

SUMMARY OF BOQ FOR INTERIOR FURNISHING WORK AT INDIAN BANK, LONI, GHAZIABAD

1	INTERIOR FURNISHING WORK	
2	ELECTRICAL WORK	
3	AC WORK	
		TOTAL
	* GST EXTRA AS APPLICABLE	



BOQ FOR FURNISHING WORKS AT INDIAN BANK, LONI, GHAZIABAD

S.NO.	DESCRIPTION OF ITEM	QTY	UOM	RATE (Rs.) (Excl. GST)	AMOUNT (Rs.) (Excl. GST)
1	PARTITIONS				
	Frame Work: Providing and fixing in position Full Height partition in framework of 600 X 600 mm grid (horizontally and vertically) comprising of 50mm X 50mm heavy duty GI Box Sections (1.6 mm) with 8 mm thick ply on both sides finished with 1 mm thick laminate as mentioned below.				
	Note: a) In case of false ceiling, the vertical GI members to be fixed to RCC ceiling but the area of partition payable will be below the false ceiling only. b) Measurement of height shall be taken from finished floor only, in case of varying heights on either side of partition, average height shall be considered. c) Openings/ door/ glass shall not be measured for payment and shall to measured and paid under seprate relevant item.				
	Laminate: 1.0 mm thick matt laminate (shade and design as per Bank's Scheme) pasted over MDF with approved adhesive. Laminates shall be combination of 2 or more colour as per bank's guideline to be approved from the bank prior to application. Partition shall have 100mm high skirting from the finished floor in Bank's approved colour and a 100mm high top band from the soffit/ceiling/visible top of the partition in Bank's colour scheme. Remaining Area to be covered with laminate				
	The necessary openings and provisions in the frame work for Electrical Conduits, modular electrical boxes, AC Grills & pipes, AC Ducts / louvers, doors / glazing etc. should be provided as per site requirements while keeping the structural integrity and strength of the framing intact. The GI frame members shall be fixed rigidly to the floor, columns, RCC Ceiling and beams. Note: In case of false ceiling, the vertical GI members of the frame should be fixed / screwed / grouted rigidly on the Roof / RCC ceiling but the area of partition payable will be measured from the finished floor up till the false ceiling only. In case of varying heights on either side of partition, average height shall be considered.				
1a	Manager Cabin Partition (Partly Glazed - Full Ht.)	150.00	Sq. Ft.		



Proving and fixing both side laminated partly glazed partition using framing, MDF and laminate as per details mentioned in Sr. No.1. The partition shall be solid till 3'-6" height and glazed with 6mm thick clear float glass in size 3'-6" (H) & 4'-0" (W) or of appropriate size as per site requirements. All sides of the glazing must be provided with teakwood beading on both faces and finished with 2 coats of melamine polish. Solid partition to be provided over the fixed glazing till soffit of false ceiling / roof / RCC Ceiling. All exposed edges shall be fixed with lipping of appropriate thickness enough to cover the entire exposed edges and frame opening for fixed glazing / doors chowkhat / windows (75mmx75mm thick sections or as per site) with 2 coats of melamine polish. The rate quoted must be inclusive of the 32-35mm thick door (Size - 7'-0" X 3'-0") made with commercial plywood / board of approved make with 1.0 mm thick matt finish laminate pasted over plywood along with skirting and top band on both sides of the door as per bank's colour scheme along with making 8-10mm glass opening of size 18"(W) X 48"(H) positioned at the horizontal centre & 5'-0" height for visibility with proper teakwood framing and polishing. The exposed edges of the door must be finished with teakwood lipping with 2 coats of melamine polish. Item shall also include supply and installation of frosting film of aproved make with approved artwork. Film shall be of approved make, self-adhesive with bubblefree installation to be done on clean glass. The rate quoted must also include installing / affixing all necessary fittings like 4 Nos. SS Butt Hinges (100mmx5.5mm size), screws, Hydraulic Door Closer, Mortise Lock Assembly, SS Handles on both sides & Brass Door Stopper etc as per approved makes.

1b Cash Cabin Partition (Height 7'-6")

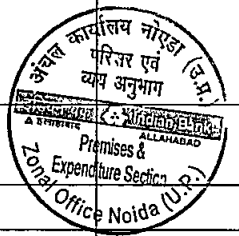
70.00

**Sq.
Ft.**

Proving and fixing both side laminated Solid partition for cash cabin using framing, MDF and laminate as per details mentioned in Sl. No.1. The partition shall be solid till 4'-0" height and thereafter an opening of 2'-6" Height & 2'-6" width (or of appropriate size as per site requirement) for Aluminium Decorative Grill (12mm thick having hexagonal openings) which shall be provided with double sided 2 coat melamine polished teakwood beading. Rest of the height shall be solid partition till the height of 7'-6" from the finished floor. All exposed edges of MDF shall be fixed with teakwood lipping of appropriate thickness (75mmx75mm thick sections or as per site) enough to cover the entire exposed edges and frame opening for aluminium grill / doors chowkhat / windows etc.) with 2 coat melamine polish.



	The rate quoted must be inclusive of the 32-35mm thick door (Size - 7'-0"x3'-0") made with commercial plywood / board of approved make with 1.0 mm thick matt finish laminate pasted over plywood along with skirting and top band on both sides of the door as per bank's colour scheme along with making 6mm thk glass opening of size 18"(W) X 48"(H) positioned at the horizontal centre & 5'-0" height for visibility with proper teakwood framing and polishing. The exposed edges of the door must be finished with teakwood lipping with 2 coats of melamine polish. Item shall also include supply and installation of frosting film of aproved make with approved artwork. Film shall be self-adhesive with bubblefree installation to be done on clean glass.				
	A 2" deep slip tray made of 11mm/12mm MDF covered with 1.0 mm thick laminate with edges finished with teakwood beading and 2 coats of melamine polish to be affixed at a height of 4'0" from the finished floor on the side partition adjacent to the passing Officer's counter at an appropriate slot to ensure convenient usage by both staff members. The slip tray must be 6" wide 10" long and must be positioned such that it must be emanating 4" on either side of the partition. The front edges of the partitions i.e., the edges visible to the customers, shall be finished with 1.0mm thick laminate of Bank's approved colour . The rate quoted must also include installing / affixing all necessary fittings like 4 Nos. SS Butt Hinges (100mmx5.5mm size), screws, Hydraulic Door Closer, Night latch, SS Handles on both sides & Brass Door Stopper etc as per approved makes.				
1c	Low Height Partition (Height 4'-0") - Between working Counters, cubicles & support for Flap door)	102.00	Sq. Ft.		
	Proving and fixing both side laminated solid partition using framing, MDF and laminate as per details mentioned in Sl. No.1. The partition shall be solid till 3'-0" then glazing with 8-10mm thick clear float glass of 1'-0" Height & supported on 4" wide solid partition pillars on both sides of the glass.The exposed edges of the glass shall be bevelled, grinded and machine finished to render smooth edges. The glass in the partitions shall be fixed with beading / moulding on both sides. All exposed edges of partition shall be fixed with teakwood lipping of appropriate thickness (75mmx75mm thick sections or as per site) enough to cover the entire exposed edges and frame opening for fixed glazing / doors / windows) with 2 coat melamine polish. Item shall also include supply and installation of frosting film of aproved make with approved artwork. Film shall be self-adhesive with bubblefree installation to be done on clean glass.				
	The length of the partitions between the counters shall be 3'0"				
1d	Solid Partition (Full Ht) Both Side Laminated	100.00	Sq.		

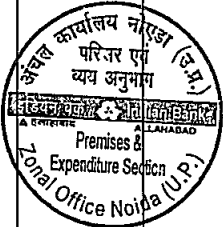


			Ft.		
	Solid partition including Strong Room partition up to 7'6" height:- Providing and fixing both side laminated solid partition using framing, MDF and laminate as per details mentioned in Sr. No.1. All exposed edges of partition shall be fixed with teakwood lipping of appropriate thickness enough to cover the entire exposed edges and frame opening for doors chowkhat (75mmx75mm thick sections or as per site) with 2 coats of melamine polish. The rate quoted must be inclusive of the 32-35mm thick door (Size - 7'-0"x3'-0") made with approved plywood / board of approved make with 1.0 mm thick matte finish laminate pasted over plywood along with skirting and top band on both sides of the door as per bank's colour scheme. The rate quoted must also include installing / affixing all necessary fittings like 4 Nos. SS Butt Hinges (100mmx5.5mm size), screws, Hydraulic Door Closer, Mortise Lock Assembly, SS Handles on both sides & Brass Door Stopper etc as per approved makes. The exposed edges of the door must be finished with teakwood lipping with 2 coats of melamine polish.				
1e	Solid Partition (Full Ht.) - Cement Fiber Board for UPS Room and electrical panel	58.00	Sq. Ft.		
	Providing and fixing both side solid partition using framing and laminate as per details mentioned in Sl. No.1. The skin of the partition shall be made out of 10mm thick cement fiber board and finished with 1mm thick laminate of approved shade and scheme on the customer side (visible to customers) and 2 coats of ivory white enamel paint on the internal side (not visible from the customer lobby). The rate quoted must be inclusive of the providing one pane door for UPS room (Size - 7'-0" x 2'-9") & 2 panes door (Size-7'-0" x 2'-0" for electrical panel) or door sizes as per site requirements in combination of 6mm thk cement fibre board and 19mm thick approved block board pasted / screwed together to form a single entity and finished as per matching scheme. The block board shall be on the outer side and shall be pasted with 1.0 mm thick matt laminate along with matching skirting & top bands as per bank's scheme and the cement fiber side of the door shall be on the inside with 2 coats ivory white enamel paint over a coat of primer. Exposed edge of door thickness shall be finished with teakwood lipping & melamine polish.				



	Item shall include installing / affixing 12" X 6" aluminium louvers at the horizontal centre of the door panes at suitable height along with all other necessary hardwares & fittings such as 4 Nos. SS Butt Hinges (100mmx5.5mm size), screws, mortice lock / brass tower bolt, SS Handles on both sides, magnetic ball catchers etc of approved makes. Note - For the purpose of contractor's payment in case of Electrical panel cabinet, only front elevation area shall be measured. BUT the partition shall be erected till soffit of the actual ceiling along with the board concealing the entire area and not just till the false ceiling.				
1f	Single Skin Partition Bove False Ceiling	0.00	Sq. Ft.		
	As of the above but Providing and fixing single skin partition above false ceiling(where false ceiling is provided only on one side) for a height of up to 600mm or near about soffit of roof using aluminium frame as specified above along with 6mm thick Commercial ply wood lined on only one side and lining with 1mm thk laminate of approved shade and amke along with grooves.				
1f	Flap Door (4'0" High)	12.00	Sq. Ft.		
	Providing and fixing of flap door using 19mm thick block board of approved make laminated on both sides with 1mm thick laminate of approved shade as mentioned above. The exposed edges of the board shall be finished with teakwood beading of appropriate thickness (enough to cover the entire exposed edges). The rate quoted must also include a vertical brass tower bolt assembly, 2 Nos. SS Butt Hinges (100mmx5.5mm size), screws & magnetic ball catchers etc of approved makes. There shall be 100mm high skirting at the bottom of the door with 1mm lamination in Bank's approved colour & a 100mm high top band of Bank's Approved colour at the vertical top of the door so as to match the surrounding scheme.				
2	COUNTERS & TABLES				



<p>Providing & Fixing Box type Tables and counters of size mentioned below as per branch drawing and layout. The tables / counters are made out of 19mm thick approved ply / block board frame work for top, verticals, apron, sides, drawer unit with shelves, shutters, customer top, foot rest. The sides, sliding shutters, front apron of drawer unit shall be made out of 12.0mm thick approved ply while backs & bottom of drawer unit shall be made with 6mm thick approved ply. The drawer unit of 450mm width x 750mm height x 500mm depth or size approved by the bank shall be placed on a suitable side of the table / counter as per layout. The drawer unit shall consisting of 3 nos. drawers of equal height to cover the entire height of the unit & each must be 450mm deep OR of size & number as approved by the bank. Each drawer shall have SS handles with multipurpose concealed lock. The drawers shall be fixed with telescopic SS sliding channels of approved make with easy push-pull mechanism.</p>				
<p>A uniform 100mm high skirting shall be provided at the visible bottom of the side unit with 1.0mm thick laminate of Bank's approved colour . A fixed footrest made with T.W. member of size 4"X1.5" finished with french polish shall also be provided at the bottom of the inside of the tables / counters at a comfortable height. The working top of ALL counters / tables shall be provided with 10mm thick clear glass on top with edges bevelled and machine finished to render smooth edges. Grooves / openings for cable managers shall also be provisioned in the table and glass along with supply & fixing of cable manager. The shape of the top glass shall be prepared / cut in such a manner that the entire surface of the working top of the table / counters should be covered by the top glass.</p>				
<p>All the open surfaces of the tables / counters / drawer units shall be completely covered with 1mm thick laminates. The front apron and visible side apron(s) of the counters / tables shall be provided with 100mm top band of 1.0mm thk laminate of Bank's colour scheme & 100mm skirting of of 1.0mm thk laminate of Bank's approved colour . The remaning area shall be provided with 1.0mm thick laminate The counter / table top shall be provided with 1.0mm thick laminate of Bank's approved colour . The other exposed edges shall be finished with teakwood lipping & 2 coats of melamine polish. All inner surfaces shall be finished with approved 0.8 mm thick laminate of ivory / white shade of approved make.</p>				
<p>All table / counters shall be provided with sliding key board unit of size 12"x20" made of 19mm thick approved board finished with 1.0mm laminate and mounted with telescopic channels of approved make on the sides made out from 12mm thk approved board with 1.0mm thick laminate All exposed edges to be finished with teakwood beadings of appropriate size and 2 coats of melamine polish along with all other finishes / hardware / fittings etc required to complete the job.</p>				

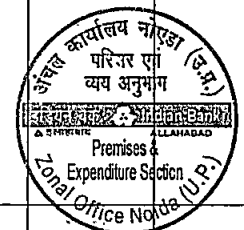
	<p>For CASH COUNTER- Same as above but the cash counter shall have two working tops viz. one working top at height of 2'-6" for staff & other, the customer top, at height of 4'-10" for customer use. The customer top shall be 450mm wide of length as mentioned below and shall be fabricated such that it is projected 150mm outwards i.e. towards the customer. The rate quoted must include full front portion and customer top of mentioned height and style made out of 19mm approved ply and 1.0mm thick laminate of design as approved by the Bank, along with 10-12mm plain float front glass which should be 3'-0" high over and above the customer top and of required length as mentioned below. A support partition shall also be provided on top of the glass till a height of 7'-6" from the finished floor. The partition over the glass shall be made out of 19mm thk approved board finished with 1.0mm thick laminate of Bank's approved colour . The front glass shall be fixed rigidly over the customer top with teakwood beadings on both sides finished with 2 coats of melamine polish. Two openings / slits shall be provided in the front glass - one opening of 300mmx150mm on the horizontal centre at the bottom of the glass and another 3" wide horizontal slit at the vertical centre of the front glass for convenient cash and voice transaction. The glass edges shall be bevelled on all exposed edges on both faces to ensure safe & smooth edges.</p>				
2a	Branch In-charge Table (Size: 6'0"x3'0"x2'6"(H))	1.00	No.		
2b	Officer Table (Size: 5'0"x2'6"x2'6"(H))	0.00	No.		
2c	Staff Counters (Width of working top: 2'6"; Height: 2'6")	25.00	R. Ft.		
2d	Cash Counters (Width of working top: 3'0" & width of customer top: 1'6"; Heights as per description above)	5.00	R. Ft.		
3	STORAGE CABINETS / CREDENZAS				
	<p>Providing & placing in position box type storage cabinets / Credenzas 18" deep & height as given below made out of 19mm approved board with 1mm laminate with shade as per bank's approved scheme. The top of the low height storages / credenzas shall be finished with 1.0mm thk Bank's approved colour. The sides, partition, top, shelves & bottom shall be made out of 19mm thk. approved board and back made out of 6mm thk. approved ply. Item shall have one 6" high drawers on top made out of 19mm thick approved ply / board complete with handles, locks etc of approved makes. The shutters made out of 19mm commercial ply wood finished with 1.0mm thk laminates of approved scheme on the outer surface shall cover the remaining space available below the drawers. All inner surface shall be finished with 0.8mm thick laminate with matching edge tapes for all exposed edges. A 100mm high top band shall be provided on top front face of the storage cabinets / credenzas finished with 1mm thk</p>				



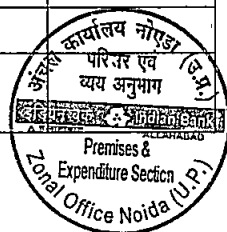
	finished with Bank's approved colour shall be provided as per approved make.				
	The drawer must be finished with 1.0mm thk laminate of shade as per Bank's scheme on outer surface and 0.8mm thick laminate on the inner surfaces. The drawers shall be supported with SS telescopic sliding channels of approved make with smooth push-pull mechanism along with SS handles and individual locks. The shutters below the drawer shall be supported with soft close clip-on SS Hinges of approved make of required number depending upon the size of the shutter. Each shutter shall be supplied with necessary accessories and hardware such as individual locks, SS handles, magnetic ball catchers, SS tower bolts, individual locks etc. of approved makes screwed and fixed rigidly. Horizontal shelves & vertical planks made out of 19mm thick commercial board shall be provided inside the shutters in such a manner to create optimum number of storage chambers each of equal storage space depending upon the size of the cabinets / credenzas. These partitions shall be finished with 1mm thick laminate on all faces and exposed side (thickness) edges of the partition members shall be finished with teakwood lipping and 2 coats of melamine polish. Note - For the purpose of contractors bill payment, only front elevation area shall be measured				
3a	Side credenza adjacent to the tables and counters (2'-6" High & 3'-0" Wide OR as mentioned in layout) Same as Sr. No.3 but with 1 no. 6" high drawers at top & shutters below drawer.	8.00	Sq. Ft.		
3b	Low Ht. Storage (2'-6" High) (FOR B.M. Cabin and select staff in branch hall only) Same as Sr. No.3 but with 1 no. 6" high drawers at top & shutters below drawer.	15.00	Sq. Ft.		
3c	Low Ht. Storage (4'-0" High) (FOR space behind staff counters in Branch Hall only) Same as Sr. No.3 but without drawers & with shutters fitted with SS butt hinges, vertical and horizontal shelves of appropriate size to utilize the entire space available as per layout for creating optimum space inside storage chambers	15.00	Sq. Ft.		



3c	Full Ht. Storage (8'-6" High) (FOR space behind staff counters in Branch Hall only) Same as Sr. No.3 but without drawers & with shutters fitted with SS butt hinges, vertical and horizontal shelves of appropriate size to utilize the entire space available as per layout for creating optimum space inside storage chambers at different heights.	445.00	Sq. Ft.		
3b	Overhead Storage (2'-6" High) (for Pantry below and above counter) Same as Sr. No.3 but with 1 no. 6" high drawers at top & shutters below drawer.	30.00	Sq. Ft.		
4	Aluminium Partitions & doors				
4a	AL. PARTITION:	0.00	SqFt		
	Providing & fixing Aluminium powder coated frame of sections 1.75" X 1.75" of 16 gauge (1.6mm) or higher thickness and 6 mm thk clear fixed glass. Item shall include all fixtures & fittings like neoprin rubber beading, springs etc complete. Item shall also include supply and installation of frosting film of aproved make with approved artwork. Film shall be of approved make, self-adhesive with bubblefree installation to be done on clean glass.				
	In case a ceiling type formation is to be prepared for enclosing the entrance vestibule of the branch / ATM from top due to avoid site nuisance of dust, pests etc where false ceiling is not carried out, the top of the partition vestibule shall be fabricated with aluminium frame as above and finished with approved make pre-laminated board panels of bank's approved shade on the visible surface. <u>Note</u> - The additional ceiling partition item (if carried out) shall be measured on plan area and shall be added to the partition item quantity.				
4b	AL. DOOR	0.00	SqFt		
	Providing and fixing of Aluminum door with powder coated Aluminum sections of size 3.25"X 1.75" for door opening size of 2 x 2'-6" x 7'-0" in double panes (Branch entrance) & 1 x 2'-9" x 6'-6" (ATM Entrance) in single pane or as per drawing. Item shall include providing & fixing in position 6mm thk clear glass on door panes with bank's logo & frosting film of aproved make with approved artwork. Film shall be of approved make, self-adhesive with bubblefree installation. Item shall also include all the required hardware & fittings of approved makes such as heavy duty floor spring, D type matt finish SS handles of size 1'-3" of both sides of the door, 3 round dead lock arrangement, tower bolts of matching colour, self-adhesive push-pull indication stickers on both sides etc complete.				
5	CUSTOMER WRITING DESK.	1.00	No.		



	Supply and fixing of free standing box type customer writing desk of required length, 42" height and 18" deep. The desk shall be made out of 19mm thick approved block / ply upto the height of 36" and glass bins above (open towards the front for keeping challans) of size 6" X 6" each made up of 10 mm thick plain glass on back & side partitions of the bins affixed firmly to the base and the writing top over the bins shall be made of 12mm thk clear glass, finished with smooth edges and sealed with silicon sealant. The bottom of the desk shall consist of 2 nos. box type cabinets of size - 12" (w) x 24" (h) x 18" (d) made out of 19mm thick approved ply with shutters with a viewing glass pane of appropriate size using 6-8mm plain glass and 20mm horizontal slit at the top of the shutter. The shutter shall be complete with all accessories like lock, SS handles, SS Hinges etc. All the exposed surfaces of the board shall be covered with 1mm thk laminate of approved shades and exposed edges to be finished with teakwood lipping and 2 coats of melamine polish.				
	The exterior visible portion of the desk shall be finished with 1.0mm thick approved laminate on visible sides as per bank's colour scheme with matching top band skirting . All inner surfaces shall be finished with approved 0.8mm thk laminate in white shade. Item shall include all required hardware & accessories such as SS clamps, screws, slits etc to ensure that the rigid fixing of the desk members / parts and complete the item upto the satisfaction of the bank / Architect.				
6	SOLID DOORS-IN LAMINATE FINISH (with hardware fittings MAKE EVERITE/GOLDEN /HARDWIN/EVEREST) (WITH OR WITH OUT VISION PANEL AS PER DIRECTION OF BANK / ARCHITECT	0.00	Sq.Ft.		
	3-0" x 7'-0" - IN LAMINATE FINISH - (WITH 2" x 3.5" finished size WOODEN FRAME)				
	Providing and fixing solid doors of sizes as shown in the drawing. The door shutter shall of 35 mm thick flush shutter of approved make and finished with 1mm thick approved laminate on both sides. The edges finished with steam beach lipping. A door frame of 3.5" x 2" steam beach section shall be provided finished in mellamine. Rate shall include Dead lock (Godrej Make), floor springs / door closure (as the case may be), door stopper, a pair of handles 12" SS Brushed finished, 5" hinges 4 Nos., buffers, tower bolts, etc with necessary hardware items and with or with out door frames as mentioned above				
7	ENTRANCE DOOR - IN TOUGHENED GLASS	70.00	Sq.Ft.		
	DOORS - WITH OZONE / HAFFLE / YALE / GODREJ MAKE FITTINGS				



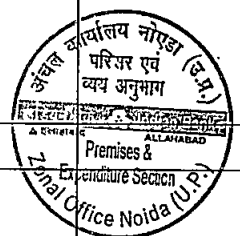
	Providing and fixing frameless fully glazed 12mm thk toughened glass door fixed with necessary patch fittings(Dorma/Ozone/Haffle/Yale/Godrej make) including cutting, making holes, cutouts in the glass of required shape and size to accommodate fittings and fixing the fittings in floors, soffits, jams including necessary fixtures, screws, sealant wherever required and SS cover over patch fittings. Rate shall include necessary etching film / LOGO, approved patch fitting locking systems, 1 pair of 12" long S. S. (C Shape) Handles of approved make, floor springs, and any necessary hardware items.(ABOVE MENTIONED MAKES Top Pivot , Top Patch Fittings, Bottom Patch fittings , Floor Spring , Corner lock with strike plate and Euro Profile Cilinder, C Shape Handle 25mm dia X 300mm length)				
8	FULLY GLAZED PARTITION - WITH TOUGHENED GLASS	85.00	Sq.Ft.		
	USING OZONE / HAFFLE / YALE / GODREJ MAKE FITTINGS				
	Providing and fixing of Fixed Glass partition with 10mm thick toughened glass using Standard fittings of above - mentioned makes at the top and grouting at the bottom with U - Shaped Aluminium rails and EPDM gaskets including cutting, making holes in glass and fixing the fittings in floors, false ceiling etc. and making the same good with necessary screw, sealant wherever required. The top fittings to be fitted to the Wooden section fixed above the Gypsum board in the level of GI channels of False ceiling.				
9	LOGO BOARDS FOR COUNTER FRONT ELEVATION	0.00	Nos.		
	Supplying and fixing logo boards on the front elevation laminated surface of counters with 5mm thick acrylic sheet of size 18" x 18", attached with SS glass studs (1" or more). Stickers with bank logo (colour and shape as per Bank scheme) in the center to be pasted on the back side of the acrylic sheet neatly without any bubbles. The logo board must be placed on the centre of the front elevation of the counters visible to the customers EXCEPT on the Branch Manager's Table.				
10	GLASS BARRIER	70.00	Sq. Ft.		



	<p>Providing and fixing glass barrier in the front of clerical / working counters made out of 10mm thick clear float glass with chamfered and polished edges. The glass must be supported at each end of the individual counters either with low ht. partitions or 3"x3" square towers of required height made with 19mm thick approved ply finished with 1mm thick laminate of approved shade on all faces as per the design approved by bank. In case of square towers, the top of the towers should be finished with 1mm thk approved laminate. The glass should be clamped rigidly to the low ht. partition / towers with teakwood beading finished with melamine polish along with necessary hardware / accessories as required. The height of the glass barrier shall be 450 mm (or as directed by the bank). The length of the glass barrier in single piece must be equal to the length of the individual counter. Item shall also include frosting film of aproved make with approved artwork. Film shall be of approved make, self-adhesive with bubblefree installation.</p>				
	<p>There shall be 2 uniform slits, each 75mm high; one at the bottom of the glass barrier just above the counter / Table top & one at the vertical centre of the glass barrier.</p>				
11	PANELING				
11a	<p>WALL / COLUMN PANELING (Full Ht. - till soffit of false ceiling) (IN ATM Room / Walls in Manager Cabin / Walls in Cash cabin / Independent pillars in branch hall / Side wall adjacent to Officer Table ONLY)</p>	555.00	Sq. Ft.		
	<p>Providing and fixing in position wall panelling in 600 X 600 mm grid (horizontally and vertically) comprising of 25 mm X 50 mm heavy duty GI Box Sections (1.6 mm) with 8 mm thick ply finished with 1 mm thick laminate finish of approved shade and make. The soffits of the doors / windows shall also be covered with paneling as well. Item shall include 100mm high skirting on bottom of the finished floor in Bank's approved colour and a top band of 100mm high from the soffit/ceiling/visible top height of the paneling in Bank's colour scheme. Remaining area shall be finished with 1.0mm thk laminate of approved make.</p> <p>Note - No paneling shall be provided behind the storage / cabinets / tables sides or any other surface which is not visible (no payment for same shall be entertained by the bank). Entire paneling shall be provided only on visible surfaces as per approved layout or as directed by the Bank. Also, no paneling shall be provided on the columns embedded in walls. The paneling should be provided on independent pillars in the branch hall only that too till soffit of false ceiling.</p>				
	<p>Note:- Incase of wall not being true to plumb extra shims of aluminium section shall be provided. Nothing extra shall be payable in this regard.</p>				



	Note: a) In case of false ceiling, area of panelling payable will be below the false ceiling only. b) Measurement of height shall be taken from finished floor only, in case of varying heights on either side of panelling, average height shall be considered. c) Openings/ door/ glass shall not be measured for payment.				
12	FALSE CEILING (Branch & ATM)	800.00	Sq. Ft.		
	Providing and fixing ½" thk. Gypsum India board false ceiling at levels as shown in the drg. From FFL. Rate shall be inclusive of all Gypsum India components contained G.I. perimeter channels of size 0.55 thick having one flange of 20mm and another flange of 30mm and a web of 27mm alongwith perimeter of ceiling, screw fixed to brickwall/partition with the help of nylon sleeves and screws, at 610mm centres. The suspending G.I.intermediate channels of size 45mm, 0.9mm thick with two flanges of 15mm each from the soffit at 1220mm centres with ceiling angle of width 25mm x 10mm x 0.55 thick fixed to soffit with G.I. cleat and steel expansion fastners at every 610mm c/c. Ceiling sections of 0.55mm thickness having knurled web of 51.5mm and two flanges of 26mm each with lips of 10.5mm are then fixed to intermediate channel with the help of connecting clip and in direction perpendicular to the intermediate channel at 457mm centres. 12.5mm tapered edge Gypboard is then screw fixed to ceiling section with 25mm drywall screws driver or drilling machine with suitable attachment. The boards are to be jointed and finished so as to have a flush look which includes filling and finishing the tapered and square edge of the boards with jointing compound & joint paper tape. Rate shall be inclusive of Cut outs for A/c machiness, spot lights, light fixtures, A/C. Grills, fire and security systems cut outs, All Sections should adhere to the manufacturers guidelines. Vertical sides visible will be measured.				
13	MODULAR FALSE CEILING - ARMSTRONG / equivalent make	390.00	Sq. Ft.		
	Providing and fixing Armstrong (Fine Fissured Micro Look with Tagular Edge using 15mm Grid sections) false ceiling of size 24"x24" at levels as shown in the drwng. from FFL. Rate shall be inclusive of providing the total system with installation etc.. The contractor has to maintain all tiles in good order and replace the defected tiles (at his own cost) before handing over the site for Branch Operations (till Inauguration).				
13	GLASS SHELVES	40.00	Sq. Ft.		



	<p>Providing and fixing glass panes / shelves of required sizes with all edges neatly grinded, polished and fixed to the wall surfaces using SS D-brackets. The glass shall be 10mm thk plain glass of approved make. Item shall include all required arrangement / hardwares/ accessories to complete the job upto the satisfaction of bank / Architect.</p> <p><u>Note</u> - For the purpose of contractor's payment, front elevation area shall be measured.</p>				
14	CHEQUE DROP / SUGGESTION BOX (with glass front)	2.00	Nos.		
	<p>Supplying and fixing wall mounted Cheque Drop Box of outer size 10" (D) X 12" (W) X 20" (H) with front openable partly glazed shutter, lock, slot for dropping cheques from top along with all required hardwares & accessories like SS handle, SS butt hinges etc to complete the job upto the satisfaction of the bank / Architect. The box shall be made out of 12mm thk approved plywood finished with 1mm thk approved laminate on outer faces & 0.8mm thk laminate on all inner faces. The front door shall have 6mm thk glass of size 6"x12" fixed with beach wood beeding. All exposed edges of Plywood shall be fixed with teakwood lipping of appropriate thickness enough to cover the entire exposed edges with 2 coats melamine polish. The box shall be complete with all accessories like SS hinges, SS Handles, Locks etc of approved makes.</p>				
15	NOTICE / PIN-UP BOARD	1.00	Nos.		
	<p>Providing & fixing Notice Board made of tag board of approved make & design of size 4'-0" X 3'-0" with powder coated aluminum border / frame. The board should be 3/4" thk straw board with velvet type fabric covering of Bank's approved colour .</p>				
16	ACP WALL PANELLING (For outside front walls and ATM only)	210.00	Sq. Ft.		
	<p>Providing & fixing in position ACP (Aluminium Composite Panel) wall panelling having minimum ACP thickness of 3mm and minimum foil thickness of 0.25 mm on both sides with Aluminium framing tube sections of min 1.5" X 1" (20 gauge or down) @ 2'-0" C/C both ways. Panels shall be neatly fixed to the frame with 3M or equivalent adhesive and joints shall be finished with silicon based sealant. ACP shall be of approved make and in Ivory & Bank's approved colour as per bank's approval. Item shall include proving & fixing additional sections as required for fixing Indoor AC units, proper access panel for ATM power point, proper locking arrangement for plug point by providing additional framing etc complete.</p> <p><u>Note</u> - For the purpose of payment, the measurements shall be taken up to the visible height / false ceiling level only.</p>				



17	BOXING FOR ROLLING SHUTTER	150.00	Sq. Ft.		
	Providing and fixing rolling shutter panelling / enclosure of required size as per description at Sr. No.9. The rate shall inclusive of necessary hardware fittings like hinges, screws, tower bolts sealant, trap door, locking arrangement etc complete.				
18	ALUMINIUM GRILL FOR BULK CASH COUNTER TOP	42.00	Sq. Ft.		
	Providing & fixing 7.5mm thick 48mm X 48mm opening size, white colour powder coated aluminium grill at the top of the cash cabin fixed with 8mm thick teakwood beadings of necessary width. All the exposed wood / beadings shall be neatly finished with 2 coats of melamine polish. All the accessories used shall be concealed type.				
21	PAINTING PLASTIC PAINT				
	Applying 2 Coat putty with primer and Providing and applying Plastic emulsion paint (asian) of approved make and shade on walls including scrapping off, preparing the base & applying 3 or more coats of approved make, color and shade to give an even and smooth surface on new work including necessary scaffolding, coat of cement primer etc. all complete as per direction of Bank. (only banking hall.)	0.00	Sq.Ft.		
22	EMULSION PAINT				
	Applying 2 coat of Plastic emulsion paint (asian) of approved make and shade on walls including scrapping off, preparing the base ect color and shade to give an even and smooth surface on new work including necessary scaffolding, coat of cement primer etc. all complete as per direction of Bank. (Other than banking hall.)	0.00	Sq.Ft.		
GRAND TOTAL (Excl. GST) (Rs.)					

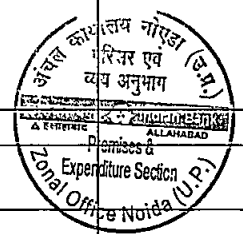


BOQ INTERIOR WORKS FOR INDIAN BANK AT LONI, GHAZIABAD

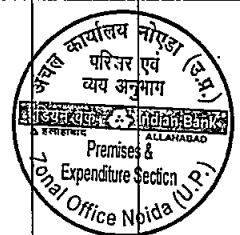
SL No	PARTICULARS	UNIT	QTY	RATE	AMOUNT
1	DISMENTALING OF EXISTING ELECTRICAL WORK AND DISPOSAL OF MALBA TO NEAREST MUNICIPAL GROUND INCLUDING TRANSPORTATION & PROVIDING TEMPORARY SETUP FOR THE FUNCTIONING OF THE BRANCH DURING RENOVATION. KINDLY NOTE, NONE OF THE EXISTING / OLD ITEMS ARE TO BE USED FOR PROVIDING THE TEMPORARY SETUP FOR THE BRANCH.	Nos.	0		
2	ELECTRICAL WIRING & EARTHING				
2.1	Supply, laying, connection & testing of light, fan point, wiring by 2x1.5mmsq(2x3/.029) +1x1mmsq PVC insulated, multistrand single core copper conductor FRLS wire maintaining the colour code as per direction in PVC conduite of 20mm with ISI mark 1.5mm thickness to conceal in wall partition mending good the damage, complete with PVC circular box, bend to be done as per drawaing including 3 point ceiling rows wherever required GI saddle to be used for fixing, metal flexiable/PVC flexiable pipe may use if requied in partition wall. All PVC pipes should be with ISI mark. No joints will be allowed inside pipe, light, fan & plug point complete with modular type switch plate & MS box . rate Including the main circuite line 2x2.5mmsq+1x1.5mmsq earth PVC insulated Cu. Wire from DB to switch board ,maintaining the colour code. Circuite line for lighting switch board & 6Amps plug board are to be drawn from lighting DB to Lighting board & plug point board (independent), 6/16 Amps plug point line are to be draw from power DB.as per DBschedule /SLD				
a)	1 light by 1 switch (ATM 1 No)	Nos.	36		
b)	2 light by 1 switch (for Branch 12 & ATM 2)	Nos.	15		
c)	Ceiling fan point with step type electronic regulator	No	1.00		
d)	Same as above, but for exhaust fan excluding regulator.	No	3.00		
e)	Same as above 5A Point in the switchboard itself. (for branch 7 No & ATM 1 No)	No	8.00		
f)	same as above Wiring for call-bell point including buzzer	No	1.00		
g)	Wiring (2x2.5mmsq+1x1.5mmsq from power DBs) for independant 6A multi pin socket along with 6A modular type switches housed in painted MS box (upto 3 independent plug points can be taken in one circuit). For Fan	No	8.00		
2.2	Supply and installation of modular type 2 nos 6A & multi pin sockets with 2 nos 6 Amp one way switch housed in MS box to be fixed in partitions or concealed in wall. The box shall be painted with 2 coats of enamel paint over a coat of red oxide primer including wiring for Raw power socket outlet using 2 R runs of 2.50 Sqmm and single run of 1.5 sqmm PVC insulated multi stranded single core copper conductor FRLS wire in 20mm PVC conduit to be laid in floor, partitions, etc. complete with all accessories (looping 2 sets of 2x6A socket outlet in one circuit- from DB) (Raw power). for counter	No	7.00		



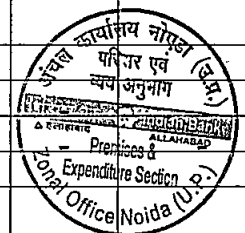
2.3	Supply and installation modular type 16A, 5-pin socket with 16A one way switch housed in MS box to be fixed in partitions or concealed in wall. The box shall be painted with 2 coats of enamel paint over a coat of red oxide primer , the rate shall include wiring fusing 2R 4.0 sqmm & single run of 2.5 sqmm PVC insulated multi stranded single core copper conductor FRLS wire in 25mm PVC conduit to be laid in floor, partitions, etc complete with all accessories (for line printer ; or optional).(upto 2 independent plug points can be taken in one circuit)	Nos.	7.00		
2.4	Supply and installation of power supply disconnection arrangement for strong room consisting of 1 no 10A DP MCB housed in manufacturer's powder coated MS box to be fixed inside the strong room and connected with 1 no 3-pin metal clad plug with 2 metre long 3 core 2.5 sqmm PVC insulated flexible copper conductor cable.	Set	1.00		
2.5	Acs electrification :-				
(a)	Supply and fixing 25 Amps 3-pin modular socket with 25 Amp one way switch with indicator (near AC indoor unit) housed in manufacturers MS powder coated box to be concealed in wall including Wiring using 2R 6.0 sqmm & single run of 2.5 sqmm PVC insulated multi stranded single core copper conductor FRLS wire in 25mm PVC conduit to be laid in floor, partitions, etc complete with all accessories. (for cassette unit AC units) -(from Stabilzer to IDU)Supply.	Nos	0.00		
(b)	Supply and fixing 25 Amp - 3 pin metal clad socket with plug controlled by a 25 Amp SP MCB (for Ac wall mounted stabilizers) housed in manufacturers MS powder coated box to be concealed in wall including Wiring using 2R 6.0 sqmm & single run of 2.5 sqmm PVC insulated multi stranded single core copper conductor FRLS wire in 25mm PVC conduit to be laid in floor, partitions, etc complete with all accessories. (for cassette AC units) from AC DB to Stabilzer	Nos	0.00		
(c)	Supply and fixing 20A 3-pin modular socket with 20A one way switch with indicator (near AC indoor unit) housed in manufacturers MS powder coated box to be concealed in wall including Wiring using 2R 4.0 sqmm & single run of 2.5 sqmm PVC insulated multi stranded single core copper conductor FRLS wire in 25mm PVC conduit to be laid in floor, partitions, etc complete with all accessories. (for split AC units) -(from Stabilzer to IDU)Supply (2 Nos for ATM).	Nos	4.00		
(d)	Supply and fixing 20A - 3 pin metal clad socket with plug controlled by a 20A SP MCB (for Ac wall mounted stabilizers) housed in manufacturers MS powder coated box to be concealed in wall including Wiring using 2R 4.0 sqmm & single run of 2.5 sqmm PVC insulated multi stranded single core copper conductor FRLS wire in 25mm PVC conduit to be laid in floor, partitions, etc complete with all accessories. (for split AC units) from AC DB to Stabilzer (2 Nos for ATM)	Nos	3.00		
3	LAYING OF CABLE :				
3.1	Supply laying fixing main power with 50mm sq 3.5 core PVC insulated,PVC sheated Alu.Conductor, 1100 v. grade armoured cable complete with 02 nos 8 SWG bear GI.wire as running earth .(Meter panel to Main Panel & Dgset to Main Panel)	Mts.	25		
3.2	End termination of 50mmsq 3.5 Core armoured cable,complete with brass cable gland , Alu. Lug, PVC tape.	Nos	4		
3.3	- Do - 3.5 x 16 sqmm with 02 nos 8 SWG bear GI.wire	Mts	20		



3.4	- Do - 3.5 x 25 sqmmth with 02 nos 8 SWG bear GI.wire as running earth. for POWER & A.C D.B , UPS & ATM	Mts	30		
3.5	- Do - termination of 25 & 16 Sqmm 3.5 Core	Nos	6		
4	Out door type glow sign board wiring :-				
4.1	Supply laying of main line with 2x2.5 +1x1.5 mmsq through MS conduite from main panal to glow sign board.	Mts	30		
4.2	Supply installation of 16 amps DP MCB at main entrance Glow sign board & With Electronic timer as required.	Set	1		
5	EARTHING STATION :				
(i)	Earthing installation as per I.E. rule conforming to IS 3043-1987 or its latest amendent by making earth station with 600x600x3mm (mini-mun) thick copper plate electrode to be installed such that is top edge shall be at a minimum depth of 3.3mts below ground level after preparation of ground with charcoal, sand ,& salt, connecting the 25x3mm thick copper lead in strip (upto 10 mts length) by bolting and brazing to the copper plate complete with Brass bolt of suitable length double nuts & washer including supply & fixing of 50mm dia 2.3Mts long partly perforated G.I. Pipe with funnel for watering arragment.				
	N.B :- The Copper plate to be buried under 3.3Mts depth from ground level, including C.I. Pit 300x300mm with necessary brick wall (For UPS earthing).	Set	2		
(ii)	Supply laying 2x8SWG copper bear wire from earth spike to main panal.(Electrolite wire)	Mts	50		
6	MAIN ELECTRICAL DISTRIBUTION				
	Main Panel (wall Mounted Type)				
6.1	Supply, fabricating,assembling,internal-connection, testing & conncting with incomming, out going power cables & lines as required to complete the job of cubical type electrical panal made from 14SWG CRC. M.S. sheet with proper earthing terminal(Nut- bolt &washer) 02 No.outside of panal, same nut- bolt to tighten with internal earth busbar of panal situated inside loose wire box(on top portion of panel) On top side of panel cable entry arragment to be done for incomming & out going of lines. Painting powder coating electrical grey/ seimensgrey to be done.one 6"x4" enamel type 440Volt Danger board to fix up on main panal bus-bar cover, components are as follows :-All switches are front handle operated & all MCB knob should be visual, all component to provide in separate compartment only DBs in one compartment.				
	Incomer - 100A 4P MCCB 25Ka with adjustable thermal & Magnetic trip unit -1 Nos				
	OUTGOINGS -				
	63 Amps 4 pole MCB. = 04 Nos.(AC & Power DB,ATM ,UPS,spare) 40 Amp 4 Pole MCB :2 nos (Lighting DB,Spare) 25 Amps DP MCB = 02 Nos.(sign board , Fire Alarm) Amps Meter 0-100 Amps with 3 Nos. CT & selector switch 96x96mm 01 Set (Changeover should be ON-LOAD type.)				



	100Amps 4pole Cu. Bus Bar. 01 Set. 100Amps 4 pole Change over switch. 01 No. 100 Amps FP MCCB 25KA as Gen - Set main incoming 01 NO.				
	Volt meter 0-500volt A.C. 50 Hz.96x96mm with selector switch. AE make.n 01 Set				
	20mmdia LED indicator lamp 06 Nos.				
	02 Amps Sliding Fuse. 06 Set.				
	150x100mm enamel Danger board 440 volt. (to set on bus bar cover). 01 No.				
	Cable entry from top & bottom - removable gland plates (bottom at 2 points) c/w powder coated Grey paint (two coats) with name labels for all incoming & outgoing feeders. The panel shall be complete in all respects including all accessories such as earthing bus, Air ventilators, lifting hooks etc.	Set	1		
	POWER DB & AC DB. Make standard/Legrand/ABB				
6.2	6 way TPN MCB DB with 63 TP&N MCB as main 16Amps SP MCB - 9 Nos+32AMPS SP X9 NOS. including Neutral Bar. 01 Set	Set	2		
	LIGHTING DB Make standard/Legrand/ABB				
6.3	6 way TPN MCB DB with 63A TP&N MCB as main 16 Amps SP MCB - 03 Nos.+ 10 Amps SP MCB - 09 Nos. Including Neutral Bar. 01 Set	Set	1		
7	UPS SYSTEM (Branch)				
7.1	UPS Main DB Supply, erection, testing and commissioning of three phase 4 WAY, TPN MCB DB double door type with "C" Curve MCBs, IP 42.powder coated for UPS with 63A 4P MCBs - 1No as INCOMER 32A TP MCBs - 4 Nos. as OUTGOING Including all interconnections & accessories etc MAKE standard/Legrand/ABB	Nos	1		
7.2	UPS DB-1 & 2 12 Way SPN MCB DB with 'C' curve MCBs. Incoming : 2 No. 40A DP MCB Outgoing : 4 Nos 6/10A SPO MCBs Make standard/Legrand/ABB	Nos	2		
7.3	Supply and installation of modular type 3 nos 6A multi pin sockets with 2 nos 6A one way switch with indicator housed in MS box to be fixed in partitions or concealed in wall. The box shall be painted with 2 coats of enamel paint over a coat of red oxide primer including making connections complete the rate inclusive of Supplying and running of 3 runs of 2.5 sq.mm UPS DB's to individual powerstation through .(looping 2 sets of 3X6 A socket outlet in one circuit / or as per SLD the following size of 660 volts grade, Finolex brand PVC insulated wire (For UPS point only).(For B.M. , Server & C.C.) & ATM 1 No. from separate ATM UPS.	Nos	14.00		
	TOTAL FOR ELECTRICAL DBs, WIRING, Etc				
8	ELECTRICAL FITTINGS (S/I/T/C				
8.1	2' X2' PLUTO NEO PANEL 4000K, CAT NO. LHEWEJP6PL 1W034, PHILIPS/WIPRO MAKE (ATM 2 No)	Nos.	13		



8.2	DOWNLIGHTER - INTEGRA 15W, 3000K, LHEBGTP5Z1W015, PHILIPS/WIPRO MAKE (ATM 2NOS)	Nos.	30		
8.3	TUBELIGHT - TITANIA SLEEK NEW T5 LED TUBELIGHT 18W, LHLDCNVENL8Z018, PHILIPS/WIPRO MAKE. ATM 1 No	Nos	8		
8.4	HANGING LIGHT - LHECDOL5PW1W040 (40WATTS), PHILIPS/WIPRO MAKE	NOS.	0		
8.5	225 mm dia Heavy Duty Exhaust fan 230 volt A.C. (Havells / Crompton make). (UPS & Toilet)	Nos	3		
8.6	Wall mounting fan FULL MS BODY 400 mm dia 230 volt A.C. PHILIPS/WIPRO MAKE	Nos.	8		
8.7	36" CEILING FAN WHITE COLOUR (ORIENT/KHAITAN). (UPS, Strong room & Store room)	Nos.	1		
8.8	Supply and fixing of LED strip light down lights in false ceiling. WIPRO GARNET D45027 (2700K) WW/with adopter	mtr.	0		
8.9	Supplying and fixing of High intensity and decorative type profile LED light complete with aluminium profile with cover, LED strip with driver etc and fixing the same with suitable adhesive, nails, making connections testing etc complete as reqd	RMT	0		
8.10	Supplying and fixing of inbuilt rope / Profile LED light complete with connectors at desired locations etc complete as reqd. (M/s Havells Make)	RMT	0		
TOTAL FOR LIGHTING FIXTURES					
9	TELEPHONE SYSTEM				
9.1	Wiring for telephone points with 2 pair 4/5 pair .51mm dia ATC (annealed tinned Cu wire) with PVC insulated PVC sheathed telephone cable from tag block to the point including providing ferrules at both ends and termination at both ends including providing & fixing RJ 11 outlet, faceplate and mounting box complete of modular type 9 where 2 such points are shown, 2 such wires shall be provided) This work includes providing PVC conduits in chases from the raceway to the point. (1 each for branch manager, C.C. P. officer & Clerck).	Nos.	4		
9.2	Supplying, laying effecting terminations, testing and commissioning of 0.51mm dia Cu. Conductor, twisted, colour coded with polythene capor barrier, telephone cables in the existing tray or in conduit including providing & fixing conduit pipe or cable tray as required from building tag block to the floor as required.				
9.3	1 X 10 pair armoured cable from telephone connection in the premises to the crone box.	rmt	70		
9.4	Supplying & fixing 20 pair krone tag block with enclosure.	Nos.	1		
10.0	DATA SYSTEM - CONDUITING & CABLING				



10.1	providing and laying UTP Cat 6 data cable for nodes through 25mm dia PVC conduit through floor, wall and partitions etc including all necessary materials from main Hub to building tag block(BSNL) & Branch to ATM	rmt	200		
10.2	Wiring for computer networking from I/O hub to computer workstation with UTP Cat-6 computer cable including providing ferrules at both ends and termination at both ends including providing & fixing frame for with shutter, RJ 45 outlet, faceplate and mounting box complete of modular type, This work includes providing PVC conduits (1/2", 3/4" size or as required) in chases from the I/O hub to the point. The cost includes testing, commissioning etc complete. Note : Do not run more than 3 wire in single pipe & should be concealed. (2Nos of ATM)	Nos.	12		
10.3	Supply of Cat - 6 D-Link patch cord 7' 0" (ATM 1No)	Nos.	12		
10.4	Supply of Cat - 6 D-Link patch cord 3' 0"(ATM 1No)	Nos.	12		
10.5	Supply & fixing 24 Port Jack Panel Make:-D-Link	Nos.	1		
10.6	19" Rack 9U with Glass Door , Locking system Make: APW	Nos.	1		
10.7	24PORT 10/100Mbps Switch	Nos.	1		
TOTAL FOR LAN AND DATA NETWORKING					
TOTAL FOR ELECTRICAL WORK (B)					
* GST EXTRA AS APPLICABLE					

BOQ FOR AIR CONDITIONING WORKS AT INDIAN BANK, LONI, GHAZIABAD					
S. No.	Description	UOM	Qty.	Rate (Rs.)	Amount (Rs.)
AIR CONDITIONERS					
1	Supplying, erection, testing and commissioning following wall mounted Split / Root mounted split/cassette units of with cordless remote complete with all necessary fittings duly insulated with 9 mm thick nitrile rubber pipe insulation with (All coils - copper only) , fan and fan motor, machine control panel improved Refrigerant Joints. Air conditioners shall be fitted with hermetically sealed type suction cooled reciprocating or discharge cooled rotary compressor or scroll compressor. Compressor unit operating on R32/ R-410. All complete as per drawing, approval and instructions of the Architect/ Employer (Rates to be inclusive of Copper refrigerant pipe with insulation and Drain pipe up to 3 Mtr length). Item to include powder coated outdoor stands as per the manufacturer specifications.				
a	2.0 TR wall mounted split unit (Minimum 5-Star rating inverter type) including all necessary fittings and mountings as specified by the manufacturer	Nos.	0:00		



b	1.5 TR wall mounted split unit (Minimum 5-Star rating inverter type) including all necessary fittings and mountings as specified by the manufacturer	Nos.	0.00		
c	1.0 TR wall mounted split unit (Minimum 5-Star rating inverter type) including all necessary fittings and mountings as specified by the manufacturer	Nos.	0.00		
2	EXTRA REFRIGERANT PIPING				
	Supplying and laying of Extra copper refrigerant piping with nitrile rubber pipe insulation, both of size as specified by the manufacturer suitable for 1.5 TR TR Split type AC and 2.0 TR TR Cassette AC (From Indoor to outdoor Units).				
a	For 1.0 TR/1.5 TR/2.0 TR Split AC as specified by the manufacturer	Mtr.	140.00		
b	For 1.5 TR / 2.0 TR Cassette AC as specified by the manufacturer	Mtr.	0.00		
3	DRAIN PIPING				
	Providing and fixing drain piping up to drain as directed by the engineer incharge with all accessories e.g. elbows, unions, sockets, reducers, reducing tees, nipples etc. Complete job including cutting chiseling in walls, floor and making good of all chases/ cuts etc. and				
	discharging the drain into a floor trap/ gully as per site conditions with insulation, both as specified by the manufacturer.				
a	25 mm dia PVC drain pipe for Split AC	Mtr.	140.00		
b	32 mm dia PVC drain pipe for Cassette AC	Mtr.	0.00		
4	Providing and fixing Stabilizer with 3 step relay and input voltage range of 170-270 V and output to be 230 V (Blue bird/ Logic state/ Inline/ V-gourd) (copper winding).				
a	4 KVA (For 1.0 TR / 1.5 TR AC)	Nos.	3.00		
b	5 KVA (For 2.0 TR AC)	Nos.	4.00		
5	Supplying and laying of Extra Electrical interconnecting control cables from indoor to outdoor of size as specified by the manufacturer suitable for 1.5/2.0/3.0 TR Cassette type AC.	Mtr.	0.00		
6	Supplying and laying of Extra Electrical interconnecting control cable from indoor to outdoor of size as specified by the manufacturer suitable for 1.0TR/1.5TR/2.0 TR Split type AC.	Mtr.	140.00		



7	Providing and fixing of lockable caging (including stand) 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. Item includes all necessary hardware, priming coat, synthetic enamel paint, hanger, clamps other accessories etc. All complete as per approval and instructions of the Architect/ employer.				
a	For 2.0 TR / 1.5 TR ceiling mounted cassette unit	Nos.	0.00		
b	For 1.0/1.5/2.0 TR Hi Wall split units	Nos.	7.00		
8	Supply, installation, testing and commissioning of Drain pumps minimum 2 litre hi flow tank with all fixing materials etc. all complete as per the directions of Architect/ Engineer-in-charge.	Nos.	0.00		
9	Providing and fixing timer switch for switching power alternatively between two A/C, timer will be analogue dial type adjustable TIMER switch which is adjustable over 24hrs. With 15 minutes intervals and is to have 1NO+1NC (20A) contact. Timer will have its own backup battery and will be enclosed in 16gauge MS Box with acrylic lid together with suitable connector block. (ABB/MDS/L&T)	Nos.	0.00		
10	Removing, Repairing & Refixing Old Split IDU & ODU & STABILIZER & MS FRAME from existing location to proposed location. It include nessesary repair & filling coolent gas as required as per direction given by Architect.	Nos.	0.00		
			GRAND TOTAL		
Note:- The rates quoted includes all discounts, other taxes , duties , loading, unloading , transportation, other expenses etc to site. only GST will be paid Extra.					

