SUMMERY OF TOTAL BOQ COST OF INTERIOR AND FURNISHING WORK TO BE DONE AT PUNJAB & SIND BANK BRANCH MEHAM HARYANA.		
1	FURNISHING WORK	
2	ELECTRICAL	
3	AIR CONDITIONING WORK	
	GRAND TOTAL	

Note :-

1 GST not Included in the rates.

BOQ OF INTERIOR AND FURNISHING WORK AT PUNJAB & SIND BANK BRANCH MEHAM HARYANA.

		BOQ of Branch & ATM			
S. No.	DESCRIPTION OF ITEM	UNIT	QUANTITY	RATE	AMOUNT
1	**CASH CABIN**				
a	Supply and installation of cash counters as per detail drawing in 19mm thk Bwr ply, finished with 1mm thick Laminate of approved make top & front faces up 4'-0"ht. complete in all respect handles 4"high skirting and polishing to exposed surface.Teak wood lipping including drawers, locks and lipping to be provided at every exposed section of board & ply Sliding channels for key board & drawers to be provided at top 3'-0" ht.front 12 mm thk glass erected with border etching fixed with Teak pillars at end including cutting of window for transaction/ between the customer and Cashier or officer. (Refer Architectural Drg.)	R Mt	1.60		
b	Supply & installation of partition wall in cash cabin counter made of 2 MM thick Aluminium tube frame The sections are placed @ 600 x 600 MM C/C both ways and additionally at openings or ends as required. Sections are joined by Aluminium angle cleats and the frame is fixed to wall, floor with suitable aluminium angles and fastened with steel screws.Frame size 50 x 50 MM with 9 MM thick BWR Ply finished with 1mm thick Laminate up to 4'.0" ht & then 2'.0'/2'-6" ht 12mm thick glass on top of partition wall fixed with Teak pillars at end.The rates include the doors in between the partition including hardware items like door closures, godrej sylindrical locks etc.complete in all respect. (Refer Architectural drg)	Sq Mt	14.00		
2	**PAINT WORK**				
a	Providing and applying three coats of pre-approved Plastic acrylic emulsion paint to walls, partitions etc. including surface preparation with two coats of putty, primer and sanding all complete. With the necessary drying periods for each coat. The final finish should be of a uniform and neat finish to the satisfaction of the Architect. Cost to inculde for all heights and surfaces , complete in all respect (Low VOC contain paint) Make: ICI DULUX ,Asian Paints.	Sq Mts	150.00		

b	Providing and applying plaster of paris (super fine quality) punning with minimum thickness of 6mm and finish the surface smooth in line and also making groove, level to the entire satisfaction of Architect including scraping and hacking the existing finished surfaces, scaffolding etc. complete in all respect	Sq Mts	40.00		
c	Painting two coats of enamel paint (Asian/BERGER) including scrubbing, sand paper, making base applying primer etc complete in all respect in , grills etc.complete in all respect	Sq Mts	40.00		
3	**False Ceiling**:- (Measurement shall be taken of the plan area only) Suspending system and frame work shall match to compliment the layout of A.C. Ducts / grills, electrical / fire protection wiring / fixtures, Return /supply Air grills etc. Rate to include provision of extra frame work needed due to layout referred above and fixtures etc. Rates to include necessary scaffolding.				
a	**Gypsum Board False ceiling** :-Providing & fixing Gypsum Board False ceiling with Saint Gobain "ULTRA" Main ceiling sections at 1200 c/c & Cross members at 450 c/c. The grid work to be suspended from ceiling with Hangers at every 1200 c/c both directions, as per manufacturer's specifications. False ceiling is finished with 12.5 mm thk. to be screwed to the frame. The board is finished with filling the tapered edges of the board with jointing compound and finishing with PAPER tape of INDIA GYPSUM. The ceiling is finished with acrylic Emulsion Paint including base as per approved manufacturer. The item includes all necessary cut outs for electrical / air conditioning grills and necessary frame work for them. Item includes Coves, curves, drops etc. (Only Plan area is considered for area calculations)	Sq Mts	80.00		

b	**ARMSTRONG CEILING** :- Providing & Fixing of Armstrong Mineral Fibre Suspended Ceiling System with **Dune RH 99** (Bevelled Tegular) Edge Tiles with Armstrong 15mm exposed GRID. Size-600x600x16 mm. The tiles should have Humidity Resistance (RH) of 99%, NRC 0.5,Light Reflectance 83%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Colour White, Fire Performance UK Class 0/Class 1 (BS 476 Part 6 & 7), in module size of 600x600 x 16mm with Anti Microbial coating on the face of the tile, suitable for Green Building application,with Recycled content of 39%. The tile shall be laid on Armstrong Suprafine XL 38 with 15MM wide T - section flanges colour white having rotary stitching on all T sections i.e. the Main Runner & 1200 mm Cross Tees with a web height of 38mm and a load carrying capacity of 14Kgs/M2 & minimum pull out strength of 100Kgs. . The T Sections have a Galvanizing of 90 grams per M2 and need to be installed with Suspension system of Armstrong make. **INSTALLATION:** To comprise main runner spaced at 1200mm centres securely fixed to the structural soffit using Armstrong suspension system (specifications below) at 1200mm maximum centre. The First/Last Armstrong suspension system at the				

	Flush fitting 1200mm long cross tees to be interlocked between main runners at 600mm centre to form 1200 x 600 mm module. Cut cross tees longer than 600mm require independent support. 600x600mm module to be formed by fitting 600mm long flush fitting cross tees centrally between the 1200mm cross tees. Perimeter trim to be Armstrong wall angles of size 3000x19x19mm, secured to walls at 450 mm maximum centres. Installation to be carried out by Armstrong Trained Installation team & Installation should be carried out as per Armstrong recommended procedure. **ARMSTRONG SUSPENSION SYSTEM** accessories manufactured and supplied by Armstrong World Industries consisting of M6 Anchor Fasteners with Vertical Hangers made of Galvanised steel of size 26 x 26 x 25 x 1.2mm with a Galvanised Thickness of 80gsm, A pre tightened Hanger wire of dia – 2.5 mm of 1.8 m length., thickness of 80gsm and a tensile strength of 344-413 MPa, along with Adjustable hook clips of 0.8mm thick, galvanised spring steel for 2.68 mm with a minimum pull strength of 110 kg. The adjustable clip also consists of a 3.5 mm aquiline wire to be used with the main runner.				
	ARMSTRONG "DUNE RH 99 (Bevelled Tegular) EDGE TILES WITH ARMSTRONG 15mm Exposed" SYSTEM	Sq Mts	20.00		
4	**LOW HEIGHT PARTITION**				
	Providing and Fixing of low height wooden partition (up to 4'-0" height) made of 2 MM thick Aluminium tube frame The sections are placed @ 600 x 600 MM C/C both ways and additionally at openings or ends as required. Sections are joined by Aluminium angle cleats and the frame is fixed to wall, floor with suitable aluminium angles and fastened with steel screws.Frame size 50 x 50 MM with 9 MM thick BWR Ply finished with 1mm thk Laminate as per approved colour,design, shape and size,inculding on top Teak wood lipping 6mm thk as required to be provided at every exposed section of ply inculding Anti Termite Treatment complete in all respect and satisfacation,instructed by Architect/Engg.(Wicket door Included complete in all respect)	Sq Mts	5.00		
5	**FULL HEIGHT WOODEN GLAZED PARTITION**				

	Providing and Fixing of full height wooden glazed partition made of 2 MM thick Aluminium tube frame The sections are placed @ 600 x 600 MM C/C both ways and additionally at openings or ends as required. Sections are joined by Aluminium angle cleats and the frame is fixed to wall, floor & ceiling with suitable aluminium angles and fastened with steel screws.Frame size 50 x 50 MM with 9 MM thick BWR Ply with 1mm thk. Laminate in approved colour,design, shape and size, & 12mm thick toughned glass panel fixed upto 8'-0"ht. inculding all exposed surface with teak lipping 6mm thk as required and instructed by Architect and teak wood door frame in between the partition. inculding Anti Termite Treatment.Complete in all respect and satisfacation of Architect/Engg.	Sq Mts	16.00		
6	Providing & fixing 12mm toughened fixed glass partition upto the false ceiling height. The glass fixed with S.S channel inserted in floor and fixed to wooden member in the false ceiling. The size of glass to be bigger in width. The edges of glass to be polished and if joints are needed the joints to be filed with matching silicon complete.	Sq Mts	5.00		
7	**FULL HEIGHT SOILD PARTITION**				
	Providing and Fixing of full height wooden partition made of 2 MM thick Aluminium tube frame The sections are placed @ 600 x 600 MM C/C both ways and additionally at openings or ends as required. Sections are joined by Aluminium angle cleats and the frame is fixed to wall, floor & ceiling with suitable aluminium angles and fastened with steel screws.Frame size 50 x 50 MM with 9 MM thick BWR Ply with 1mm thk. Laminate in approved colour,design, shape and size, inculding all exposed surface with teak lipping 6mm thk as required and instructed by Architect and teak wood door frame in between the partition. inculding Anti Termite Treatment.Complete in all respect and satisfacation of Architect/Engg.	Sq Mts	30.00		
8	**DOORS**				

a	Providing and fixing frame less patch fitting Single and double door with 12mm thick toughened (As per approved design & name/logo) with frame less glass fittings & two way floor springs (DORSET, OZONE or equivalent make). The item includes providing and fixing S.S. handle 450 mm long on both side of glass, locks and fittings as per the manufacturer's specifications. complete to the satisfaction of Architect/ Bank's Engg	Sq Mts	6.50		
b	Providing and fixing 35 mm Flush doors with 1.0 mm thk. laminate on both sides as per design. Edges of door to have 6mm thick Teakwood lipping. The item includes Providing and fixing chaukhats made from 75mm x 40mm TEAK wood members. Item includes all following items / finishes: hardware such as 4 nos. 125mm SS hinges, SS tower bolts,Door Closer,Mortise Locks with SS handles (Hettich, Dorset, Godrej). Item includes polishing all wooden surfaces with Deco paint Rubbing poilishing etc including preparing base. Size of Door: 1000 x2400mm including Chaukhats.	Sq.Mts	6.00		
9	**PANELLING BRANCH & ATM**				
	Providing and Fixing of wooden Panelling of wall on hall and column made of 2 MM thick Aluminium tube frame The sections are placed @ 600 x 600 MM C/C both ways and additionally at openings or ends as required. Sections are joined by Aluminium angle cleats and the frame is fixed to wall, floor & ceiling with suitable aluminium angles and fastened with steel screws.Frame size 25 x 50 MM with 9 MM thick BWR Ply with 1mm thk. Laminate in approved colour,design, shape and size, inculding Anti Termite Treatment.Complete in all respect and satisfacation of Architect/Engg.	Sq Mts.	65.00		
10	**SOFT BOARD**				
	Providing and fixing of soft board with cloth (approved by Architect) on low ht partition/wall , inculding fixing, hardware/adhesives complete in all respect.(Basic rate of cloth to be Rs 200/Sq.mt)	Sq Mts	2.00		
11	Providing & fixing 12mm toughened fixed glass divider and front/top glass on table between low height partition upto the Low height partition. The glass fixed with S.S channel inserted in partitio and fixed to wooden member in the wall and partition. The edges of glass to be polished. cash desk window required.	Sq Mts	3.00		

12	**Storage**				
a	Providing and fixing Storage cabinet 380 mm deep and 750/1200 mm high length as/deign as shown in details with top all sides, shelves to be 18-19 mm thk. BWR ply with 6mm BWR ply to be fixed at the back finished with 1 mm laminate. The shutters/sides/top to be 18-19mm BWR ply,finished with 1mm thk laminate. All internal surfaces to be finished with white Paint. All edges of sides, shelves and shutters to have 2mm PVC Edge binding tape as per details, complete including S.S. long handles, self closing hinges, locks, etc. complete to the satisfaction of Architect /Bank's Engg. (Only front elevation to be considered for area calculation)	Sq Mts	10.00		
b	Providing and fixing Storage cabinet 450mm deep and 2100 mm high length as/deign as shown in details with top all sides, shelves to be 18-19 mm thk. BWR ply with 6mm BWR ply to be fixed at the back finished with 1 mm laminate. The shutters/sides/top to be 18-19mm BWR ply,finished with 1mm thk laminate. All internal surfaces to be finished with white Paint. All edges of sides, shelves and shutters to have 2mm PVC Edge binding tape as per details, complete including S.S. long handles, self closing hinges, locks, etc. complete to the satisfaction of Architect /Bank's Engg. (Only front elevation to be considered for area calculation)	Sq Mts	19.00		

13	**Chief Manager table** to have 18-19 BWR Ply , finished with 1mm thk Laminate all edges of table and front or side. All internal surface of table to be finished with white paint..Drawer unit to be made from only FASCIA 19mm BWR ply but the inner drawers made from 12mm Bwr Ply.and 19mm BWR ply FASCIA finished with 1mm thk Laminate .The drawers to run on telescopic drawer channels (Hettich, Kaff, ozone). Drawer units to have two smaller and one bigger drawers.and locking arrangement (Godrej/ Hettich/ Dorset). Inculding Teak lipping 6mm thk as required to be provided at every section of ply.Footrest of 75x50mm 2nd class teakwood member to be fixed for each table with Deco paint on expoed teak wood surface /lipping, the rate to include all hardware such as drawer channels, S.S handles, single lock for three drawers etc. The item also includes a key-board tray running on telescopic channel, made from 19mm BWR Ply finished with 1 mm laminate on top and teakwood round moulding in front (size of key board 560x450) readymade CPU trolley with castors etc T**he table size is taken to be 1800mm wide x 900mm depth x750mm height.(As per drawing)**	Nos	1.00		
14	Providing and fixing **Side Credenza/ table** made from 19mm BWR Ply for sides, shelves, top and shutters. The table exposed areas front,top and sides to be finished in 1mm thk Laminate All internal surface of table to be finished with white paint, all edges of table Inculding Teak lipping 6mm thk as required to be provided at every section of ply.complete with base as required. Item includes all hardware such as Self closing hinges, SS handles, Locks etc. complete. Rest of specifications to be same as for main furniture. **size of side table 900 x380 x 675.**	Nos	1.00		

15	**Officer table** in Credit dept. to have 18-19 BWR Ply , finished with 1mm thk Laminate all edges of table and front or side. All internal surface of table to be finished with white paint..Drawer unit to be made from only FASCIA 19mm BWR ply but the inner drawers made from 12mm Bwr Ply.and 19mm BWR ply FASCIA finished with 1mm thk Laminate .The drawers to run on telescopic drawer channels (Hettich, Kaff, ozone). Drawer units to have two smaller and one bigger drawers.and locking arrangement (Godrej/ Hettich/ Dorset). Inculding Teak lipping 6mm thk as required to be provided at every section of ply.Footrest of 75x50mm 2nd class teakwood member to be fixed for each table with Deco paint on expoed teak wood surface /lipping, the rate to include all hardware such as drawer channels, S.S handles, single lock for three drawers etc. The item also includes a key-board tray running on telescopic channel, made from 19mm BWR Ply finished with 1 mm laminate on top and teakwood round moulding in front (size of key board 560x450) readymade CPU trolley with castors etc **The table size is taken to be 1200 mm wide x 600 mm depth x750mm height.(As per drawing)**	Nos	4.00		
16	Providing & fixing writing table (as/design) with size - 450mmx 600mm made out of 19mm th water proof Bwr ply finished with 1mm thk.laminate.	nos	1.00		
17	Providing & fixing in position Cheque drop box (as/design) with hinged shutter of size - 450mmx600mmx300mm made out of 19mm th water proof Bwr Ply finished with 1mm thk laminate. The higed shutter shall be made out of teak wood frame workwith 6mm th. Float glass	Nos	1.00		
18	Providing and fixing **notice boards** with 19mm BWR Ply sides finished with 1.0 mm thk. Laminate finish and 8mm clear glass Shutters fixed on pivots. The back to have 6mm thk BWR Ply and 12mm soft board covered with cloth of approved shade. Item includes all hardware such as push catcher, lock for glass shutters etc complete including polishing the teak surfaces (Size 1200x600 & 150 deep) .	Nos	1.00		

19	Providing & fixing in position complaint /suggestion box (as/design) with hinged shutter of size - 450mmx 600mm made out of 19mm th water proof Bwr Ply Finished with 1mm th laminate. The hinged shutter shall be made out of teak wood frame work with 4mm th. Float glass.	Nos	1.00		
20	Providing and fixing of 3M film **CRYSTAL as per design**	Sq Mts	5.00		
21	Providing and fixing vertical blinds of approved shade and texture (Vista/Hunter douglas)	Sq Mts	5.00		
22	Supply and installation of boxing of rolling shutter with 4mm ACP Sheet consisting of 3mm tk FRgrade mineral core Sandwiched between two aluminium sheets (.5mm thick) with 25 x 25 mm aluminium tube at spacing 600 x 600 of approved make.	Sq Mts	7.00		
	TOTAL CARRIED OVER TO SUMMARY				

BOQ OF ELECTRICAL WORK FOR PUNJAB & SIND BANK BRANCH MEHAM HARYANA.

S.No.	DESCRIPTION				AMOUNT
A)	**MV PANEL BOARDS**				
B)	**MV CABLES**				
C)	**DISTRIBUTION BOARDS**				
D)	**POINT WIRING**				
E)	**TELEPHONE SYSTEM**				
F)	**COMPUTER DATA NETWORKING**				
G)	**SUPPLY & INSTALLATION FANS FIXTURES & LIGHTS**				
H)	**EARTHING**				
I)	**FIRE FIGHTING**				
J)	**CCTV CAMERA**				
	TOTAL OF ELECTRICAL				
	PREAMBLE TO BOQ				
1.0	The work shall be executed as per relevant specification and drawings.				
2.0	All material and equipment shall be as per specification and as per approved makes of material. Where specifications are not available the material shall be as per Indian standard specifications. The quantities and capacities of the equipments shall meet the requirement for successful completion of the work.				
3.0	The installation and testing shall also be as per specifications and as per direction and satisfaction of Engineer in charge.				
4.0	Contractor shall submit the shop drawings for approval by consultants / Engineer in charge. The work shall be carried out as per the approved shop drawings.				
5.0	Panels shall be fabricated as per specifications after approval of fabrication drawings by consultant / Engineer incharge.				
6.0	All Electrical panel must have provision of potential free contacts for BMS/FAS.				
7.0	All Electrical panel must have digital type energy meter with RS 485 port.				
8.0	The rates of all the items of the BOQ shall include the cost of :-				
i)	All materials, fixing hardware, accessories, tools and plants, freight, insurance, labour, taxes, duties, testing commissioning and of the work, as per specifications and drawings.				
ii)	Wastage on material and labour.				
iii)	Loading, unloading, handling charges, hoisting the material to all upper levels.				
iv)	Execute the work as per specifications and drawings to the full satisfaction of engineer incharge.				

v)	All liabilities, obligations and risks arising out of conditions of contract.				
vi)	All requirements for successful completion of the work whether mentioned in BOQ, specifications land drawings or not.				
vii)	In the event of conflict between BOQ, specifications and drawings, the most stringent shall apply. The decision of Architect / Engineer incharge / Consultant shall be final and binding.				
9.0	The quantities of the items in the BOQ are for general guidance only based on the consultants drawings and documents. The contractor shall be paid for actual quantities as per schedule rates.				
10.0	Contractor shall visit the site before quoting the rates and satisfying himself about the working conditions. Since this is a tall building, hoisting the material to upper levels may be taken into account white quoting the rates. No extra claim on this account shall be entertained.				
11.0	Approval of all makes of material to be supplied out of approved list, shall be obtained by the contractor. Sample of the material shall be kept at site to check with the material actually installed at site.				
12.0	Engineer in charge may get the material tested at authorized labs. In case material is found under specifications as per IS, same shall be replaced by the contractor. The test fee for 1st test shall be borne by the client but for subsequent test, fee due to failure of first sample, would be borne by the contractor.				
13.0	Testing and commissioning shall be carried out as per IS 732-1989 for the installation. The record of test results shall be maintained and submitted to the engineer in charge who would check the same at random.				
14.0	The tender shall be filled in ink and any cutting / overwriting shall be attested by the tenderer. Rates shall be quoted both in figures and words. If there is discrepancy between the rates in figures and words, then rates in words shall be final.				
15.0	Totaling errors or missing amounts shall be corrected and incorporated in tendered amount.				
16.0	Continuous earth wire shall run alongwith circuit wiring and point wiring. All switch boxes and fixtures shall be earthed. Only solid conductor earth wire shall be used for earthing.				
17.0	Where only conduits are laid for other services 16 SWG steel wire shall run in the conduit for pulling the wires at later date, by other agencies.				

18.0	Tenderer may note that there are lot of RCC walls in which conduits and outlet boxes switch boxes are to be provided. Costing of such walls shall be done with mixer shutterings. Conduits and boxes shall be laid before pouring the concrete. The outlet boxes, J.boxes, switch boxes shall be touch welded to the reinforcement before concreting. Only deep metallic J.boxes shall be used with PVC conduit as well.				
19.0	All connections shall be through, aluminium ferrules for aluminum conductors and copper ferrules for copper conductor cables.				
20.0	Earth wire with point wiring, circuit wiring, shall be of green colour with solid conductor.				
21.0	DBs shall be circuit numbered.				
22.0	As built drawing shall be prepared by the contractor after successful completion of the work these drawings shall incorporate the actual layouts, routes of cables and conduits with sizes, locations of outlets, DBS switch rooms panel, Tag blocks EPABX, Switches servers, fire detectors, zonal and main fire panels, location of CCTV cameras, monitors, etc. sets of blue prints of switch drawings shall be submitted to the Engineer incharge for verification with actual layout at site and for record.				
S. No.	**DESCRIPTION OF ITEM**	**UNIT**	**QUANTITY**	**RATE**	**AMOUNT**
A)	**MV PANEL BOARDS**				
	Design, fabrication, loading, unloading at store, installaton, testing & commissioning as directed by Engineer-in-Charge, of LT Panels fabricated out of 2mm thick for structural members (Load bearing members) and 1.6mm thick for door and covers (Non load bearing members) CRCA sheet in cubicle compartmentalize free standing floor mounted, dust and vermin proof with reinforcement of suitable size angle iron, channel 'T' irons and / or flats wherever necessary, 16 gauge CRCA sheet steel shall be used for final distribution panels. Cable gland plates shall be provided on top as well as at the bottom of the panels. Panels shall be treated with all anticorrosive process before painting as per specifications with 2 coats of zinc chromate primer and final approved shade of enamelled paint. 2 Nos. earthing terminals shall be provided for all distribution panels. Panels shall be suitable for 415V, 3-phase, 4-wire, 50Hz supply system and with 15% spare space, lifting hooks shall also be provided in case of large panels. Panel must be BMS/FAS Compatible.				
	Approval shall be taken for each panel before fabrication. Galvanized hardwares with zinc passivation shall be used in fabrication of panels.				

	General Notes:				
1.0	**MCCB:**				
	MCCBs shall be used with Thermal Magnetic Based releases upto 250A and microprocessor based Over Load, Short Circuit / Earth Fault release.				
2.0	Breaking capacity mentioned is Ics value.				
3.0	This BOQ to be read in conjunction with technical specifications and Single Line Diagram (attached for reference). If any discrepancy occurs that should be brought to the notice of Client/Consultant before quoting the price otherwise stringent condition will be deemed to have been considered.				
4.0	All MCCBs shall be provided with rotary operating handle and ON/OFF lamps.				
5.0	All meters shall be digital type (unless otherwise specified) with RS 485 Port.				
6.0	All Incoming and outgoing breaker must have provision of Potential free contacts for BMS/FAS.				
7.0	All MCBs shall be motor duty type.				
8.0	All current/voltage transformer shall be cast resin type.				
9.0	All indicating lamps shall be LED type.				
10.0	Current density for Al. bus bars shall not be more than 0.8A/Sqmm. Rating of Bus bar is after considering all derating factors. (Bus bar sizing calculation to be submitted for approval.)				
11.0	All internal control wiring shall be heat resistant type.				
12.0	All TP feeders shall be provided with Isolable neutral link.				
13.0	Bus bar chamber & cable entry both shall be provided at top only.				
14.0	All feeders shall be provided with door interlocked with door defeat, pad lock facility.				
15.0	Live parts shall not be accessible after opening the door, Transparent acrylic sheet to be provided to cover the same.				
16.0	Spare contacts of MCCBs / Relay / Contactor shall be wired upto terminal block.				
17.0	20% spare control terminal to be provided.				
18.0	All incoming/outgoing cables shall be terminated on links/terminals.				
1.0	**MV PANEL**				
	(Loc. :- Panel Room)				
I.	INCOMING				
a)	1 No-125 Amp,25KA,4P MCCB				
II.	**METERING & INDICATION SEB**				
a)	CT for metering 120/5A Class-1, 15VA - 3 Nos.				
b)	Multifunction Meter-1 no.				
c)	Red, Yellow & Blue indicating lights with control MCB of 2A - 1 Set				
III	**OUTGOING**				
a)	63 A TPN MCB (10KA) - 2 No.				
b)	40A TPN MCB (10KA) -`1 Nos.				

c)	25A DP MCB (10KA) -1 Nos	Nos	1.00		
d)	g) 4 Pole ELCB/RCCB 100 M Amp , 1 Nos of Siemems/ L&T/Sneider Including all accessories neutral links etc all complete including dressing				
e)	Manual changeover 125 Amp				
	TOTAL CARRIED OVER TO SUMMARY			**(A)**	
B)	**MV CABLES**				
1	Supplying, Laying, testing & commissioning of the following sizes of XLPE Al. Conductor armoured cables of 1.1KV grade on the surface of wall or on existing cable trays complete with hangers, properclamps fixing hardware etc. as required				
a)	4 C x 25 Sq. mm Al. Cable	R/mt	25.00		
b)	4 x 10 sqmm Copper Wire with 50 mm conduit	R/mt	30.00		
c)	4 x 6 sqmm Copper Wire with 25 mm conduit	R/mt	15.00		
2	Suppling, making, testing & commissioning of end termination with brass mettalic double compression glands suitable for the following sizes of XLPE Al. conductor arnoured cables including proper sizes of copper thimbles etc. as required.				
a)	4 C x 25 Sq. mm Al. Cable	Nos	4.00		
b)	4 x 10 sqmm Copper Wire	Nos	4.00		
c)	4 x 6 sqmm Copper Wire	Nos	4.00		
	TOTAL CARRIED OVER TO SUMMARY			**(B)**	
C)	**DISTRIBUTION BOARDS**				
	Supplying, installation, testing & commissioning of following type wall mounted Horizontal TPN/SPN distribution board of double door type design made out of 16 gauge MS sheet with supplying and fixing following accessories including painting, interconnections, painting, earthing and labeling etc. as required.				
1.0	4 WAY TPN DB (PDB)				
	Incoming				
a)	63Amp TPN MCB (10KA) - 1 No				
b)	63Amp DP RCCB (30mA) -1 Nos				
	Busbars				
c)	100 Amp TPN copper busbars - 1 Set				
	Outgoing				
d)	10/16/20/25 Amp SP MCB (10KA) - 12 Nos	Set	1.00		
	Neutral links - 3 Nos (Separate for each phase)				
2.0	4 WAY TPN DB (LDB)				
	Incoming				
a)	40Amp TPN MCB (10KA) - 1 No				
b)	40Amp DP RCCB (30mA) - 1 Nos				
	Busbars				
c)	100 Amp TPN copper busbars - 1 Set				
	Outgoing				
d)	10/16/20/25 Amp SP MCB (10KA) - 12 Nos	Set	1.00		
	Neutral links - 3 Nos (Separate for each phase)				
3.0	4 WAY TPN DB (UPS)				

	Incoming				
a)	40Amp TPN MCB (10KA) - 1 No				
b)	40Amp DP RCCB (30mA) - 1 Nos				
	Busbars				
c)	100 Amp TPN copper busbars - 1 Set				
	Outgoing				
d)	10/16/20/25 Amp SP MCB (10KA) - 12 Nos				
	Neutral links - 3 Nos (Separate for each phase)	Set	1.00		
	(Separate for each phase)				
4.0	63 Amp. 4 P ,25ka MCB with Box for UPS	Set	2.00		
	TOTAL CARRIED OVER TO SUMMARY			**(C)**	
D)	**POINT WIRING**				
1.0	Wiring for switch controlled Light Point with 3 x 1.5 Sq. mm PVC insulated FRLS multistrand copper conductor 1100 Volt grade wires in PVC surface/recessed conduit with accessories including cost of providing saddles etc for surface conduiting and/or cost of cutting and filling chases for recessed conduiting and including the cost of supplying and fixing a 6 Amp 240 Volt grid plate mounted switch with moulded cover plate in zinc chromate passivated MS box, and costing circuit wiring with 3 x 2.5sq. mm 1100 volt grade PVC insulated FRLS Multistrand copper conductor wires, inPVC conduit complete as per specifications and as required.				
(i)	Primary Point	Points	20.00		
(ii)	Secondary Point	Points	15.00		
2a	Wiring for 5 pin 6 A Light plug point with 3 x 1.5 Sq.mm PVC insulated FRLS multistrand copper conductor 1100 Volt grade wires in **recessed/surface FRLS PVC conduit** with accessories including cost of providing saddles etc for surface conduiting and/or cost of cutting & filling chases for recessed conduiting, including the cost of providing & fixing 1 No. Modular type 3 pin 6 A socket outlet controlled by 6 A switch in zinc chromate passivated MS box, and circuit wiring with 3 x 2.5 sq mm complete as per specfications and as required.	Points	12.00		
b	Wiring for 3 nos. 5 pin 6 A Light plug point controled by 6 A Switch with 3 x 2.5 Sq.mm PVC insulated FRLS multistrand copper conductor 1100 Volt grade wires in **recessed/surface PVC conduit** with accessories including cost of providing saddles etc for surface conduiting and/or cost of cutting & filling chases for recessed conduiting, including the cost of providing & fixing 1 No. Modular type 3nos.5 pin 6 A socket outlet controlled by 6 A switch in zinc chromate passivated MS box, and circuit wiring with 3 x 2.5 sq mm complete as per specfications and as required.	Points	10.00		

3.0	Wiring for following. 6 pin 6/16 A Power plug point controlled by 1 No. 16A Switch with 3 x 4.0 Sq. mm PVC insulated FRLS multi strand copper conductor 1100 Volt grade wires in recessed/surfacePVC conduit with accessories including cost of providing saddles etc for surface conduiting and/or cost of cutting chases for recessed conduiting, including the cost of providing & fixing 1 No. Modular type 6 pin 16 A socket outlet controlled by 1 No. 16 A switch in zinc chromate passivated MS box, complete as per specification and as required.	Points	4.00		
4.0	Wiring for ceiling/wall fan Point with 3 x 1.5 Sq. mm PVC insulated FRLS multi strand copper conductor 1100 Volt grade wires in surface / recessed, PVC conduit with accessories including cost of providing saddles etc for surface conduiting and/or cost of cutting and filling chases for recessed conduiting and including the cost of supplying and fixing a 6 Amp 240 Volt grid plate mounted switch & 300W electronic regulator with moulded cover plate in zinc chromate passivated MS box, and including the cost of circuit wiring with 3 x 2.5sq. mm 1100 volt grade PVC insulated FRLS multi strand copper conductor wire, inPVC conduit complete as per specifications and as required.	Points	9.00		
5.0	Wiring for exhaust fan Point with 3 x 1.5 Sq. mm PVC insulated FRLS multi strand copper conductor 1100 Volt grade wires in surface / recessed PVC conduit with accessories including cost of providing saddles etc for surface conduiting and/or cost of cutting and filling chases for recessed conduiting and including the cost of supplying and fixing a 6 Amp 240 Volt grid plate mounted switch with moulded cover plate in zinc chromate passivated MS box, and including the cost of circuit wiring with 3 x 2.5sq. mm 1100 volt grade PVC insulated FRLS multi strand copper conductor wire, inPVC donduit complete as per specifications and as required.	NOs	3.00		
6.0	Wiring for 20A Single Phase metal clad socket outlet with 2 x 4 +1 x 2.5 sqmm PVC insulated FRLS multistrand copper wire of 1100 volt grade in surface / recessed PVC conduit pipe with accessories including supply and fixing 20A 3pin metal clad plug and socket and 20A SP MCB (MD) in IP 44 Poly carbonate box complete as per specification and as required.	Points	5.00		
7.0	Providing and fixing of following sizes of **PVC Flexible Conduits** suitable for various applications, halogen free, oil and petrol resistant, flame retardant, self extiguishing, high compressive strength and good wearing properties along with connectors complete with conduit gland & all accessories required.				

a)	25mm dia	RM	100.00		
	TOTAL CARRIED OVER TO SUMMARY			**(D)**	
E)	**TELEPHONE SYSTEM**				
1.0	Supply & fixing the following sizes of PVC conduit in recessed or on surface of wall . False ceiling including cutting the wall and making good the same as required.				
a)	25 mm dia	RM	55.00		
2.0	Supply and fixing of RJ11 moduler Telephone outlet in Zinc chromate passivated M.S. Box and Modular Plate including cost of M.S.box, modular plate and connections etc as required.	Nos.	6.00		
3.0	Supply & fixing the following sizes of 16 SWG Krone telephone tag blocks housed in suitable sizes of powder coated MS boxes with hinge cover complete as required.				
b)	20 pair telephone tag block	Nos.	1.00		
4.0	Supplying & laying the following sizes of PVC insulated and overall sheathed taped telephone cables of 0.51mm dia size inPVC conduit recessed in wall or on surface of wall including cutting the chases in making good the same and connection etc. complete as required. (From TTB on Ground Floor to Upper Floor)				
a)	2 pair telephone wire	RM	210.00		
c)	20 Pair telephone cable	RM	35.00		
	TOTAL CARRIED OVER TO SUMMARY			**(E)**	
F)	**COMPUTER DATA NETWORKING**				
1.0	Supply & fixing the following size of PVC conduit in Floor/Surface of wall, including cutting the Floor/Wall and make the good the same as required **(For Switcher to Data point.)**				
a)	25 mm dia	Mtrs	80.00		
2.0	Supply and fixing flush steel box for computer data outlet dully recessed in wall complete computer outlet RJ 45 including connect etc. required.	Nos.	10.00		
3.0	Supply and drawing of cat 6 Data cable in existing conduit with suitable clamp and saddles and other accessories required making connection on both the ends.	Mtrs	300.00		
4.0	12U Rack (D Link)	Nos.	1.00		
5.0	24port Switch (d Link)	Nos.	1.00		
	TOTAL CARRIED OVER TO SUMMARY			**(F)**	
G)	**SUPPLY & INSTALLATION FANS FIXTURES & LIGHTS**				
1.0	Supply & installation , testing & commissioning of 48/36/24" **ceiling Fan** complete with all accessories such as	Nos.	1.00		

2	Supply & installation , testing & commissioning of wall Mounted Fan 500mm Sweep. complete with all accessories such as blades, canopy etc.Connection with 3 x 1.5 sq mm FRLS PVC insulated multistranded copper conductor wires from the socket outlet to the fan earthing etc. . complete as required.(Wall Mounted Fans Bracket fans sweep 500 mm)	Nos.	8.00		
3	Supply & installation, testing & commissioning of 12/9" Exhaust fans on existing opening in wall including all fixing hardware, louvers, shutters etc. Connection with 3 x 1.5 Sqmm FRLS PVC insulated multistranded copper conductor wire from the socket outlet to the fan earthing etc. complete as required.	Nos.	3.00		
4	Supply and Installation of unpacking, assembling, testing, & commissioning of All type of Recessed / Surface mounted Lighting Fixtures (as approved by client/architect) including all fixing hardwares complete as required S/F of 600 x 600 LED recessed mounted (LED 36 Watt 6500 K in false ceiling)	Nos.	16.00		
5	Suppy and Installation of storing, unpacking, assembling, testing, & commissioning of All type of Recessed / Surface mounted Lighting Fixtures (as approved by client/architect) including all fixing hardwares complete as required (LED Down Lighter 12 Watt-)	Nos.	16.00		
6.0	installation of storing, unpacking, assembling, testing, & commissioning of All type of Recessed / Surface mounted Lighting Fixtures (as approved by client/architect) including all fixing hardwares complete as required (LED tube Light 20 watt)	Nos.	3.00		
	TOTAL CARRIED OVER TO SUMMARY			**(G)**	
H)	**EARTHING**				
1.0	Earthing with copper plate electrode 600x600x3mm including accessories & providing masonary enclosure with MS cover plate having locking arrangmnt, watering pipe and excavation in soil 6 MTRS minimum, including salt and charcoalas required including P&F 8 Guaze SWG copper wirein recessor surface for earthing as per design & detail complete. Including Supplying, laying & terminating earth connection with 8 SWG Copper wire.	No.	2.00		
	TOTAL CARRIED OVER TO SUMMARY			**(H)**	
I)	**FIRE FIGHTING WORK FOR BRANCH & ATM**				

1.0	Fire Alarm Panel 2 ZONE with Advanced Micro controller based, character LCD display. Zone wise Fire,open,short LED indicators, testing facility. Trickle & fast charging facility. Reset, alarm cancel, lamp test and control etc. Compatible with any make smoke and heat detectors. (Make Agni Surkhsha /Morley) Technical :: Power Supply 230 V AC , 50 Hz / 24 V DC, Operating Voltage 24 V DC, Normal Loop Voltage 23.20 V DC, E.O.L. 4K7	No.	1.00		
2.0	Supplying of WIRE 2 CORE 1.5MM conductor non-armoured cable. (approve make:Polycab/Finolex/CCI)	Rmt	110.00		
3.0	Supplying, Installation, connection, testing & commissioning the following :				
i	Smoke Detector - Optical type low current draw, wide operating voltage 8 to 30 VDC, Bi-colour LED detector status indicator. Automatic drift compensation. Tested and approved to EN54 - 7:2000 (Amendment 1). Photoelectric Smoke Detector. (Make :-Apollo/ System Sensor / Edwards)	nos.	6.00		
ii	HEAT Detector - Optical type low current draw, wide operating voltage 8 to 30 VDC, Bi-colour LED detector status indicator. Automatic drift compensation. Tested and approved to EN54 - 7:2000 (Amendment 1). Photoelectric Smoke Detector (Make Apollo/ System Sensor / Edwards)	nos.	3.00		
	The LED of the above detectors should constantly blink when the system is ON and should constantly glow when actuated				
iii	Electronic Hooter . Hi-Intensive sound (80 to 100 db), Tested by ERTL as per IS:2189. Power I/P 100 V AC or 24 V DC. Sound O/P 100dB. Colour Red. Speaker 4 watt : (Make Agni Surkhsha/Morley)	nos.	2.00		
iv	Supply, Installation of Manual Call Point with hammer and chain. As per IS:2189. SS Chain , Hammer & blinking. Power I/P 24 V DC, MS Sheet, 750 gm., Dimensions (mm) 120 X 90 X 55. Colour - Red. (Make Agni Surkhsha/Morley)	nos.	2.00		
v	Providing and fixing panic switch for emerjency alarm complete.	nos.	4.00		
vi	Providing and fixing Motion sensor and magnate for Strong room Door complete.	nos.	1.00		
	TOTAL CARRIED OVER TO SUMMARY			**(I)**	
J)	**CCTV CAMERA**				
1.0	providing and fixing 8 chanel HD DVR 1080p Digital Video Recorder supports both analog and IP cameras 1080p HD resolution DVR and camera Real-time recording for all cameras Inbuilt hard drive 1 TB Hard Disk .8 Channal HD DVR 1080p Hik vision, CP plus)	nos.	1.00		
3.0	Supplying of 3+1 Coaxial Pure Copper CCTV Camera Cable conductor non-armoured cable. (approve make: Polycab / Finolex /CCI)	Rmt	120.00		

3.0	Providing and fixing of new CCTV camera for branch complete all respect.(approve make:Hik vision, CP plus)	nos.	6.00		
				(J)	

BOQ OF AIR-CONDITIONING WORK FOR PUNJAB & SIND BANK BRANCH MEHAM HARYANA.

AIR CONDITIONING WORKS FOR BRANCH AND ATM

S. No.	DESCRIPTION OF ITEM	UNIT	QUANTITY	RATE	AMOUNT
	INSTALLATION OF SPLIT/WINDOW AC's AND ARRANGEMENT OF AC DRAIN PIPES WITH PROPER DRAINAGE				
1	Extra piping/Cabling for split aitconditioning other than 10 mts included in the above rates If Required	R/Mts	90.00		
2	25 mm dia cpvc pipe with Insulation for drainage of spilt ac	R/Mts	65.00		
3	Steel work welded in built up sections / framed work, including cutting, hoisting, fixing in postion and applying a priming coat of approved steel primer using AC outdoor unit Cageing.	Kg.	200.00		
				TOTAL	

Note :- AC Machines to be purchage by bank