

B.O.Q OF ELECTRICAL WORK FOR INDIAN BANK , NAYASARAK , BRANCH & ATM .

SL.N O.	DESCRIPTION OF ITEMS	UNIT	QUANTI TY	RATE	AMOUNT
	1. ELECTRICAL WIRING WORK				
	1.1 Light / fan points				
1.0	Concealed / resseded / surface light point / fan point / call bell point etc. wiring using 1100V FR grade 3R (P+N+E) x 1.5 Sq.mm FRLS multi stranded copper conductor PVC insulated wires (with proper R,Y,B color code) pulled through rigid FR PVC conduits of 20mm Dia 1.5 mm thick laid concealed over false ceiling or in wall chases or on the ceiling in case of an open ceiling, with modular type switch plate, switches, GI concealed back box, etc. of legrand mylinc or equivalent make. S.I.T.C.(Supply Installation Testing And Commissioning) as directed by the Engineer-in-charge. (Each circuit shall not feed more than 8 points OR 800 watts as per following configuration.)				
	NOTE:- 1. Only FRLS wire shall be used; 2. The wires from ceiling junction to light points / light fixture shall be drawn in flexible PVC conduit with adptor & cover for junction box & crimp type lugs at both the ends alongwith necessary hardware & accessories, etc. as required; 4. Looping of Neutral / Earth wire between two seperate Primary / Full Points is strictly not allowed; 5. Looping of Neutral / Earth wire between two seperate circuits on similar or other phase is strictly not allowed; 6. Ferulling / numbering / taggning to wires with circuit number & db name for all lighting & raw / ups power shall be strictly followed at both DB & switch board / switch socket boards ends.				
1.1	Primary light points including the cost of clip in type 6A Modular switch of legrand mylinc or equivalent make. S.I.T.C. as directed by the Engineer-in-charge.(1 light/fan controlled by one switch)	Nos.	24.00		
1.2	Secondary point same as item No. 1.1 (2 light/fan controlled by one switch)	Nos	20.00		
1.3	Independent point using one 6 Amp Modular Switch and one 6 Amp, 2/3 pin Modular scoke mounted on a suitable size Box for wall fans.	Nos	6.00		
2.0	Re fitting of exsting electrical / UPS points as -per requirement by repalcing from existing position to new position including all labour.	Nos	5.00		
	1.1 Power points				
3.0	Concealed power point using 16 Amp 3 Pin plug socket with 16 Amp Modular switch of legrand mylinc or equivalent make mounted on separate board using suitable size galvanized iron junction & switch boxes & clip in type modular type switch plate,etc. Supply taken from R.D.B./ Nearest L.D.B. The point should not taken from any switch Board. S.I.T.C. as directed by the Engineer-in-charge.	Nos	2.00		
4.0	Concealed raw power point using 6 Amp, 2/3 Pin Modular plug socket with 6 Amp Modular switch of legrand mylinc or equivalent make on separate board using galvanized iron junction & switch boxes & clip in type modular type switch plate, switches, GI/PVC concealed back box, etc. Supply taken from Nearest L.D.B. Maximun 3 Points per Circuit for counter & Table	Nos	2.00		

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2 COMPUTER WIRING WORK					
1.0	Suppl't and fixing of concealed UPS power points using 1 nos. of 16 Amp, 3 Pin Modular switches to be provided on table top + 4 nos. 6 Amp Modular socket below table top of legrand myline or equivalent make taken from Nearest C.D.B with suitable size galvanized iron/PVC junction & switch boxes & clip in type modular type switch plate, GI/PVC concealed back box, etc. Maximum 3 Points per Circuit for counter & Table. S.I.T.C. as directed by the Engineer-in-charge.	SET	2.00		
2.0	Suppl't and fixing of concealed UPS power points using clip in modular type 5 No. of 6/16 amp socket points controlled by 2 No of 16 amp modular switch with indicator of legrand myline or equivalent make taken from Nearest C.D.B with galvanized iron junction & switch boxes & clip in type modular type switch plate, switches, GI concealed black box, etc. . The point should not from any switch Board S.I.T.C. as directed by the Engineer-in-charge.	SET	1.00		
3 A.C. WIRING WORK					
1.0	Supply & Installation of all required materials and wiring to Split AC point 25 Amp 3 Pin Modular socket with 16A three pin plug mouted on suitable size concealed GI Box near to the AC controlled by Concealed 20A/25A, 415 V DP Isolator mounted in a prefabricated powder coated DP metal enclosure (legrand make Ekinox3 model or equivalent make) concealed and complete to the satisfaction of Bank for 1.5 TR Cassatte/split AC.S.I.T.C. as directed by the Engineer-in-charge.	Nos	4.00		
2.0	Supply of all required materials and wiring to 2 nos of Split AC in ATM with 2 nos 16 Amp Modular socket of legrand myline or equivalent make mouted on suitable size GI concealed Box controlled by 25 Amp Digital timer operated Alternately supplied by a 25 Amp RCBO Sensitivity 30mA Enclosed in 6 way SPN DB of Legrand or Equivalent make taken from Main Panel . with galvanized iron junction & switch boxes & clip in type modular type switch plate, switches, GI concealed back box, etc. .The point should not taken from any switch Board. S.I.T.C. as directed by the Engineer-in-charge.	Nos.	1.00		
4. DISTRIBUTION BOARDS.					
1.0	Supply and installation of SPN, Double Door, Metal type, (hager IP43, legrand make Ekinox3 model or equivalent make as approved by SBIIMS), surface / flush mounted on wall, interconnected wiring complete with earthing lugs, including DB wiring, termination of circuits with ping type copper lugs, blank plates, etc. housing following switchgears :				
0.1	U.P.S Incoming DB	SET	1.00		
	4 way SPN DB				
	40 Amp DP MCB – 2 nos (1main & 1 spare).				
	All MCB must be class C Type				
0.2	U.P.S Outgoing DB	SET	1.00		
	8 way SPN DB				
	Incoming 1 No. 40A DP MCB				
	Out going 3 No. 25 A SP MCB				
	1 No. 10 A SP MCB				

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2.0	Supply and installation of Single isolation switch for entire branch combination of SPN, Single Door, Metal type Distribution Board. (hager IP43, legrand make Ekinox3 model or equivalent make as approved by Engineer-in-charge), surface / flush mounted on wall, interconnected wiring complete with earthing lugs, including DB wiring, termination of circuits with ping type copper lugs, blank plates, etc. housing following switchgears :				
2.1	8 way SPN DB	SET	1.00		
	1 No. 100 A -415V-4P isolator. (for A.C)				
2.2	8 way SPN DB	SET	1.00		
	1 No. 63 A -415V-DP isolator (for Light)				
	1 No. 40 A -415V-DP isolator (for Inverte r)				
3	Providing and fixing MCB as per rating in the existing panel / DB etc including all labour and materials .				
3.1	25 to 40 A DP MCB	Nos.	10.00		
3.2	10 to 25 A SP MCB	Nos.	14.00		
	5. FITTINGS OF FIXTURES				
1.0	Supply,installation and testing of recess LED lights fittings (18Wt) of sport type with all accessories complete of Philips / Crompton/ Wipro as required as per direction of Engineer in charge.	Nos.	35.00		
2.0	Providing and fitting of 450 mm(Metal body) sweep High Flo Wall fan of Orient/ Crompton Equivalent Make as required as per direction of Engineer in charge.	Nos.	10.00		
3.0	Providing and fitting of call bell of approved make .	Nos.	1.00		
4.0	Supplying , fixing of 1x 18watt LED patty fittings with all accessories of Philips / Crompton/ Wipro make as per direction of EIC .	Nos	5.00		
	6.CABLE, MAINS & SUBMAINS.				
1.0	Supply of all required materials and wiring to circuits/ submains with following number and sizes of PVC insulated 1100 volt grade multi standard FR copper wire run inside rigid FR PVC conduits of 20mm Dia 1.5 mm thick of ISI mark as required and copper wire as earth continuity conductor and complete in all respect including making good to all damages caused and as per the direction of Consultant and Engineer-in-charge.				
1.1	Recessed wiring with (2Rx2.5sqmm +1Rx1.5sqmm) copper wire (LDB/CDB to Common Switch board and power Points / Computer points etc)	Mts	100.00		
1.2	Recessed wiring with (2Rx4.0sqmm +1Rx2.5sqmm) copper wire (UPS output to CDB / AC points)	Mts	100.00		
1.3	Recessed wiring with (2Rx6.0 sqmm +1Rx4.0 sqmm) copper wire (PANEL to L.D.B / Inverter / UPS input /Light master switch)	Mts	60.00		
2.0	S & I of 1100V grade copper armoured cable having sector / circular shaped aluminium conductor PVC insulated cores, laid up, PVC tape wrapped inner sheathed, GI strip / wire armoured and overall extruded PVC sheathed confirming to IS: 1554, laid on wall or ceiling using GI clamps and spacers as per route shown at site and further as directed by Bank / Architect in the following sizes.				
2.1	Surface wiring with (10 sqmm) 4C core unarmored copper cable . (From main Panel to master AC DB Contoller)	Mts	20.00		

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	7. EARTHING				
1.0	Providing and fixing of Earthing with copper earth plate 600 mm X 600 mm X 3.18 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with alternative layer of 150mm thick charcoal/ coke and salt as required. For UPS.	SET	2.00		
2.0	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.	Mts.	30.00		
	8. COMPUTER NETWORKING				
1.0	Supply of all required materials and laying of CAT-6 LAN wiring from server to Hub and Hub to computer I/O Points of approved brand ((D-Link/Digilink/Amps) laid through rigid FR/FRLS PVC conduits of 20mm Dia 1.5 mm thick of ISI mark duly buried under floor with necessary chasing / breaking in floor and to be refinished with all necessary civil material etc. or to be cleated on wall / ceiling with saddles / spacer etc. necessary termination etc. complete as in all respect including making good to all damages caused and as per the direction of Consultant and Engineer-in-charge.	Mts	90.00		
2.0	Supply , fixing of RJ 45 information outlet (I/O) with safety shutter of D-link make with front modular cover plate, flush box metallic or PVC for trucking system etc.	Nos.	4.00		
3.0	Refitting of existing Data rack including all labour and materials.	Set	1.00		
4.0	Supply and Fixing of Cat6 Factory crimped moulded 1mtr patch cord. Make: Legrand/ Schneider/ Digisol	Nos.	4.00		
5.0	Supply and Fixing of Cat6 Factory crimped moulded 2mtr patch cord. Make: Legrand/ Schneider/ Digisol	Nos.	4.00		
	9. DISMENTALING WORK				
1.00	Removing and demolishing existing wiring , lighting, etc as per direction in phase manner to not affecting the working condition of the branch. Complete the job in all respect i.e cleaning, removing the damaged material outside the premises as per instruction, including all labour.	L.S			
2.00	Removing and refitting of A.C unit as per requirement and as per direction including all necessary accessories including copper pipe, drain pipe, gas filling etc. including all labour.	Nos	3.00		
	TOTAL				

Total amount in words:-