ESTIMATE FOR REMAINING ELECTRICAL INSTALLATION WORKS OF STATE BANK OF INDIA, ADMIN OFFICE , URBAN ESTATE PHASE-II, BATHINDA

SN.	DESCRIPTION OF ITEM	QTY.	UNIT	RATE	AMOUNT
JIN.	PART- A	QII.		RAIE	AMOUNT
1a	UPS & RAW POWER POINTS Supply all materials receiving, storing, handling, fixing & laying of 3 x 2.5 Sq.mm. PVC insulated copper conductor armoured cable and fixing of cable on wall with suitable size of clamps / saddles or laid in floor or recess wall including cutting of floor / wall for computer points with suitable size GI box with modular plate and cover in front including providing and fixing 3 No. 5 amp 3 pin modular socket controlled by 1 No. 5 amp modular switch with indicator , connection end terminations with suitable size of glands etc. complete as reqd.(On UPS Power) (Make of switch/ socket L&T/LEGRAND/ HAVELLS)(Make of cable- polycab/KEI/Finolex)	44	Each		
1b	As per item 1 above but with 1 no. 15 amp 5 pin modular socket controlled by 1 no. 15 amp modular switch with indicator.(On Raw power only for printer)(Make of switch/ socket L&T/LEGRAND/ HAVELLS)(Make of cable- polycab/KEI/Finolex)	31	each		
1c	Supply and fixing of computer points with suitable size GI box with modular plate and cover in front including providing and fixing 3 No. 5 amp 3 pin modular socket controlled by 1 No. 5 amp modular switch with indicator , connection end terminations with suitable size of glands etc. complete as reqd. and connection with existing 3x2.5sqmm copper armoured cable (On UPS Power) (Make of switch/socket L&T/LEGRAND/ HAVELLS)	210	each		
1d	Supply and fixing of computer points with suitable size GI box with modular plate and cover in front including providing and fixing 1 no. 15 amp 5 pin modular socket controlled by 1 no. 15 amp modular switch with indicator. (using existing 3x2.5sqmm wire/3x2.5sqmm copper armoured cables)(On Raw power only for printer) (Make of switch/ socket L&T/LEGRAND/ HAVELLS)	115	each		
1e	Supply and fixing of computer points with suitable size GI box with modular plate and cover in front including providing and fixing 2 no. 15 amp 5 pin modular socket & 1 no. 5amp 5pin modular socket controlled by 1 no. 15 amp modular switch with indicator . (using existing 3x2.5sqmm wire/3x2.5sqmm copper armoured cables)(On Raw power only for printer) (Make of switch/ socket L&T/LEGRAND/ HAVELLS)	10	Each		
2	DISTRIBUTION BOXES supply, installation, testing and commissioning of factory fabricated distribution board rust inhibited, powder coated sheet fabricated comprising of incoming isolator and outgoing MCB's neutral link or neutral bus, top and bottom detachable entry earthing bolts interconnection and grouting bolts etc complete as reqd. as per details below :-(Make L&T/LEGRAND/ HAVELLS/ABB /GE)				

2.1	12 way MCBDB double door in recessed wall including cutting of wall and making good the damages comprising of 1no. 63 Amp isolator and 10 no. 6/10 Amp MCBs etc. complete as reqd.(For UPS Supply to computers)	1	no.	
2.2	8 way MCBDB double door in recessed wall including cutting of wall and making good the damages comprising of 1no. 40 Amp isolator and 6 no. 6/10 Amp MCBs etc. complete as reqd.(For UPS Supply to computers)	4	no.	
2.3	6 way MCBDB double door in recessed wall including cutting of wall and making good the damages comprising of 1no. 40 Amp isolator and 4 no. 6/10 Amp MCBs etc. complete as reqd.(For UPS Supply to computers)	4	no.	
2.4	Termination of existing circuit wiring, powerpoint wiring in existing light and power DBs with 25mm PVC conduit complete as required.	12	job	
3.0	MV DISTRIBUTION BOARDS (Panels)			
3.1	Testing, comissioning of existing LT panel including			1
5.1				
	connectons of existing floor cables of 3.5x70sqmm,			
	3.5x95sqmm, 3.5x25sqmm, 4x16sqmm etc. and main supply			
	cable of 3.5x300/400/185 sqmm from syncronising panel to LT			
	Panel including double compression gland for 1.1 kV			
	grade, XLPE insulated, Al/ Cu Conductor cable, the details are			
	as under:			
	MAIN FLOOR DISTRIBUTION PANEL			
	Incoming			
	1 No. 400 amps 50 kA 440 volt TPN MCCB (Make DN			
	Series L&T, Havells Series , Schneider, or Equivalent Make) with			
	thermal magnetic protective releases , short circuit and E/F			
	releases with heavy duty solid detachable neutral link complete			
	with on indication lamp (Makes M.D.S /standard/ havells /			
	HPL/L&T)			
	Metering, Indication & Protection:			1
а	1no. 0-500V Digital multimeter in a separate compartment &			
a				
	Digital Ammeter and one set of CTs (3no.) with CT ratio400/5 A with			
	LED type indication lamps with protection fuses in separate			
	compartment (Make			
	L&T, Havells, ABB etc.)			
b	Breaker ON OFF indication Lamps (Make L&T C&S, Standred)			
~				
	R-Y-B indication lamps with MCBs (Makes L&T C&S,Standred)			}
С				<u> </u>
	Bus Bar: 400 A, TPN AI. Bus Bar of suitable length having Current			
	density 1Amp/sq.mm & having high conductivity electrical grade			
	suitable to withstand symmetrical fault level of 16 kA. Neutral			
	busbar shall be of			
	100% capacity.			
	Outgoings:			
-	11 Nos. 200A 3P MCCB 25kA (For Supply to Floor Panel) (Make			
	DN Series L&T, Havells Series , Schneider, or Equivalent Make)			
	· · · · · · · · · · · · · · · · · · ·			
	12 Non 62A 2D MCCD 25kA (For Supply to Floor Donel) (Make			<u> </u>
-	13 Nos. 63A 3P MCCB 25kA (For Supply to Floor Panel) (Make			
	DN Series L&T, Havells Series , Schneider, or Equivalent Make)			
	MAIN FLOOR DISTRIBUTION PANEL as described	1	JOB	1
		1	JOD	
1	above			

4.0	testing and comisssioning of existing UPS Outgoing Panel	1	JOB		
1	with end termination of floor existing cables and termination of				
	existing UPS DB cable with 3x6sqmm copper armoured cable				
	with existing UPS panel 3.5x25sqmm aluminium armoured				
	cable at common point i.e. in floor shaft on all 05 floors using				
	suitable connector/DB/63amp Bus Bar including double				
	compression gland for 1.1 kV grade, XLPE insulated, Al/ Cu				
	Conductor cable				
	The detail of existing UPS panel is as follows:				
Α	MAIN INCOMER WITH METERING				
	1No 320A TP+N MCCB 36KA with Thermal Magnetic				
	release having S/C, O/L Protection.				
	1 No Spreader links				
	1 No Door Operating Handle				
	1 NO Digital VAF meter Class 1 (Makes Automatic Etectric /				
	Rishab/ Essena)				
	3 NO CT320/5A Class 1.0, 10VA				
	Per Phase Indication Light LED RED 220V AC				
L	3 NO Control MCB 6A SP 10KA				
<u> </u>	1 NO Neutral Link 6A				
B	Bus Bar:				
	320 A, TPN AI. Bus Bar of suitable length having Current density				
	1Amp/sq.mm & having high conductivity electrical grade suitable to				
	withstand symmetrical fault level of 16kA. Neutral busbar shall be				
	of 100% capacity.				
С	OUTGOING FEEDERS				
	7 No 63A TP MCCB 25KA (Make DN Series L&T, Havells Series				
	,Schneider, or Equivalent Make)				
	Spreader links				
	UPS Panel as described above complete with specifications and				
	enclosed SLD				
5.0	Retrofitting Work of MCCB"s in Existing Panel (Syncronisation				
	panel)				
	Outgoing				
Α	1No 320A TP MCCB 25KA with Thermal Magnetic				
	release having S/C, O/L Protection.(Make DN Series L&T, Havells				
	Series , Schneider, or Equivalent Make)				
┝───	Metering, Indication & Protection:				
5.1	In Existing Panel as described above complete with specifications	1	nos		
0.1	The Aloung Fanor as described above complete with specifications	1	105		
F 0	4 no. 62 Amp 2D MCCD 25 KA with the much means the	4	Nee		
5.2	1 no. 63 Amp 3P MCCB, 25 KA with thermal magnetic	1	Nos		
	protective releases.(Make DN Series L&T, Havells Series ,				
L	Schneider, or Equivalent Make)				
6.0	Installation, testing and comisssioning existing lift panel				
	including termination of all relevent input and output cables				
	with double compression gland for 1.1 kV grade, XLPE				
	insulated, AI/ Cu Conductor cable, complete as required.	1	Job		
	Existing lift panel is at roof and need to be shift at stilt (in				
	panel room). The detail of existing lift panel is as follows:				
	Incoming:				
	1 Nos. 160 Amps 4P 25kA Moulded Case Circuit Breaker (Icu =				
	Ics) with Thermal Magnetic based release for short circuit and over				
	current				
	our one			1	

	Indications :			
а	1 Sets supply available indicating lamps with control MCBs.			
b	R-Y-B and ON/OFF indication lamps for incomer (Makes L&T			
	C&S Standard)			
С	Earth Fault Module			
	Bus Bars:			
	160 A, TPN AI. Bus Bar of suitable length having Current			
	density 1Amp/sq.mm & having high conductivity electrical grade			
	suitable to withstand symmetrical fault level of 10 kA. Neutral			
	busbar shall be of 100% capacity.			
	Outgoing			
-	4 Nos. 40A FP RCBO (300 mA)			
7	4 Nos. 25A DP MCB(Motor Duty) supply fixing, testing of following 3 pin metal clad industrial type plug			
· ·	& socket arrangement with plug top cap & chain controlled by 1 No.			
	MCB in record room, locker room in basement -1 and basement-2			
	(Make- M.D.S /standard/ indo Asian/ havells / HPL)			
	, ,			
а	20 amp with 10 amp SPMCB (For Record Room Supply)	6	no.	
	Supply and laying of 3x2.5sqmm copper flexible cable in 25mm PVC	150	mtr	
	conduit for submersible pump. Cable is to be laid from nearest			
8.1	Light/power DB upto motor through starter			
	Supply and laying of 3x4sqmm copper flexible cable in 25mm PVC	40	mtr	
0.0	conduit for UPS DB	10		
8.2				
9a				
	fITTING/EXISTING ELECTRICAL, PANNELS ETC			
	Erection, testing & commissioning of following sizes of cable			
	end terminations with double compression gland for 1.1 kV			
	grade, XLPE insulated, Al/ Cu Conductor cable (Makes- HNI / BBI / Commet)			
	cables connected to different existing floor panels DB's, Fire	1	Job	
	Alarm Panel, Water Pump, from Metering Panel to VCB Panel,			
	VCB to Transformer, Transformer to LD Panel, DG Set 2 No. to ATS			
	Panel, LT Panel to APFC Panel, LD Panel to AC Panel and also as			
	per site.			
9b	with reference to S.N.9a Various Test Report/clearance certificate	1	Job	
90	of installations such as all panels (HT/LT/floor panels), cables	I	JOD	
	(HT/LT), ATS switches/MCCB/ACB/VCB, floor DBs, all earthing,			
	details of electrical equipments like pumps, transformers, APFC etc,			
	as required by PSPCL authority from HT Contractors/ electrical			
	inspector.			
10	REPAIR TO APFC PANEL			
	Repair, Testing, commissioning and make in operation of			
	existing APFC Panel with replacement of old capacitors			
	and APFC (if Required)The Existing panel is factory made and			
	floor mounted, Auto manual for power factor correction of 300			
	KVA capacity having 3 phase MD (XL) type power capacitors,			
	required number of steps given below provided with the digital			
	display and setting. The Detail of			
	Esixting APFC panel 300 KVR as follow:			
	300 KVR Capacitor in 12 steps	1	Job	
	(50+50+50+50+50+25+10+10+5) (300 KVR)			
	In corner evicting			
	In corner existing Bus Bar existing			
	12 step Digital APFC relay Make Havells/L&T/Schnidor. (If.			
	Requried)			
L				I

	Out goings:-			
	The all cables, thimbels, wires, power cables, ferrules also included			
	as and where required inclusive of price.			
11	Testing, comissioning of Existing VCB panel including termination of existing input and output cables with double compression gland for 1.1 kV grade, XLPE insulated, AI/ Cu Conductor cable complete as required. The testing report is to be submitted as per PSPCL requirement	1	job	
12	Installation,Testing and comissioning of existing 12/24 DC Powerpack for charging the batten; at HT VCB Panels	1	job	
13	Supply Installation of CT/PT Meter box only as per PSEB	1	job	
14	Supply and installation of 10 no. 63amp, 4P, 25KA, MCCB in existing AC panel by removing existing switch and making arrangement in MCCB cover. Termination of existing 3.5x400sqmm al. armoured cable in existing panel and termination of existing 10 no. 4x16sqmm armoured copper cable in the panel with double compression gland for 1.1 kV grade, XLPE insulated, Al/ Cu Conductor cable. Supply, installation and connection of one 800amp four strips aluminium bus bar & connection with existing bus bar in panel and S/F of side panel sheet of size of 5.5ftx2.0ft having thickness of 2mm . Testing and comisssioning of AC panel complete in all respect	1	job	
15	Supply and installation of 2 no. 63amp, 4P, 25KA, MCCB with enclouser and end termination of existing two 4x16sqmm copper armoured cables. The items need to be installed on the rooftop near AC panel.	2	nos	
16	Testing and comissioning of existing transformer of 1000KVA complete as required to operationalise the transformer including dehydration of transformer oil.	1	Job	
17	LT Cables			
а	Supply, laying, testing & commissioning of following sizes of Al/ Cu. conductor 1.1 kV grade, armoured, XLPE insulated LT Cables/ Control Cables including necessary cleats, clamps etc. (Cables shall be partly laid in Pipes, O/H cable tray, on wall, buried in ground) (Make- Ecko / havells/ polycab / skyline/ pyemen)			
	3.5C – 400 (AL.) Armoured XLPE Cable	60	Mtr	
	3.5C – 300 (AL.) Armoured XLPE Cable 3.5C – 185 (AL.) Armoured XLPE Cable	85 20	Mtr Mtr	
17.3	4C – 16 (Cu.) Armoured XLPE Cable (AC outdoor to AC panel)	<u>20</u> 40	Mtr	
18.0	Supply, erection, testing & commissioning of following sizes of cable end terminations with double compression gland for 1.1 kV grade, XLPE insulated, Al/ Cu Conductor cable (Makes- HNI / BBI / Commet)			
	3.5C – 400 (AL.) Armoured XLPE Cable	4	each	
	3.5C – 300 (AL.) Armoured XLPE Cable	4	each	
	3.5C – 185 (AL.) Armoured XLPE Cable	2	each	
10.6	4C – 16 (Cu.) Armoured XLPE Cable	10	each	

19	COMMUNICATION			
19.1	Networking for computer networking starting from mounting rack with UTP CAT-6 cable in existing raceway including providing and fixing I/O plates and SMB complete with all networking accessories etc complete as reqd. Note : flexible pipe not to be used any where. (Make LUCENT/HCL /IBM/ AMP/ KRONE/DLINK/ MOLEX)	40	Each	
19.2	Providing, fixing and testing of I/O plates and SMB complete with all networking accessories like RJ connector and ferruling with existing cat-6 LAN Cable etc complete as reqd. Note : flexible pipe not to be used any where. (Make LUCENT/HCL /IBM/ AMP/ KRONE/DLINK/ MOLEX	250	Each	
20	Supply, installation, testing and commissioning of 24-port Patch Panel (Makes LUCENT /HCL /IBM/ AMP/ KRONE/DLINK/ MOLEX	18	Each	
21	Supply,Installation, testing and commissioning of mounted rack 15"	1	Each	
22	supply, installation, testing and commissioning of factory made patch cable CAT-6 complete with 2 no. connectors etc. complete as reqd. Makes LUCENT /HCL /IBM/ AMP/ KRONE/DLINK/ MOLEX			
а	(a) 1 mtr. Long	290	Each	
b)	(b) 2 mtr. long	200	Each	
c)	(c) Data cable CAT-6 with connector wiring for telephone points with 0.5 mm dia 2 pair insulated	<u>300</u> 40	Each Each	
23.1	annealed tinned electrolatic copper conductor in in existing raceway etc. with suitable size of G.I. box modular plate and cover in front on surface or in recess including providing and fixing modular type telephone socket outlet and making necessary connections etc. complete as reqd. Makes Delta/ finolex / polycab			
23.2	Supply, fixing and testing of G.I. box including modular plate and cover in front on surface or in recess including providing and fixing modular type telephone socket outlet and making necessary connections with existing telephone cable etc. complete as reqd. Makes Delta/ finolex / polycab	160	Each	
24	Supply & fixing of 20 pair FRP/PVC/Metal junction box with KRONE	12	Each	
25	supply, installation, testing and commissioning of 20 pair telephone unarmoured cable as required. (Make-finolex/delton/polycab)	100	mtr.	
26	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular socket, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. (Makes- Finolex / polycab / havells / skyline / pyemen) Including Wiring circuit/submain wiring along with earth wire with the following size of PVC single core FRLS copper conductor wire in 2mm thickness PVC pipe as required: 2x2.5 sq mm + 1x1.5 sq mm earth wire (Makes-Finolex / polycab / havells / skyline / pyemen)			
(a)	Primary point (light / fan controlled by one switch)	100	Each	
		100		

(b)	Two light point controlled by one switch	15	Each	
	5AMP One plug point (Anchor /Crabtree / North-West / REO)	15	Each	
(d)	Supplying and fixing of 1 No.15 amp flush type 5 pin socket and 1 No. 16 amps switch cover plate, 5 sided G.I. Boxes for housing switches and sockets and earthing complete as required (for Power Point) GI Boxes to have earth pin for body earthing makes (Anchor /Crabtree / North-West / REO) Including the cost of wiring 2x2.5+1x1.5 FRLS. PVC insulated copper conductor single core cable etc as required.(Makes-Finolex / polycab / havells / skyline / pyemen)	10	Each	
е	Supply and fixing of 5amp modular switch with modular plate, suitable GI box and connection with existing copper wire.	40	Each	
f	Supply and fixing of plug point including providing 5amp modular switch and socket with modular plate, connection with existing copper wire and GI box.	10	Each	
G	Making necessary arrangements for shifting of Circuit wiring of Switch board inside record/locker room to near entrance door using wiring 2x2.5+1x1.5 FRLS. PVC insulated copper conductor single core cable etc as required.(Makes-Finolex / polycab / havells). The wires are to be terminated on industrial plug and socket mentioned at S.N. 7a.	7	JOb	
27	Supply and fixing of Heat shinkable cable jointing kit for existing alluminium armoured cables of following size:			
27.1	3.5x400sqmm	4	Each	
27.2	3.5x300sqmm	4	Each	
27.3	3.5x120sqmm	2	Each	
27.4	3.5x95sqmm	2	Each	
27.5	3.5x70sqmm	2	Each	
	TOTAL PART-A			
<u> </u>	PART- B			
1.1	SITC of 36 watt recess mounted LED Light panel suitable for 2' x 2' modular/gypsum ceiling with assembly complete with including making necessary frames & connections etc. Complete as reqd. Makes Philips / Crompton / Bajaj /Wipro	15	Each	
1.2	Shifting of existing 36 watt recess mounted LED Light panel suitable for 2' x 2' modular/gypsum ceiling with assembly complete with including making necessary frames & connections etc. Complete as reqd. to new location as per requirement	30	Job	
2	SITC of 15 watt recess mounted LED down lighter with assembly complete with including making necessary connections etc. Complete as reqd. (Makes Philips / Crompton / Bajaj /Wipro)	25	Each	
3	Supply and fixing of LED type fitting 20 watt, 4 feet (Stair case, Electrical Panel room etc.(Makes Philips / Crompton / Bajaj /Wipro)	60	Each	

4	Supply and installation of Matal bady 13" size medium duty	18	Each	
4	Supply and installation of Metel body 12" size medium duty	10	Each	
	exhaust fan model Drift Air. and louvr (Make:Crompton High			
	Breeze/ usha			
5	Supply and installation of 15" size medium duty exhaust fan	4	Each	
	heavy duty, 4 ploe. (Make: Crompton Breeze/ usha / Bajaj			
	(Necessary framing, wall cutting & finishing to be done by			
	Contractor)			
	Automatic Programmable Time Switch 24 Hour for Exhaust fan in	2	Each	
6	UPS Room and Glow Sign Borad (Make: L&T or			
	equivelent to Legrand/Havells/Seimens)			
7	S/F of 48" Ceiling fan with regulator, hanging hook etc	10	Each	
	complete as regd. Crompton High Breeze/ usha / Bajaj			
8	Supply Installation, testing & commissioning of LED STRIP light			
°	with driver and Accessories complete as required (MS			
	CROMPTON or equivalent of WIPRO , PHILLIPS, BAJAJ etc.			
a)	Blue Colour Cat No.LST 20 BL(M/s Crompton or equivalent of	50	mtr	
aj	WIPRO, PHILLIPS, BAJAJ etc.)	50		
<u> </u>				
b)	Warm white Cat No. 38389 (M/S Philips or equivalent of	50	mtr	
	WIPRO ,			
9	Supply, installation testing comiissioning of 3HP water lifting pump			
	with Direct online starter of suitble rating (make			
	kirloskar/Crompton/havells) in basement -1 and basement-2. The	4	each	
	cost of removing existing pump to be include in the rates quoted			
	Total - Part B			
	Total Part-A+B			
	IViai Fail-A+D			