

13th August 2019 (Final Revised on Shri Sinha's suggestions on 13th August 2019)

**Estimate for the proposed Ambience Planning for Daryapur Currency Chest Branch of State Bank of India, Daryapur**

**Part D : Electrical Work :**

S. NO	PARTICULARS	UNIT	QTY
<b>SECTION A : MCBs, RCCBs AND MCBDBs.</b>			
A.1	Supply & Erecting Triple Pole and Neutral Distribution Board (ETPNDB), IP 43 grade double door, 6 way, DB mounting on wall or an angle frame for <b>Lighting/Power DB(GF)</b> i) 63A, 100mA, FP, RCCB - 1 no. -I/C ii) 6-20A SP MCB - 16 no. -O/G	Nos.	1
A.2	Supply & Erecting Triple Pole and Neutral Distribution Board (ETPNDB), IP 43 grade double door, 4 way, DB mounting on wall or an angle frame for Lighting/Power DB(FF) i) 40A, 100mA, FP, RCCB - 1 no. -I/C ii) 6-20A SP MCB - 9no. -O/G	Nos.	1
A.3	Supply & Erecting Triple Pole and Neutral Distribution Board (VTPN DB), IP 43 grade double door, 8 way, MCCB incomer DB Mounted on Angle frame For <b>AC DB(GF)</b> i) 100A, 25kA ,3P,MCCB - 1 no. -I/C ii) 6-20A SP MCB - 6 no. -O/G iii)20A TP MCB - 6 no. -O/G iv)Blanking plates 6 no. O/G	Nos.	1
A.4	Supply & Erecting Triple Pole and Neutral Distribution Board (VTPN DB), IP 43 grade double door, 4 way, MCCB incomer DB Mounted on Angle frame For AC DB(FF) i) 63A, 25kA ,3P,MCCB - 1 no. -I/C ii) 6-20A SP MCB - 2 no. -O/G iii)20A TP MCB - 2 no. -O/G	Nos.	1
A.5	Supply, Installation, testing of SPN distribution board, SPN 16 way, double door type flush mounted DB mounted directly on wall or angle frame <b>for UDB</b> with I/C and O/G as below : i) 63A,DP, MCB - 1 no. -I/C ii) 6-20A SP MCB - 12 no. - O/G iv) Blanking plate - 2 no. O/G	Nos.	1
A.6	Supply, Installation, testing of SPN distribution board, SPN 16 way, double door type flush mounted DB mounted directly on wall or angle frame <b>for UDBFF</b> with I/C and O/G as below : i) 63A,DP, MCB - 1 no. -I/C	Nos.	2

S. NO	PARTICULARS	UNIT	QTY
	ii) 6-20A SP MCB - 12 no. - O/G iv) Blanking plate - 2 no. O/G		
A.7	Supply , Installation ,testing of 40A ,4P,MCB with metal encloser for ups input mounted near UPS	Nos.	1
A.8	SITC of Main PCC Panel made out of 14/16 SWG CRCA sheet with a 5mm thick base frame and 3mm thick removable gland plate and coated with an electro static powder coating paint of shade RAL-7032 conforming to detailed specification as per SLD. i)250A,3P,36kA,MCCB-1 No.-I/C ii)100A,3P,36kA MCCB-1 No-I/C iii)250A,4P,on load c/o Switch-1 No-I/C iv)160A,3P,36kA MCCB-1 No-I/C v)100A,3P,36kA MCCB-1 No-O/G vi)63A,3P,36kA MCCB-7 No-O/G vii) R,Y,B LED indicators, VSS, ASS, MFM, CBCT, ELR viii)50X5mm Al.Busbar with Phase indicator Slevs	Nos.	1
<b>TOTAL FOR SECTION A : MCBs, RCCBs AND MCBDBs.</b>			
<b>SECTION B : MAINS &amp; CABLES</b>			
B.1	Supplying & erecting PVC armoured cable 3.5 core 50 sq.mm. Alluminium armoured cable, complete erected with glands & lugs, on wall / trusses / pole or laid in provided trench / pipe for main cable	Rmt	40
B.2	Supplying & erecting PVC armoured cable 4 core 10 sq.mm. copper armoured cable, complete erected with glands & lugs, on wall / trusses / pole or laid in provided trench / pipe for main cable for UPS I/P	Rmt	20
B.3	Supplying & erecting 4 core 10 sq.mm. Copper flexible cable, complete erected with glands & lugs, on wall / trusses / pole or laid in provided trench / pipe for main cable for UPS I/P	Rmt	120
B.4	Supplying & erecting 3 core 10 sq.mm. Copper flexible cable, complete erected with glands & lugs, on wall / trusses / pole or laid in provided trench / pipe for main cable for UPS I/P	Rmt	5
B.5	Supplying & erecting PVC armoured cable 3.5 core 95 sq.mm. Alluminium armoured cable, complete erected with glands & lugs, on wall / trusses / pole or laid in provided trench / pipe for main cable	Rmt	50

S. NO	PARTICULARS	UNIT	QTY
B.6	Supplying & erecting PVC armoured cable 4 core 16 sq.mm. Alluminium armoured cable, complete erected with glands & lugs, on wall / trusses / pole or laid in provided trench / pipe for main cable.	Rmt	35
B.7	Supplying, erecting & terminating PVC armoured cable 4 core 4 sq mm copper conductor continuous 5.48 sq mm (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe.	Rmt	300
<b>TOTAL FOR SECTION B : MAINS AND CABLES</b>			
<b>SECTION C : POINT WIRING</b>			
C.1	Point wiring for light/Ex.fan/bell concealed type in 20 mm PVC conduit with 3X1.5 sq.mm. FRLS grade copper wire with <b>modular type switches</b> and required accessories, wiring include DB to switch board and Switch board to point .	No.	105
C.2	Point wiring for fan concealed type in 20 mm PVC conduit with 3X1.5 sq.mm. FRLS grade copper wire with <b>modular type switch, regulator</b> and required accessories, wiring include DB to switch board and Switch board to point .	No.	10
C.3	Same as A.1 but secondary loop point controlled by same switch for first light point.	No.	28
C.4	Point wiring for two way concealed type in 20 mm PVC conduit with 1.0 sq.mm. FR grade copper wires with modular type switches and required accessories <b>for Stair case.</b>	No.	4
C.5	Point wiring for 6 Amp. Modular type 2/3 Pin switch socket on concealed type light/fan switch board with copper wires and modular accessories .	No.	32
C.6	Point wiring with modular type switch 16A and 3 Pin 6/16A combined socket unit duly erected on unbreakable concealed type modular switch box with double mounting plate for 4 module, duly erected flush to wall with required chiseling & finishing with cement mortar/POP as required to match the background in an approved manner with wiring 2.5 sqmmX2+1.5 sqmm(E) connections complete	No.	14

S. NO	PARTICULARS	UNIT	QTY
C.7	Point wiring with modular type 32A DP switch with indicator duly erected on unbreakable concealed type modular switch box with double mounting plate for 2 module, duly erected flush to wall with required chiseling & finishing with cement mortar/POP as required to match the background in an approved manner wiring with 4.0sqmmX2+2.5sqmm(e) connections complete <b>for 1 Split AC.</b>	No.	7
C.8	Point wiring with modular type 16A switch - 1 no. and 6A socket 3 no. duly erected on unbreakable concealed type modular switch box with double mounting plate for 8 module, duly erected flush to wall with required chiseling & finishing with cement mortar/POP as required to match the background in an approved manner wiring with 2.5 sqmmX 3C copper flexible cable connections complete <b>for computer</b>	No.	38
<b>TOTAL FOR SECTION C : POINT WIRING</b>			
<b>SECTION D : SPEAKER &amp; TV</b>			
D.1	Supplying & installing Co-axial cable low voltage grade RG-6 in ISI PVC casing / conduit.	Rmt	100
D.2	Supplying & installing of Speakar cable through ISI PVC conduit.	Rmt	400
<b>TOTAL FOR SECTION D : SPEAKER &amp; TV</b>			
<b>SECTION E: FAN AND FIXTURES</b>			
E.1	Supplying and erecting regular/ standard model Ceiling fan of 1200mm. sweep complete erected in position .	No.	10
E.2	Supplying and erecting square shaped CRCA /die-cast aluminium powder coated housing LED Panel light (slimb edge-lit) 600X600mm suitable for 36 W-40W with provision for plane front frame with translucent cover fixed to the housing complete.	No.	26
E.3	Supplying and erecting square / round shaped CRCA /diecast aluminium powder coated housing LED Panel ( slim edge-lit) light suitable for 13 to18W with provision for plane front frame with translucent cover fixed to the housing complete.	No.	83
E.4	Supplying & installing of double bolt anchor fastner for hanging ceiling fan	No.	10

S. NO	PARTICULARS	UNIT	QTY
E.5	Supplying & installing of fan down rod	No.	10
E.6	Supplying and erecting LED street light fitting suitable above 25 to 36W lamp, including lamp, with PF > 0.95 class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete .	No.	6
<b>TOTAL FOR SECTION E : FAN &amp; FIXTURES</b>			
<b>SECTION F : OTHERS</b>			
F.1	Providing earthing with Copper earth plate size 60 x 60 x 0.315 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover with minimum 25 kg of maintenance free earth conductivity enhancing mineral earthing compound complete with all materials, testing & recording the results. For UPS	No.	1
F.2	Supply, Installation, Testing and commissioning of UL Certified / CPRI Tested Maintenance Free Earthing comprising of Electrode of 17.2 mm diameter Low Carbon Steel with 250 micron Molecular Copper Bonded Earthing Rod of Length 3m along with 25 kg Carbon Based environment friendly back fill Ground Enhancing compound required to fill up the excavated earth with required quantity as per specification no EA-MOBI	No.	2
F.3	Supplying and erecting copper strip of required size used for earthing on wall and/or any other purpose with necessary copper clamps fixed on wall painted with bituminous paint in an approved manner with joints required.	KG	5
F.4	Supplying and erecting GI strip of required size used for earthing on wall and/or any other purpose with necessary GI clamps fixed on wall painted with bituminous paint in an approved manner with joints required.	KG	40
F.5	Supplying, erecting & terminating PVC Unarmoured cable 1 core 10 sq. mm copper conductor complete erected with provided lugs, laid in ISI pvc conduit.	Rmt	20
F.6	Supplying, erecting & of timer and contractor arrangement for system room AC, Glowsinage and exterior lighting.	No.	3
F.7	Providing & fixing in position 40 / 63 FP Waterproof MCB Cassette Air-conditioner outdoor unit	No.	6

S. NO	PARTICULARS	UNIT	QTY
F.8	Providing & fixing in position 32 / 40 DP MCB with enclosure	No.	5
F.9	Providing & fixing in position 16 A socket for AC and Locker room with wiring complete.	No.	3
<b>TOTAL OF SECTION F : OTHERS</b>			

**Summary :**

1	<b>SECTION A : MCBs, RCCBs AND MCBDBs.</b>
2	<b>SECTION B : MAINS &amp; CABLES</b>
3	<b>Section C : POINT WIRING</b>
4	<b>SECTION D : SPEAKER &amp; TV</b>
5	<b>SECTION E : FAN &amp; FIXTURES</b>
6	<b>SECTION F : OTHERS</b>
	<b>Total Cost of Electrification and Allied Works excluding GST</b>

**For Ranade & Ranade, Architects**

Partner