

INDIAN OVERSEAS BANK

B.O.Q. FOR ELECTRICAL WORK FOR INDIAN OVERSEAS BANK, BARIATU BRANCH, RANCHI.

SL.NO	DESCRIPTION	Unit	Quantity	RATE	AMOUNT
	ELECTRICAL CONTROL PANEL				
1	Supplying, Testing, Commissioning and Installation of COBICAL MOUNTING type dust & vermin proof Electrical control panel made out of 16 SWG CR SHEET WITH 100 amps x 440 Volt 4 bar Ph R 1, Ph y 2, Ph B 3 and Neutral 35 mm x 6mm copper Bush Bar No 1 Load to Supply & DG and BBC No 02 for Raw Power (For Air Condition and Power circuits) including copper strip jumper of adequate size and capacity with powder coated after metal pre treatment. The control pane consist the following materials, make havells / Standard MS Enclosure				
	CABLING OF PANNEL WITH HARDWARE MATERIALS.....				
i	100A 25KA TPN MCCB Main incomming - 01.00 (Make:- L & T AND HAVELLS)				
ii	100A 4P TPN Change over switch- 01 (COPPER)				
iii	0-500 Digital Volt Meter, 0-125A Amps Meter ... 01 set (Make:- L & T AND CAPP)				
iv	Volt & Amps Selector Switch01 set (Make:- L & T AND CAPP)				
v	LED Phase Selector RYB03 (Make:- L & T)				
vi	02 Amps Sliding fuse (Make:- L & T)				
vii	0-500 Current Tranformer01 SET (Make:- L & T)				
viii	63Amps 440-220 Phase selctor For UPS power Supply01 (Make:- L & T)				
ix	63A TPN MCB-AC & PDM, LDM, UPS DB ATM MAIN -04 (Make:- L & T AND HAVELLS)				
x					
XI	32A DP MCB01 (Make:- L & T AND HAVELLS)				
XII	40A DP MCB02 (Make:- L & T AND HAVELLS)	EACH	1		
2	MAIN LINE :- Supplying laying, testing & commissioning of 440 volt aluminum armored power cable 1.1 kv gred 3.5 core 35 sq mm from JSEB supply to panel with making of proper dressing arrangement with fixing material (if required to make trench or earth cutting & filing etc) complete. (Make:- POLYCAB/HAVELLS)	R.MTR	25		
3	MCB POWER DISRIBUTION UNIT :- Supplying & fixing of following material metallic double door MCB Disribution Board having breaking capacity of minimum 10KA complate with busbar chamber with inter connection and proper termination with lugs. (Make:- L & T AND HAVELLS)				
i	AC DB & ROW POWER D.B : 4 WAY TPN double door consumer unit consisting following MCB's Incoming : 63A 10KA 220 VOLT TPN MCB01 Nos OUT GOING : 32A 10KA SP MCB06 Nos For AC Circuit 16A 10 KA SP MCB04 Nos For PP Circuit (Make:- L & T AND HAVELLS)	EACH	1		
ii	ACDB & ROW POWER D.B No 02 at 1st Floor.: 12 Way SPN Double Door Consumer Unit consisting Following MCB's INCOMING: 63A10KA TPN MCB 01 No MAIN OOT GOING: 32A 10KA SP MCB..... 04 Nos For AC Circuit 16A 10KA SP MCB 04 Nos For PP Circuit (Make:- L & T	EACH	1		
iii	LIGHT MCB D.B 12 Way SPN Consumer Unit consumer unit consisting following MCB's Incoming : 63A 10KA 220 volt DP MCB01 Nos out going : 10A 10KA SP MCB10 Nos (Make:- L & T AND HAVELLS)	EACH	1		



iv	LIGHT MCB D.B: at 1st floor 08 Way SPN Consumer Unit consisting Following MCB's INCOMING: 63A10KA 220Volt DP MCB01 No OOT GOING: 10A 10KA SP MCB..... 06 Nos (Make:- L & T AND HAVELLS)	EACH	1		
v	COMPUTER UPS POWER MCB D.B :- 12 Way SPN Consumer Unit consisting following MCB's INCOMING : 63A 10KA 220Volt SP MCB01 Nos OUT GOING : 10A 10KA SP MCB10 Nos (Make:- L & T AND HAVELLS)	EACH	1		
vi	COMPUTER UPS POWER MCB D.B: 06 Way SPN Consumer Unit consisting Following MCB's INCOMING: 63A10KA 220Volt DP MCB01 No OOT GOING: 10A 10KA SP MCB..... 04 Nos (Make:- L & T AND HAVELLS)	EACH	1		
4	SUB MAIN WIRING: wiring of SUB MAIN LINE with following size 1100 volt grade multistrand copper conductor wire (IS694) in PVC conduit with necessary internal commissioning & termination with copper lugs as required.				
i	AC DB Gr. & 1st Floor & ATM POWER SUB MAIN : 04X10 + 1X4 sq mm from panel to MAIN D.P (Make:- FRIS- POLYCAB, HAVELLS)	R.Mtr	30		
ii	UPS DB & LIGHT DB SUB MAIN : 02X06 + 1X2.50 sq mm from panel to D.B. (Make:- FRIS- POLYCAB, HAVELLS)	R.Mtr	60		
iii	LIGHT Circuit (Gr. To 1st Floor) : 2x2.50 + 1x1.50 sqmm LDB to Switch board (Make:- FRIS- POLYCAB, HAVELLS)	R.Mtr	170		
iv	UPS POWER Circuit : 2x2.50 + 1.50 sqmm for computers from UPS D.B to different PC (Make:- FRIS- POLYCAB, HAVELLS)	R.Mtr	150		
v	RAW POWER Circuit : 2x2.50 + 1x1.50 sqmm for computers (Make:- FRIS- POLYCAB, HAVELLS)	R.Mtr	80		
vi	AC LINE : 2X4 + 1X2.5.50 sq mm ABCD to AC starter unit (Make:- FRIS- POLYCAB, HAVELLS)	R.Mtr	80		
vii	AIR CONDITION STARTER UNIT: Povinding & fixing Moduler Type Air condition unit consisting 20A switch socket with top including internal connection complete . (Make:- ANCHOR ROMA)	EACH	9		
5	LIGHT & FAN POINT : Wiring of light & fan poit with 1100V grade 2x2.5 sqmm and 1x1.5 sqmm PVC insulated copper multistrand copper cable (IS694) in PVC conduit pipe with all hardware materials including necessary internal connections complete in all respect as concealed manner.	EACH	98		
6	LIGHT & FAN Fixture:-				
iii	2'X2' LED LIGHT FIXTURE (Make:- Crompton,Havells,Helonix)	EACH	19		
iv	12X15 WATT LED DOWN LIGHTER (Make:- Crompton,Havells,Helonix)	EACH	22		
v	5 WATT LED PU LIGHT (Make:- Crompton,Havells,Helonix)	EACH	2		
vi	16" WALL FAN (Make:- Usha,Crompton,Havells)	EACH	16		
vii	48" X 1200 MM HIGH SPEED CEILING FAN (Make:- Usha,Crompton,Havells)	EACH	4		
viii	9" EXHAUST FAN (Make:- Usha,Crompton,Havells)	EACH	2		
ix	20 BU 22 WALL LED BATTEN LIGHT (Make:- Usha,Crompton,Havells)	EACH	18		
X	9W LED BULB WITH BATTEN HOLDER (Make:- Usha,Crompton,Havells)	EACH	15		
7	LIGHT SWITCH BOARD:-				
i	08 Module Switch Board with Front Plate consisting 06 nos 10A Switch with 5Pin Universal Plug Socket with internal connection complete. (Make:- ANCHOR ROMA)	EACH	12		
ii	08 Module Switch Board with Front Plate consisting 08 Nos 10A Switch with internal Connection complete	EACH	6		



iii	UPS Modular Switch Board: Providing & Fixing 12M UPS Power Board with 04 Nos 10A Socket, 01 No 16 Amps Controlling Switch with Indicator with all Neccessary Internal connection Complete. (Make:- ANCHOR ROMA)	EACH	13		
iv	P/F of UPS 12 Module POWER BOARD at DATA SWITCH consisting 5 Nos 10A socket with 20A Controlling Switch and Indicator Gr. Floor & 1st Floor. (Make:- ANCHOR ROMA)	EACH	2		
v	RAW POWER BOARD: Providing & Fixing 03M Raw Power Modular Board with 16/20A Plug Socket with Box & Front Plate with Neccessary Internal Connection Complete (Cash Cabin BM Chamber Banking Hall, Safe Room Pantry as Required). (Make:- ANCHOR ROMA)	EACH	6		
8	COMPUTER UTP LAN CABLING SYSTEM (Make:- D-Link)				
i	Providing & Fixing Testing & Commission with RJ 45 Connector CAT 06 Cabling in PVC Condit pipe with Fixing Material Complete Branch Manager 02, Offeicer Table-02, Cash Cabin-02, Gen. Counter 04, 1st Floor 04.00, and 02RUN of CAT 06 DATA CABLE from Gr. Floor to 1st Floor 05 PORT DATA SWITCH and also made arrangemebnt a glass or Wooden Self for 05 Port DATA switch at 1st Floor. (Make:- D-Link)	R.mtr	280		
ii	Providing & Fixing testing Commissioning of 09 U DATA Rack	EACH	1		
iii	Providing & Fixing testing Commissioning of 16 PORT DATA SWITCH	EACH	2		
iv	Information Outlet box:- Supplying test & installation and commissioning of CAT 06 Delink IO box with hardware materials (Make:- D-Link)	EACH	14		
v	RJ 45 Connector : Commissioning of in LAN switch Delink (Make:- D-Link)	EACH	14		
vi	PATCH CODE. (Make:- D-Link)	EACH	14		
9	UPS INPUT & INPUT :- Providing & Fixing UPS Power Input & Out PUT with 32A SPN Metal clad plug top unit with internal cabling and termination complete. (Make:- L & T AND HAVELLS)	EACH	4		
10	SAFE ROOM POWER Code :- Poroviding & Fixing Power Code for safe Room with 3 core copper Flexible wire, 03 M box + plate with 20Amps plug socket and controlling with 03 Pin 16A plug top As Power Supply of Safe Room. (Make:- ANCHOR ROMA)	EACH	1		
11	EARTH STATION :- Dedicated EARTHING For COMPUTERS & Gen Lighting:- The Installation as per IE Rules Confirming to IS 3043 – 1987 or its latest amendment by making EARTH STATION with 600 x 600 x 06 mm thick copper plate electrode to be installed such that its top edge shall be at a minimum depth of 03.00 meter below ground level after preparation of ground with charcoal and salt with sand lair of minimum of 06” and connecting with the 25 x 06 mm copper earth lead l strip up to 12 meter length by bolting brass nut bolt with spring washer including supplying and fixing of 50 mm dia GI Pipe Make Jindal / Tata / Bansal including funnel for watering arrangement	EACH	2		
12	Laying of 2 X 10 SWG copper DCC wire from earth pit through PVC conduit to UPS power input and main incoming of Raw power switch connecting with Brass nut bolt and double washer from ground floor. (Make:- FRIS-POLYCAB, HAVELLS)	R.Mtr	55		
13	TELEPHONE LINE:- Wiring with 02 PAIR telephone cable with 71 sq mm copper Multistrand Drop wire cable with RJ 11 Modular type JACK SOCKET in PVC conduit pipe as concealed manner with civil work complete in BM cabin to Data switch. (Make:- L & T AND HAVELLS)	EACH	2		



APPROVED LIST OF MATERIALS

APPROVED LIST OF CARPENTRY WORKS MATERIALS

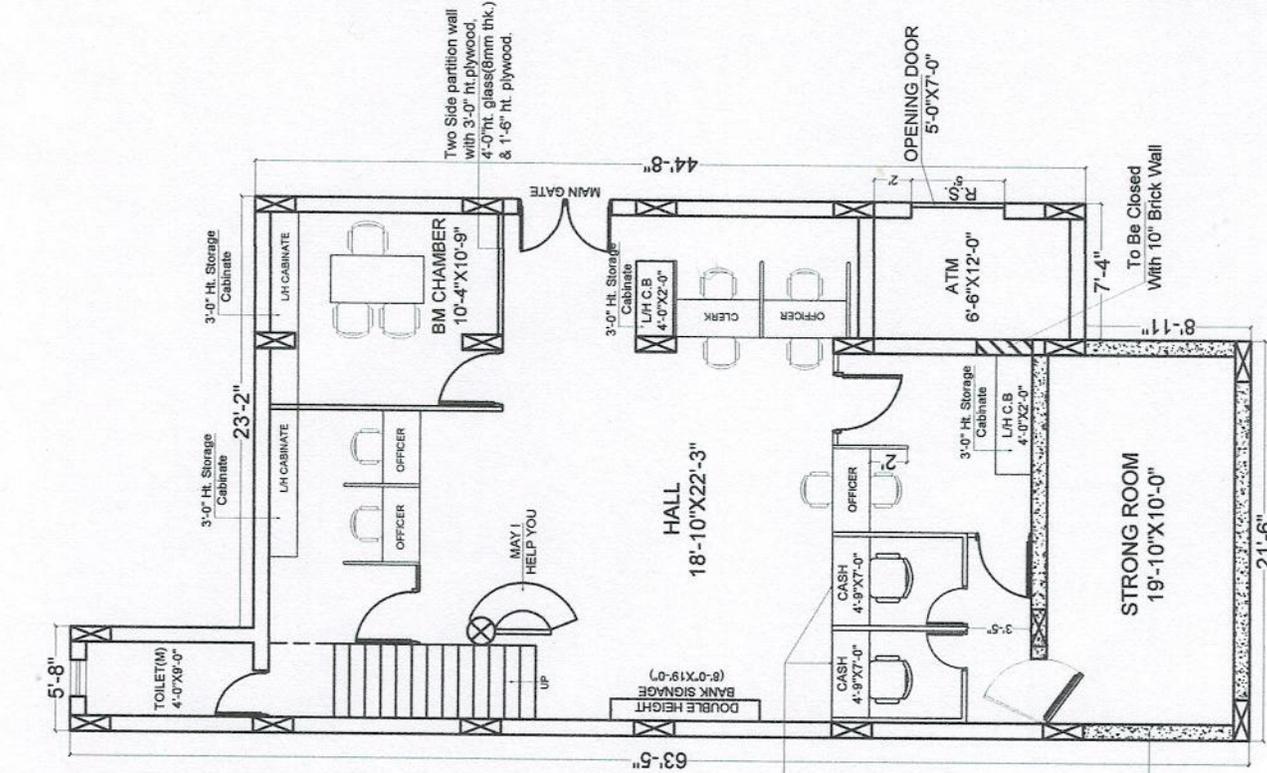
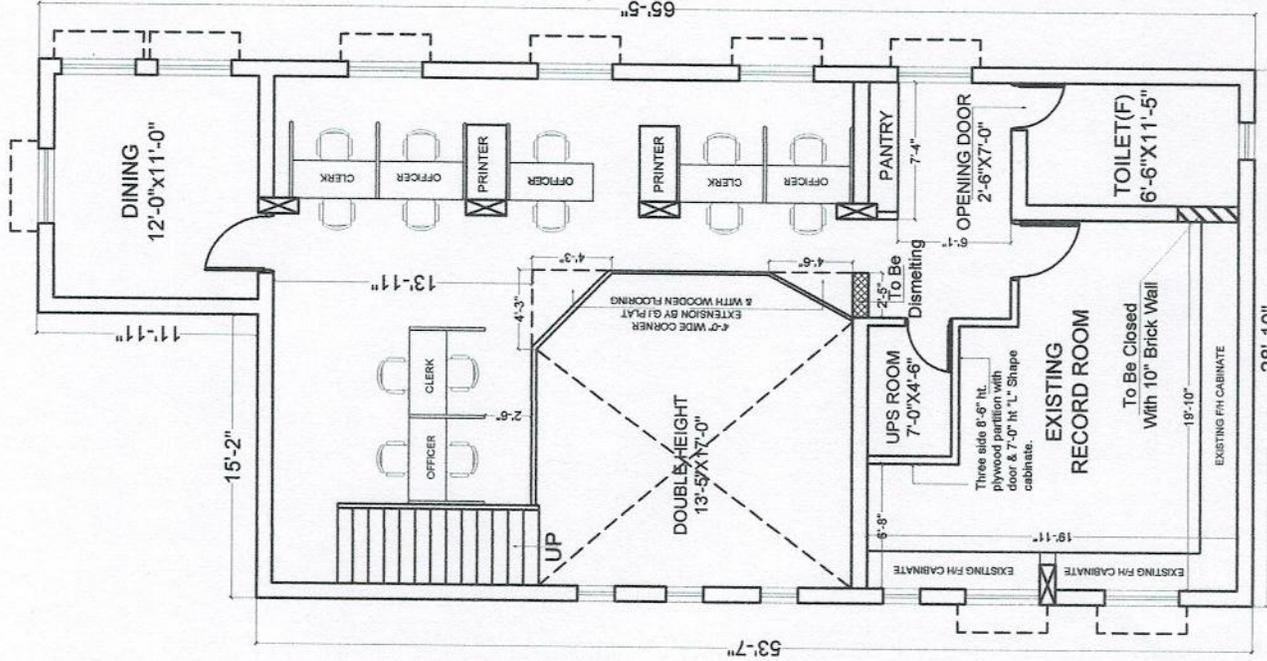
Description	Brand
PLY BOARDS (BWP / BWR / COMMERCIAL)(6MM, 12MM 19MM AS PER	GREENPLY/ CENTURY / GREENLAM
LAMINATES (1MM)	MERINO / GREEN / AEROLAM / AICA
ADHESIVE	FEVICOL
HINGES AND LOCKS	HETTICH / GODREJ / EBCO
HANDLES	HETTICH / GODREJ / EBCO
CHANNELS	HETTICH / GODREJ / EBCO

LIST OF APPROVED MATERIALS MAKE/MANUFACTRES FOR ELECTRICAL WORK

Description	Brand
Light Fittings & Lamps	Havells/Philips/Crompton
Modular Switch/Socket & Industrial Switch	Crabtree/Roma/Havells/Philips
Ceiling fan/Wall fan/exhaust Fan	Havells/khaitan/Crompton
PVC Insulated wires (FRLS)	Phenolex/Havells/HPL
PVC Conduits	BCE/Plaza/AKG/Precision
MCB/MCCB/DB/Change Over	L&T /Siemen's/Havells
Voltmeter/Ampere meter	L&T /AE
Telephone Cable	Phenolex/Havells/HPL
Data Cables & I.O's	D-link/digi Link/Havells
Power Contactor	MDS/L7T/Havells
Call Bell	Ellora/Precision/Anchor/Havells
Celling Rose	Ellora/Precision/Anchor

NOTE:-Materials used than above mentioned items must be approved from the Architects/Bank.





Four side partition wall with 3'-6" ht. plywood, 3'-0" ht. glass (6mm thk.) & 6" ht. plywood with 12 mm thk. glass door, pass box, aluminium jali at top level.

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FURNITURE LAY-OUT PLAN
SHEET NO-ARC/01 2024-03-28

PROPOSED BUILDING FOR INDIAN OVERSEAS BANK, KINAMAR BRANCH, NEAR K V SCHOOL, LATEHAR.

