

BOQ FOR ELECTRICAL AND DATA CABLING WORKS OF PONNUR BRANCH					
S.N O	DESCRIPTION	UNIT	QTY	Rate (Rs)	Amount(Rs)
<b>INTERNAL ELECTRICAL WORKS</b>					
<b>E - 1</b>	<b>Lights Points(Including Circuit Wiring 2x2.5+1.5 Sqmm)</b>				
	Point Wiring for Light/ Fan/ Exhaust fan with 2runs of 650V grade 1.5 Sq.mm FRLS PVC & 1 run of 1.5 Sq.mm PVC insulated Copper wires , run in 25 mm dia heavy gauge PVC conduits concealed in wall / ceiling conforming to IS including all accessories such as junction boxes, conduit bends elbows and ceiling rose, anodised GI Switch box with modular switch and the box covered with front plate. (Point Wiring Include Circuit Wiring From Main Db to Switch Board with 2x2.5 +1.5 Sqmm Copper flexible wire etc)				
	<b>a</b> One Light point controlled by one 6A switch.	Nos	33		
	<b>b</b> Two Lights point controlled by one 6A switch.	Nos	10		
	<b>c</b> Exhaust fan point controlled by one switch.	Nos	3		
	<b>d</b> Ceiling fan point controlled by one switch & Electronic Step type Regulator and Concealed MS fan hook box.	Nos	4		
	<b>e</b> Supply and fixing of 6A, 3Pin Socket outlet switches of 6A rating boards for Wall Mounting Fans and (Dependant).	Nos			
	<b>i</b> Independent points	Nos	9		
	<b>ii</b> Dependent points	Nos	9		
	<b>d</b> TV. / Inverter points /Bell point	Nos	12		
<b>E - 2</b>	Supply and Wiring with the following size 650V grade FR PVC insulated Copper conductor wires in suitable <b>PVC conduit</b> including end terminations with suitable lugs.				
	a)Supply and wiring of UPS Points wiring from UPS Room DB to Individual Work Stations With required all Connections and Suitable PVC Conduites. 2runs of 2.5Sq.mm PVC wires with 1run of 1.5 Sq.mm PVC Conduite for UPS out going Wirings	Rmt	86		
	b) 2runs of 4Sq.mm PVC wires with 1run of 2.5 Sq.mm PVC Conduite	Rmt	22		
	c) 2 runs of 6 Sq.mm PVC wires with 1 run of 4 Sq.mm PVC insulated Copper earth wire in PVC in conduit. For A/C Sockets	Rmt	24		
	d) 2runs of 4.0 Sq.mm PVC wires with 1run of 1.5 Sq.mm PVC wire for Name board from the 10 A DP MCB on the main board	LS	1		
<b>E - 3</b>	<b>Light / Fan Fixtures</b>				
	Supply and Installation of following type Fluorescent/ Compact fluorescent/ Incandescent light fixtures on wall/ Ceiling including all fixing accessories such as leads,Teak wood round block etc complete as required. The Fluorescent/CFL fixtures shall be complete with Low loss copper ballast PF improvement capacitor, Bipin Rotor type lamp holder,starter, starter base, all prewired upto the terminal block. All fixtures shall be supplied with lamps. The Catalogue Numbers refers to Philips Make or equivalent				
	a) Recess mounted <b>LED Luminaire</b> 36 x 1W Class LED, Wipro make code: LM - 036 - XXX - WH - XX.	Nos	12		
	b) Recess mounted <b>LED Down lighter</b> with Pressure die cast aluminium housing (10 x 1W), Wipro make code: LD 49 - 900 - XXX - 60 - XX.	Nos	20		
	c)20W <b>LED Tube light</b> fixture Wall/ Ceiling mounted (Philips Make TMS 200/140)	Nos	11		

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<b>E - 4</b>	<b>Ceiling Fans</b>				
	Supply & Fixing of 1200 mm sweep Crompton Make High Speed Ceiling fan with standard down rod, all accessories Electrical connections. Including fixing materials required.	Nos	4		
<b>E - 5</b>	<b>Wall Mounted Fans</b>				
	Supply & Fixing of 450 mm sweep Wall mounted fan with 3 with metallic body with metallic plates of pin Plug on the lead wire of each fan all accessories Electrical connections. Including fixing materials required.	Nos	9		
<b>E - 6</b>	<b>Exhaust Fans</b>				
	Supply and Installation of heavy duty Exhaust fans with Metallic blades following size sweep with gravity louvres shutters Exhaust fans with Metallic blades of following				
	a) 300mm Sweep(Crompton make Trancent Model)	Nos	3		
<b>E - 7</b>	<b>MAIN DBS / SUB DBS</b>				
	Supply Installation Testing and commissioning of TPN MCB Double door Distribution boards dust and vermin protected and rated for 415V, Three Phase AC supply operation including incoming MCB/ELCB as per specifications and required capacity Neutral bar and Earth terminal complete as required and installed in flush with wall including all fixing materials required. MCBs shall conform : 8828 and ELCB /RCCB shall confirm to IS : 12640				
	a) Supply, installation, testing and commissioning of (Double door) with 8Way VTPN MCCB DPX DB with 125A 4Pole MCCB as incomer and 63A TPMCBs -2 Nos, 32A TP MCbs-2 Nos, and 12 nos10/32A SPMCBs s outgoing. (for MAIN DB)	Nos	1		
	b) Supply, installation, testing and commissioning of (Double door) with 4Way TPN MCB DB with 63A 4Pole MCB as incomer and 12 nos10A SPMCBs s outgoing. (for LDB)	Nos	1		
	c) Supply, installation, testing and commissioning of 8way SPN MCB DB (Double door) with 32A DP MCB as incomer and 6nos. 6A/10A/16A SPMCBs as outgoing.(UPS DB)	Nos.	2		
	d) Supply and fixing of 32 A, DP MCB-1No. with encloser for UPS Incoming.	Nos	2		
	<b>f) Master Control DB:</b> Supply & fabrication of free standing wall mounted M V panel made out of 14SWG MS sheet after seven tank process and painting with epoxy powder coating with vertical cubicles as detailed below. CUBICLE-1: 100A,4P,25KA MCCB with vary deep extendable handle -1 no CUBICLE-2: 63A, 4P MCBs-2 Nos (Branch UPS, Sign Board and ATM) with vary deep extendable handle-1no. Note : 2 No of MCBs Connections directly from MCCB Input and Panel Install	Nos	1		

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<b>E - 8</b>	<b>Raw power Wiring and Sockets:</b> Supply and wiring of Raw Power Points from Main DB to Individual Work Stations With required all Connections with 2runs of 2.5Sq.mm PVC wires with 1run of 1.5 Sq.mm PVC Conduite for UPS out going Wirings and also SAapply and fixing of 1 <b>Nos 6A</b> sockets with 1 <b>Nos 6A switch</b> of modular type with 'front plate and anodised GI box complete 'as required'.for UPS Sockets	Nos	9		
<b>E -9</b>	Supply and fixing of 1no 16A 3pin 'socketswith 16A switch of modular type with 'front plate and anodised GI box complete 'as required'.(Raw Power )	Nos	2		
<b>E - 10</b>	<b>UPS Wiring and Sockets:</b> Supply and wiring of UPS Points from UPS Room DB to Individual Work Stations With required all Connections with 2runs of 2.5Sq.mm PVC wires with 1run of 1.5 Sq.mm PVC Conduite for UPS out going Wirings and also SAapply and fixing of <b>3 Nos 6A</b> sockets with <b>2 Nos 6A switch</b> of modular type with 'front plate and anodised GI box complete 'as required'.for UPS Sockets. (UPS -1 conection table / counter no.1,3,5 & 7 and UPS -2 table no. 2,4,6 & 8 etc, and network rack & manager 2 UPS points from UPS-1 & UPS-2.	Nos	12		
<b>E - 11</b>	Supply and fixing of 3 Nos 16A sockets with 1 Nos 16A switch of modular type with 'front plate and anodised GI box complete 'as required'.for UPS Sockets	Nos	2		
<b>E -12</b>	Supply installation testing and commissioning of AC Units With 2x4Sqmm+2.5Sqmm Copper Fluxible Wire From Main DB to AC Units including Legrand Make 20A Metal Clad Socket with 25/32A SP MCB set( Like Metal Clad Socket+Wiring From Db to AC Box to Stabilizer to AC Units)	No	5		
<b>E - 13</b>	Supply and erecting of approved make telephone RJ 11Jack for telephone with 2 pair .5mm Thick Telephone cable including pvc conduite with required all materials (RJ-11 Jack+ 2 pair Cable)	Nos	7		
<b>E - 14</b>	Supply and Laying of 10 pair .5mm Thick Telephone cable including pvc conduite with required all materials From Outside to Rack locations	Mts.	64		
<b>E - 15</b>	Supply and fixing of 10 pair Crone Connector box with 10 Pair connectors and required all connections.	Nos	1		
<b>E -16</b>	<b>MV Cables</b>				
	Supply, laying and commissioning of following size 1.1KVgrade PVC insulated armoured aluminium conductor underground cable, in built up cable trench/ 2" PVC pipe or on cable tray with all installation materials.When the cable is to be laid in ground, the same shall be laid at a depth of 750mm below ground level including excavation and refilling of earth after cables are laid,providing protection with sand and bricks at sides and topand cable route markers at 'every 15mtr. interval and also atthe turnings. The cable shall conform to IS 1554/ Part I.Cable protected in 2" Dia G.I Pipe10' long at the pole (correct measurement should be taken by the contractor before procuring the cable.				
	a) 3.5C X 50 Sq.mm	Rmt	74		
	b) 4C X 16 Sq.mm	Rmt	52		

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<b>E-17</b>	Providing Indoor ordinary end terminations for the cable specified above with compression type steel gland, Bi-metallic lugs using crimping tool,Insulation tape,Identification tags etc., including end termination and Earthing of Gland with 8SWG 'GI Wire			
	a) 3.5C X 50 Sq.mm	No	2	
	b) 4C X 16 Sq.mm	No	4	
<b>E -18</b>	<b>Earthing</b>			
	a) Providing G.I. Earth station, with 40mm dia 2500mm longGI pipe including construction of brick pedestal, providing meshed funnel,CI cover and other civil Engineering works,spreading a homogenous mixture of salt, charcoal aroundthe pipe etc, completely as per IS 3043, 1987 or latest revision.	No	1	
	b) Providing Copper Earth station, with 600X600X3.15mm Copper plate at 2500mm depth including construction of brick pedestal, providing meshed funnel,CI cover and other civil Engineering works, spreading a homogenous mixture of salt,charcoal around the pipe etc,completely as per IS3043,1987 or latest revision.	No	1	
	c) Supply and laying of following size strips including including all necessary inter connections with earth station and equipments.			
	i) 8 SWG Copper wire	Rmt	42	
<b>19</b>	<b>LAN Cable</b>			
<b>a</b>	Supply and Laying of 4Pair CAT-6E LAN Cable with suitable PVC Conduite and Junction boxes with etc.	Pts	16	
<b>b</b>	Supply and fixing of CAT-6E Information out letsSystimax/ Amps/ D Link	Set	16	
<b>c</b>	Supply of Patch Cards 3' (Factory Crimping)	Set	16	
<b>d</b>	Supply of Patch Cards 7' (Factory Crimping)	Set	16	
<b>e</b>	Supply and fixing of 24 port Jack panel (Systimax/ amp)	Set	1	
<b>f</b>	Supply and fixing of 9U Rack encloser with accries likeSelf Power manager, Cable Manager, Hard Ware etc.	Set	1	
<b>g</b>	Supply and fixing of 24 ports d-link switch	Set	1	
<b>A</b>	<b>TOTAL AMOUNT FOR BRANCH ELECTRICAL WORKS Rs :</b>			
<b>B</b>	<b>ATM WORKS</b>			
<b>E-1</b>	<b>Light Points:</b>	pt	5.00	
	Supply and Wiring for Primary Light point with 2runs of 650 grade 1.5sq.mm FRLS PVC insulated multi stand copper conductor wires in 20mm dia, 2.2 thickness PVC conduit concealed in wall/column/ceiling/floor including supply and fixing of 1No. 6Amps single pole modular type switch in anodised GI box and earthing with 1.5sq.mm multi stand FRLS PVC insulated wire runs continuously along the conduit including supply of all accessories as required. (Make : Switches : Legrand(Mylic), Anchor Roma, Wire : Havells ,Polycab)			
<b>E-2</b>	Supply and fixing for 16Amps/6Amps 5 pin Universal Modular type socket outlet including supply and fixing of 1 No. 16/6Amps 5 pin modular type combined switch socket fixed in anodised GI /PVC box of suitable size.(Make : Switches : Legrand(Mylic), Anchor Roma)	Each	1	
<b>E-3</b>	<b>Run of Mains:</b>			
	Supply and wiring for with the following size :			

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	650 V grade PVC insulated multi stand copper conductor wires confirming to IS 694 (with latest amendments) in suitable size: 1.5mm thick PVC conduit concealed in wall/ceiling/floor and insulated multi stand copper earth wires as specified run continuously along the conduit including supply of all fixing materials and accessories interconnections complete as required.			
a	2 runs of 2.5 sq.mm wires with 1 runs of 1.5sq.mm copper wires in suitable size PVC conduit, for UPS & RAW power points.	Mtr	20	
b	2 runs of 4 sq.mm wires with 1 run of 2.5 sq.mm copper wire in suitable size PVC conduit.	Mtr	15	
<b>E-4 P.V.C Conduit:</b>				
	Supply and laying of following size 2.2 thickness PVC conduit concealed in wall/ceiling/floor/column including supply and drawing of 12SWG GI wire as fish wiere for laying of UPS/raw power cables at the lated stage of supply of all fixing materials complete as required. (Make :Sudbaker Precision)			
a	19mm	mtr	5	
b	25mm	mtr	5	
<b>E-5 DISTRIBUTION BOARDS:</b>				
a	Supply, installation, testing and commissioning of 25A SP,MCB with Metal Plug and socket in Enclosure.for A/C (Make : Legrand)	Nos	2	
b	Supply, installation, testing and commissioning of 8 way SPN MCB DB (Double door) with 32Amps 1P MCB as incomer and3 no.s 20ASPMCBs as out Going. (Make : Legrand) for Ups input.	Nos	1	
c	Supply, installation, testing and commissioning of 12 way SPN MCB DB (Double door) with 32Amps 4P MCB as incomer and 5 no.s 20ASPMCBs as out Going. (Make : Legrand) for ATM input	Nos	1	
<b>E-6 FIXING:</b>				
a)	Recess mounted <b>LED Luminaire</b> 36 x 1W Class LED, Wipro make code: LM - 036 - XXX - WH - XX.	Nos	1	
b)	Recess mounted <b>LED Down lighter</b> with Pressure die cast aluminium housing (10 x 1W), Wipro make code: LD 49 - 900 - XXX - 60 - XX.	Nos	3	
c)	20W <b>LED Tube light</b> fixture Wall/ Ceiling mounted (Philips Make TMS 200/140)	Nos	1	
<b>E-7</b>				
	Supply and Wiring with the following size 650V grade FR PVC insulated Copper conductor wires in suitable <b>PVC conduit</b> including end terminations with suitable lugs.			
a)	4 runs of 4 Sq.mm PVC wires with 2 runs of 4Sq.mm PVC insulated Copper earth wire in PVC conduit, for ATM input.	Rmt	64	
<b>E-8</b>				
	Supply installation testing and commissioning of AC Units With 2x4Sqmm+2.5Sqmm Copper Fluxible Wire From Main DB to AC Units including Legrand Make 20A Metal Clad Socket with 25/32A SP MCB set( Like Metal Clad Socket+Wiring From Db to AC Box to Stabilizer to AC Units)	No	2	
<b>E-9</b>				
	<b>Raw power Wiring and Sockets:</b> Supply and wiring of Raw Power Points from Main DB to Individual Work Stations With required all Connections with 2runs of 2.5Sq.mm PVC wires with 1run of 1.5 Sq.mm PVC Conduite for UPS out going Wirings and also SAupply and fixing of 1 <b>Nos 6A</b> sockets with 1 <b>Nos 6A switch</b> of modular type with 'front plate and anodised GI box complete 'as required'.for UPS Sockets	Nos	1	

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<b>E-10</b>	<b>UPS Wiring and Sockets:</b> Supply and wiring of UPS Points from UPS Room DB to Individual Work Stations With required all Connections with 2runs of 2.5Sq.mm PVC wires with 1run of 1.5 Sq.mm PVC Conduite for UPS out going Wirings and also SAapply and fixing of <b>3 Nos 6A</b> sockets with <b>2 Nos 6A switch</b> of modular type with 'front plate and anodised GI box complete 'as required'.for UPS Sockets. (UPS -1 conection table / counter no.1,3,5 & 7 and UPS -2 table no. 2,4,6 & 8 etc, and network rack & manager 2 UPS points from UPS-1 & UPS-2.	Nos	2		
<b>E-11</b>	<b>LAN Cable</b>				
<b>a</b>	Supply and Laying of 4Pair CAT-6E LAN Cable with suitable PVC Conduite and Junction boxes with etc.	Pts	2		
<b>B</b>	<b>Total Amount for ATM Electrical works (B):</b>				
<b>C</b>	<b>GRAND TOTAL for Branch &amp; ATM Electrical works (A+B):</b>				

Internal