

PROPOSED FACTORY FOR SOORTY TEXTILES - BANGLADESH

A ELECTRICAL INSTALLATION

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.1 LAMP POINT WIRING					
A.1.1	Wiring of 1200mm x 36W Single fluorescent lamp point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in PVC conduit including accessories.(without lamp fitting) (Lamp install under the 50x50 Trunking)	4105	Nos.		
A.1.2	Wiring of 1200mm x 36W Twin fluorescent lamp point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in PVC conduit including accessories.(without lamp fitting) (Lamp install under the 50x50 Trunking)	792	Nos.		
A.1.3	Wiring of 1200mm x 36W Twin fluorescent lamp (with Prismatic diffuser) point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in PVC conduit including accessories (without lamp fitting)	277	Nos.		
A.1.4	Wiring of 600mm x 18W Twin fluorescent lamp Point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in PVC conduit including accessories (without lamp fitting)	114	Nos.		
A.1.5	Wiring of 600mm x 600 3x18W fluorescent lamp point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in PVC conduit including accessories (without lamp fitting)	971	Nos.		
A.1.6	Wiring of 1200mm x 36W Twin IP65 fluorescent lamp point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in PVC conduit including accessories (without lamp fitting)	859	Nos.		
A.1.7	Wiring of Quadruple Recessed Lamp point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in PVC conduit including accessories (without lamp fitting)	1	Nos.		
A.1.8	Wiring of Recessed MR16 Down lamp point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in PVC conduit including accessories (without lamp fitting)	353	Nos.		
A.1.9	Wiring of Recessed CFL Down lamp point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in PVC conduit including accessories (without lamp fitting)	219	Nos.		
TOTAL CARRIED TO SUMMARY				US\$	

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.1.10	Wiring of Wall Mounted Bracket lamp point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in PVC conduit including accessories (without lamp fitting)	3	Nos.		
A.1.11	Wiring of Surface Mounted Down lamp point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in PVC conduit including accessories (without lamp fitting)	20	Nos.		
A.1.12	Wiring of Wall Mounted Niche lamp point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in PVC conduit including accessories (without lamp fitting)	7	Nos.		
A.1.13	Wiring of Wall Mounted up Down lamp Point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in PVC conduit including accessories (without lamp fitting)	34	Nos.		
A.1.14	Wiring of Wall Mounted Mirror lamp Point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in PVC conduit including accessories (without lamp fitting)	21	Nos.		
A.1.15	Wiring of Low Bay lamp Point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in PVC conduit including accessories (without lamp fitting)	13	Nos.		
A.1.16	Wiring of High Bay lamp Point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in PVC conduit including accessories (without lamp fitting)	297	Nos.		
A.1.17	Wiring of Emergency Lamp (Surface Mounted) point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in Steel conduits including accessories (without lamp fitting)	421	Nos.		
A.1.18	Wiring of Emergency Lamp (Recessed Mounted) point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in Steel conduits including accessories (without lamp fitting)	163	Nos.		
A.1.19	Wiring of Exit Lamp point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in PVC conduits including accessories. (without lamp fitting)	50	Nos.		
TOTAL CARRIED TO SUMMARY				US\$	

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.1.120	Wiring of 250W Flood Lamp point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in PVC conduits including accessories (without lamp fitting)	28	Nos.		
A.1.21	Wiring of Floor Mounted Recessed Lamp point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm protective earth in PVC conduits including accessories. (without lamp fitting)	30	Nos.		
A.1.22	Wiring of Pole Mounted Flood Lamp point with 2C2.5sq.mm PVC/SWA/XLPE/CU cable in cable Trench. Rate should include for Cable Trenching and Back filling. (without lamp fitting)	2	Nos.		
A.1.23	Wiring of Gate Top Mounted Lamp point with 2C2.5sq.mm PVC/SWA/XLPE/CU cable in cable Trench. Rate should include for Cable Trenching and Back filling. (without lamp fitting)	6	Nos.		
A.1.24	Wiring of Sinage Lamp point with 2C2.5sq.mm PVC/SWA/XLPE/CU cable in cable Trench. Rate should include for Cable Trenching and Back filling. (without lamp fitting)	2	Nos.		
A.1.25	Wiring of Ceiling Fan point with 1.5sq.mm PVC/PVC/CU cables and 2.5sq.mm Protective earth in PVC Conduits including Accessories fan hook etc. (without Ceiling Fan)	139	Nos.		
TOTAL CARRIED TO SUMMARY				US\$	

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.2. FIXING OF LAMP FITTINGS & CEILING FANS					
A.2.1	Fixing of 36W Single Flu. Lamp fitting (with Reflector)	4105	Nos.		
A.2.2	Fixing of 18W Single Flu. Lamp fitting (with Reflector)	114	Nos.		
A.2.3	Fixing of 36W Twin Flu. Lamp fitting (with Reflector)	792	Nos.		
A.2.4	Fixing of 36W Twin Flu. Lamp fitting (with Prismatic Diffuser)	277	Nos.		
A.2.5	Fixing of 3x18W Recessed Mounted Flu. Lamp Fitting	971	Nos.		
A.2.6	Fixing of 36W Twin IP65 Fluorescent Lamp Fitting	859	Nos.		
A.2.7	Fixing of Quadruple Recessed Down lamp Fitting	1	No,		
A.2.8	Fixing of Recessed MR16 Type Lamp Fitting	353	Nos.		
A.2.9	Fixing of Recessed CFL Type Lamp Fitting	219	Nos.		
A.2.10	Fixing of Wall mounted Bracket Lamp Fitting	3	Nos.		
A.2.11	Fixing of Surface Mounted Down lamp fitting	20	Nos.		
A.2.12	Fixing of Wall Mounted Niche Lamp Fitting	7	Nos.		
A.2.13	Fixing of Wall Mounted up Down Lamp Fitting	34	Nos.		
A.2.14	Fixing of Mirror Lamp Fitting	21	Nos.		
A.2.15	Fixing of Low Bay Lamp Fitting	13	Nos.		
A.2.16	Fixing of High Bay lamp Fitting	297	Nos.		
A.2.17	Fixing of Surface mounted Emergency Lamp	421	Nos.		
A.2.18	Fixing of Recessed Mounted Emergency Lamp	163	Nos.		
A.2.19	Fixing of Exit Lamp Fitting	50	Nos.		
A.2.20	Fixing of Flood Lamp Fitting	28	Nos.		
A.2.21	Fixing of Floor Recessed Mounted Lamp Fitting	30	Nos.		
A.2.22	Fixing of Pole and Pole Mounted Lamp Fitting	2	Nos.		
A.2.23	Fixing of gate Top Lamp Fitting	6	Nos.		
A.2.24	Supply of 1400mm Sweep Ceiling Fan with Electronic Regulator (KDK/National)	139	Nos.		
A.2.25	Fixing of Ceiling fan rate should include for the Fan hook	139	Nos.		
TOTAL CARRIED TO SUMMARY				US\$	

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.3 WIRING OF SOCKET OUTLETS					
A.3.1	Supply and installation of 13A Single Switch Socket Outlet with 2x2.5sq.mm PVC/PVC/CU cable and 2.5sq.mm protective earth in PVC conduits .	674	Nos.		
A.3.2	Supply and installation of 13A Single Switch Socket Outlet to Busbar with surface mounted Box	2864	Nos.		
A.3.3	Supply and installation of 15A Single Switch Socket Outlet with 2x2.5sq.mm PVC/PVC/CU cable and 2.5sq.mm protective earth in PVC conduits .	10	Nos.		
A.3.4	Supply and installation of 13A Twin Switch Socket Outlet with 2x2.5sq.mm PVC/PVC/CU cable and 2.5sq.mm protective earth in PVC conduits .	68	Nos.		
A.3.5	Supply and installation of 13A Twin Switch Socket Outlet (Red Colour) With Indicator with 2x2.5sq.mm PVC/PVC/CU cable and 2.5sq.mm protective earth in PVC conduits .	239	Nos.		
A.3.6	Supply and installation of 20A TPN+E Industrial type Socket outlet (Female Base unit & Male Plug Top) with 4x4sq.mm PVC/PVC/CU cable and 2.5sq.mm Protective earth in PVC conduit.	19	Nos.		
A.3.7	Supply and installation of 16A DP Isolator with an Enclosure with Neutral & Earth Bar and wired with 2x2.5sq.mm PVC/PVC/CU cable and 2.5sq.mm Protective earth in PVC conduit.	19	Nos.		
A.3.8	Supply and installation of 16A TPN Isolator with an Enclosure with Neutral & Earth Bar and wired with 4x2.5sq.mm PVC/PVC/CU cable and 2.5sq.mm Protective earth in PVC conduit.	24	Nos.		
A.3.9	Supply and installation of 20A TPN Isolator with an Enclosure with Neutral & Earth Bar and wired with 4x4sq.mm PVC/PVC/CU cable and 4sq.mm Protective earth in PVC conduit.	4	Nos.		
A.3.10	Supply and installation of 30A TPN Isolator with an Enclosure with Neutral & Earth Bar and wired with 4x6sq.mm PVC/PVC/CU cable and 6sq.mm Protective earth in PVC conduit.	4	Nos.		
A.3.11	Supply and installation of 40A TPN Isolator with an Enclosure with Neutral & Earth Bar and wired with 4x10sq.mm PVC/PVC/CU cable and 10sq.mm Protective earth in PVC conduit.	37	Nos.		
TOTAL CARRIED TO SUMMARY				US\$	

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.3.12	Supply and installation of 60A TPN Isolator with an Enclosure with Neutral & Earth Bar and wired with 4x16sq.mm PVC/PVC/CU cable and 16sq.mm Protective earth in PVC conduit.	32	Nos.		
A.3.13	Supply and installation of 125A TPN Isolator with an Enclosure with Neutral & Earth Bar and wired with 4x35sq.mm PVC/PVC/CU cable and 16sq.mm Protective earth. Cable Layed on cable Tray.	2	Nos.		
A.3.14	Supply and installation of 250A TPN Isolator with an Enclosure with Neutral & Earth Bar and wired with 4x95sq.mm PVC/XLPE/CU cable and 35sq.mm Protective earth. Cable Layed on cable Tray.	2	Nos.		
<u>A.4 INSTALLATION OF SWITCH BOARDS INCLUDING CABLE TERMINATION</u>					
A.4.1	Installation of Main Switch Board-1 (MSB-1)	1	No.		
A.4.2	Installation of Main Switch Board-2 (MSB-2)	1	No.		
A.4.3	Installation of Main Distribution Board MDC-1	1	No.		
A.4.4	Installation of Main Distribution Board MDC-2	1	No.		
A.4.5	Installation of Main Distribution Board MDC-3	1	No.		
A.4.6	Installation of Main Distribution Board MDC-4	1	No.		
A.4.7	Installation of Main Distribution Board MDC-5	1	No.		
A.4.8	Installation of Distribution Board DC-COM				
A.4.9	Installation of Distribution Board DC-A	1	No.		
A.4.10	Installation of Distribution Board DC-A.1	1	No.		
A.4.11	Installation of Distribution Board DC-C	1	No.		
A.4.12	Installation of Distribution Board DC-D	1	No.		
A.4.13	Installation of Distribution Board DC-BL	1	No.		
A.4.14	Installation of Distribution Board DC-LP1.1	1	No.		
A.4.15	Installation of Distribution Board DC-LP1.2	1	No.		
A.4.16	Installation of Distribution Board DC-LP1.3	1	No.		
A.4.17	Installation of Distribution Board DC-LP1.4	1	No.		
TOTAL CARRIED TO SUMMARY				US\$	

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.4.18	Installation of Distribution Board DC-LP1.5	1	No.		
A.4.19	Installation of Distribution Board DC-LP1.6	1	No.		
A.4.20	Installation of Distribution Board DC-L1.1	1	No.		
A.4.21	Installation of Distribution Board DC-L1.2	1	No.		
A.4.22	Installation of Distribution Board DC-L1.3	1	No.		
A.4.23	Installation of Distribution Board DC-P1.1	1	No.		
A.4.24	Installation of Distribution Board DC-P1.2	1	No.		
A.4.25	Installation of Distribution Board DC-P1.3	1	No.		
A.4.26	Installation of Distribution Board MDC-UPS	1	No.		
A.4.27	Installation of Distribution Board DC-U-G1	1	No.		
A.4.28	Installation of Distribution Board DC-U-M1	1	No.		
A.4.29	Installation of Distribution Board DC-U-F1	1	No.		
A.4.30	Installation of Distribution Board DC-U-F2	1	No.		
A.4.31	Installation of Distribution Board DC-U-FM1	1	No.		
A.4.32	Installation of Distribution Board DC-U-FM2	1	No.		
A.4.33	Installation of Distribution Board DC-LP2.1	1	No.		
A.4.34	Installation of Distribution Board DC-LP2.2	1	No.		
A.4.35	Installation of Distribution Board DC-LP2.3	1	No.		
A.4.36	Installation of Distribution Board DC-LP2.3	1	No.		
A.4.37	Installation of Distribution Board DC-LP2.4	1	No.		
A.4.38	Installation of Distribution Board DC-LP2.5	1	No.		
A.4.39	Installation of Distribution Board DC-LP3.1	1	No.		
A.4.40	Installation of Distribution Board DC-LP3.2	1	No.		
A.4.41	Installation of Distribution Board DC-LP3.3	1	No.		
A.4.42	Installation of Distribution Board DC-P3.1	1	No.		
A.4.43	Installation of Distribution Board DC-LP4.1	1	No.		
TOTAL CARRIED TO SUMMARY				US\$	

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.4.44	Installation of Distribution Board DC-LP4.2	1	No.		
A.4.45	Installation of Distribution Board DC-LP4.3	1	No.		
A.4.46	Installation of Distribution Board DC-LP4.4	1	No.		
A.4.47	Installation of Distribution Board DC-LP4.5	1	No.		
A.4.48	Installation of Distribution Board DC-LP4.6	1	No.		
A.4.49	Installation of Distribution Board DC-L4.1	1	No.		
A.4.50	Installation of Distribution Board DC-L4.2	1	No.		
A.4.51	Installation of Distribution Board DC-P4.1	1	No.		
A.4.52	Installation of Distribution Board DC-P4.2	1	No.		
A.4.53	Installation of Distribution Board DC-LP4.3	1	No.		
A.4.54	Installation of Distribution Board DC-LP4.7	1	No.		
A.4.55	Installation of Distribution Board DC-LP4.8	1	No.		
A.4.56	Installation of Distribution Board DC-LP4.8.1	1	No.		
A.4.56	Installation of Distribution Board DC-LP5.1	1	No.		
A.4.56	Installation of Distribution Board DC-LP5.2	1	No.		
A.4.56	Installation of Distribution Board DC-LP5.3	1	No.		
A.4.56	Installation of Distribution Board DC-LP5.4	1	No.		
A.4.56	Installation of Distribution Board DC-LP5.5	1	No.		
A.4.56	Installation of Distribution Board DC-AC-1	1	No.		
A.4.56	Installation of Distribution Board DC-AC-2	1	No.		
				US\$	

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.5 FEEDER CABLES					
A.5.1	Supply,install and connect feeder cable from Sub Station to MSB-1 with 5x4C240sq.mm PVC/SWA/XLPE/CU cable layed on Cable Trench. Rate should include for excavation & backfilling cable trenches, Cable tiles, Joints (If any), Lugs etc.	40	LM		
A.5.2	Supply,install and connect feeder cable from Sub Station to MSB-2 with 5x4C240sq.mm PVC/SWA/XLPE/CU cable layed on Cable Trench. Rate should include for excavation & backfilling cable trenches, Cable tiles, Joints (If any), Lugs etc.	40	LM		
A.5.3	Supply,install and connect feeder cable from MSB-1 to MDC-AC1 with 2x4C240sq.mm PVC/XLPE/CU + 240sq.mm Earth layed on cable Tray and cable Ladder.	40	LM		
A.5.4	Supply,install and connect feeder cable from MSB-2 to MDC-AC2 with 2x4C240sq.mm PVC/XLPE/CU + 240sq.mm Earth layed on cable Tray and cable Ladder.	40	LM		
A.5.5	Supply,install and connect feeder cable from MSB-1 to MDC-1 with 4x4C240sq.mm PVC/XLPE/CU + 240sq.mm Earth layed on cable Tray and cable Ladder. (Part Under ground In a Trench).	100	LM		
A.5.6	Supply,install and connect feeder cable from MSB-1 to MDC-3 with 2x4C240sq.mm PVC/XLPE/CU + 240sq.mm Earth layed on cable Tray and cable Ladder. (Part Under ground In a Trench).	35	LM		
A.5.7	Supply,install and connect feeder cable from MSB-1 to MDC-5 with 4C95sq.mm PVC/XLPE/CU + 50sq.mm Earth layed on cable Tray and cable Ladder. (Part Under ground In a Trench).	50	LM		
A.5.8	Supply,install and connect feeder cable from MSB-1 to DC-COM with 2x4C240sq.mm PVC/XLPE/CU + 50sq.mm Earth layed on cable Tray and cable Ladder. (Part Under ground In a Trench).	160	LM		
A.5.9	Supply,install and connect feeder cable from MSB-2 to MDC-2 with 4x4C240sq.mm PVC/XLPE/CU + 240sq.mm Earth layed on cable Tray and cable Ladder. (Part Under ground In a Trench).	80	LM		
TOTAL CARRIED TO SUMMARY				US\$	

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.5.10	Supply,install and connect feeder cable from MSB-2 to MDC-4 with 4x4C240sq.mm PVC/XLPE/CU + 240sq.mm Earth layed on cable Tray and cable Ladder. (Part Under ground In a Trench).	80	LM		
A.5.11	Supply,install and connect feeder cable from MSB-2 to DC-FR with 4C120sq.mm PVC/XLPE/CU + 50sq.mm Earth layed on cable Tray and cable Ladder. (Part Under ground In a Trench).	40	LM		
A.5.12	Supply,install and connect feeder cable from MSB-2 to DC-A with 4C16sq.mm PVC/XLPE/CU + 16sq.mm Earth layed on cable Tray	15	LM		
A.5.13	Supply,install and connect feeder cable from MSB-2 to DC-D with 2C16sq.mm PVC/SWA/XLPE/CU cable layed on Cable Trench. Rate should include for excavation & backfilling cable trenches, Cable tiles, Joints (If any), Lugs etc.	170	LM		
A.5.14	Supply,install and connect feeder cable from DC-COM to DC-BL with 4C150sq.mm PVC/XLPE/CU + 70sq.mm Earth layed on cable Tray	15	LM		
A.5.15	Supply,install and connect feeder cable from DC-COM to DC-C with 4C10sq.mm PVC/XLPE/CU + 10sq.mm Earth layed on cable Tray and cable Ladder. (Part Under ground In a Trench).	68	LM		
A.5.16	Supply,install and connect feeder cable from DC-A to DC-A.1 with 4C10sq.mm PVC/XLPE/CU + 10sq.mm Earth layed on cable Tray and cable Ladder. (Part Under ground In a Trench).	15	LM		
A.5.17	Supply,install and connect feeder cable from MDC-1 to DC-LP1.1 with 4C16sq.mm PVC/XLPE/CU + 16sq.mm Earth layed on cable Tray	8	LM		
A.5.18	Supply,install and connect feeder cable from MDC-1 to DC-LP1.2 with 4C10sq.mm PVC/XLPE/CU + 10sq.mm Earth layed on cable Tray	8	LM		
A.5.19	Supply,install and connect feeder cable from MDC-1 to DC-LP1.3 with 4C10sq.mm PVC/XLPE/CU + 10sq.mm Earth layed on cable Tray	55	LM		
A.5.20	Supply,install and connect feeder cable from MDC-1 to DC-LP1.4 with 4C95sq.mm PVC/XLPE/CU + 50sq.mm Earth layed on cable Tray	125	LM		
TOTAL CARRIED TO SUMMARY				US\$	

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.5.21	Supply,install and connect feeder cable from MDC-1 to DC-LP1.5 with 4C25sq.mm PVC/XLPE/CU + 25sq.mm Earth layed on cable Tray	140	LM		
A.5.22	Supply,install and connect feeder cable from MDC-1 to DC-LP1.6 with 4C10sq.mm PVC/XLPE/CU + 10sq.mm Earth layed on cable Tray	15	LM		
A.5.23	Supply,install and connect feeder cable from MDC-1 to DC-L1.1 with 4C25sq.mm PVC/XLPE/CU + 25sq.mm Earth layed on cable Tray	15	LM		
A.5.23	Supply,install and connect feeder cable from MDC-1 to DC-L1.2 with 4C35sq.mm PVC/XLPE/CU + 16sq.mm Earth layed on cable Tray	60	LM		
A.5.23	Supply,install and connect feeder cable from MDC-1 to DC-L1.3 with 4C50sq.mm PVC/XLPE/CU + 25sq.mm Earth layed on cable Tray	90	LM		
A.5.24	Supply,install and connect feeder cable from MDC-1 to DC-P1.1 with 4C185sq.mm PVC/XLPE/CU + 95sq.mm Earth layed on cable Tray	15	LM		
A.5.25	Supply,install and connect feeder cable from MDC-1 to DC-P1.2 with 4C120sq.mm PVC/XLPE/CU + 50sq.mm Earth layed on cable Tray	60	LM		
A.5.26	Supply,install and connect feeder cable from MDC-1 to DC-P1.3 with 4C150sq.mm PVC/XLPE/CU + 70sq.mm Earth layed on cable Tray	90	LM		
A.5.27	Supply,install and connect feeder cable from MDC-4 to MDC-UPS with 4C95sq.mm PVC/XLPE/CU + 50sq.mm Earth layed on cable Tray	100	LM		
A.5.28	Supply,install and connect feeder cable from MDC-UPS to DC-U-G1 with 2C10sq.mm PVC/XLPE/CU + 10sq.mm Earth layed on cable Tray	25	LM		
A.5.29	Supply,install and connect feeder cable from MDC-UPS to DC-U-M1 with 2C10sq.mm PVC/XLPE/CU + 10sq.mm Earth layed on cable Tray	40	LM		
A.5.30	Supply,install and connect feeder cable from MDC-UPS to DC-U-F1 with 4C10sq.mm PVC/XLPE/CU + 10sq.mm Earth layed on cable Tray	55	LM		
A.5.31	Supply,install and connect feeder cable from MDC-UPS to DC-U-F2 with 4C16sq.mm PVC/XLPE/CU + 16sq.mm Earth layed on cable Tray	70	LM		
TOTAL CARRIED TO SUMMARY				US\$	

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.5.32	Supply,install and connect feeder cable from MDC-UPS to DC-U-FM1 with 4C10sq.mm PVC/XLPE/CU + 10sq.mm Earth layed on cable Tray	15	LM		
A.5.33	Supply,install and connect feeder cable from MDC-UPS to DC-U-FM2 with 4C16sq.mm PVC/XLPE/CU + 16sq.mm Earth layed on cable Tray	70	LM		
A.5.34	Supply,install and connect feeder cable from MDC-2 to DC-LP2.1 with 4C150sq.mm PVC/XLPE/CU + 70sq.mm Earth layed on cable Tray	8	LM		
A.5.35	Supply,install and connect feeder cable from MDC-2 to DC-LP2.2 with 4C185sq.mm PVC/XLPE/CU + 95sq.mm Earth layed on cable Tray	55	LM		
A.5.36	Supply,install and connect feeder cable from MDC-2 to DC-LP2.3 with 4C95sq.mm PVC/XLPE/CU + 50sq.mm Earth layed on cable Tray	23	LM		
A.5.37	Supply,install and connect feeder cable from MDC-2 to DC-LP2.4 with 4C185sq.mm PVC/XLPE/CU + 95sq.mm Earth layed on cable Tray	65	LM		
A.5.38	Supply,install and connect feeder cable from MDC-2 to DC-LP2.5 with 4C10sq.mm PVC/XLPE/CU + 10sq.mm Earth layed on cable Tray	22	LM		
A.5.39	Supply,install and connect feeder cable from MDC-3 to DC-LP3.1 with 4C95sq.mm PVC/XLPE/CU + 50sq.mm Earth layed on cable Tray	12	LM		
A.5.40	Supply,install and connect feeder cable from MDC-3 to DC-LP3.2 with 4C35sq.mm PVC/XLPE/CU + 16sq.mm Earth layed on cable Tray	15	LM		
A.5.41	Supply,install and connect feeder cable from MDC-3 to DC-LP3.3 with 4C95sq.mm PVC/XLPE/CU + 50sq.mm Earth layed on cable Tray	55	LM		
A.5.42	Supply,install and connect feeder cable from MDC-3 to DC-P3.1 with 4C95sq.mm PVC/XLPE/CU + 50sq.mm Earth layed on cable Tray	15	LM		
A.5.43	Supply,install and connect feeder cable from MDC-3 to DC-ETP with 4C120sq.mm PVC/XLPE/CU + 50sq.mm Earth layed on cable Tray	35	LM		
A.5.44	Supply,install and connect feeder cable from MDC-4 to DC-LP4.1 with 4C10sq.mm PVC/XLPE/CU + 10sq.mm Earth layed on cable Tray	55	LM		
TOTAL CARRIED TO SUMMARY				US\$	

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.5.44	Supply,install and connect feeder cable from MDC-4 to DC-LP4.2 with 4C240sq.mm PVC/XLPE/CU + 120sq.mm Earth layed on cable Tray	100	LM		
A.5.45	Supply,install and connect feeder cable from MDC-4 to DC-LP4.4 with 4C70sq.mm PVC/XLPE/CU + 35sq.mm Earth layed on cable Tray	40	LM		
A.5.46	Supply,install and connect feeder cable from MDC-4 to DC-LP4.5 with 4C25sq.mm PVC/XLPE/CU + 25sq.mm Earth layed on cable Tray	92	LM		
A.5.47	Supply,install and connect feeder cable from MDC-4 to DC-LP4.6 with 4C240sq.mm PVC/XLPE/CU + 120sq.mm Earth layed on cable Tray	130	LM		
A.5.48	Supply,install and connect feeder cable from MDC-4 to DC-L4.1 with 4C16sq.mm PVC/XLPE/CU + 16sq.mm Earth layed on cable Tray	15	LM		
A.5.49	Supply,install and connect feeder cable from MDC-4 to DC-L4.2 with 4C35sq.mm PVC/XLPE/CU + 16sq.mm Earth layed on cable Tray	130	LM		
A.5.50	Supply,install and connect feeder cable from MDC-4 to DC-PA.1 with 4C185sq.mm PVC/XLPE/CU + 90sq.mm Earth layed on cable Tray	18	LM		
A.5.51	Supply,install and connect feeder cable from MDC-4 to DC-PA.2 with 2x4C150sq.mm PVC/XLPE/CU + 150sq.mm Earth layed on cable Tray	130	LM		
A.5.52	Supply,install and connect feeder cable from DC-4.2 to DC-LP4.3 with 35sq.mm PVC/XLPE/CU + 16sq.mm Earth layed on cable Tray	110	LM		
A.5.53	Supply,install and connect feeder cable from DC-4.2 to DC-LP4.7 with 4C25sq.mm PVC/XLPE/CU + 25sq.mm Earth layed on cable Tray	15	LM		
A.5.54	Supply,install and connect feeder cable from DC-4.2 to DC-LP4.8 with 4C50sq.mm PVC/XLPE/CU + 25sq.mm Earth layed on cable Tray	115	LM		
A.5.55	Supply,install and connect feeder cable from DC-4.8 to DC-LP4.8.1 with 4C25sq.mm PVC/XLPE/CU + 25sq.mm Earth layed on cable Tray	82	LM		
A.5.56	Supply,install and connect feeder cable from MDC-5 to DC-LP5.1 with 4C10sq.mm PVC/XLPE/CU + 10sq.mm Earth layed on cable Tray	10	LM		
TOTAL CARRIED TO SUMMARY				US\$	

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.5.57	Supply,install and connect feeder cable from MDC-5 to DC-LP5.2 with 4C10sq.mm PVC/XLPE/CU + 10sq.mm Earth layed on cable Tray	35	LM		
A.5.58	Supply,install and connect feeder cable from MDC-5 to DC-LP5.3 with 4C10sq.mm PVC/XLPE/CU + 10sq.mm Earth layed on cable Tray	60	LM		
A.5.59	Supply,install and connect feeder cable from MDC-5 to DC-LP5.4 with 4C35sq.mm PVC/XLPE/CU + 16sq.mm Earth layed on cable Tray	105	LM		
A.5.60	Supply,install and connect feeder cable from MDC-5 to DC-LP5.5 with 4C25sq.mm PVC/XLPE/CU + 25sq.mm Earth layed on cable Tray	123	LM		
A.5.61	Supply,install and connect feeder cable from MDC-4 to DC-AC1 with 4C150sq.mm PVC/XLPE/CU + 70sq.mm Earth layed on cable Tray	210	LM		
A.5.62	Supply,install and connect feeder cable from MDC-4 to DC-AC2 with 4C150sq.mm PVC/XLPE/CU + 70sq.mm Earth layed on cable Tray	110	LM		
A.6 BUSBAR TRUNKING SYSTEM					
Ground Floor (BB-1.1.1 to BB-1.1.18, BB-1.2.1 to BB-1.2.10 & BB-1.3.1 to BB-1.3.10)					
A.6.1	Supply of 40A TPN+E Cu. BusBar Trunking Streght Lengths (3m) (Equ. Telemechanique KL / EAE/MOLLER)	310	Len		
A.6.2	Supply of 40A TPN+E End Feed unit for the Item A.6.1	51	Nos.		
A.6.3	Supply of 10A TPN+E Tap off unit for above Trunking System. (with 0.8M cable)	70	Nos.		
A.6.4	Supply of 10A L,N+E Tap off unit for above Trunking System. (with Phase selection & 0.8M cable)	640	Nos.		
A.6.5	Supply of Universal fixing brackets for Item A.6.1	930	Nos.		
A.6.6	Installation of Busbar trunking from First Floor Slab with suspension Rods and mounted in to a 25x25mm Box Iron and painted to white colour in Finishing Area	930	LM		
A.6.7	Supply and installation of feeder cable from DC-P1.1 to BB- 1.1.1 to BB-1.1.18 with 5C10sq.mm PVC/PVC/CU Cable In Cable Tray.	900	LM		
A.6.8	Supply and installation of feeder cable from DC-P1.2 to BB- 1.2.1 to BB-1.2.10 with 5C10sq.mm PVC/PVC/CU Cable In Cable Tray.	300	LM		
TOTAL CARRIED TO SUMMARY				US\$	

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.6.9	Supply and installation of feeder cable from DC-P1.3 to BB- 1.3.1 to BB-1.3.10 with 5C10sq.mm PVC/PVC/CU Cable In Cable Tray.	300	LM		
First Floor BB-1 to BB-114					
A.6.10	Supply of 40A TPN+E Cu. BusBar Trunking Streght Lengths (3m) (Equ. Telemecanique KL / EAE/MOLLER)	940	Len		
A.6.11	Supply of 40A TPN+E End Feed unit for the Item A.6.1	114	Nos.		
A.6.12	Supply of 10A TPN+E Tap off unit for above Trunking System. (with 0.8M cable)	114	Nos.		
A.6.13	Supply of 10A L,N+E Tap off unit for above Trunking System. (with Phase selection & 0.8M cable)	2370	Nos.		
A.6.14	Supply of Universal fixing brackets for Item A.6.10	2820	Nos.		
A.6.15	Installation of bus bar trunking system under the Table with Floor mounted Bracket as per dwg. using side mounted fixing Brackets. (as per the drawings)	2820	LM		
A.6.16	Supply and installation of feeder cable from DC-P4.1 to BB- 1 to BB-44 with 5C16sq.mm PVC/PVC/CU Cable In Cable Tray.	2000	LM		
A.6.17	Supply and installation of feeder cable from DC-P4.2 to BB- 45 to BB-114 with 5C16sq.mm PVC/PVC/CU Cable In Cable Tray.	4150	LM		
First Floor (Engineering Room) BB-E1 to BB-E2					
A.6.10	Supply of 40A TPN+E Cu. BusBar Trunking Streght Lengths (3m) (Equ. Telemecanique KL / EAE/MOLLER)	6	Len		
A.6.11	Supply of 40A TPN+E End Feed unit for the Item A.6.1	2	Nos.		
A.6.12	Supply of 10A TPN+E Tap off unit for above Trunking System. (with 0.8M cable)	2	Nos.		
A.6.13	Supply of 10A L,N+E Tap off unit for above Trunking System. (with Phase selection & 0.8M cable)	16	Nos.		
A.6.14	Supply of Universal fixing brackets for Item A.6.10	18	Nos.		
A.6.15	Installation of Busbar trunking from Second Floor Slab with suspension Rods and mounted in to a 25x25mm Box Iron and painted to white colour in Finishing Area	18	LM		
TOTAL CARRIED TO SUMMARY				US\$	

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.6.16	Supply and installation of feeder cable from DC-LP4.5 to BB- E1 to BB-E2 with 5C10sq.mm PVC/PVC/CU Cable In Cable Tray.	25	LM		
Mezzanine (First Floor) (Sample Room) BB-S1 to BB-S3					
A.6.17	Supply of 40A TPN+E Cu. BusBar Trunking Streght Lengths (3m) (Equ. Telemechanique KL/ EAE/MOLLER)	12	Len		
A.6.18	Supply of 40A TPN+E End Feed unit for the Item A.6.1	3	Nos.		
A.6.19	Supply of 10A TPN+E Tap off unit for above Trunking System. (with 0.8M cable)	3	Nos.		
A.6.20	Supply of 10A L,N+E Tap off unit for above Trunking System. (with Phase selection & 0.8M cable)	33	Nos.		
A.6.21	Supply of Universal fixing brackets for Item A.6.10	36	Nos.		
A.6.22	Installation of Busbar trunking from Second Floor Slab with suspension Rods and mounted in to a 25x25mm Box Iron and painted to white colour in Finishing Area	36	LM		
A.6.23	Supply and installation of feeder cable from DC-LP4.8.1 to BB- S1 to BB-S3 with 5C10sq.mm PVC/PVC/CU Cable In Cable Tray.	55	LM		
A.7. SLIDING BUSBAR TRUNKING SYSTEM (S.BB-1 to S.BB-7)					
A.7.1	Supply of 30A (Minimum) TPN+E Cu. Sliding BusBar Trunking Streght lengths (Equ. DALE) (6 Nos of 34M & 1No 28M)	232	LM		
A.7.2	Supply of 60A (Minimum)TPN+E End Feed unit for the Item A.7.1	7	Nos.		
A.7.3	Supply of 16A (Minimum) TPN+E Slider unit	54	Nos.		
A.7.4	Supply of Fixing bracket for the Item A.7.1	232	LM		
A.7.5	Supply and fixing of end cover for Item A.7.1	7	Nos.		
A.7.6	Installation of bus bar trunking system above the machine as per detail. Rate should include for suspension rods , Angle irons (for mounting Bus Bar trunking) All Steel parts should paint with one coat of Anti Corrosive and one coat of final colour (White) of enamel Paint.	232	LM		
TOTAL CARRIED TO SUMMARY				US\$	

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.7.7	Supply and installation of feeder cable from DC-LP4.4 to S-SS-1 to S-BB-7 with 50sq.mm PVC/PVC/CUC cable on cable tray.	200	LM		
A.8 SUPPLY AND INSTALLATION OF CABLE TRAY					
	Supply install and fixing Powder Coated (RAL 1028) (Perforated) Heavy Duty Return Flange type Cable tray including cantilever arms, Standoff brackets, Bends, Inside & outside risers, Reducers, Equal & unequal tee etc. as per drawings and specifications. (Rate should include for fixing with suspension rods/Brackets accessories etc.) (<i>Equ. Swifts, Hitech, Unirax, OBU</i>)				
A.8.1	500mm x 75mm (1mm Thick Min.)	850	LM		
A.8.2	300mm x 75mm (1mm Thick Min.)	670	LM		
A.8.3	200mm x 75mm (1mm Thick Min.)	490	LM		
A.8.4	150mm x 75mm (1mm Thick Min.)	45	LM		
A.8.5	100mm x 75mm (1mm Thick Min.)	25	LM		
A.8.6	50mm x 50mm (1.5mm Thick Min) Lighting Trunking with Metal/PVC Cover (Powder Coated White Colour) (RAL 9010) (<i>Equ. Salamandre Type LT1 & LT3 or OBU</i>) Each Lighting Trunking Length (5m) should connected by means of a 305mm long internal sleeve connector ensuring strength and rigidity throughout the trunking run.	8050	LM		
A.8.7	Installation of 50mmx50mm trunking system as per detail. Rate should include for suspension rods , any support between roof purling. All Steel parts should paint with one coat of Anti Corrosive and one coat of final colour (White) of enamel Paint. (suspension system)	8050	LM		
TOTAL CARRIED TO SUMMARY				US\$	

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.9 EARTHING SYSTEM					
A.9.1	Supply and install earth electrode (Copper Plate or Rod as per Specification) earth resistance should be below 05 Ohms and connecting cable from MSB-1 to Earth Electrode should be 240sq.mm .	1	No.		
A.9.2	Supply and install earth electrode (Copper Plate or Rod as per Specification) earth resistance should be below 05 Ohms and connecting cable from MSB-2 to Earth Electrode should be 240sq.mm .	1	No.		
A.9.3	Supply and install earth electrode (Copper Plate or Rod as per Specification) earth resistance should be below 05 Ohms and connecting cable from MDC-UPS to Earth Electrode should be 120sq.mm .	1	No.		
A.9.4	Supply and install earth electrode (Copper Plate or Rod as per Specification) earth resistance should be below 05 Ohms and connecting cable from MDC-AC1 to Earth Electrode should be 240sq.mm .	1	No.		
A.9.5	Supply and install earth electrode (Copper Plate or Rod as per Specification) earth resistance should be below 05 Ohms and connecting cable from MDC-AC2 to Earth Electrode should be 240sq.mm .	1	No.		
A.10 ANALYSER CABLING					
A.10.1	Supply and installation of Cat 5 Cable to connect all Power Analysers and terminate same in maintenance room. Cables must install in PVC Conduits.	700	LM		
A.11 SUPPLY AND INSTALLATION OF LIGHTNING ARRESTOR					
A.11.1	Supply and install Early Streamer Air Termination (with 120m Dia coverage) including 6m long galvanize post as per specification (Equ. Helita, Prevedtron or E.F). As per detail Drawings (At Roof top Grid 1-2 & A-B and 26-27 & A-B)	2	Nos.		
A.11.2	Supply and install Bare Copper tape or cable minimum cross section area of 50sq.mm including test point, as per specification.	100	LM		
A.11.3	Supply and install earth electrode (Cu Plate) and connect to down conductor. (Earth resistance should be below 05 Ohms)	2	Nos.		
TOTAL CARRIED TO SUMMARY				US\$	

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A.12 WIRING FOR DATA & TELEPHONE OUTLETS					
A.12.1	Supply and installation of Data Point with Cabling using Cat 6 in PVC Conduits and terminate nearest Data Switch.	291	Nos.		
A.12.2	Supply and installation of Telephone Point with Cabling using Cat 6 in PVC Conduits and terminate nearest Data Switch.	172	Nos.		
A.13 SUPPLY AND INSTALLATION OF C-BUS SWITCHES					
A.13.1	Supply of 3Key C-BUS Switch (5093NL-WE) with Surface mounted Box	202	Nos.		
A.13.2	Supply of 2Key C-BUS Switch (5092NL-WE) with Surface mounted Box	55	Nos.		
A.13.3	Supply of 1Key C-BUS Switch (5091NL-WE) with Surface mounted Box	48	Nos.		
A.13.4	Installation of above Switches	305	Nos.		
A.13.5	Supply and installation of Cat 5 Cable in PVC conduits and link all Switches and Distribution Boards.	2000	L.M		
A.14 SUPPLY AND INSTALLATION OF THREE COMPARTMENT TRUNKING					
A.14.1	Supply and installation of 3 Compartment Trunking (Equ. Marshall Tuflex) (Sterling Profile 1) 167mm x 50mm	300	L.M		Rate Only
A.14.2	1Gang Accessory Plate to Fix Socketoutlet	300	Nos.		Rate Only
A.14.3	1Gang Socket outlet box for above	300	Nos.		Rate Only
A.14.4	Internal Bend	50	Nos.		Rate Only
A.14.5	External Bend	50	Nos.		Rate Only
TOTAL CARRIED TO SUMMARY				US\$	

B. PRELIMINARY

	DESCRIPTION	AMOUNT
B.1	Allow for clearing the site of all surplus materials, rubbish, debris and temporary works on completion of the contract to the satisfaction of the Client/Consultant	
B.2	Allow lump sum for providing Advance Payment Guarantee etc.	
B.3	Allow Lump sum for providing a Performance Bond	
B.4	Provide Lump Sum for Insurance of property, materials and works at site.	
B.5	Provide Lump Sum for Third Party Insurance	
B.6	Provide Lump Sum for Insurance against accidents and injury to workmen.	
B.7	Allow Lump Sum for providing of progress Charts, Schedules, Shop Drawings, as Built Drawings etc. as per specifications	
B.8	Provide Lump Sum for protecting and safe guarding the works, materials and plants against damage, trespass or theft.	
B.9	Provide Lump Sum for built own store space/Room at site.	
B.10	Provide Lump sum for submit Insulation Test Report for the complete installation. To obtain BEPZA Connection	
B.11	Arrange documentation work for BEPZA Approvals for the complete Electrical Installation.(Including Lamp Fittings, panel Boards Etc)	
US\$		

**ELECTRICAL INSTALLATION
SUMMARY**

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	GRAND TOTAL	US\$

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Signature

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Date