

**INTERIOR RENOVATION WORKS INCLUDING FURNISHING,  
ELECTRIAL & AC WORKS OF ROHINI SECTOR-3 BRANCH**

***SUMMARY***

<b>S. No.</b>	<b>DESCRIPTION OF ITEMS HEAD WISE</b>	<b>Amount</b>
1	FURNISHING WORK	
2	ELECTRICAL WORK	
3	AC WORK	
	GST AS APPLICABLE	
	<b><i>TOTAL</i></b>	

**TENDER FOR FURNISHING WORKS FOR PUNJAB & SINDH BANK, ROHINI SECTOR-3 BRANCH, NEW DELHI**

TENDER FOR FURNISHING WORKS FOR PUNJAB & SINDH BANK, ROHINI SECTOR-3 BRANCH, NEW DELHI						
A	FURNISHING WORKS (BRANCH & ATM)					
S. No.	Description	Qty	Unit	Rate (Rs.)	Amount	
1	<b>FALSE CEILING (Including ATM Ceiling)</b>					
a.	Providing and fixing GYPSUM BOARD FALSE CEILING in levels as per the detailed drawing – made up of G.I frames as specified by Gypsum India/Saint -Gobain Gyproc and 12mm thick Gypsum board with suitable suspenders fixed to the ceiling. Ceiling section, perimeter channel of size 20X27X30 mm and 0.55 mm thick for light fittings, AC Grills, diffusers, suspenders etc. shall be standard sections supplied by Gypsum India/ Saint Gobain. Spacing of intermediate channels shall be at 1200 mm c/c and ceiling section at 457 mm c/c. The work includes taping and jointing, applying primer, two or more coats of plastic emulsion paint of approved shade ICI/ ASHIAN PAINTS make, making cut-out for light fixtures /fittings, etc. The Final coat shall be done with FOAM ROLLER and no brush marks should be visible. Providing of perimeter channels / beading etc. as per drawing complete in all respects.(All measurement in sqft only and finished surface area shall be measured)	706	sqft			
b.	<b>GRID FALSE CEILING(24" x 24")</b>					
	24"x24" Grid False Ceiling Providing and fixing in the true horizontal level false ceiling system of Armstrong world industries. The suspension system shall be the Armstrong Trulock Silhouette revealed profile grid system with 15mm wide flanges incorporating a 3mm or 6mm central recess color black or white revealed Silhouette main runners and cross tees to have mitered ends with birds mouth notches to provide mitered cruciform junctions. Main runners to be spaced at 12mm c/c fixed by using 2mm pre straightened GI Wire.Main tee,rotary stitched of size 15mm x44mmx3600mm at every 1200mm c/c maximum and 1200mm cross tee of size 15mmx44mm x1200mm at every 600 mm c/c maximum and 600 mm c/c cross tee of size 15 mm x 44 mm x 600 mm at every 1200mm c/c maximum and 19mmx19mmx3000 wall angle. All as per the design and instructions Architects (make- Armstrong & thickness of tile- 16 mm)	416	sqft			
2	<b>PARTITIONS</b>					
a	<b>Low height Partition</b> Providing & fixing of LOW HEIGHT PARTITION (HT. 4'-6") made of 2"x2" aluminium tublar section framework (16 gauge) 2'0" c/c both ways 10 mm MDF BOARD of approved make on both faces finished with 1mm thick laminate of approved shade. Till the height of 3'-3" and 1'-3"(10mm thk.) toughened glass on (side & front) top complete with teak beading, The PU polishing teak sections of approved shade as per drawing and fixing of soft board covering with similer fabric. Complete in all respects to the complete satisfaction of the Architect.	87	sqft			
b	<b>Full height Partition</b> Providing & fixing of FULL HEIGHT PARTITION up to ceiling level partly glazed, made of 2"x2" aluminium tublar section framework (16 gauge) 2'0" c/c both ways 10 mm MDF BOARD of approved make on both faces finished with 1mm thick laminate of approved Make and shade. minimum 8 mm thick toughened glass of approved make with etching/taping as required) on the glazed portion. The work includes PU polishing on woodwork and teak beading etc. Complete in all respects to the complete satisfaction of the Architect. <b>Including doors but excluding cost of door closers, mortise locks.</b>	528	sqft			
b1	<b>Full height Partition</b> Providing & fixing of FULL HEIGHT PARTITION up to ceiling level partly glazed, made of 2"x2" aluminium tublar section framework (16 gauge) 2'0" c/c both ways 12 mm BISON BOARD of approved make on both faces finished with 1mm thick laminate of approved Make and shade. minimum 8 mm thick toughened glass of approved make with etching/taping as required) on the glazed portion. The work includes spirit polishing on woodwork and teak beading etc. Complete in all respects to the complete satisfaction of the Architect. <b>Including doors but excluding cost of door closers, mortise locks.</b>	150	sqft			
c	<b>SEMI GLAZED PATITION</b> Providing & fixing of partly glazed (12mm toughened glass of approved make as per design), made of 2"x2" aluminium tublar section framework ( 16 gauge) 2'0" c/c both ways 10 mm MDF BOARD of Approved Make on both faces finished with 1mm thick laminate of approved make & shade The work includes providing PU polishing of shade on woodwork and steam beach beading etc. Including doors but excluding cost of door closers mortise locks. Complete in all respects to the complete satisfaction of the Architect./Engineer.	236	sqft			
d	Cash Cabin front Partition With 12 mm toughened Glass including fixing. Complete in all respect.	35	sqft			
e	Providing and fixing 1.5/ 2 x 4/5 feet bevelled 12 mm toughened Glass on all tables /counters complete as per drawing including glass support. Glass has to fixed as vertical partition in the front end of the counter (towards customer side) to restrict direct access of customer	69	sqft			
f	Providing and fixing of fallowing items/ accessories completeed in all including					
(i)	Knight latch for cash cabin door.(Make Godrej)	1	no.			
(ii)	Mortise locks with handles.(Make Godrej)	6	no.			
(iii)	Hydraulic Door closer.(Make Godrej/ Universal)	6	no.			
(iv)	Floor springs.for Glass door.(Make Godrej/ Universal)	1	no.			
3	<b>GLASS DOORS (BM &amp; MAIN ENTRANCE)</b>					
A	Providing and fixing of (3'-0"/ 3'-6" X8'-0" )12mm toughened glass door with18" long SS handles, floor spring (Ozone-FS- 9400) etc, locking arrangement of brass make at top of standard make(patch fitting), including fixing of Frosted strip vision film & bank logo as directed by the Bank/ Architects.	21	sqft			
B	<b>FIXED GLAZING</b> Providing and fixing external <b>FIXED GLAZING</b> comprising of 12 mm thick toughened glass of approved Make with top, bottom and vertical U Channel frames comprising of powder coated (shade as approved) 16 gauge Aluminium members of approved shade 1.5mm avg. thick top, bottom & vertical member with clip sections as per specifications and drawings to complete satisfaction of the Architect.	45	sqft			
C	<b>BLOCK DOORS</b> Providing and fixing solid core 38 mm solid core flush door finished with lippings in all side with necessary door hinges , cylindrical locks(golden, Godrej) , door clouser, door stoppers, etc with a frame work of T.W./Beech wood size 75mm x 62.5mm with necessary hold fast fixed to the wall/partition. 1 mm laminate to be fixed on both sides duly finished,edges to be finished with wooden lippings.A wooden moulding size 1.5"x2/8" to be provided all along the periferi of the frame work in the both sides . All the wooden area to be duly polished as per specification of the Architect. In case of Partly glazed door 8 mm thk etched toughened glass with granular blastino/sand blasting as per desion of the Architect to be fixed with necessary mouldings.					

	a	<b>Partly glazed door with out etching &amp; frosting</b>				
	i	(2'-6"/3'-0"x7'-0" ) for PASSAGE Door & Record Room	121	sqft		
	b	<b>Blocked doors</b>				
	i	(2'-6"/3'-0"x7'-0") for Toilets, Pantry & UPS doors	60	sqft		
4		<b>COUNTERS AND TABLES</b>				
	a	Providing and fixing Manager Table with <b>10mm beveled toughened glass of approved make to be fitted on top</b> obtain the total height of 2'-6" as per detailed drawing, made up of 19mm board of approved Make and finished with 1 mm thick laminate of approved make, and shade. Table(with one side drawer unit and another side drawer unit ) shall be provided with drawers sliding on telescopic channels and one cabinet with proper locking arrangements and keyboard with telescopic channels . The work includes providing and fixing of foot rests, shelf for CPU, furniture locks, wire managers, PU polishing of steam beach/ white cedar beading etc. and The inner exposed surfaces to be finished with 0.8mm thk laminate of approved shade. complete in all respects to the entire satisfaction of the Architect/Bank.				
		Table size: 5'-6"/ 6'-0" x 3'-0 x 2'-6"	1	no.		
	b	<b>SIDE CREDENZAS</b>				
		Providing and fixing SIDE CREDENZAS size 3'-0" to 4'-0" x 1'-3" x 2'-6" made of 19mm board of approved make finished with 1 mm thick laminate of approved Make and shade on top, back, sides and front having two drawers and cabinet below complete with all accessories like locks, handles, megnetic catcher etc. Teak wood beading on all exposed edges with PU polish. <b>(Should not be attached with partitions)</b>	1	no.		
	d	<b>WORK STATIONS TABLE</b>				
		Providing and fixing of COMPUTER work Stations as per layout plan and and <b>10mm beveled Toughened glass of approved make to be fitted on top</b> obtain the total height of 2'-6" high working top ( As per drawing) made up of 19mm board / ply of approved Make, finished with 1 mm thick laminate of approved Make, shade as approved as per the detailed drawing . The tables shall have as per approved shade and color. <b>All exposed surfaces (such as counter front, sides, drawers and cupboard etc) must be finished with 1mm thick laminate of approved make. Table top shall be finished with 1mm thick laminate. The inner exposed surfaces to be painted over one coat of primer and enamel paint of approved shade.</b> Each unit of table shall be provided with keyboard tray with telescopic channels. The work includes fixing of wire managers, locks, footrests, PU polishing the steam beach beading, lipping, exposed frame, etc. as per drawings, and The inner exposed surfaces shall be finished with 0.8mm thk laminate of approved shade. complete in all respects to the complete satisfaction of the Architect/Bank.				
	a	Officers Table (4'-6"/5'-0" x 2'-6 x 2'-6") on top of table 10mm thk beveled toughened glass.	1	nos		
	b	Officers Table/ staff tables (4'-0" x 2'-6" x 2'-6") additionl (Daftri & guard's Tables)	5	nos		
	c	<b>CASH COUNTER WITH TOP UP ALUMINIUM GRILL</b>				
		Providing and fixing of CASH COUNTER 2'-6"/3'-9" high made up of 19mm board/ply of approved make and finished with 1 mm thick laminate of make, shade as approved and as per detailed drawing. 2'-6' wide working table top, key board tray, drawer with telescopic channels <b>(TOP DRAWER SHOULD BE DIVIDED INTO SECTIONS SO AS TO PILE DIFFERENT CURRENCY NOTES SEPERATELY)</b> and cupboard with fixing of soft board with similer fabric. All exposed surfaces (such as counter front, sides, drawers and cupboard etc) to be finished with 1mm thick laminate of approved make. The inner exposed surfaces shall be finished with 0.8mm thk laminate of off white shade. The work includes fixing of furniture locks, wire managers, PU polish of steam beach wood beading/ lipping etc.complete in all respects to the entire satisfaction of Architect. Transaction top should be minimum 18" and (4'-5"/ 5' -0" Average Length) and fixing of aluminium grill on top of cash counter spacing of grill 75mm & thikness of grill 5/6 mm.	1	nos		
5		<b>MISCELLANEOUS FURNITURE</b>				
	a	Providing & fixing STORAGE CABINETS indipandent units (movable) 12 feet long (maximum) 4'-6" ht and 1'-6" deep as per layout plan made up of 19mm board/ply of approved make and finished with 1mm thick laminate of approved make, shade and as per detailed drawing. <b>one shelves made up of 19mm thick board, each drawer(with lock) &amp; cabinet(with lock) 19mm thickness portion every place must be finished with proper liping/ margin teak wood finish.</b> In side and back shall be finished with 0.8mm thick laminate of approved Make and color The work includes supplying, fixing of hinges, magnetic catchers, handles, locks, teak lipping etc as specified. complete in all respects.				
	b	Full height STORAGE CABINATES upto 8'-6" false ceiling hight specification as per (a)	0	Sqft		
	c	Half height STORAGE CABINATES upto 4'-0"/ 2'-6" hight specification as per (a)	56	Sqft		
	f	<b>COLUMN / WALL PANNELING</b>				
		Providing and fixing of COLUMN PANNELING as per design, consisting of 10 mm thick MDF BOARD of approved Make fixed on wall with made of 2"x2" alluminium tublar section framework ( 16 gauge) 2'0" c/c both ways. The above shall be laminated with 1mm thick mica of approved Make, The work includes PU polishing of wood beading, complete in all respects as per detailed drawings to the complete satisfaction of the Architect.	434	sqft		
7		<b>NOTICE BOARD</b>				
		Providing and fixing soft board with glass White board necessary framework and 12mm bwp plywood on top 12MM jolly board to be fixed finished with fabric @Rs80 , with necessary mouldings duly polished along the periferi.The work to be completed as per approval and satisfaction of the Architect.	12	Sft		
8		<b>ACP WALL PANELLING</b>				
		Providing & Fixing ACP sheet (4 MM THK) panelling with 2 1/2" x 1 1/2" Aluminium (16 gauge) framework at 2'-0" c/c fixed over the existing wall/ partitions. Approved Make- ALUCOBOND/ ALUDECOR	194	Sft		
		<b>WRITING LEDGE</b>				
	9	Providing and fixing writing ledge as per design made out 19mm comm. board with necessary grove patterns with 1.0mm laminate. 10mm thk machine polished glass to be provided on top of the writing ledge. Small boxes to be made out of 12mm comm. ply to be made on top of the writing ledge finished with 1.0 mm laminate, inside .08 mm laminates .The work to be completed as per design and approval of the architect.	1	no.		
		<b>SUGGESTION BOX</b>				
	10	Providing and fixing Suggestion box as per design made out 19mm comm. board with necessary grove patterns with 1.0mm laminate. 10mm thk machine polished glass to be provided on top of the writing ledge. Small boxes to be made out of 12mm comm. ply to be made on top of the writing ledge finished with 1.0 mm laminate, inside 0.8 mm laminate .The work to be completed as per design and approval of the architect.	1	no.		

11	<b>CHEQUE DEPOSIT BOX</b> Providing and fixing Suggestion box as per design made out 19mm comm. board with necessary grove patterns with 1.0mm laminate. 10mm thk machine polished glass to be provided on top of the writing ledge. Small boxes to be made out of 12mm comm. ply to be made on top of the writing ledge finished with 1.0 mm laminate, inside 0.8 mm laminate. The work to be completed as per design and approval of the architect.	1	no.		
12	<b>WICKET GATE</b> Providing and fixing 4' - 0' ht. WICKET GATE between the counters to check the movements of customers inside the restricted area. Fully paneled door shutter including the door frame made up of styles and top rail, bottom rail using 1st class hardwood, 9mm ply of approved Make to be fixed on both faces finished with 1 mm thick laminate of approved Make. The work includes providing and fixing necessary hardware SS finish latches, butt hinges etc., steam beach beading etc. (PU polished) as per drawings to the full satisfaction of the Architect, complete in all respects.	1	no.		
13	<b>Acrylic Emulsion Paint:</b> Providing and applying with brush, roller Acrylic Emulsion paint to walls, ceiling, etc.in two or more coats of approved paint over necessary putty work, sand papering, primer, scaffolding etc. complete. Old paint shall be removed, scraped, cleaned and coat of water resistant chemical applied where dampness / Seepage is observed as found necessary and as directed by the Bank or its Architect.	2500	Sqft		
14	<b>Enamel Paint:</b> Providing and applying oil paint with two or more coats of synthetic enamel paint with spray gun and / or brush and roller over necessary putty work, sand papering, primer etc. Old paint shall be removed, scraped, cleaned and coat of water resistant applied where dampness / Seepage is observed as found necessary and as directed by the Bank or its Architect.	750	Sqft		
15	<b>Frosted Film</b> -Providing & pasting of frosted film (3M, Garware make) on glass work partition of entrance as required with coloured monograms of the Bank as directed by the consultant/Architect.	150	Sqft		
16	<b>PANTRY COUNTER</b> Construction of Pantry counter of 1'-9" width made of granite top, including small SS sink, SS taps along with water supply and drainage connections with necessary fittings and fixtures. Work to be completed as per design and to the entire satisfaction of Architect.	1	Job		
17	<b>DISMANTLING WORK</b> Existing items in the branch like all type partitions, tables, false ceilings (gypsum & grid), all type doors etc. after architect permission.	1	Lot		
18	<b>SUB TOTAL</b>				
19	<b>BUYBACK OF OLD ITEMS</b> Existing items in the branch like all type partitions, tables, false ceilings (gypsum & grid), all type doors etc.	1	LS		
	<b>GRAND TOTAL (Sr. No. 18 - Sr. No. 19)</b>				
	GST extra as applicable				

**RECOMMENDED MAKE TO BE USED**

SR.	DESCRIPTION	MAKE / BRANDS
1	MDF. (Medium Density Fibre Board) – CONFIRMING TO IS : 12406 - 2003. (Density: 750 – 850 Kgs/m3) colour code follow as per Bank Norms.	CENTURY/GREENPLY/ ARCHIDPLY
2	PLYWOOD – BWP (Boiling Water Resistant, Termite Resistant & Borer Resistant) – CONFIRMING TO IS: 303.	CENTURY/GREENPLY/ ARCHIDPLY
3	BLOCK BOARD – CONFIRMING TO IS : 11255 - 2003.	CENTURY/GREENPLY/ ARCHIDPLY
4	FLUSH DOOR – CONFIRMING TO IS : 2202 (Part – 1) – 1991.	CENTURY/GREENPLY/ ARCHIDPLY
5	LAMINATE – CONFIRMING TO IS : 2046-1995.	CENTURY/GREENLAM/ ARCHIDPLY
6	Lipping & Moulding	First Class Teak Wood
7	Gypsum ceiling	Gypsum India, Saint - Gobain Gyproc india
8	Grid Ceiling	Armstrong, Dexune
9	GI Support system for False Ceiling	GYPSTEEL ULTRA
10	Adhesive	Fevicol SH.
11	Locks/Handles & all other hardware	OZONE/Dorma/ Godrej
12	Glass	Modi/Asahi(Tata),Saint Gobain
13	Aluminium	Jindal/ Hindalco/ NALCO
14	Door Closer	OZONE/Dorma/ Godrej
15	FLOOR SPRING	OZONE/Dorma /Godrej)
	Vertical Blinds	Vista
16	Paint	Nerolac / Asian Paints
17	Wood Preservative	Bison by British Paints / Termiseal by ICI
18	Cement	ACC / Ambuja/Birta Plus
19	Preservative	Solignum/Black Japan / Termiseal
20	Sanitary Fittings	Kohler / Hindware
21	CP fittings	Jaguar
22	GI pipe	Jindal/Bhushan
23	Floor & Wall tiles	Nitco/Kajaria
24	Overhead Water tank	Sintex

**NOTE:**

- The contractor is strictly advised to use the makes specified/approved by the Bank/Architect, unspecified items will not be paid until they are changed with the specified ones.
- The Plywood used for the work shall be BWR ( Boiling water proof range) confirming to IS 303.

**Place:**

**Date:**

Signature of contractor with seal

**BILL OF QUANTITY FOR ELECTRICAL WORK FOR PUNJAB & SIND BANK, ROHINI SECTOR-3 BRANCH, NEW DELHI.**

**ELECTRICAL WORKS (BRANCH + ATM)**

S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
1	<p><b>Light Primary Points in PVC Conduit -</b>                      Point Wiring for light points, controlled through modular switches complete with PVC boxes &amp; cover plate - The point wiring shall be done with 3x 1.5 sq.mm Fire Resistant Low smoke Low Halogen stranded Cu. Wire in PVC conduit pipe (HMS Grade) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement.The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600 mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, modular switch complete with PVC box &amp; cover plate, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. Circuit wiring to be included in the point wiring rates. The circuit wiring starts from DB to point control box/ switch box using Fire Resistant Low smoke Low Halogen stranded Cu. Wire 2x2.5 sqmm &amp; 1x2.5 sqmm earthing (min size) in 20/25/32 mm PVC conduit. All the wiring shall be carried out in recessed conduits unless instructed by Architect / Engineer in charge</p>	Each	52		
2	<p><b>Light Primary Points in PVC Conduit -</b>                      Point Wiring for light points, controlled through modular switches complete with PVC boxes &amp; cover plate - The point wiring shall be done with 3x 1.5 sq.mm Fire Resistant Low smoke Low Halogen stranded Cu. Wire in PVC conduit pipe (HMS Grade) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement.The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600 mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, modular switch complete with PVC box &amp; cover plate, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. Circuit wiring to be included in the point wiring rates. The circuit wiring starts from DB to point control box/ switch box using Fire Resistant Low smoke Low Halogen stranded Cu. Wire 2x2.5 sqmm &amp; 1x2.5 sqmm earthing (min size) in 20/25/32 mm PVC conduit. All the wiring shall be carried out in recessed conduits unless instructed by Architect / Engineer in charge</p>	Each	12		
3	<p><b>Light Secondary Points PVC Conduit -</b>                      Point Wiring for light points interlooped from the primary point. The secondary point wiring shall be done with 3x 1.5 sq.mm FRLSH (Fire Resistant Low smoke Low Halogen) stranded Cu. Wire in PVC Conduit (HMS Grade) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement.The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600 mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, modular switch complete with MS box &amp; cover plate, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. All the wiring shall be carried out in recessed conduits unless instructed by Architect / Engineer in charge</p>	Each	18		
4	<p><b>5/6A Primary point in PVC Conduit:-</b>                      Supply &amp; Installation of point wiring for Raw power plug points on workstations / table/ wall using 2X2.5 + 1x2.5 Sq.mm FR LSH ( Fire Resistant Low smoke Low Halogen) copper conductor PVC sheathed flexible wire pulled from distribution board through PVC Conduit pipe (HMS Grade) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. Each point consisting of 1 nos of 6/10A , 3/5 pin sockets &amp; 1 No.,6/10A Switch , wired together forming one point. The earth wire of green color only. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. The above includes supply &amp; fixing modular cover plates, base plates, PVC box/ Gang box in brick wall by making necessary chase/ recess and making good the same. All switches sockets and accessories must be modular. All new points must be provided in concealed /recessed conduit unless directed by architect / engineer in charge Interconnections to movable furniture, if any, shall be done using flexible PVC Conduit with end couplers.</p>	Each	10		

5	<p><b>5/6A Secondary point in PVC Conduit:-</b>  Supply &amp; Installation of point wiring for Raw power plug points on workstations / table/ wall using 2X2.5 + 1x2.5 Sq.mm FR LSH ( Fire Resistant Low smoke Low Halogen) copper conductor PVC sheathed flexible wire pulled from nearby point through PVC Conduit pipe (HMS) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. Each point consisting of 1 nos of 6/10A , 3/5 pin sockets &amp; 1 No. 6/10A Switch , wired together forming one point. The earth wire of green color only. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. The above includes supply &amp; fixing modular cover plates, base plates, PVC box/ Gang box in brick wall by making necessary chase/ recess and making good the same. All switches sockets and accessories must be modular. All new points must be provided in concealed/recessed conduit unless directed by architect / engineer in charge Interconnections to movable furniture, if any, shall be done using flexible PVC Conduit with end couplers.</p>	Each	2		
6	<p><b>UPS Primary point in PVC Conduit:-</b>  Supply &amp; Installation of point wiring for UPS points on workstations / table/ wall using 2X2.5 + 1x2.5 Sq.mm FR LSH ( Fire Resistant Low smoke Low Halogen) copper conductor PVC sheathed flexible wire pulled from distribution board through PVC Conduit pipe (HMS Grade) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. Each point consisting of 3 nos of 6/10A , 3/5 pin sockets &amp; 1 No.,6/10A Switch , wired together forming one point. The earth wire of green color only. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. The above includes supply &amp; fixing modular cover plates, base plates, PVC box/ Gang box in brick wall by making necessary chase/ recess and making good the same. All switches sockets and accessories must be modular. All new points must be provided in concealed/recessed conduit unless directed by architect / engineer in charge Interconnections to movable furniture, if any, shall be done using flexible PVC Conduit with end couplers.</p>	Each	12		
7	<p><b>UPS secondary point in PVC Conduit:-</b>  Supply &amp; Installation of point wiring for UPS points on workstations / table/ wall using 2X2.5 + 1x2.5 Sq.mm FR LSH ( Fire Resistant Low smoke Low Halogen) copper conductor PVC sheathed flexible wire looped from nearest UPS point through PVC Conduit pipe (HMS Grade) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. Each point consisting of 3 nos of 6/10A , 3/5 pin sockets &amp; 1 No., 6/10A Switch , wired together forming one point. The earth wire of green color only. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. The above includes supply &amp; fixing modular cover plates, base plates, PVC box/ Gang box in brick wall by making necessary chase/ recess and making good the same. All switches sockets and accessories must be modular. All new points must be provided in concealed/recessed conduit unless directed by architect / engineer in charge Interconnections to movable furniture, if any, shall be done using flexible PVC Conduit with end couplers.</p>	Each	2		
8	<p><b>15/16A Primary point in PVC Conduit:-</b>  Supply &amp; Installation of point wiring for Raw power plug points on workstations / table/ wall using 2X4 + 1x4 Sq.mm FR LSH ( Fire Resistant Low smoke Low Halogen) copper conductor PVC sheathed flexible wire pulled from distribution board through PVC Conduit pipe (HMS Grade) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. Each point consisting of 1 nos of 16/20A , 3/5 pin sockets &amp; 1 No., 16/20A Switch , wired together forming one point. The earth wire of green color only. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. The above includes supply &amp; fixing modular cover plates, base plates, PVC box/ Gang box in brick wall by making necessary chase/ recess and making good the same. All switches sockets and accessories must be modular. All new points must be provided in concealed /recessed conduit unless directed by architect / engineer in charge Interconnections to movable furniture, if any, shall be done using flexible PVC Conduit with end couplers.</p>	Each	8		

9	<p><b>15/16A Secondary point in PVC Conduit:-</b>  Supply &amp; Installation of point wiring for Raw power plug points on workstations / table/ wall using 2X4 + 1x4 Sq.mm FR LSH ( Fire Resistant Low smoke Low Halogen) copper conductor PVC sheathed flexible wire pulled from nearest power point through PVC Conduit pipe (HMS Grade) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. Each point consisting of 1 nos of 16/20A , 3/5 pin sockets &amp; 1 No.,16/20A Switch , wired together forming one point. The earth wire of green color only. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. The above includes supply &amp; fixing modular cover plates, base plates, PVC box/ Gang box in brick wall by making necessary chase/ recess and making good the same. All switches sockets and accessories must be modular. All new points must be provided in concealed/ recessed conduit unless directed by architect / engineer in charge Interconnections to movable furniture, if any, shall be done using flexible PVC Conduit with end couplers.</p>	Each	2		
10	<p><b>AC point in PVC Conduit:-</b>  Supply &amp; Installation of point wiring for Air Conditioner on workstations / table/ wall using 2X4 + 1x4 Sq.mm FR LSH ( Fire Resistant Low smoke Low Halogen) copper conductor PVC sheathed flexible wire pulled from distribution board through PVC Conduit pipe (HMS Grade) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement. Each point consisting of 1 nos of 20/25A , 3/5 pin sockets &amp; 1 No. Single module 20/25A MCB, 1 Nos 25A Motor starter switch wired together forming one point. The earth wire of green color only. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.The job shall be complete &amp; to the entire satisfaction of the Bank. The above includes supply &amp; fixing modular cover plates, base plates, PVC box/ Gang box in brick wall by making necessary chase/ recess and making good the same. All switches sockets and accessories must be modular. All new points must be provided in concealed/recessed conduit unless directed by architect / engineer in charge Interconnections to movable furniture, if any, shall be done using flexible PVC Conduit with end couplers.</p>	Each	7		
11	<p>Supply and laying 20 mm PVC conduit (MHS Grade) through wall / floor / above false ceiling / partition etc. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.</p>	RM	45		
12	<p>Supply and laying 25 mm PVC conduit (HMS Grade) through wall / floor / above false ceiling / partition etc. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.</p>	RM	45		
13	<p><b>3x6 sq mm submains wiring in PVC conduit:-</b>  Supply and laying of 2x6 sq mm + 1x6 sq mm FR LSH ( Fire Resistant Low smoke Low Halogen) stranded Cu. Wire in PVC Conduit (HMS Grade) through wall / floor / above false ceiling / partition etc. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.</p>	RM	75		
14	<p>Supply and laying of 3x10 submains wiring in PVC conduit  Supply and laying of 2x10 sq mm + 1x10 sq mm FR ( Fire Resistant) stranded Cu. Wire in PVC Conduit (HMS Grade) through wall / floor / above false ceiling / partition etc. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.</p>	RM	45		
15	<p>Supply and laying of 4x10 flexible wire in PVC Conduit  Supply and laying of 3x10 sq mm + 1x10 sq mm FR ( Fire Resistant) stranded Cu. Wire in PVC Conduit (HMS Grade) through wall / floor / above false ceiling / partition etc. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval &amp; finally finishing the surface &amp; matching the same with the existing surface.The rate should include the cost of all materials, labour, T&amp;P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc.</p>	RM	45		

16	Supply installation testing and commissioning of 4 way SPN DB flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin 'proof, gasketed and hinged door with all internals such as DIN rails, neutral link, interconnected wiring, complete with earthing legs, housing following switch gears(Double door HORIZONTAL DB ) with 2 Nos 63A DP MCB for Single Phase UPS input and output isolation	Set	4		
17	SITC of 12 way SPN DB flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin 'proof, gasketed and hinged door with all internals such as DIN rails, neutral link, interconnected wiring, complete with earthing legs, housing following switch gears(Double door HORIZONTAL DB ) i/c 1 Nos 63A DP MCB o/g 10 nos SP MCB (6-32A) 10 KA Breaking Capacity	Set	2		
18	SITC of 4 way Horizontal DB flush mounted on wall, sheet metal fabricated, powder coated, having dust- proof and vermin'proof, gasketed and hinged door with all internals such as DIN rails, neutral link, interconnected wiring, complete with earthing eggs, housing following switch gears(Double door HORIZONTAL DB ) with i/c 1 Nos 63A TPN MCB o/g 12 nos SP MCB (6-32A) 10 KA Breaking Capacity	Set	2		
19	SITC of 4 way VTPN MCCB DB flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin 'proof, gasketed and hinged door with all internals such as DIN rails, neutral link, interconnected wiring, complete with earthing legs, housing following switch gears (Double door VerticalL DB ) with i/c 1 Nos 63A TPN MCCB Thermal Magnetic Release Adjustable overload: 0.8-1.0 x In Adjustable Short Circuit: 6-10 x In o/g 12 nos SP MCB (6-32A) 10 KA Breaking Capacity	Set	1		
20	<p><b>SITC OF LT PANEL AS UNDER:</b> (Manufacturrer must be approved from CPRI)</p> <p>Construction: Free Standing with front access, Dust &amp; vermin Proof, Form 3b construction.</p> <p>Supply: 415V, 3Phase, 4 Wire, 50 Hz.</p> <p>Control Supply: 230V Single Phase</p> <p>Fault Level: 36KA for 1 Sec</p> <p>Fabrication: CRCA Sheet 14SWG for Gland Plate, Load Bearing Structure and Body, 16 SWG for partitions, doors and panels.</p> <p>25x3 mm neoprene gasket for door, cover and gland plate. 40x5 mm gasket for joints and canopy. DC Locks to be provided on doors, danger plates on front and rear of bus bar chambers, live parts.</p> <p>Cable Entry / Exit : From top.</p> <p>Name plate: COPPER</p> <p>Powder Coating: Pre treated with 7 tank process and duly powder coated.</p> <p>TPN Busbars: 150A Rated copeer current density 1A/sq mm) with colour coded heat shrinkable sleeve. Neutral Bar of half size of Phase. Earth Bar of suitable size to be provided with earthing terminal on both ends</p> <p>Separate bus bar system to be provided for Emergency and Non Emergency supply outgoing</p> <p>Instrumentation: 1 Set 3 nos phase indicating lamps each backed up with MCB and switch shall be provided for each incomer. 1 no. VAF meter 0-200A with CT, selector switch, and fuse as reqd.</p> <p>Main Incomer- 100A MCCB</p> <p>Change Over - 1No. 63A Manual Changeover &amp; 1 No. 63 A Automatic changeover for UPS</p> <p>Non Emergency Outgoing - 1 Nos 63A MCCB</p> <p>Emergency Outgoing 2 Nos 63A MCCB, 2 Nos 63A FP MCB, 4 Nos 40A DP MCB</p> <p>One Section in outgoing section in both emergency and non emergency section be kept spare for future provisions</p>	Set	1		
21	Supply and installation of MCCB enclosure along with 125 A 4 pole MCCB 36KA breaking capacity with thermal magnetic release, Adjustable overload: 0.8-1.0 x InAdjustable Short Circuit: 6-10 x In	Set	1		
22	S & I of earth pit comprising of 600mm x 600mmx 3mm. thick copper plate buried at a minimum depth of 2.7 meter including necessary materials like charcoal,salt etc as required conforming to BIS standards having brick masonry chamber with hinged cover and watering arrangement.	Set	2		
23	S & I of earth pit comprising of G.I. earth pipe 4.5 metre long, 40 mm dia including necessary materials like charcoal,salt etc as required conforming to BIS standards having brick masonry chamber with hinged cover and watering arrangement.	Set	1		
24	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required complete with insulation sleeve	RM	0		
25	Providing and fixing 25 mm X 5 mm GI strip on surface or in recess for connections etc. as required complete with insulation sleeve	RM	0		

26	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface recessed conduit / submain wiring / cable as required.	RM	0		
27	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing along with existing surface / recessed conduit submain wiring / cable as required	RM	55		
28	<b>Telephone point primary in PVC conduit:</b> Supply & fixing on wall/ furniture/ partition recessed type modular telephone socket outlet (RJ-11) with mounting box & front plate complete with chase cutting, mending good etc. as required complete including Supply & laying of 1 pair 0.5 mm dia. PVC insulated unarmoured telephone cables through PVC Conduit pipe (HMS) concealed in wall/ floor/ panelling/ partitions or above false ceiling as per requirement drawn from telephone tag block. The work shall also include for cutting chase for conduits and moulded boxes, if required, in the wall/ floor (Without damaging the building/wall) along with clamping the conduit at every 600mm interval & finally finishing the surface & matching the same with the existing surface. The rate should include the cost of all materials, labour, T&P, scaffolding, shifting of furniture, carting away the debris and cleaning the floor etc. The job shall be complete & to the entire satisfaction of the Bank. The above includes supply & fixing modular cover plates, base plates, PVC box/ Gang box in brick wall by making necessary chase/ recess and making good the same. All switches sockets and accessories must be modular. All new points must be provided in concealed/recessed conduit unless directed by architect / engineer in charge Interconnections to movable furniture, if any, shall be done using flexible PVC Conduit with end couplers.	Each	4		
29	Providing, laying and connecting PVC insulated copper telephone cable of following sizes including termination in approved manner. 20-pair telephone cable.	RM	30		
30	Providing and fixing of telephone tag block (Krone type) of 50 pair housed in GI box with cover of suitable size including termination	Each	1		
31	Supply and laying, effecting proper connections, testing & commissioning of the following sizes of 1.1 KV armoured/ unarmoured XLPE insulated PVC sheathed aluminium /copper conductor cables conforming to IS: 7098 Part 1 with latest amendments laid over MS supports in existing RCC ducts/ laid in ground /laid on Cable Trays including clamping the cables to supports in an approved manner as required complete with all accessories. Supply and laying of 3x6 sq mm armoured aluminium cable in existing pipe / cable tray	RM	0		
32	Supply and laying, effecting proper connections, testing & commissioning of the following sizes of 1.1 KV armoured/ unarmoured XLPE insulated PVC sheathed aluminium /copper conductor cables conforming to IS: 7098 Part 1 with latest amendments laid over MS supports in existing RCC ducts/ laid in ground /laid on Cable Trays including clamping the cables to supports in an approved manner as required complete with all accessories. Supply and laying of 3.5x70 armoured aluminium cable in existing pipe / cable tray	RM	0		
33	Supply and laying, effecting proper connections, testing & commissioning of the following sizes of 1.1 KV armoured/ unarmoured XLPE insulated PVC sheathed aluminium /copper conductor cables conforming to IS: 7098 Part 1 with latest amendments laid over MS supports in existing RCC ducts/ laid in ground /laid on Cable Trays including clamping the cables to supports in an approved manner as required complete with all accessories. Supply and laying of 3.5x50 armoured aluminium cable in existing pipe / cable tray	RM	60		
34	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as reqd. End termination of 3.5x70 aluminium armoured cable	SET	0		
35	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as reqd. End termination of 3.5x50 aluminium armoured cable	SET	8		
36	Supply, Installation, testing and commissioning of 2'X2' Recessed type LED LIGHT FITTINGS of 33-36 W with minimum lumen level of 3900 lumens, CRCA / Extruded aluminium housing, efficiency of 120 lumens per watt and & Average life not less than 50000 hrs. The light should be hanged/supported by MS chain from ceiling directly and not be kept directly on false ceiling frame. Cutting of ceiling, framing etc. be included in the costs. Standard warranty of light fittings shall be minimum 2 years.	Each	16		
37	Supply, Installation, testing and commissioning of LED DOWNLIGHT FITTINGS of 15-18 W with minimum lumen level of 1650 lumens with die cast aluminium, efficiency of 110 lumens per watt and & Average life not less than 30000 hrs. Cutting of ceiling, modifications required to the ceiling be included in the cost. Standard warranty of light fittings shall be minimum 2 years.	Each	50		
38	Supply Installation testing and commissioning of 4 ft, 18-20 watt LED batten with 2000 lumen output and 2 year warranty	Each	14		
39	Supply, Installation, Testing and commissioning of <b>100% metal body Wall mounted Fan</b> , 3/4 blade design, sweep 400-450 mm power input max 90 watt, Speed 1300-1330rpm with all accessories.	Each	9		

40	Ceiling Fan- Supply, Erecting,and testing of approved/specified make ceiling fans complete with down rod, canopy, blades and Electronic speed regulator 230-250 volts including connection with all necessary materials as required. Make- Usha/ Havells/Crompton	Each	1		
41	Supply & fixing of 230 mm exhaust fan <b>100% METAL body</b> with all accessories etc. complete of make As specified in tender document or approved by concerned office in charge.	Each	3		
42	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.	Nos.	14		
43	Providing & fixing 9 U (Rack with glass door, opening in the front power panel 1 (horizontal), cable manager 1 lock & key) with switch.	Nos.	1		
44	Supply & fixing, Installation, Testing & Commissioning of 24 port Jack Panel.	Nos.	1		
45	Supplying and fixing Patch Cord-2 Meter- (DBPS Mounting Cord)	Nos.	10		
46	Supplying and fixing Patch Cord-1 Meter-	Nos.	10		
47	One call bell point with ceiling rose/ 6amp. 3 pin sockets controlled by one 6 amp. Push Modular switch. With call bell	Nos.	1		
48	Supplying , Installing Testing & Commissioning of LED Indicator ( Red, Green & Yellow colour ) for showing the Power ON/ Off position in Branch Light / Raw Power (1) , AC (1) , UPS OUT POWER SUPPLY (1). All indicators which needs to be off will be placed in one line and all indicator which needs to be off must be in other line . Marking of the Indicators to be done as per architect instructions.	Set	1		
49	Supply, Installation, Testing & Commissioning of 4 watt per meter (300 lumen per meter) LED TUBULAR cove Light with high efficiency electronic driver. (Make Philips)	MR	65		
50	<b>DISMANTLING WORK-</b> Existing items i.e. lights, wall Fans,ceilling fans, cables & wires and other electrical items after approval of architect.	Lot	1		
<b>A SUB TOTAL</b>					
<b>B BUYBACK OF OLD ITEMS-</b> Existing items i.e. lights, wall Fans,ceilling fans, cables & wires and other electrical items					
<b>GRAND TOTAL AMOUNT (A-B)</b>					
<b>GST Extra</b>					

**APPROVED MAKE LIST**

S.N.	DESCRIPTION	Approved Makes
S.N.	PVC Conduit	Precision/AGK /VIP
1	Ceiling Junction Boxes	Home lite/ANCHOR
2	Wires & cables	R.R./Havells/ Polycab
3	Modular Switches,Sockets etc	Crabtree / Northwest /Legrand
4	Lighting Fixtures	Philips/Wipro/Crompton
5	M.C.B./RCCB/RCBO etc	Legrand/Havells/ HAGER
6	Distribution Boards	Same As Above
7	MCCB	Schneider/Legrand/Havells
8	Change Over Switches	A.B.B./Standard/ L.& T.
9	End Termination accessories	Dowells/Usha/Brecco/Cosmos
10	Telephone Cables & accessoreies	Havells, Krone, Finolex,
11	Fans/Exhaust fans	Crompton/Havell/USHA
12	Music Speakers	Philips/Bosch/Ahuja
13	Amplifiers	Philips/Bosch/Ahuja
14	DVR	Samsung,Honeywell , HIKVISION
15	Rg11, CAT5/CAT6 cables/Telephone wires	Legrand, Molex, D'Link ,AMP
16	CCTV Dome Camera	Honywell, HIKVision
17	Hard Disk drive	Seagate, HIKVISION
18	Smoke/Heat/Optical Fire Detectors	Edward,Siemens, Appolo Or other I.S.I.

19	Response Indicators, Hooters	Edward, Siemens OR other ISI
20	Telephone Tag Block	Krone

Place:

Date:

Signature of contractor with seal

**BILL OF QUANTITY FOR AC WORKS FOR PUNJAB & SINDH BANK, ROHINI SECTOR-3 BRANCH, NEW DELHI**

Sr. No	Particulars	Product Model No.
1	3.0 TR Ceiling Suspended Cassette Unit 3 Star Non- Inverter Model or equivalent	
2	2.0 TR Ceiling Suspended Cassette Unit 3 Star Non- Inverter Model or equivalent	
3	1.5 TR Ceiling Suspended Cassette Unit 3 Star Non- Inverter Model or Equivalent	
4	2.0 TR Wall mounted Split Unit 3/4 Star Inverter Model	
5	1.5 TR Wall mounted Split Unit 3/4Star Inverter Model	
6	1 TR Wall mounted Split Unit 3/4 Star Inverter Model	

Note: For any make, if OEM doesn't has specific star rating for the product but that product has equivalent energy saving as compared to the star rating, then vendor shall mentioned the same against the model number.

**AIR-CONDITIONING WORKS:**

Air-conditioning System (3/4 Star - Wall mounted Split Unit/ Ceiling Suspended Cassette unit)  
 Equipment Make – Voltas/ Daikin/ Hitachi  
 Model – Cassette with copper condenser  
 Copper Pipe- RAJCO/ MANDEV/ TOTALINE  
 All the work of Drain pipe/copper pipe/cable shall be properly supported by clamps from the slab.

**AIR-CONDITIONING WORKS:**

Sr. No	SPLIT TYPE AIR CONDITIONERS				
<b>A.</b>	<b>PART -A</b>				
	<b>HIGH SIDE WORK</b>				
	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount</b>
1	Supplying, erection, testing and commissioning following wall mounted Split/ Roof mounted cassette units of (Voltas/ Daikin/ Hitachi) with cordless remote complete with all necessary fittings duly insulated with 9 mm thick nitrile rubber pipe insulation with (evaporator coil – 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 R-22/ R-410. All complete as per drawing, approval and instructions of the Employer (Rates to be inclusive of Copper refrigerant pipe with insulation and Drain pipe up to 5 Mtr. length).				
a	1.0 TR wall mounted split unit (Minimum 3/4 Star rating Non- inverter type) including all necessary fittings and mountings as specified by the manufacturer.	Nos.	0		
b	1.5 TR wall mounted split unit (Minimum 3/4 Star rating Non- inverter type) including all necessary fittings and mountings as specified by the manufacturer.	Nos.	0		
c	2.0 TR wall mounted split unit (Minimum 3/4 Star rating Non- inverter type) including all necessary fittings and mountings as specified by the manufacturer.	Nos.	0		
d	1.5 TR Cassette type unit with 4 way/ round air flow including all necessary fittings and mountings as specified by the manufacturer. (3/4 star or Equivalent energy saving latest model Non- Inverter Type)	Nos.			
e	2.0 TR Cassette type unit with 4 way/ round air flow including all necessary fittings and mountings as specified by the manufacturer. (3/4 star or Equivalent energy saving latest model Non- Inverter Type)	Nos.	0		
f	3.0 TR Cassette type unit with 4 way/ round air flow including all necessary fittings and mountings as specified by the manufacturer . (3/4 star or Equivalent energy saving latest model Non- Inverter Type)				
	<b>PART A</b>				
<b>B.</b>	<b>PART -B</b>				
	<b>LOW SIDE WORK</b>				
1	<b>EXTRA REFRIGERANT PIPING</b>				
	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 TR/ 1.5/2.0 TR Split type AC and 2.0/3.0 TR Cassette AC (From Indoor to outdoor Units) Beyond 3 M. Approved Meke- RAJCO/ MANDEV/ TOTALINE				
a	For 1.0 T Split unit	Mtr.	55		
b	For 1.5 T Split unit	Mtr.	85		
c	For 2.0 T Split Unit	Mtr.	0		
d	For 1.5 T Cassette Unit	Mtr.			
e	For 2.0 T Cassette Unit	Mtr.			
f	For 3.0 T Cassette Unit	Mtr.			
2	<b>DRAIN PIPING</b>				
	Providing and fixing drain piping up to drain as directed by the engineer in charge with all accessories e.g. elbows, unions, sockets, reducers, reducing tees, nipples etc. Complete job including cutting chiseling in walls, fixing with GI clamps, 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. Approved make- Astal/ Ashirwad/ Prince.				
a	25 mm dia PVC drain pipe for Split AC	Mtr.	140		
b	32 mm dia PVC drain pipe for Cassette AC	Mtr.	0		
c	40mm dia PVC drain pipe for Cassette AC	Mtr			
3	<b>AUTOMATIC VOLTAGE CONTROLLER</b>				
	Providing and fixing of Stabilizer shall be Automatic version with copper coil transformer and the voltage selection range shall be minimum depending on lowest peak recorded average in a month. Precise output voltage range (130V-170V to 240V -270 V). Ensure the rating of Stabilizer shall be in accordance with max rated power of ACs considering instantaneous peak load fluctuation.				

	Providing and fixing Stabilizer with 3-4 step relay and input voltage range of 130-270 V and output to be 230-240 V (Blue bird/ Oberoi Reputed Make) (copper winding).				
a	5 KVA (For 3.0/ 2.0 TR Split AC)	Nos.	0		
b	4 KVA (For 1.5/ 2.0 TR Split AC)	Nos.	4		
c	3 KVA (For 1.0/ 1.5 TR Split AC)	Nos.	3		
<b>4</b>	<b>AIR-CONDITIONERS STAND WITH MS- CAGE</b>				
<b>1</b>	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 @ 5" c/c welded with 40 X 3 mm MS flat all- round. The frame shall be of angle 35mm*35mm and it shall be fixed to wall or roof with proper MS bracket to tackle the weight of outdoor unit. Item includes all necessary hardware, priming coat, synthetic enamel paint, hanger, clamps other accessories etc. All complete as per approval and instructions of the employer. Size shall be adequate for AC outdoor size & sufficient space around the outdoor suitable for servicing purpose for Outdoor unit.				
a	For 1.0 TR Hi Wall split units	Nos.	3		
b	For 1.5TR Hi Wall split units	Nos.	4		
c	For 2.0 TR Hi Wall split units	Nos.	0		
d	For 2.0 TR ceiling mounted cassette unit	Nos.	0		
e	For 3.0 TR ceiling mounted cassette unit	Nos.			
<b>5</b>	<b>ELECTRICAL CABLES</b>				
	Suitable IS/BIS standard Cable of 1.1-2.2 KV, Multi strand, FRLS 2- 4 C / 1.5/2.5 -6.0 Sqmm) as per design requirement of Peak load calculation of specific ACs system installed at site with 1"/1.2"/2" PVC conduit pipe between indoor/outdoor unit				
a	Supplying and laying of Extra Electrical interconnecting control cable from indoor to outdoor of size as specified by the manufacturer suitable for 1.0 TR/ 1.5/2.0 TR Split type AC. Approved Make- RR/ Polycab/ Havells	Mtr.	150		
b	Supplying and laying of Extra Electrical interconnecting control cable from indoor to outdoor of size as specified by the manufacturer suitable for 2.0/ 3.0 TR Cassette type AC. Approved Make- RR/ Polycab/ Havells	Mtr.	0		
<b>6</b>	<b>TIMER</b>				
	Supplying, installation and commissioning of automatic 24 HRS. programmable TIMER of required capacity to run A.C. alternately (L&T/ Sumsung / Panasonic reputed make).	Nos.	1		
<b>7</b>	<b>CORE CUTTING</b>				
	Core cutting member in Non RCC with civil works required at site including repairing & plastering etc.	Nos.	7		
	<b>PART B</b>				
<b>8</b>	<b>DISMANTLING WORK-</b> Existing items i.e. ODU, IDU & cables & wires and other AC items after approval of architect.	Lot	1		
<b>9</b>	<b>SUB TOTAL</b>				
<b>10</b>	<b>BUYBACK OF OLD ITEMS-</b> Existing items i.e. ODU, IDU & cables & wires and other AC items after approval of architect.	Lot	1		
	<b>GRAND TOTAL (SR. NO. 9- SR. NO. 10)</b>				

Note: The rates quoted includes all other taxes, duties, loading, unloading, transportation, other expenses etc. to site only GST will be paid Extra