STATE BANK OF INDIA : ELECTRICAL BOQ

	BRANCH NAME:SSI- PEENYA				
SLNo.	DESCRIPTION PART - A	UNIT	QTY	RATE	AMOUNT
А.	PART - A MV PANELS & DISTRIBUTION BOARDS				
	Supply, installation, testing and commissioning of M.V. panels and switch gears suitable for 415V, 3 phase, 4 wire, 50Hz power distribution system. The panel shall be free standing Wall / floor mounting type 14G/16G sheet steel enclosed, flush front with single aluminium bus bars and separate earth bus to be provided through out the length of the panel. The incoming and out going feeders breakers, changer over switches, fuses indicating lamps shall be accomadated in a modular multitier arangement. Minimum clearance of 400mm shall be provided from the floor level to the bottom most termination point adequate size cable alley and bus bar chamber shall be provided, all round the panel and it shall be connected through solid bus bars. Flexible cable links are not acceptable .				
	Bus bars shall be provided with sleeves or heat resistant insulated paint. The paint shall be suitable for both top/bottom cable entry. The minimum fault rupturing capacity of all incoming and out going breakers/ switches shall be as per SLD only. The panel shall be painted in conformity with the relevant IS code. The panel shall be fabricated only after obtaining approval of the GA drawings. The rate shall also include cost of civil works including fixing accessories, all complete as required.				
	MAINS & CHANGE OVER PANEL - Manual (EB& DG)	Set	1		
	Incomer : i) 1 no. 200A TPN MCCB				
	ii) 1 sets of RYB indicating lamps & control MCB's Outgoing:				
	 i) 2 nos. 100A TPN MCCB, 3 no. 40A TP MCB for Capacitor Panel ii) 1 no, 160A, 4P COS (ROTARY TYPE MODULE) iii) 2 sets of RYB indicating lamps & control MCB's FOR EB &DG iv). 160 amps Aluminium (2 sets)Double Bus Bars for EB and DG out put's as required for taking Output to Different VDB's 				
	Capacitor PANEL Incomer: to be connected directly to EB Bus with MCB Control 3 X10 kVAR capacitor, of approved make all the 3 set of Cap Panel shall be in a separate Metal Box with powder coating to be connected to Bescom Power	SET	1		
2.0	MCB DISTRIBUTION BOARDS : ALL DOUBLE DOORS - ABB,SCHNIDERS,INDOASIAN(OPTIPRO),HAVELLS,LEGRANDETC				
	Supply, installation, testing and commissioning of the following cubicle type 1.2 mm thick CRCA sheet steel enclosed powder coated with approved shade and partitions to segregate phase with approved covers, single / double door, factory made recessed in wall or surface mounted final distribution boards of the following description. All final DB's shall have outgoing with internal wiring brought upto terminal block for external cable connections.				
	NOTE : 1) Surface mounted DB's on walls shall be provided with suitable size frame work and neatly grouted on to wall and DB shall be fixed on to the frame work using bolts & nuts and other fixing accessories.				
	DB's conceald in wall shall include cut of necessary civil works and other fixing accessories. JThe DB's shall be horizontal / vertical type as per configuration of incoming/outgoing feeders.				
	4)The DB's shall be holizontal / vertical type as per comparation of mechanizourgoing redicts.				
2.1					
2.1	MDB VTPN MCCB DB for EB supplies to HVAC				
	Incomer: 1 No.100A, 3P MCCB ,16ka				
	Outgoing:				
	12Nos. of 10/16/25 A SP MCBs (D curve) 2 No's 63Amps TP MCBs (C/D curve)	Set	1		
	LDB/UPS DB - Type 1 FOR ATM load				
	SPN MCB DB Incomer:				
	2x No,40A, 2P, MCB (C or D curve)				
	Outgoing: 6Nos. of 16/25A, SP, MCBs (B/C curve)	Set	1		
2.3	LDB DB - Type 2 FOR BRANCH	ber			
	ETPN MCB DB Incomer:				
	1 No.63A, 4P, RCCB(0-30mA) + MCB (B curve)				
	Outgoing: 16Nos. of 6/10/16A, SP, MCBs (B curve)	Set	1		
2.4	PDB FOR BRANCH		_		
	ETPN MCB DB Incomer:				
	1 No. 40A. 4P. RCCB (0-100mA) + MCB(C curve)				
	Outgoing: 8 Nos. of 16/20/25/32 A, SP. MCBs (C curve)	Set	1		
	UPS & Critical DB				
	VTPN - MCCB DB Incomer:				
	1 No, 80A-3P MCCB ,16ka				
	Outeoine: 6 Nos. of 25/32 A SP MCBs (C/D curve)				
26	3NO's x63 Amps TP MCB	Set	1		
	Computer DB - Type 1 6 WAY TPN MCB DB				
	Incomer: 2x 40A, 2P, MCB (C/D curve)				
	Outgoing:	G :			
2.7	14 Nos. of 6/10 A SP MCBs (C/D curve) Computer DB - Type 2	Set	1		
	ITTEN MCD DD Nos. of 6/10 A SP MCBs (D curve)	Set	0		
2.8		50			
	6 way SPN MCB DB				
	Incomer: 1 No. 40A, DP MCB (C/D curve)				
	Outgoing:	G :			
	4 Nos. of 16/25 A SP MCBs (C/D curve)	Set	1		

3.0	Supply, installation, testing and commissioning following sizes isolator CONTROLS WITH 4 P , ROTARY TYPE				
	MCCB'S in metallic enclosure- Factory Fabicated with Customized enclosures as req . The isolator shall be wall				
	mounted using necessary brackets and fixing accessories.	C at	1		
	100 AMPS, 4P MCCB's to be used as an Isolator/Master Control FOR HVAC & 1X63 Amps MCB for Lighting loads IN SAME ENCLOUSURE Metal Fabricated BOX of required sizes.	Set	1		
4.0	Supply, installation, testing and commissioning following sizes MCB in metallic enclosure. The MCB shall be wall mounted using necessary brackets and fixing accessories.				
a)	63A, DP MCB (D curve)	Set	4		
b)	63A, 4P MCB (D curve) PART - A TOTAL AMOUNT	Set	3		
	PART - B				
B.	LT CABLES AND CABLE END TERMINATION :				
1.0	Supply & Laying of 1100V grade, XLPE/ PVC insulated, PVC sheathed, Aluminium / copper conductor, steel armoured				
	cables. The cable shall be laid in exsiting trench, cable tray / clamped on to the walls using necessary fixing accessories. The				
	cable shall be provided with cable identification tags made out of Aluminium strip, engraved with cable size and the routing.				
	(Note : cost of cable tray, supports, excavation, sand cushioning, brick protection and back filling measured separately).				
1101	2.50 1000 mm VI DE 0-14	N	30		
	3.5C , 120Sq.mm XLPE Cable 3.5 C 50 Sq.mm AYFY Cable	M	70		
	3.5 C 35 Sq.mm AYFY Cable	M	60		
	3.5 C 25 Sq.mm AYFY Cable	М	120		
2.0	CABLE END TERMINATIONS:				
	Supply and providing end termination for below listed PVC insulated, PVC sheathed, aluminium conductor, steel armoured,				
	1100V grade, cable using brass cable glands and copper lugs etc, all complete as required.				
2.4	3.5C X 120Sq.mm XLPE Cable	set	2		
	3.5C 50Sq.mm XLPE Cable	Set	6		
2.5	3.5C 35Sq.mm XLPE Cable	Set set	4 8		
	Supply and fixing of hot dipped galvanized GI ladder type cable tray, conforming to IEC- 61537. The cable tray shall be	sei	0		
2.0	supplied in standard length of 3000mm. The rate shall include cost of necessary fixing accessories like bends, off sets, collar,				
	Tee, fish plate etc., as required. Note : The cost of supports shall be measured separately				
3.1	200mm width x 50 mm height x 1.5 mm thick	Rmtr	6		
4.0	Supply and fixing of 8mm threaded rod supports include bolts, nut & washer	Rmtr	250		
5.0	Supply and fixing of 16swg GI sheet perforated C channels 1" for horizonatal support to carry pipes (support channel)				
6.2	Oreacher and Galler and Ellipside and the second of the	Mts	125		
6.0	Supply and fixing of UPVC trunking. The rate shall include cost of necessary fixing accessories as required.				
a)	UPVC Trunking 200 x 50 mm	Mts	6		
	PART - B TOTAL AMOUNT PART - C				
с.	WIRING SYSTEM				
	Supply & Wiring for Lights, Ceiling fans, exhaust fan and 6A socket outlets using 3 x 1.5 sqmm flexible copper, 1100 volts				
	grade PVC insulated FRLS wires drawn through 2mm thick, suitable size FR PVC conduit in concealed manner using				
	necessary conduit accessories like junction boxes, Switch boxes, modular double plate and inner plate shall be of metal, bends,				
	collars, clamps, ceiling roses, 6A/16A switches, Fan regulator and hook boxes, etc., and shall be flush mounted in brick wall or				
	in the built up furnitures or on the surface of wall for surface installation as required. The rate for point wiring shall include the wiring from first point (light/switch) and then looping between lights/fans/6A socket outlets etc., Also the rate shall include				
	earthing of each light, fan outlet boxes, switch control boxes, 6A sockets. (switches & sockets shall be of Anchor roma make				
	/equivalent). The rate shall also include cost of civil works involved in fixing of boxes, replastering of walls chased. All the				
	switch / sockets shall have stickers for identification				
1					
a)		Nos	70		
a) b)	Single light point controlled by a 6A SP switch. Single light point controlled by 2nos. 2Way 6A SP switch.	Nos	70		
	Single light point controlled by a 6A SP switch. Single light point controlled by 2nos. 2Way 6A SP switch. Two light point controlled by a 6A SP switch		1 30		
b) c) d)	Single light point controlled by a 6A SP switch. Single light point controlled by 2nos. 2Way 6A SP switch. Two light point controlled by a 6A SP switch Two light point controlled by 2nos. 2Way 6A SP switch.	Nos Nos	1 30 0		
b) c) d) e)	Single light point controlled by a 6A SP switch. Single light point controlled by 2nos. 2Way 6A SP switch. Two light point controlled by a 6A SP switch Two light point controlled by 2nos. 2Way 6A SP switch. Three light points controlled by a 6A SP switch	Nos Nos Nos	1 30 0 15		
b) c) d) e) f)	Single light point controlled by a 6A SP switch. Single light point controlled by a 6A SP switch. Two light point controlled by a 6A SP switch Two light point controlled by 2nos. 2Way 6A SP switch. Three light points controlled by a 6A SP switch Ceiling fan point controlled by a 6A SP switch	Nos Nos Nos	1 30 0 15 6		
b) c) d) e) f) g)	Single light point controlled by a 6A SP switch. Single light point controlled by a 6A SP switch. Two light point controlled by a 6A SP switch Two light point controlled by 2nos. 2Way 6A SP switch. Three light points controlled by a 6A SP switch. Ceiling fan point controlled by a 6A SP switch Exhaust fan point (Single phase) controlled by a 6A SP switch and ceiling rose near the exhaust fan.	Nos Nos Nos Nos	1 30 0 15 6 4		
b) c) d) e) f)	Single light point controlled by a 6A SP switch. Single light point controlled by 2nos. 2Way 6A SP switch. Two light point controlled by 2nos. 2Way 6A SP switch Two light points controlled by a 6A SP switch. Three light points controlled by a 6A SP switch. Ceiling fan point controlled by a 6A SP switch Ceiling fan point controlled by a 6A SP switch and without fan regulator. Exhaust fan point (Single phase) controlled by a 6A SP switch and ceiling rose near the exhaust fan. Supply and wiring for call bell point with 3 x 1.5sqnm PVC insulated copper conductor FRLS wires in 20mm dia FR PVC	Nos Nos Nos Nos	1 30 0 15 6		
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b) c) d) c) f) g) h)	Single light point controlled by a 6A SP switch. Single light point controlled by a 6A SP switch. Two light point controlled by a 6A SP switch. Two light point controlled by a 6A SP switch. Time light point controlled by a 6A SP switch. Ceiling fan point controlled by a 6A SP switch. Exhaust fan point controlled by a 6A SP switch. Exhaust fan point controlled by a 6A SP switch and without fan regulator. Exhaust fan point (Single phase) controlled by a 6A SP switch and ceiling rose near the exhaust fan. Supply and wiring for call bell point with 3 x 1.5 sqnum PVC insulated copper conductor FRLS wires in 20mm dia FR PVC conduit, including providing bell push with outlet box, inter-connection to the lighting circuit for power supply. LIGHTING WIRING / SUB MAINS/UPS/ AC & Raw POWER/ATM UPS & RP wirings :	Nos Nos Nos Nos Nos	1 30 0 15 6 4		
b) c) d) c) f) g) h)	Single light point controlled by a 6A SP switch. Single light point controlled by 2nos. 2Way 6A SP switch. Two light point controlled by 2nos. 2Way 6A SP switch. Two light point controlled by 2nos. 2Way 6A SP switch. Three light point controlled by a 6A SP switch. Ceiling fan point controlled by a 6A SP switch. Exhaust fan point controlled by a 6A SP switch. Supply and wiring for call bell point with 3 x 1.5sqnm PVC insulated copper conductor FRLS wires in 20mm dia FR PVC conduit, including providing bell push with outlet box, inter-connection to the lighting circuit for power supply. LIGHTING WIRING / SUB MAINS/UPS/ AC & Raw POWER/ATM UPS & RP wirings : Supply & Drawing power wiring circuit /sub mains using flexible, copper conductor, FRLS wires of 1100V grade, PVC	Nos Nos Nos Nos Nos	1 30 0 15 6 4		
b) c) d) c) f) g) h)	Single light point controlled by a 6A SP switch. Single light point controlled by a 6A SP switch. Two light point controlled by a 6A SP switch. Two light point controlled by a 6A SP switch. Time light point controlled by a 6A SP switch. Ceiling fan point controlled by a 6A SP switch. Exhaust fan point controlled by a 6A SP switch. Exhaust fan point controlled by a 6A SP switch and without fan regulator. Exhaust fan point (Single phase) controlled by a 6A SP switch and ceiling rose near the exhaust fan. Supply and wiring for call bell point with 3 x 1.5 sqnum PVC insulated copper conductor FRLS wires in 20mm dia FR PVC conduit, including providing bell push with outlet box, inter-connection to the lighting circuit for power supply. LIGHTING WIRING / SUB MAINS/UPS/ AC & Raw POWER/ATM UPS & RP wirings :	Nos Nos Nos Nos Nos	1 30 0 15 6 4		
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b) c) d) c) f) g) h) 2.0	Single light point controlled by a 6A SP switch. Single light point controlled by 2nos. 2Way 6A SP switch. Two light point controlled by 2nos. 2Way 6A SP switch Two light point controlled by 2nos. 2Way 6A SP switch. Two light point controlled by a 6A SP switch Ceiling fan point controlled by a 6A SP switch. Three light points controlled by a 6A SP switch. Three light points controlled by a 6A SP switch. Supply and wiring for call bell point with 3 x 1.5sqnm PVC insulated copper conductor FRLS wires in 20mm dia FR PVC conduit, including providing bell push with outlet box, inter-connection to the lighting circuit for power supply. LIGHTING WIRING / SUB MAINS/UPS/ AC & Raw POWER/ATM UPS & RP wirings : Supply & Drawing power wiring circuit / sub mains using flexible, copper conductor, FRLS wires of 1100V grade, PVC insulated wires drawn in 2mm thick suitable size FR PVC conduit. The rate shall also include running of PVC insulated copper conductor as earth wire. All circuits starting from the respected db should have ferrulling arrangements. 3 x 1.5 sqmm Copper wires in 20 mm dia PVC conduit	Nos Nos Nos Nos Nos	1 30 0 15 6 4		
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b) c) d) c) f) g) h) h) b) c) d) c) c)	Single light point controlled by a 6A SP switch. Single light point controlled by a 6A SP switch. Two light point controlled by a 6A SP switch. Two light point controlled by a 6A SP switch. Two light point controlled by a 6A SP switch. Celling fan point controlled by a 6A SP switch. Three light point controlled by a 6A SP switch. Three light point controlled by a 6A SP switch. Celling fan point controlled by a 6A SP switch. Exhaust fan point controlled by a 6A SP switch and without fan regulator. Exhaust fan point (Single phase) controlled by a 6A SP switch and ceiling rose near the exhaust fan. Supply and wiring for call bell point with 3 x 1.5 sqmm PVC insulated copper conductor FRLS wires in 20mm dia FR PVC conduit, including providing bell push with outlet box, inter-connection to the lighting circuit for power supply. LIGHTING WIRING / SUB MAINS/UPS/ AC & Raw POWER/ATM UPS & RP wirings : Supply & Drawing power wiring circuit / sub mains using flexible, copper conductor, FRLS wires of 1100V grade, PVC insulated copper conductor, set and the wires of 1100V grade, PVC insulated copper conductor as earth wire. All circuits starting from the respected db should have ferrulling arrangements. 3 x 1.5 sqmm Copper wires in 20 mm dia PVC conduit. 2x 2.5+1 x 1.5 sqmm Copper wires in 20 mm dia PVC conduit. 2 x 6.0 +1X2.5 sqmm Copper wires in 32 mm dia PVC conduit. 2x 4.0+1X4 sq mm Copper wires in 32 mm dia PVC conduit.	Nos Nos Nos Nos Nos Rmtr. Rmtr. Rmtr. Rmtr. Rmtr.	1 30 0 15 6 4 1 1 250 2200 2200 2200 80 200		
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b) c) d) c) f) g) h) h) c) c) d) c) f) g)	Single light point controlled by a 6A SP switch. Single light point controlled by 2nos. 2Way 6A SP switch. Two light point controlled by 2nos. 2Way 6A SP switch. Two light point controlled by a 6A SP switch. Two light point controlled by a 6A SP switch. Celling fan point controlled by a 6A SP switch. Exhaust fan point controlled by a 6A SP switch and without fan regulator. Exhaust fan point (Single phase) controlled by a 6A SP switch and celling rose near the exhaust fan. Supply and wiring for call bell point with 3 x 1.5sqmm PVC insulated copper conductor FRLS wires in 20mm dia FR PVC conduit, including providing bell push with outlet box, inter-connection to the lighting circuit for power supply. LIGHTING WIRING /SUB MAINS/UPS/AC & Raw POWER/ATM UPS & RP wires i Supply & Drawing power wiring circuit /sub mains using flexible, copper conductor, FRLS wires of 1100V grade, PVC insulated wires drawn in 2mm thick suitable size FR PVC conduit. The rate shall also include running of PVC insulated copper conductor as earth wire. All circuits starting from the respected db should have ferrulling arrangements. 3 x 1.5 sqmm Copper wires in 20 mm dia PVC conduit. 2 x 4.0 +1X2.5sqmm Copper wires in 20 mm dia PVC conduit. 2 x 6.0 +1X4sqmm Copper wires in 20 mm dia PVC conduit. 4 x4 squm +1X4 sq mm Copper wires in 25 mm dia PVC conduit. 4 x4 squm +1X4 squ mn Cooper wires in 32 mm dia PVC conduit. 4 x 1.6.0 squmm +2 x 6.0 sq.mm copper wires in 38 mm dia PVC conduit. POWER RECEPTACLES DOMESTIC TYPE:	Nos Nos Nos Nos Nos Rmtr. Rmtr. Rmtr. Rmtr. Rmtr.	1 30 0 15 6 4 1 1 250 2200 2200 200 80 20 60		
b) c) d) c) f) g) h) h) c) c) d) c) f) g)	Single light point controlled by a 6A SP switch. Single light point controlled by a 6A SP switch. Two light point controlled by a 6A SP switch. Two light point controlled by a 6A SP switch. Two light point controlled by a 6A SP switch. Three light point controlled by a 6A SP switch. Three light point controlled by a 6A SP switch. Three light point controlled by a 6A SP switch. Exhaust fan point controlled by a 6A SP switch and without fan regulator. Exhaust fan point (Single phase) controlled by a 6A SP switch and ceiling rose near the exhaust fan. Supply and wiring for call bell point with 3 x 1.5sqmm PVC insulated copper conductor FRLS wires in 20mm dia FR PVC conduit, including providing bell push with outlet box, inter-connection to the lighting circuit for power supply. LIGHTING WIRING / SUB MAINS/UPS/ AC & Raw POWER/ATM UPS & RP wirings : Supply & Drawing power wiring circuit / sub mains using flexible, copper conductor, FRLS wires of 1100V grade, PVC insulated copper conductor, search wire. All circuits starting from the respected db should have ferrulling arrangements. 3 x 1.5 sqmm Copper wires in 20 mm dia PVC conduit. 2 x 6.0 +1/X3.5sqmm Copper wires in 20 mm dia PVC conduit. 2 x 6.0 +1/X3.sqmm Copper wires in 20 mm dia PVC conduit. 4 x 6 sqmm +1x4 sq mm Copper wires in 20 mm dia PVC conduit. 4 x 6 sqmm +1x4 sq mm Copper wires in 20 mm dia PVC conduit. 4 x 6 sqmm +1x4 sq	Nos Nos Nos Nos Nos Rmtr. Rmtr. Rmtr. Rmtr. Rmtr.	1 30 0 15 6 4 1 1 250 2200 2200 200 80 20 60		
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b) c) d) e) f) g) g) h) h) c) c) d) c) d) d) e) f) f) f) f) f) f) f) f) f) f	Single light point controlled by a 6A SP switch. Two light point controlled by a 6A SP switch. Two light point controlled by a 6A SP switch. Two light point controlled by a 6A SP switch. Three light point controlled by a 6A SP switch. Ceiling fan point controlled by a 6A SP switch and without fan regulator. Exhaust fan point (Single phase) controlled by a 6A SP switch and ceiling rose near the exhaust fan. Supply and wiring for call bell point with 3 x 1.5sqmm PVC insulated copper conductor FRLS wires in 20mm dia FR PVC conduit, including providing bell push with outlet box, inter-connection to the lighting circuit for power supply. LIGHTING WIRING / SUB MAINS/UPS/AC & Raw POWER/ATM UPS & RP wirengs : Supply & Drawing power wiring circuit /sub mains using flexible, copper conductor, FRLS wires of 1100V grade, PVC insulated wires drawn in 2mm thick suitable size FR PVC conduit. 2x 4.0 +132.5sqmm Copper wires in 20 mm dia PVC conduit. 2x 4.0 +132.5sqmm Copper wires in 20 mm dia PVC conduit. 2x 4.0 +132.5sqmm Copper wires in 20 mm dia PVC conduit. 4x4 squm +134 sq mm Copper wires in 20 mm dia PVC conduit. 4x4 squm +134 sq mm Copper wires in 20 mm dia PVC conduit. 4x4 squm =10 sper wires in 32 mm dia PVC conduit. 4x4 squm =10 sper wires in 32 mm dia PVC conduit. 4x6 somm +12 squm copper wires in 32 mm dia PVC conduit. 4x6 somm +12 squm copper wires in 32 mm dia PVC conduit. <	Nos Nos Nos Nos Nos Nos Rmtr.	1 30 0 15 6 4 4 1 1 250 2200 2200 80 80 200 80 200 80 200 80 200 80 200 20		
b) c) d) c) f) g) g) h) b) c) c) d) d) c) f) d) d) c) f) d) d) c) f) f) b) c) f) f) f) f) f) f) f) f) f) f) f) f) f)	Single light point controlled by a 6A SP switch. Two light point controlled by a 6A SP switch. Two light point controlled by a 6A SP switch. Two light point controlled by a 6A SP switch. Three light point controlled by a 6A SP switch. Three light point controlled by a 6A SP switch and without fan regulator. Exhaust fan point (Single phase) controlled by a 6A SP switch and ceiling rose near the exhaust fan. Supply and wiring for call bell point with 3 x 1.5sqmm PVC insulated copper conductor FRLS wires in 20mm dia FR PVC conduit, including providing bell push with outlet box, inter-connection to the lighting circuit for power supply. LIGHTING WIRING / SUB MAINS/UPS/AC & Raw POWER/ATM UPS & RP wiregs : Supply & Drawing power wiring circuit /sub mains using flexible, copper conductor, FRLS wires of 1100V grade, PVC insulated wires drawn in 2mm thick suitable size FR PVC conduit. 2x 5.0 + 1X 5.5 sqmm Copper wires in 20 mm dia PVC conduit. 2x 4.0 + 1X2.5sqmm Copper wires in 20 mm dia PVC conduit. 2x 4.0 + 1X2.5sqmm Copper wires in 20 mm dia PVC conduit. 4x4 sqmm +1x4 sqm mCopper wires in 20 mm dia PVC conduit. 4x4 squm +1x4 sq anm Cooper wires in 20 mm dia PVC conduit. 4x4 squm +1x4 sqm mCooper wires in 25 mm dia PVC conduit. 4x4 squm +1x4 sq anm Cooper wires in 32 mm dia PVC conduit. 4x4 squm +1x4 sq anm Cooper wires in 32 mm dia PVC conduit. 4x 10.0 sq.mm + 2 x 6.0 sq.mm cooper wires	Nos Nos Nos Nos Nos Nos Rmtr. Rmtr. Rmtr. Rmtr. Rmtr. Rmtr. Rmtr. Rmtr. Rmtr. Nos. Nos. Nos. Nos. Nos. Nos. Nos.	1 30 0 15 6 4 4 1 1 250 2200 200 200 80 200 80 200 80 200 80 200 80 200 80 200 20		

	PART - D			
	SUPPLY AND INSTALLATION OF LIGHT & FAN FIXTURES			
	Supply, installation, testing and commissioning of following type light and fan fixtures with all necessary fixing accessories as required. The efficacy of the LED lamp shall be not less than 100lm/Watt			
	1 x 20W, 5700K, 4 Feet LED tube, Surface/suspension light fixture with extruded Aluminum channel 4 feet with high translucent serrated milky white diffuser, robust and high-performance batten. LED luminaire shall comprise of extruded channel in thermally conductive material. High translucent serrated milky white diffuser to get glare free and smooth light distribution. Efficacy : 100 lumen/watt similar to Crompton make cat no.LDL-20-CDL/BAJAJ MAKE : BCLAB 20W WH LED or equivalent matching specifications as per NIT.	Nos.	40	
	1x 36W,5700K, 4 Feet LED tube, Surface/suspension light fixture with extruded Aluminum channel 4 feet with high translucent serrated milky white diffuser, robust and high-performance batten. LED luminaire shall comprise of extruded channel in thermally conductive material. High translucent serrated milky white diffuser to get glare free and smooth light distribution. Efficacy : 100 lumen/watt similar to Crompton make cat no.LDL-36-CDL/ BAJAJ MAKE : BCLAB 400W WH LED or equivalent matching specifications as per NIT.		4	
	15W LED Recess down Lighter Slim design ,recessed round Aluminium housing with superior light output and integral driver. Efficacy 100lm/w similar to Crompton make Cat type LCDEP-15-CDL/ BAJAJ MAKE BGSLO 15W WH or equivalent matching spec in NIT.	Nos.	30	
	5-6 W LED Recess down Lighter Slim design ,recessed round Aluminium housing with superior light output and integral driver. Efficacy 100lm/w similar to Crompton make Cat type LCDEP-06-CDL/ BAJAJ MAKE : BGSLO 6W WH or equivalent.	Nos.	64	
	36 watts,5700k, LED Recessed full lit luminaire with glare free uniform illumination with longer life and less maintenance. 2X2 LED Backlite Luminaire Recess Mounted Type comprises CRCA sheet metal body powder coated in white Efficacy : 118 lumen/watt Make: Compton- LCTLRNE-36-FO-CDL/ BAJAJ MAKE : BZRSQL 36W LED GX or equivalent matching specifications as per NIT.	Nos.	50	
	Supply and Installation of LED STRIP indoor, 24W / 5meter BAJAJ MAKE : .nxt 25W PROFFESIONAL LED STRIP IP20 NW including driver and necessary fixing accessories as required.	Mts	100	
	Supply and fixing of 5 star rated 1200mm sweep, BLDC ceiling fan without fan regulator but with remotes and shall be of Bajaj/ Crompton, Havells etc or equivalent.		8	
	Supply and fixing of 400mm wall mounted fan of Bajaj/ Crompton /Havells/ Equivalent with Metal Body only.	Nos.	16	
	Supply and fixing of 225mm dia. single phase. MEDIUM DUTY exhaust fan with necessary angle iron bracket.Makes : Bajaj/Crompton/Havells etc	Nos.	5	
1.12	Supply & fixing of Timer for UPS room Exhaust Fans- other requirements such as signagges, automatic time delay lighting controls etc as req	Nos.	1	
	PART - D TOTAL AMOUNT PART - E			
E.	EARTHING SYSTEM			
	Supply & installation of 38mm dia, 2.5 Mtr. long G.Lpipe electrode earthing station complete with manholes, brick masonry chamber, heavy duty CI covers, funnel etc., The cost shall also include providing of salt and charcoal layer by layer, excavation and back filling etc., all complete as required and shall confirm to IS - 3043.	Set	3	
	Supply & installation of 600 x 600 x 3 mm, copper plate earthing station complete with GI pipe, manholes, brick masonary chamber, heavy duty C I covers, funnel, etc., The cost shall also include providing of salt and charcoal layer by layer, excavation and back filling etc., all complete as required and shall confirm to IS - 3043.	Set	2	
	Supply, installation & connecting of G.I.tape /wire being clamped to walls, cable trays, ladders, run in existing pipes with Sleeves etc , laid underground etc.,as required including interconnection between the earth stations etc.,all complete as required. (Note : The excavation and back filling is measured separately).			
	25 x 3mm G.I. tape	M	7	
	25 x 3 mm Copper tape 2x8 swg. Cu. wire	M	8 80	
	2x8 swg. G.I. wire	М	80	
	PART - E TOTAL AMOUNT			
45, F.	PART - F TELEPHONE SYSTEM			
	Supply and laying of 2mm thick FR PVC conduit with all necessary accessories like junction boxes, pull boxes. G.I fish wires and other fixing accessories as required. The rate shall also include chasing of walls, floor and plastering of the chased portion etc; all complete as required.			
a) 2.0	and other fixing accessories as required. The rate shall also include chasing of walls, floor and plastering of the chased portion	М	300	
a) 2.0 2.1 3.0	and other fixing accessories as required. The rate shall also include chasing of walls, floor and plastering of the chased portion etc; all complete as required. 20mm dia Supply and wiring for telephone outlet with 0.51mm dia, copper conductor, PVC insulated, unarmoured, telephone cable in	M	300	
a) 2.0 2.1 3.0 a)	and other fixing accessories as required. The rate shall also include chasing of walls, floor and plastering of the chased portion etc; all complete as required. 20mm dia Supply and wiring for telephone outlet with 0.51mm dia, copper conductor, PVC insulated, unarmoured, telephone cable in existing conduit. 2 pair Supply and wiring of multicore 0.51mm, copper conductor, PVC Insulated, PVC sheathed, armoured telephone cable laid dmawn through existing trench/cable tray / wall supports with all necessary accessories as required. 5 Pair Cable	M	1200 0	
a) 2.0 2.1 3.0 a) b)	and other fixing accessories as required. The rate shall also include chasing of walls, floor and plastering of the chased portion etc; all complete as required. 20mm dia Supply and wiring for telephone outlet with 0.51mm dia, copper conductor, PVC insulated, unarmoured, telephone cable in existing conduit. 2 pair Supply and wiring of multicore 0.51mm, copper conductor, PVC Insulated, PVC sheathed, armoured telephone cable laid drawn through existing trench/cable tray / wall supports with all necessary accessories as required. 5 Pair Cable 10 Pair Cable	M M M	1200 0 40	
a) 2.0 2.1 3.0 a) b) d)	and other fixing accessories as required. The rate shall also include chasing of walls, floor and plastering of the chased portion etc; all complete as required. 20mm dia Supply and wiring for telephone outlet with 0.51mm dia, copper conductor, PVC insulated, unarmoured, telephone cable in existing conduit. 2 pair Supply and wiring of multicore 0.51mm, copper conductor, PVC Insulated, PVC sheathed, armoured telephone cable laid dmawn through existing trench/cable tray / wall supports with all necessary accessories as required. 5 Pair Cable	M M M M	1200 0	
a) 2.0 2.1 3.0 a) b) d) 4.0	and other fixing accessories as required. The rate shall also include chasing of walls, floor and plastering of the chased portion etc; all complete as required. 20mm dia 20mm dia 20m	M M M M	1200 0 40 40	
a) 2.0 2.1 3.0 b) d) 4.0 5.0 a)	and other fixing accessories as required. The rate shall also include chasing of walls, floor and plastering of the chased portion etc; all complete as required. 20mm dia 20mm dia 20m	M M M M	1200 0 40 40	

6.0					
	Supply, installation, testing and commissioning of Digital EPABX with following features				
	4 nos. Analog Trunk Interface Lines				
	upto 32 Nos. Analog Extensions Interface				
	Built in Caller ID ,				
	Inbuilt Power supply with CVT & MAY BE FURTHER extended till 8 trunk Interfacing and upto 64 extention lines, PRI				
	compatibily is required.	Nos.	1		
	Syntel or Matrix, or NEC or equivalent Makes		1		
7.0	Supply, installation, testing and commissioning of Analog table mounted telephone instrument of make Beetel B-11 /	Nos.	24		
7.0	equivalent	inos.	24		
	PART - F TOTAL AMOUNT				
	PART - G				
G.	DATA SYSTEM				
1.0	Supply and laying of 2mm thick FR PVC conduit with all necessary accessories like junction boxes, pull boxes. G.I fish wires				
1.0	and other fixing accessories as required. The rate shall also include chasing of walls, floor and plastering of the chased portion				
	etc all complete as required. The rate shah also include chasing of wans, noor and plastering of the chased portion				
	cic an complete as required.				
a)	25 mm dia	М	650		
2.0	Supply, installation of Dual RJ-45, CAT -6 information outlet with necessary back mount box and other fixing accessories.				
	(socket outlet shall be of modular of type Dilink / equivalent).	Nos.	25		
3.0	Supply, drawing and connecting of cat-6, UTP cable in existing conduit for LAN network.	М	2200		
4.0	Supply and connecting of UTP cat -6 mounting cords				
a)	4' 0" long	Nos.	50		
b)	7' 0''' long	Nos.	25		
5.0	Supply, installation, testing & commissioning of patch panel with CAT-6 I/O mounted on existing rack with all necessary				
	fixing accessories. The rate shall include cost of ferrule, numbering, stickering & necessary fixing accessories as required				
a)	24 port jack panel	Nos.	2		
6	Supply, Installation, Testing, Commissioning of 15 U, Data Rack(Wall mounted along with following Accessories as required)				
0					
	Data rack (make netrack/Bestnet or eqv) having Front Glass door, side sheets panels etc with 1 PDU each having 2x15 A+ 2x5 amps,				
	total 2 No's power sockets arrangements with Cable Manager, Accessories and cooling Fan-1 no.	Nos.	1		
	PART - G TOTAL AMOUNT				
	PART - H				
H.	TV SYSTEM				
1.0	Supply and installation of T.V. Co-axial socket outlet with inter connection of the outlet The cover plate of T.V. Co-axial	Nos	0		
	socket outlet shall match with other wiring accessories. (The socket outlet shall be of make Anchor roma /equivalent) The rate				
	shall also include cost of civil works involved in fixing of boxes.				
	shall also include cost of ervir works involved in fixing of boxes.				
	PART - H TOTAL AMOUNT				
	6				
I.	PART - H TOTAL AMOUNT				
I. 1.0	PART - H TOTAL AMOUNT PART - I	М	700		
	PART - H TOTAL AMOUNT PART -I PA SYSTEM	M	700		
1.0	PART - H TOTAL AMOUNT PART -I PA SYSTEM Supply and wiring as per colour code transparent speaker cable 1.0 sqmm PVC insulated stranded copper wires in ISI grade 20mm conduit for speakers.				
	PART - H TOTAL AMOUNT PART -I PA SYSTEM Supply and wiring as per colour code transparent speaker cable 1.0 sqmm PVC insulated stranded copper wires in ISI grade	M Nos	700		
1.0	PART - H TOTAL AMOUNT PART -I PA SYSTEM Supply and wiring as per colour code transparent speaker cable 1.0 sqmm PVC insulated stranded copper wires in ISI grade 20mm conduit for speakers. Supply and providing 9W recessed type speakers on ceiling CS 663 T Ahuja make speaker.				
1.0	PART - H TOTAL AMOUNT PA SYSTEM Supply and wiring as per colour code transparent speaker cable 1.0 sqmm PVC insulated stranded copper wires in ISI grade 20mm conduit for speakers. Supply and providing 9W recessed type speakers on ceiling CS 663 T Ahuja make speaker. PART - I TOTAL AMOUNT				
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1.0 2.0 J.	PART - H TOTAL AMOUNT PART -I PASYSTEM Supply and wiring as per colour code transparent speaker cable 1.0 sqmm PVC insulated stranded copper wires in ISI grade 20mm conduit for speakers. Supply and providing 9W recessed type speakers on ceiling CS 663 T Ahuja make speaker. PART - I TOTAL AMOUNT PART - J MISCELLANEOUS WORKS:				
1.0 2.0 J.	PART - H TOTAL AMOUNT PART -I PA SYSTEM Supply and wiring as per colour code transparent speaker cable 1.0 sqmm PVC insulated stranded copper wires in ISI grade 20mm conduit for speakers. Supply and providing 9W recessed type speakers on ceiling CS 663 T Ahuja make speaker. PART - I TOTAL AMOUNT PART - J MISCELLANEOUS WORKS: Supply and laying of 2mm thick FR PVC conduit with all necessary accessories like junction boxes, pull boxes. G.I fish wires				
1.0 2.0 J.	PART - H TOTAL AMOUNT PART -I PASYSTEM Supply and wiring as per colour code transparent speaker cable 1.0 sqmm PVC insulated stranded copper wires in ISI grade 20mm conduit for speakers. Supply and providing 9W recessed type speakers on ceiling CS 663 T Ahuja make speaker. PART - I TOTAL AMOUNT PART - J MISCELLANEOUS WORKS: Supply and laying of 2mm thick FR PVC conduit with all necessary accessories like junction boxes, pull boxes. G.I fish wires and other fixing accessories as required. The rate shall also include chasing of walls, floor and plastering of the chased portion				
1.0 2.0 J. 1.0	PART - H TOTAL AMOUNT PART -I PASYSTEM Supply and wiring as per colour code transparent speaker cable 1.0 sqmm PVC insulated stranded copper wires in ISI grade 20mm conduit for speakers. Supply and providing 9W recessed type speakers on ceiling CS 663 T Ahuja make speaker. PART - I TOTAL AMOUNT PART - J MISCELLANEOUS WORKS: Supply and laying of 2mm thick FR PVC conduit with all necessary accessories like junction boxes, pull boxes. G.I fish wires and other fixing accessories as required. The rate shall also include chasing of walls, floor and plastering of the chased portion etc., all complete as required.	Nos	12		
1.0 2.0 J. 1.0 a)	PART - H TOTAL AMOUNT PASYSTEM Supply and wiring as per colour code transparent speaker cable 1.0 sqmm PVC insulated stranded copper wires in 1SI grade 20mm conduit for speakers. Supply and providing 9W recessed type speakers on ceiling CS 663 T Ahuja make speaker. PART - I TOTAL AMOUNT PART - J MISCELLANEOUS WORKS: Supply and laying of 2mm thick FR PVC conduit with all necessary accessories like junction boxes, gull boxes. G.I fish wires and other fixing accessories as required. The rate shall also include chasing of walls, floor and plastering of the chased portion etc., all complete as required. 20mm dia Electrical safety - RUBBER mats of 1.1kV grade 1.8mx.0.9m	Nos	12		
1.0 2.0 J. 1.0 a) 2.0 3.0	PART - H TOTAL AMOUNT PART -I PASYSTEM Supply and wiring as per colour code transparent speaker cable 1.0 sqmm PVC insulated stranded copper wires in ISI grade 20mm conduit for speakers. Supply and providing 9W recessed type speakers on ceiling CS 663 T Ahuja make speaker. PART - I TOTAL AMOUNT PART - J MISCELLANEOUS WORKS: Supply and laying of 2mm thick FR PVC conduit with all necessary accessories like junction boxes, pull boxes. G.I fish wires and other fixing accessories as required. The rate shall also include chasing of walls, floor and plastering of the chased portion etc., all complete as required. 20mm dia Electrical safety - RUBBER mats of 1.1kV grade 1.8mx.0.9m Supply and fixing : of Inos First aid kit, Safety chart, Danger boards-2nos , No Admission boards-Inos	Nos M Nos	12 150 2		
1.0 2.0 J. 1.0 a) 2.0	PART - H TOTAL AMOUNT PASYSTEM Supply and wiring as per colour code transparent speaker cable 1.0 sqmm PVC insulated stranded copper wires in 1SI grade 20mm conduit for speakers. Supply and providing 9W recessed type speakers on ceiling CS 663 T Ahuja make speaker. PART - I TOTAL AMOUNT PART - J MISCELLANEOUS WORKS: Supply and laying of 2mm thick FR PVC conduit with all necessary accessories like junction boxes, gull boxes. G.I fish wires and other fixing accessories as required. The rate shall also include chasing of walls, floor and plastering of the chased portion etc., all complete as required. 20mm dia Electrical safety - RUBBER mats of 1.1kV grade 1.8mx.0.9m	Nos M Nos set	12 150 2 2		
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1.0 2.0 J. 1.0 a) 2.0 3.0	PART - H TOTAL AMOUNT PASYSTEM PART - I Supply and wiring as per colour code transparent speaker cable 1.0 sqmm PVC insulated stranded copper wires in ISI grade 20mm conduit for speakers. Supply and providing 9W recessed type speakers on ceiling CS 663 T Ahuja make speaker. PART - I TOTAL AMOUNT PART - I TOTAL AMOUNT PART - I TOTAL AMOUNT PART - J MISCELLANEOUS WORKS: Supply and laying of 2mm thick FR PVC conduit with all necessary accessories like junction boxes, pull boxes. G.I fish wires and other fixing accessories as required. The rate shall also include chasing of walls, floor and plastering of the chased portion etc., all complete as required. 20mm dia Electrical safety - RUBBER mats of 1.1kV grade 1.8mx.0.9m Supply and fixing : of I nos First aid kit, Safety chart, Danger boards-2nos , No Admission boards-1nos Dismantling of existing wiring, conduit, light fixtures, ceiling fan, exhaust fan, light plug, switch boards, DB's. LT cables, determination cables, complete dismantling of electrical components in the building and making good of the damages to surfaces, Bundling all the wires, cables, and securing of all other dismantled materials and storing it, at the location allotted /	Nos M Nos set	12 150 2 2		
1.0 2.0 J. 1.0 a) 2.0 3.0 4.0	PART - H TOTAL AMOUNT PASYSTEM PART - I Supply and wiring as per colour code transparent speaker cable 1.0 sqmm PVC insulated stranded copper wires in ISI grade 20mm conduit for speakers. Supply and providing 9W recessed type speakers on ceiling CS 663 T Ahuja make speaker. PART - I TOTAL AMOUNT PART - I TOTAL AMOUNT PART - J MISCELLANEOUS WORKS: Supply and laying of 2mm thick FR PVC conduit with all necessary accessories like junction boxes, pull boxes. G.I fish wires and other fixing accessories as required. The rate shall also include chasing of walls, floor and plastering of the chased portion etc., all complete as required. 20mm dia Electrical safety - RUBBER mats of 1.1kV grade 1.8mx.0.9m Supply and fixing or classing wiring, conduit, light fixtures, ceiling fan, exhaust fan, light plug, switch boards, DB's. LT cables, determination cables, complete dismantling of electrical components in the building and making good of the damages to surfaces, Bundling all the wires, cables, and securing of all other dismantled materials and storing it, at the location allotted / identified by the project manager within in the premises, all complete as required.	Nos M Nos set LS	12 150 2 2 1		
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