	F QUANTITY OF ELECTRICAL WORKS N/W: PROVIDING		RICAL WO	RKS FOR II	NDIAN BANK
3.14	BENAGORIA BRANC	H			
A.	SUB HEAD-I (WIRING)				
В.	SUB HEAD-II (DISTRIBUTION BOARDS & PANELS)				
C.	SUB HEAD-III (SUPPLY OF FIXTURES & FANS)				
	SUB HEAD-IV (SUPPLY & MAKING OF EARTHPITS,	8-14-1-			
D.	REMOVING OF ITEMS, RUBBER MAT)				
E	SUB HEAD - V (NETWORKING) LAN CABLING WORK				Name of the last
	TOTAL-				
3 3 4				- Maria - L	
	G.S.T(Extra as applicable)				
L. NO.	ITEM OF WORK	UNIT	QTY	RATE	AMOUNT
	TIEW OF WORK	ONT	Qii	NAIL	ANIOUNI
JB HEAI	D - I (WIRING)		1000		
4	Point wiring with 1100 V grade 3 nos. single core 1.5 sq.mm.FR and 1.5	3 1 1157			
	sq.mm.for earth PVC insulated stranded copper conductor wire (IS:694)				
	through suitable size PVC conduit (ISI marked)by thred cutting, complete				
	with junction box, circular box, elbows, bends, couplers and other				
	accessories on surface above false ceiling or concealed by chase cutting				
	on wall from light & fan switch board to light, fan & 6A socket outlet on				
	the same switch board or separately mounted switch board. The work				
	includes supply and fixing of all materials such as modular type 6A				
	switch for light and fan point, 6A 2/3 pin shuttered socket outlet with				
	switch in each switch board for wall fan , 3 plate ceiling rose / angle or				
	batten holder etc. as required. The point wiring also includes circuit				
	wiring with 1100 V grade 2 nos. single core 2.5 sq.mm.FR + 1 no. single				
	core 1.5 sq.mm.FR PVC insulated stranded copper conductor cable		The state of		
	(IS:694) through suitable size PVC conduit as described above from DB to				
	switch board, interconnection, mending good all damages to original				
	finish, painting etc. (maximum ten switch for one circuit)				
а	1 Light control & ,ceiling fan ,exhaust fan by 1 switch	Each	30		
b	2 Light control by 1 switch	Each	6		
С	Wall fan point with 6A 3 pin modular socket & 5/6 amps modular switch	Each	7		
		EdCII			
	Supply & fixing suitable size GI box with modular plate and cover in front				
	on surface/ in recess i/c pvdg & fixing 5 pin 5/6 amp modular socket				
2	outlet and 5/6 amps modular switch, connection, painting etc as reqd.	Set	6		
J. F. J. L.	Supply & fixing AC controller unit consisting of one no 25 amp AC				
	controller having overload protection starter, one no 20/25 amp SPN				
	MCB and socket outlet, all fixed on a modular plate complete with metal				
2	box and recessed in wall as reqd. With Wiring for A.C. Point with 2 x 4	Fools			
3	sqmm FR PVC insulated copper conductor single core cable in	Each	5		
	surface/recessed PVC conduit / PVC Casing - n Capping along with one				
	no 4 sq mm FR PVC insulated copper conductor single core cable for loop				
	earthing as required				
	Sub Main Wiring from LT Panel to Light D.B. ,LT Panel to RAW feed D.B.,				T
	from LT Panel to UPS Panel & UPS Panel to UPS D.B. with 2 x 6 sqmm FR				
	PVC insulated copper conductor single core cable in surface/ recessed		Tesas"		
4	PVC conduit / PVC Casing - n Capping along with 1 x 6 sq mm FR PVC	Mtr.	95		
	insulated copper conductor single core cable for loop earthing as				
	required. The rate should be quoted considering wastage. The				
	measurement shall be taken to the place where the wire start and end.				

3.



5	Supply & fixing suitable size GI box with modular plate and cover in front on surface/ in recess i/c pvdg & fixing 6 pin 15/16 amp modular socket outlet and 15/16 amps modular switch, connection, painting etc as reqd. with Circuit wiring with 2 x 2.5 sqmm FR PVC insulated copper conductor single core cable surface/ recessed PVC conduit / PVC Casing-n Capping along with one no 1.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required. With	Each	4	
6	Supply & fixing remote controlled call bell buzzer suitable for 230 V AC/ Battery operated with remote type bell push as reqd.	nos.	1	
7	Supply & fixing of computer point with 3 no. 5 pin 5/6 amp modular socket with modular type switch for UPS Power and 2 no. 5 pin 5/6 amp modular socket with modular type switch phenolic laminated sheet suitable size PVC/G.I. box for RAW Power. As per instruction of Bank/Ele.Er./as required including their wiring for UPS as well as RAW Power socket for computer with 2 x 2.5 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 2.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Each	7	
8	Supply & fixing of computer point with 3 no. 5 pin 5/6 amp modular socket with 1 nos 15 amp modular type switch for UPS Power. As per instruction of Bank/Ele.Er./as required including their wiring for UPS as well as RAW Power socket for NETWORK SWITCH, CCTV & FIRE ALARM SYSTEM with 2 x 2.5 sqmm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit / PVC Casing - n Capping along with one no 2.5 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required. The circuit wiring is to be done from UPS PANEL till the location of NETWORK SWITCH, CCTV & FIRE ALARM SYSTEM & connected to 6/10amp mcb mentioned in SUB HEAD II point no-4.	Each	3	31.7
9	Supply & fixing of approved make including square face plate and M.S. housing box with RJ-11 socket etc complete in all respect conduits as required.(Each Section Head work station have 2 no. of RJ 11 Socket) with Supplying and drawing 2 pair 0.5 sqmm FR PVC insulated annealed copper conductor, unarmored telephone cable in PVC conduit as required	Each	5	
10	Supply & fixing of 10 pairs MDF box with crone termination for all points	Each	1	
11	Supply & fixing Of 15Amp Modular Switch & Socket with modular type switch phenolic laminated sheet suitable size PVC/G.I. box along with 15 TOP outside Strong Room. The point wiring also includes circuit wiring with 1100 V grade 2 nos. single core 2.5 sq.mm.FR + 1 no. single core 1.5 sq.mm.FR PVC insulated stranded copper conductor cable (IS:694) through suitable size PVC conduit from this box to strong room switch board. The wiring from light DB to this box is already included in point wiring description.	Each	1	
		OF STREET		
ID UEAR	TOTAL SUB HEAD-I	157		
OR HEAD	Supplying & Fixing following ways three pole and neutral sheet steel			
1	MCB DB, 415 volts on surface/ recessed complete with tinned copper busbar, neutral busbar, earth bar din bar detachable gland plate interconnections, phosphatised and powder painted i/c earthing etc as reqd. (But without MCB / RCCB/Isolator)			



	A) 2+12/16 Way double door SPN DB.	Each	3		
, 2	Supply & fixing 5 amps to 32 amps rating 240 V 'C' series MCB suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc as reqd.				
	a) 6/10 A 10 KA SP MCB "B"	Each	34		
	b) 40 A 10 KA DP MCB "C"	Each	3		
			RELEASE.	7	
3	Supply & fixing of indoor cubicle extensible type fully compartmentalized Distribution panel suitable for operation on 415 volts 50 Hz 3 phase 4 wire AC distribution system, suitable for 35 KA short circuit rating, confirming to IP:42 degree of protection, made up of 1.6 mm thick CRCA sheet, wall/ floor mounted, dust & vermin proof enclosure, having hinged and earthed cover on front, having neoprene gasket/ katings stuck to the doors, duly painted with 65- 75 microns thick dry epoxy powder paint after 7 tank process of degreasing, derusting etc comprising of the following switchgears complete with all interconnections with suitable size of copper strip/hard drawn PVC insulated copper cable i/c keeping the panel in position, minor civil works as necessary, painting, sign writing etc complete as required (as per specifications of Panel attached) TEST REPORT: FOLLOWING REPORTS HAVE TO BE PROVIDED BY THE VENDOR AT THE TIME OF SUBMISSION OF BILL: 1) FINAL AS BUILT PLAN IN THREE COPIES DRAWN TO THE SCALE, PRINTED IN CASE OF CAD AND BLUE PRINT, IN CASE OF MANUAL DRAWING. 2) QUALITY REPORT INDICATING THE ITEMS USED WITH THEIR MAKES. 3) PANEL MANUFACTURER'S CPRI TEST REPORT. 4) ROUTINE TEST REPORT OF PANEL FOR IR & HV TEST. 5) (Panel Size- H-1400mm, W-900mm & D-300mm)				
	INCOMING:				
	a) 125 amp 4 pole MCCB not less than 25 KA having Thermo magnetic type release for a range of 80% to 100% for Overload and short circuit complete with rotary handle etc as reqd.: 1 no b)100 amp 4 pole heavy duty I-II-I type cubicle changeover switch: 1 no		iv enited		
	METERING:				
	a) Multifunctional meter displaying A/V/PF & Hz along with 3 nos				
	Suitable size CTs & HRC type protection fuse etc as reqd: 1 nos				
	c) LED type phase indicationg lamp in phase distinguishing colors with HRC fuse : 6nos				
	BUS BAR:				
	Main Bus Bar: 4 strip 300 amp bus bar made of electrical grade copper strip enclosed in separate bus bar chamber, provided with DMC/ SMC bus bar support duly insulated with heat shrinkable sleeves in distinct				
	colours as read: 1 set Emergency Load Bus Bar: 4 strip 200 amp bus bar made of electrical copper strip enclosed in separate bus bar chamber, provided with DMC/ SMC bus bar support duly insulated with heat shrinkable sleeves in distinct colours as read: 1 set				
	OUTGOINGS:				
	40 amp, 10 KA D Series FP MCB : 3 nos.				
	40 amp, 10 KA D Series DP MCB: 2 nos				
	25 amp 10 KA C series SPN MCB: 8nos.		The state of the s		

ć.



	25 amp 10 KA C series SPN MCB: 5nos.				
ary.	63 A rotary type Phase selector: 1 no for UPS			III, IFLIGHTS	
	63 amp DP Manual Change Over For UPS Charging-1 nos.	Set	1		
14,697					
4	SITC of indoor cubicle type UPS panel suitable for operation on 415 volts 50 Hz, 3 phase 4 wire AC distribution system, AC supply, suitable for 35 KA short circuit rating, confirming to IP:42 degree of protection, made up of 1.6 mm thick CRCA sheet, wall/ floor mounted, dust & vermin proof enclosure, having hinged and earthed cover on front, having neoprene gasket/ katings stuck to the doors, duly painted with 65-75 microns thick dry epoxy powder paint after 7 tank process of degreasing, derusting etc comprising of the following switchgears		6		
	complete with all interconnections with suitable size of copper strip/hard drawn PVC insulated copper cable i/c keeping the panel in position, minor civil works as necessary, painting, sign writing etc complete as required.				
	METERING:				
	a) Digital Volt meter displaying voltage with 3 nos HRC type protection fuse etc as reqd: 1 nos b) 6/10 A 10 KA SP MCB "B": 3 nos for NETWORK SWITCH, CCTV & FIRE ALARM SYSTEM to be connected with required wiring with UPS output				
	UPS INPUT & OUT PUT				
	4 no 40 A SPN MCB 10KA with 4 no 40 amp Industrial type socket out let and Top with connection o/g MCB with PVC insulated copper conductor wire as required (For 2 no. main input and 1 no. output)	nos.	1		
	TOTAL SUB HEAD-II				
UB HEAD	D - III (SUPPLY OF FIXTURES & FANS)				
				i de	a periodical
1	Supplying, installation, testing & fixing of 6W/9W LED batten suitable for indoor application.	Each	3		
2	Supplying of stepped type electronic fan regulator on the existing modular plate switch box i/c connection but excluding modular plate etc as read.	Each	3		
3	Supplying &installation, testing & fixing of 36W LED (2'X2') surge protrction LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as reqd. and .As approved make by Electrical consultant/architect etc as reqd.	Each	12		
3	protrction LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as reqd. and .As approved make by	Each Each	12		
	protrction LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as reqd. and .As approved make by Electrical consultant/architect etc as reqd. Supplying, installation, testing & fixing of recess mounted circular LED (dia-6") downlighter 9/12 Watt LED suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by				
4	protrction LED luminaire suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as reqd. and .As approved make by Electrical consultant/architect etc as reqd. Supplying, installation, testing & fixing of recess mounted circular LED (dia-6") downlighter 9/12 Watt LED suitable for armstrong ceiling and grid ceiling complete with separate electronic drive/approved make by architect/Ele.Consultant etc as required. Supplying, installation, testing & fixing of 1X36 W LED tube light fitting	Each	12		



. 8	Supplying, installation, testing & fixing of oscillating and tilting type Metal body wall mounted fan of 450 mm sweep, 80/100watt, 1300 to 1500 rpm, fixing the same on wall, connection with 1.5 sqmm PVC insulated copper conductor, testing, commissioning etc as required.	Each	6					
MAY .	TOTAL SUB HEAD-III							
B HEAI	D - IV (SUPPLY & MAKING OF EARTHPITS, REMOVING OF ITEMS, RUB	BER MAT)		1, 42,574	A PARTY			
1	Providing chemical/mineral maintenance free earthing system comprising of copper coated earth electrode 3 metre length and 17.2 mm outer dia along with 25 kg earth conductivity enhancing back fill mineral compound for earth inspection pit etc. as required. OR Earthing with copper earth plate 600 mm X 600 mm X3 mm thick including accessories, and providing masonary enclosure with cover plate having locking arrangement and watering pipe 2.7 metre long etc.with charcoal / coke	Set	2					
4	S/L 4 mm dia copper wire on surface or in recess as reqd.	Mtr.	25	2 1 1 1 1 1				
-4	S/E 4 min dia copper wife off surface of infrecess as requ.	With .	23					
5	High voltage insulation mat are relatively thin mats of thicknes (2mm to 3.5mm) made of elastomeric polymers materials having a high insulation restance, thus imparting total safety of human being from any leakage current.(UPS Room)	Sqft	40					
6	Dismantle & Removal of all existing electrical items i.e. wiring,wall fans, ceiling fans lights, DB's, Main Panel etc.of Branch & ATM ,debris from site, carrying and disposal of malba to dumpyard. as per bank/branch incharge direction.	Lumpsum	1					
	TOTAL SUB HEAD-IV							
			Res III					
B HEAI	D - V (NETWORKING) LAN CABLING WORK							
16	Supply & fixing of approved make including square face plate and M.S. housing box with RJ-45 socket etc complete in all respect							
10	including cat-6 Data cable conduits, identification of the hub	4,5%		- 19				
	a) RJ-45 socket	Set.	8		National Control			
	b) Cat-6 Data cable with PVC conduit	Mtr.	310					
19	Supply & fixing Commissioning of 20 line Net-working hub all complete as required.	Set.	1					
20	Supply & fixing Commissioning of 2 Meter Patch Cord as required, all complete as per requirment.	Set.	8					
	TOTAL SUB HEAD-V							
	NOTE:-							
EKA	1. The Circuit wiring of Switch board in Strong Room is to be connected through 15 AMP top outside strong room with							
	2. The UPS point wiring for NETWORK SWITCH, CCTV & FIRE ALARM SYSTEM is to be done from UPS Panel.							
	3. PROPER NAMING OF MCCB, MCB INSTALLED IN MAIN PANEL, DB'S should be done.							
	4. Vendor has to quote final rate after discount/less.							

