 2nd class teakwood/sal wood members of size 75 x 75 mm and the frames is to be fixed with partition / wall with holdfast / GI fastner. The door is to be provided with cylindrical lock, door closer, spring loaded SS Door stopper, heavy-duty SS ball bearing butt hinges 100 x 5.5 mm (4 EACH per shutter) with screws. All wood surfaces to be treated with 2 coats of Fire retardant paint Viper of navair/equivalent and finally finished with malamine polish complete to the satisfaction of Bank's Engineer.Make:-Geenply/Archicd/Century.	SQ.MT	4.0		
6	Providing & fixing Solid Flush Door 30 mm thick flush door with 10 mm teak wood lipping on all sides finished with anti termite paint and 1.0 mm thickhigh gloss laminate of approved shade fixed on both sides. The door is to be fixed to wooden frame of 2nd class teakwood/sal wood members of size 75 x 75 mm and the frames is to be fixed with partition / wall with holdfast / GI fastner. The door is to be provided with 12 x 200 mm SS Aldrop, 150 mm SS handles (2 nos), 200 mm long SS tower bolt, door closer, spring loaded SS Door stopper, heavy-duty SS ball bearing butt hinges 100 x 5.5 mm (4 EACH per shutter) with screws. All wood surfaces to be treated with 2 coats of Fire	SQ.MT	4.0		

7	Providing & fixing Single leaf Fire Rated Door of 90 minutes or 2 hours fire rating of (Make:- TATA Pravesh/Nitsui/Equivalent) as approved of overall size 900x2100 mm. The product should carry 5 years warranty on manufacturing and powder coating.Door Leaves constructed from 1.6 mm (12 SWG) thick Galvanized Iron Sheet (conform to IS 277), overall thickness of 46 mm and Rockwool/Mineral wool/Honeycomb craft paper used as in-fill material. The door frames are to constructed from 1.6 mm (12 SWG) thick skin pass Galvanised Iron Sheet (conform to IS 277) formed to single rebate profile of size with profile dimesnions 0.143 m x 0.058 m. Vision glass of 6 mm clear float glass of size 0.2 m x 0.3 m.The door frame and door shutter are to be coated with Zinc Phosphate Stoving Primer and to be powder coated with epoxy polyester/pure polyester/polyurethane with minimum dry film thickness of 60-65 microns from both sides. Stainless Steel Ball bearing butt hinges 0.102 m x 0.076 m x 3 mm - 04 nos per shutter and mortise sash lock with lever	EACH	0.0		
8	Providing and fixing Louvered Shutter Cabinet for Main Panel fabricated out of 18 mm thick Fire Retardant HDHMR/Board (FRHDHMR) (conform to BS 476 : Part 7 Class 1) finished with putty and fire retardant paint from inside and 1 mm thickhigh gloss laminate of approved make & shade (Basic Rate :- 60rs/sqft) from outside.(Make:- Greenpanel Max/Archid/Century). 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 EACH per shutter) with necessary screws, harwares. Front facia shall be measurement 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. Measurement going:- 12 EACH10/20 Amp (10 KA) SP MCBhing extra for designing and provision of niche	SQ.MT	4.0		
9	Providing & fixing Panelling (Laminate) with frame work of 600 X 600 mm grid (horizontally and vertically) comprising of 50 mm X 50 mm heavy duty GI (C)-Sections corrugated of 1.5 mm minimum thickness with 12 mm thick moisture resistant HDHMR (interior grade) and 1.0 mm thk.high gloss laminate of approved shade (Basic Rate :- 60rs/sqft). Paneling to have up to 3 EACH of 50 mm high metallic decorative texturehigh gloss laminate band. Paneling to have 50x35mm teak wood moulding on edges. Panelling to have provision of extra frame work as necessary for skirting, coves and making cutouts for electrical switch plates, switch boxes, light fittings as per directions and complete to the satisfaction of the Bank's Engineer. Make:- Century/Actiontesa/Greenlam.	SQ.MT	60.0		
	Measurement of height shall be taken from finished floor level up to the level of false ceiling. In case of false ceiling, area of panelling payable will be below the false ceiling only. In case of varying heights on either side of panelling, average height shall be considered. Measurement shall be taken of the visible front surface (elevation - 2D surface) only, nothing extra for designing and provision of niches and vertical sections.				
10	Providing & fixing Panelling (Wall Paper) with with 12 mm thick moisture resistant HDHMR (interior grade) and Wall Paper (Elemento/ Marshal). Paneling to have 50x35mm teak wood moulding on edges. Panelling to have provision of extra frame work as necessary for skirting and making cutouts for electrical switch plates, switch boxes, light fittings as per directions and complete to the satisfaction of the Bank's Engineer. (Base Price of wall paper to be used to be Rs. 80/ sq.ft. without taxes). Measurement of height shall be taken from finished floor level up to the level of false ceiling. In case of false ceiling, area of panelling payable will be below the false ceiling only. In case of varying heights on either side of panelling, average height shall be considered. Measurement shall be taken of the visible front surface (elevation - 2D surface) only, nothing extra for designing and provision of niches and vertical sections	SQ.MT	4.0		
11	Providing & fixing Panelling (Digital Print Lacquer Glass) with frame work of 600 X 600 mm grid (horizontally and vertically) comprising of 50 mm X 50 mm heavy duty GI (C)-Sections corrugated of 1.5 mm minimum thickness with 12 mm thick moisture resistant HDHMR (interior grade) and lacquered glass of 6 mm thickness (PLANILACQUE@-saint Govin), of any colour with superior quality natual colour glass silicon / resine / Araldite and wooden beading support as per directions and complete to the satisfaction of the Bank's Engineer. The edges of the glass panels are to be bevelled and rounded from all the sides. (Base Price of lacquered glass to be used to be Rs. 200/ sq.ft. without taxes). Measurement of height shall be taken from finished floor level up to the level of false ceiling. In case of false ceiling, area of panelling payable will be below the false ceiling only. In case of varying heights on either side of panelling, average height shall	SQ.MT	2.0		

12	Providing & fixing in position Aluminium Composite Paneling (ACP) with framing of aluminium tube sections of 38mm X 25mm and 20 gauge at a spacing of 2' center to center both ways. ACP to be of shade as approved by Bank in 2' width panels or distributed equally. ACP sheets to be fixed to the frame with 3M make adhesive along with mirror screws . Joints to be finished with silicon based sealant. ACP sheets to be min. 3mm thick with aluminium foil thickness to be min. 0.25 mm on both sides. Item includes providing additional sections to fix indoor AC units which will be installed at the higher position. Make:- Astrong/Alstone. Measurement shall be taken of the visible front surface (elevation - 2D surface) only, nothing extra for designing and provision of niches and vertical sections.Item includes providing False Ceiling in plane, curve shape and design. Suspending system and frame work shall match layout of A.C. ducts /	SQ.MT	10.0		
13	Providing and fixing Gypsum Board False Ceiling at all heights (make : GYPROC/SAINTGOBAIN/INDIA GYPSUM ULTRA/approved) make main ceiling sections at 1200 c/c and cross members at 450 c/c of (MAKE :- Apollo/JSW/JINDAL) . The grid work to be suspended from ceiling with hangers at every 1200 c/c in both directions. The Frame work to be as per manufacturer's specifications. 12.5 mm thk. GYPBOARD/approved make to be screwd to the frame. The board to be finished with filling the tapered edges of the board with jointing compound and finishing with paper tape of INDIA GYPSUM/approved make. The ceiling to be finished with a top coat (plastic emulsion paint with 'Velvet Touch' of approved brand and manufacture to give an even shade: Two or more coats on new work with rollers/ spray) as per manufacturer's specification along with provision of all necessary cut outs for electrical / air conditioning grills and necessary frame work including cove and curve designs etc. complete to the satisfaction of Bank's Engineer.	SQ.MT	20.0		
14	Providing and fixing False Ceiling with Mineral Fibre Acoustic Ceiling Tiles of Armstrong/ USG/ Boral with MICROLOOK edges and having noise reduction properties laid on exposed grid system with 15mm wide Silhouette type T-section flanges of white colour, main runners spaced at 1200 mm c/c securely fixed to the soffit of structure with approved hangers at 1200 mm maximum c/c. Flush fitting 1200 mm crossed tees to be interlocked between main runners at 600 mm c/c to form 1200 x 600 modules. 1200 mm cross tees to be crimped. 600 x 600 module to be formed by fixing 600 mm long flush fitting cross tees centrally between the 1200 cross tees. Ceiling tiles of Dune Premier of size 600 x 600 x 15 mm (thk.) to be placed in the grid. Rate to include making necessary cut-outs or openings for light fixtures, air conditioners and other utilities etc. complete to the satisfaction of Bank's Engineer. Make:- Armstrong/Gypro/Luxelon.	SQ.MT	50.0		
15	Providing and fixing plain non perforated metal sheet GI tiles Grid False Ceiling of size 600mm x 600mm having ceiling sections at 600 mm center to center both ways duly fixed with screws. The grid work to be suspended from ceiling with hangers at every 600 mm center to center in both directions. The framework to be as per manufacturer's specifications. Item includes providing extra support for fixing light fixture complete to the satisfaction of Bank's Engineer. Make:- Armstrong/Gypro/Luxelon.	SQ.MT	2.0		
16	Providing and fixing in position BM Table 2100x900x750(H)mm. with the following specifications:The front facia/front modesty panel shall be made from 19 mm thick Moisture Resistant Grade Commercial Block Board finsihed with 1 mm thickhigh gloss laminate. Part of the front facia shall be finished with high gloss of 1mm designer laminate (Base rate 70rs sq.ft) with 3mm groove design and popup style finish with cove light provision. Table and drawer wil be as per givoen drawings after handover the site. The drawer are to be fixed on telescopic channel channels with 100 mm wide SS handles in matt finish and one multipurpose lock per drawer. Telescopic CPU trolley with castors and readymade keyboard tray of size 600 x 270 mm fixed on telescopic channels of approved make shall be provided The inside surafces are to be finished with 0.8 mm whitehigh gloss laminate Footrest 75x50mm made of 2nd class teakwood member to be fixed in the table.The rate shall include providing all hardware such as drawer channels, sash lock with lever handles, necessary hardwares for fitting complete. sion of	EACH	1.0		
17	Providing and fixing in position Officer Tables 1300-1500x750x750 (H)mm. with the foloowing specifications:The front facia/front modesty panel shall be made from 19 mm thick Moisture Resistant Grade Commercial Block Board finsihed with 1 mm thickhigh gloss laminate. Part of the front facia shall be finished with high gloss of 1mm designer laminate (Base rate 70rs sq.ft) with 3mm groove design and popup style fisnish with cove light provision. Table and drawer will be as per givem drawings. Telescopic CPU trolley with castors and readymade keyboard tray of size 600 x 270 mm fixed on telescopic channels of approved make shall be provided The item to include 10 mm thick lipping/ teak patti to all edges and all exposed teakwood surfaces / wooden beading are to be finished with melamine polish shade matching withhigh gloss laminate colour. The inside surafces are to be finished with 0.8 mm whitehigh gloss laminate Footrest 75x50mm made of 2nd class teakwood member to be fixed in the table.	EACH	1.0		

18	Providing and fixing in position Assistant Tables 900-1350x600x750 (H)mm. with the following specifications: The front facia/front modesty panel shall be made from 19 mm thick Moisture Resistant Grade Commercial Block Board finished with 1 mm thick high gloss laminate. Part of the front facia shall be finished with high gloss of 1mm designer laminate (Base rate 70rs sq.ft) with 3mm groove design and popup style finish. Telescopic CPU trolley with castors and readymade keyboard tray of size 600 x 270 mm fixed on telescopic channels of approved make shall be provided. Footrest 75x50mm made of 2nd class teakwood member to be fixed in the table. The rate shall include providing all hardware such as drawer channels, S.S. handles, cable manager, lock of approved make:- hettich/ godreg/ ozone.	EACH	2.0		
19	Reception counter in semi circular/linear shape with Customer top 300 mm higher than working top as per design & Details to the satisfaction of Bank's Engineer. The table size to be 1800x750x1050	EACH	0.0		
20	Providing and fixing in position Side Table for Branch Manager 1050x450x750(H)mm. with the following specifications: The side table top to be fabricated with 19 mm thick Moisture Resistant Grade Commercial Block Board finished with anti termite paint and 1 mm thick high gloss laminate and 8 mm thick clear toughened glass with bevelled edges to be provided on top. The front shutters shall be made from 19 mm thick Moisture Resistant Grade Commercial Block Board finished with 1 mm thick high gloss laminate and matching edge binding tape on all sides. The side supports shall be made up from 19 mm thick Moisture Resistant Grade Commercial Block Board finished with anti termite paint and 1 mm thick high gloss laminate. Make:-Greenply/Archichd/Century. The back side shall be made from 12 mm thick Moisture Resistant Grade Commercial plywood finished with 1 mm thick high gloss laminate from outside.	EACH	1.0		
21	Side Table for Officers 900x450x750(H)mm. The side table shall be provided with two drawers and one below shutter cabinets divided into two parts and one intermediate shelf made from 12 mm thick Moisture Resistant Grade commercial plywood finished with 1 mm high gloss laminate on exposed surfaces. The drawer shall be upto 400 mm wide & 450 mm deep. The drawer are to be fixed on telescopic channel channels with 100 mm wide SS handles in matt finish and one multipurpose lock per drawer. The shutters are to be fixed with hydraulic autocloser hinges, lock on one of the shutters with 100 mm tower bolt.	EACH	1.0		
22	Providing and fixing modular type Voucher Tray 900x300x1050 mm deep made out of 19 mm thick Moisture Resistant Grade Commercial Block Board finished with 1 mm thick high gloss laminate of approved make, shade and texture with writing top of 12 mm bevelled edge glass and racks for keeping vouchers and cheque drop box with slit for dropping of cheque, glass for viewing and cup board locking arrangement as per Engineer-in-Charge. All exposed edges to be finished with edge binding tape. Make:-Greenply/Archichd/Century.	EACH	1.0		
23	Providing and fixing in position Looking Mirror of size 600mm x 1500mm in locker room fabricated of 6 mm thick copper back finish looking mirror with bevelled edges fixed on 12 mm thick moisture resistant HDHMR (interior grade) and 1.0 mm thk. high gloss laminate of approved shade on all exposed surfaces. All exposed edges shall be finished with 38mmx19mm teakwood moulding. The looking mirror shall be provided with inbuilt two drawers made from 12 mm thick Moisture Resistant Grade commercial plywood finished with 1 mm high gloss laminate on exposed surfaces. The drawer shall be upto 300 mm wide & 225 mm deep. The drawer are to be fixed on telescopic channel channels with 100 mm wide SS handles in matt finish and one multipurpose lock per drawer.	EACH	1.0		
24	Providing & fixing Storage with the following specifications: The top to be fabricated with 19 mm thick Moisture Resistant Grade Commercial Block Board finished with anti termite paint and 1 mm thick high gloss laminate. Make:-Greenply/Archichd/Century. The front shutters shall be made from 19 mm thick Moisture Resistant Grade Commercial Block Board finished with 1 mm thick high gloss laminate and matching edge binding tape on all sides. The side supports shall be made up from 19 mm thick Moisture Resistant Grade Commercial Block Board finished with 1 mm thick high gloss laminate. The back side shall be made from 12 mm thick Moisture Resistant Grade Commercial plywood finished with 1 mm thick high gloss laminate from outside. The storages shall have continuous vertical partitions at every 900 mm with 19 mm thick Moisture Resistant Grade Commercial Block Board finished with 1 mm thick high gloss laminate and intermediate shelf at every 300 mm made from 12 mm thick Moisture Resistant Grade commercial plywood f sash lock with lever handles, necessary				
25	The item to include 10 mm thick lipping/teak patti to all edges and all exposed teakwood surfaces / wooden beading are to be finished with melamine polish shade matching with high gloss laminate colour. The inside surfaces are to be finished with 0.8 mm white high gloss laminate and edge to be pasted with edge binding tape of matching high gloss laminate shade. The rate shall include providing all hardware as mentioned above. Grooves to be finished with woodtech filler (asian paints/ nerolac paints) of matching shade to high gloss laminate. Note: Only front elevation shall be considered for area/ quantity calculation and payment. Low Height Storage up to 750-1200 mm high and 450 mm deep.	SQ.MT	10.0		

26	Pantry Storage (Shutters under Platform) 600 mm deep	SQ.MT	1.0		
27	Pantry Storage (Overhead Unit) 400 mm deep	SQ.MT	1.0		
28	Providing and fixing polyster based Digital Glass Deco Film (3M) laser cut as per design complete to the satisfaction of Bank's Engineer.	SQ.MT	10.0		
29	Providing and placing in position Center Table of size 1000x600x450 mm with 40mm teakwood legs 62.5x35 mm teakwood frame at top with 10 mm machine cut polished, bevelled brown glass fixed on SS spacers on top. The table to be finished in melamine polish complete.	EACH	0.0		
30	Providing & fixing of WPC ceiling in wooden texture of 25mm x 100 mm in 2mm thk. Hallow section with all fitting and asseccoeries.	SQ.MT	2.0		
TOTAL FURNISHING WORK(C)					
B	ELECTRICAL 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 (whereever 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 filling 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.				
	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.	2.00		
ii	Two light points controlled by one 6 amp. Modular switch	Nos.	2.00		
iii	Three light points controlled by one 6 amp. Modular switch	Nos.	4.00		
iv	Four light points controlled by one 6 amp. Modular switch	Nos.	4.00		
v	Five light points controlled by one 6 amp. Modular switch	Nos.	8.00		
vi	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		
vii	One wall fan/ exhaust fan point controlled by one 6 amp. Modular switch. The switch should be at switchboard level	Nos.	5.00		
viii	One 5 pin socket controlled by one 6 amp. Modular switch complete assembly includes plate box etc.				
a	Dependent	Nos.	2.00		
ix	One ceiling fan point with step type regulator	Nos.	2.00		
x	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	Nos.	1.00		
b	Secondary	Nos.	1.00		
xi	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.	1.00		
10	POWER POINT :- 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).	EACH	2.0		
11	Secondary point	EACH	5.0		
11	A.C. POINT :- Same as serial no.1, but wiring for A/C socket (Crebreen/SOUTHwest/philips) 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.	EACH	5.0		
12	Same as serial no.1, but wiring for A/C socket by using 2*6 sq.mm. PVC insulated 1100 V grade copper conductor wire and earthing with 1*6.0 sq.mm. PVC insulated 1100 V grade copper conductor wire of weather proof type 2 way SPN DB complete in all respects controlled by with 32 Amp (10 KA) MCB to be provided near outdoor unit. The point starts from DB to the point near the outdoor unit. Item to also include termination lid between MCB and outdoor unit.	EACH	0.0		

13	Same as serial no.1, but wiring for A/C socket by using 4*6 sq.mm. PVC insulated 1100 V grade copper conductor wire and earthing with 1*6.0 sq.mm. PVC insulated 1100 V grade copper conductor wire and weather proof type 4 way SPN DB complete in all respects controlled by with 40 Amp TPN (10 KA) MCB to be provided near outdoor unit. The point starts from DB to the point near the outdoor unit (includes wires for terminal connection of outdoor unit from TPN) including wiring to the terminals of the outdoor unit from weather proof box. Item to also include termination lid between MCB and outdoor unit.	EACH	0.0		
14	COMPUTER POINT :- 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 EACH 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. Primary	EACH	2.0		
15	Secondary	EACH	4.0		
16	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 1 EACH 16 amps 5 pin modular type sockets, 1 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. Primary	EACH	1.0		
17	Secondary	EACH	1.0		
18.0	TELEPHONE SYSTEM :- 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 telephone socket with shutter, RJ 47 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. Make:- RJ-11 Carbtone/Philips.	EACH	4.0		
19.0	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. Supplying & fixing 10 pair krone tag block with enclosure.	EACH	1.0		
20.0	COMPUTER NETWORKING :- Wiring for computer networking from Jack Panel in data rack to computer workstation with Cat-6 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-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.	EACH	8.0		
21.0	Supplying and fixing 9 U (Rack with glass door, opening in the front power panel 1 (horizontal), cable manager 1 lock & key).	EACH	1.0		
22.0	Supply, Installation, Testing & Commissioning of 24 port Jack Panel.	EACH	1.0		
23.0	Supplying and fixing Patch Cord-2 Meter- (DBPS Mounting Cord)	EACH	16.0		
24.0	Supplying and fixing Patch Cord-1 Meter-	EACH	8.0		
25	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. 2 X 6 sq.mm. + 1 X 6 sq.mm.	RM	5.0		
26	2 X 4 sq.mm. + 1 X 4 sq.mm.	RM	5.0		
27	Supplying, laying, testing & commissioning of 4 C X 16 sq.mm. at 1100 volts grade PVC insulated aluminium 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 (, LIGHT PLUG DB, UPS Room & Power DB).	RM	10.0		
28	Supplying, laying, testing & commissioning of 4 C X 25 sq.mm. at 1100 volts grade PVC insulated aluminium 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 (AC DB).	RM	20.0		
29	Supplying, laying, testing & commissioning of 4 C X 50 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (for Main Connection)	RM	10.0		

30	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 boxl, 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.Make:- L&T/Havells/Legrand.				
	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 (Legrand/Schneider) 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 with in 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. 6-way TPN DB (LIGHT DB & 6 A raw point) Incomer:- 1 No. 40 Amp TPN (10 KA) MCB with 40 A DP RCCB (100 MA) each phase Outgoing:- 12 EACH10/20 Amp (10 KA) SP MCB	EACH	1.0		
31	6-way TPN DB (POWER DB) Incomer:- 1 No. 40 Amp TPN (10 KA) MCB with 40 A DP RCCB (100 MA) each phase. Outgoing:- 12 EACH10/20 Amp (10 KA) SP MCB	EACH	1.0		
32	8-way SPN DB (UPS INPUT) Incomer:-1 No. 63 Amp TPN Outgoing:- 2 EACH40 Amp DP MCB	EACH	1.0		
33	4-way V-TPN DB (AC) Incomer:- 1 No. 63 Amp TPN 4 Pole (16KA) MCCB Outgoing:- 3 EACH 32 Amp (10 KA) TP MCB 3 EACH 32 Amp (10 KA) SP MCB	EACH	1.0		
34	2-way SPN DB with 40 A DP MCB (For UPS Input / output)	EACH	1.0		
35	12-way SPN DB (For UPS OUTPUT) Incomer:- 1 No. 40 Amp DP (10 KA) MCB with 40 A DP RCCB (100 MA) Outgoing:- 8 EACH6/10/16 Amp (10 KA) SP MCB	EACH	1.0		
36	8-way SPN DB (For ELOBBY UPS OUTPUT) Incomer:-1 No. 25 Amp DP (10 KA) MCB with 25 A DP RCCB (100 MA) Outgoing:- 4 EACH6/10/16 Amp (10 KA) SP MCB	EACH	1.0		
37	8-way SPN DB (For ELOBBY Light& Power db) Incomer:- 1 No. 40 Amp DP (10 KA) MCB with 40 A DP RCCB (100 MA) Outgoing:- 4 EACH6/10/16/25 Amp (10 KA) SP MCB	EACH	1.0		
38	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). FULL GLOW 2 X 2 LED 32 W slim Smart Panel of make As specified in tender document or approved by PNB/ Architect.Make:- Philips/Wipro/Havells.	EACH	14.0		
39	Supplying, fixing, testing and commissioning of 15/18 W LED commercial type down lighter of make As specified in tender document or approved by UCO/ Architect. Make:- Philips/Wipro/Havells.	EACH	24.0		
40	Supplying, fixing, testing and commissioning of 20 W LED T 8 fitting make As specified in tender document or approved by UCO/ Architect. Make:- Philips/Wipro/Havells.	EACH	4.0		
41	LED Strip for cove lighting 15 W per 5 M with driver and necessary installation supporting fittings of Led strip light (5 mtr.) make as specified in tender document or approved by UCO/ Architect. Make:- Philips/Wipro/Havells.	EACH	10.0		
42	Wall mounted fans 400/450 mm dia. make As specified in tender document or approved by UCO/ Architect. (METAL BODY) Make:- Cropmton/Orient/Havells.	EACH	1.0		
43	Ceiling fans 1200 mm dia. make As specified in tender document or approved by UCO/ Architect.	EACH	1.0		
44	Supply & fixing of 230 mm exhaust fan with louvers and plastic body with all accessories etc. complete of make As specified in tender document or approved by PNB/ Architect. Make:- Cropmton/Orient/Havells.	EACH	2.0		
45	EARTHING SYSTEM :- 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).	EACH	2.0		

46	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).	EACH	2.0		
47	Providing and fixing of Copper/ GI strips in surface or in recess for loop earthing etc. as required. 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 with using of copper lug at end termination.	RM	10.0		
48	MAIN PANEL AND METER BOARD :- Supply, installation, testing and commissionings of cubicle type floor/wall mounted L.T. Metal D.B of reputed make with extendable rotary handle and extended connecting links. 1 No. 125 Amps,TPN MCCB (25 KA) with standard enclosure as per manufacturer specification or as approved by the architect/Bank's Engineer	EACH	1.0		
49	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/XLPE Cable 50Hz system suitable for fault level of required value symmetrical at 415V fabricated from 2 mm thick CRCA MS sheets with hinged, gasketted (Metal based neoprene) locable doors having structural reinforcement including 3 mm thick gland plates on top and bottom, lifting hooks, GI earth strip of required size with 2 nos earth terminals, 1 nos 230V AC operated 250 mm X 250 mm 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 (Supertech Power Control/Zeniya/Ampitech/Neptune) or Equivalent as approved by Architect /Bank.	EACH	1.0		
	Type of Approval as instructed by the PNB/ Architect). 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 lcs breaking capacity. GA drawings shall be got approved by Architect / PNB. Floor panel shall consists of : - INCOMER FROM MAIN LINE 1 No. 125 Amps,TPN MCCB (25 KA) with extendable rotary handle each thermal over current, instantaneous, Short circuit release,Earth fault. BUSBARS 150 amps TPN pole busbar chamber of suitable length with copper busbars. All busbars and interconnections shall be of suitable size copper strips. INDICATING PANEL Digital flush type class-1.0 accuracy multifunction meter showing V, A, PF etc. with 3 EACH current transformers of 125/5A ratio, 10 VA Class-1.0 metering. - 1 sets				
	Red/Blue/Yellow three phase indicating lamps with SP MCB backup protection. OUTGOINGS:- 1 Nos 40A TPN MCCB (16 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. For capacitor Bank. 1 Nos 63A TPN MCCB (16 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. For AC VTPN, INCOMER FROM MAIN PANEL BUS BAR. 1no. 125 Amp 4-P On Load Change over switchwith 1 No. 125 Amps, TPN MCCB (25 KA) with extendable rotary handle. BUSBARS 125 amps TPN pole busbar chamber of suitable length with copper busbars. All busbars and interconnections shall be of suitable size copper strips.				
	INDICATING PANEL Digital flush type class-1.0 accuracy multifunction meter showing V, A, PF etc. with 3 EACH current transformers of 100/5A ratio, 10 VA Class-1.0 metering. - 1 sets OUTGOINGS:- 1 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For PDB) 2 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection. to Bus bars. (For LDB & Spare) 2 Nos 40A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For ATM & BRANCH UPS) 3 Nos 40A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For ATM & SIGNAGE,SPARE) The electrical panel as described above and specifications complete.				
TOTAL ELECTRICAL WORKS(B)					

C	HVAC/A.C. WORK				
1	Supplying, erection, testing and commissioning following wall mounted Split/ Root mounted cassette units of (Toshiba/ Mitsubishi/ Hitachi/ Daikin/ O-General/ Voltas/ Bluestar) with cordless remote complete with all necessary fittings duly insulated with 9 mm thick nitrile rubber pipe insulation with (All coils – copper only) , fan and fan motor, machine control panel improved Refrigerant Joints, .Air conditioners shall be fitted with hermetically sealed type suction cooled reciprocating or discharge cooled rotary compressor or scroll compressor. Compressor unit operating on R32/ R-410. All complete as per drawing, approval and instructions of the Architect/ Employer. Item to include powder coated outdoor stands as per the manufacturer specifications.(Rates to be inclusive of Copper refrigerant pipe with insulation up to 3 Mtr length only for Each split AC Unit)				
a	1.0 TR split AC 5 star rating inverter type including all necessary fittings and mountings as specified by the manufacturer	Nos.	1.0		
b	2.0 TR split AC 5 star rating inverter type including all necessary fittings and mountings as specified by the manufacturer	Nos.	3.0		
c	3.0 TR Cassette AC inverter type Ceiling suspended Cassette with 4 way / round air flow including all necessary fittings and mountings as specified by the manufacturer.	Nos.	0.0		
d	4.0 TR Cassette AC inverter type Ceiling suspended Cassette with 4 way / round air flow including all necessary fittings and mountings as specified by the manufacturer.	Nos.	0.0		
2	EXTRA REFRIGERANT PIPING Supplying and laying of Extra copper refrigerant piping with nitrile rubber pipe insulation, both of size as specified by the manufacturer suitable for 1.0/1.5/ 2.0 TR Split type AC and 2.0 TR/ 3.0 TR/4.0 TR Cassette AC - From Indoor to outdoor Units (Make : RR cable) For 1.5 TR/ 1.0 TR Split AC as specified by the manufacturer	MTR.	60.0		
3	For 2.0 TR/ 3.0 TR/4.0 TRCassette as specified by the manufacturer	MTR.	0.0		
4	DRAIN PIPING :- Providing and fixing drain piping up to drain as directed by the engineer incharge with all accessories e.g. elbows, unions, sockets, reducers, reducing tees, nipples etc. Complete job including cutting chiseling in walls, floor and making good of all chases/ cuts etc. and discharging the drain into a floor trap/ gully as per site conditions with insulation, both as specified by the manufacturer (make as approved by Architect/ Bank). 25 mm dia PVC drain pipe for Split AC	MTR.	60.0		
5	32 mm dia PVC drain pipe for Cassette AC	MTR.	0.0		
6	Providing and fixing of lockable caging for outdoor unit grouted on wall or on roof with open able shutter made of 10 X 10 mm MS square bars placed vertically @ 6" c/c welded with 40 X 3 mm MS flat all- round. Item includes all necessary hardware, priming coat, synthetic enamel paint, hanger, clamps other accessories etc. All complete as per approval and instructions of the Architect/ employer. For 1.0/ 1.5/ 2.0 TR Hi Wall split units	EACH	0.0		
7	For 2.0/ 3.0/4.0 TR TR ceiling mounted cassette unit	EACH	0.0		
8	Supplying and laying of Extra Electrical interconnecting control cable from indoor to outdoor of size as specified by the manufacturer suitable for 1.0/1.5 TR Split type AC (make as approved by Architect/ Bank).	MTR.	60.0		
9	Supplying and laying of Extra Electrical interconnecting control cables from indoor to outdoor of size as specified by the manufacturer suitable for 2.0T/ 3.0T Cassette type AC (make as approved by Architect/ Bank).	MTR.	0.0		
10	Supplying, installation and commissioning of voltage stablizer of range 170-280 V for Acs (Make : V-guard/ Livguard/ Kirnotics). For 1.0 / 1.5 Tr. Wall mount (4 Kva)	EACH	0.0		
11	Supplying, installation and commissioning of automatic 24 HRS. programmable TIMER of required capacity to run A.C. alternately (MDS/ L&T/ make as approved by Architect/ Bank).	EACH	1.0		
			TOTAL A.C WORK		
SUMMARY					
A			TOTAL FURNISHING WORK		
B			TOTAL ELECTRICAL WORK		
C			TOTAL A.C WORK		
			GRAND TOTAL SAY RS.		
(Note : Tax should be paid extra as applicable)					
		Authorised Registered Signature			
	Place : Delhi				
NOTES-					
* Material should be disposed off within 24hours.					
* * Shifting of office table and furniture etc. during the concurrence of work will be in scope of the Contractor.					
* Green safety net to be installed by the contractor on external facade from top to bottom without any additional cost.					