Client Name: TFA HYDERABAD FL Group

New no:7, Old no:4, 4th Cross Street, Shenoy Nagar West , Chennai-600030 GSTIN: 33'AACCF7383A1ZY

Quote: FL-2011/850 Date:04-03-2024

BILL OF QUANTITIES AND ESTIMATE								
PROJECT: FF-052_HATTI KAAPI DATE: 07.02.2024								
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ELECTRICA	L SERVICES, CCTV & DATA - WORKS BILL OF QUANTITIES AND	ESTIMA	TE	STATUS:		TENDER		
	GENERAL NOTES :					I		
Item Code A	Item Name METER / METER PANEL	UOM	Qty	UNIT COST	AMOUNI	REMARKS	SWAN REMARKS	MAKES
A.1	Supply, Installation, Testing & Commissioning of kWH / MFM Energy Meter Panel complete with Enclosure (If required as per site condition / Airport TDM). Energy Meter shall be of Digital kVAH Type and Make / Manufacturer from below list, or any other make with kVAH option with Approval from TS Department. For Make refer list below, Single Phase (For load below 40A): Make - MID (Algodue Electronica), Model - UEM 40-2C. Type - Direct. Three Phase (For load below 60A): Make - Secure, Model - Sprint 350, Type - Direct. Three Phase (For load above 60A): 1) Make - Secure, Model - Elite 445, Type - C.T. 2) Make - Conzerv (Schneider Electric), Model - EM6438, Type - C.T. 3) Make - L & T, Model - Vega TM (WDM303FDWA1), Type - C.T.							
A.1.1	63A/5A ENERGY METER (DIRECT TYPE)	Nos.	1	19416	19416			
В	LV CABLING							
B.1	Supply, Installation, Testing & Commissioning of Fire Rated LS/LSZH PVC insulated PVC sheathed, Copper conductor, Steel Tape / Wire Armoured, 1100V grade cable, Number of Cable Core as per SLD / Load Calculation Sheet (Main Cable) & Unarmoured Single Core Wire (ECC), complete with Termination of the same with Single Compression Brass Glands, Solderless Tinned Copper Lugs, Gland earthing, etc. The cable shall be laid Underground / on Cable Tray / through Cable Trunking / in Pipe / on Wall / Trench as required. Make: Electrical Wires & Cables: Finolex, Polycab, RR Kables, KEI or equivalent. For cables laid on Cable Tray / in Pipe / on Wall / Trench - the rate shall include necessary supporting / clamping arrangements.							
B.1.1	1C x 16 MM2 Wire	Mtr.	15	456	6840			
B.1.2	1C x 10 MM2 Wire	Mtr.	30	312	9360			
С	DISTRIBUTION BOARDS							

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	Supply, Installation, Testing & Commissioning of Surface / Flush mounting 10kA / 25kA (As per Panel requirement) Distribution Boards. The DB shall be made out of 1.2 mm CRCA sheet steel enclosure and powder coated complete with cable gland plate & knock out at the top and bottom. The DB shall have hinged lockable door. The busbar shall be tinned copper, for phases mounted on suitable type Insulator, Independent neutral busbar including inter connecting wiring & earth bus on insulation mount.						
	Make: Electrical Panel / DB's & Breakers (MCB, RCBO, ELCB & MCCB): Legrand, Siemens, ABB, Schneider or equivalent.						
	All DB's must named as per the SLD / Load Calculation Sheet. Laminated SLD & Load Calculation Sheet shall be placed near to DB Panel Locations.						
	The RCCB / RCBO shall be Hpi / Si series & MCB's shall be 'B" / 'C' Curve (As per requirement).						
	LPDB						
C.1.2	4 Way TPN Panel Board with 32A 30mA 4P RCBO incomer,and outgoings as per SLD & Load Calculation Sheet.	Nos.	1 4178	4 41784			
	UPS DB						
C.1.3	4 Way SPN Panel Board with 20A 30 mA 2P RCBO incomer and outgoings as per SLD & Load Calculation Sheet.	Nos.	1 6984	6984			Legrand / Indo Asian
	LIGHT FIXTURES POINT WIRING						
D.1	Supply, Installation, Testing & Commissioning of Light Fixture Point wiring (Light Fixtures to be as approved by Architect Design & BOQ) with Lamps, Ballasts / Drivers / Starters, Switches / Lighting Control Switch Board with Fire Rated LS/LSZH PVC insulated Flexible Copper Wires 660/1100V grade through suitable size Gl Conduit / Heavy Duty PVC Conduit / Gl Trunking (Containment size & Type selection as per site requirement), complete with suitable Gl Back boxes, Earthing, accessories, flexible conduits, glands, saddles, supports, ropes for future wire pulling, Labeling of wires etc. with Termination of the same with Solderless Tinned Copper Lugs, etc. carrying out Surface / Concealed wiring as per site condition & maintain aesthetic of the unit. Wiring shall be as per IS 732. Make: Light Fixtures: Philips, Wipro, Crompton, Syska or equivalent. Make: PVC Conduits: Sudhakar, Shakti or equivalent. Make: Gl Conduits: Techno Flex India, K. M. Cables & Conduits or equivalent with Airport approval. The rate shall include wall chasing, chipping of floors, rough plastering, providing suitable supports / brackets for conduit and Trunking suspension.					Rate quoted is as per the Drawing 2R 2.5 + 1 R 1.5 Sqmm PVC insulated LSZH Copper Wires	
D 1 0	TDACK LIGHT (Doint Witter and A	l NI== I	0 570	45000			
D.1.2	TRACK LIGHT (Point Wiring only)	Nos.	8 573	45888		_	

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Item Code	Item Name	MOU	Qty 2	UNIT COST	AMOUNT	REMARKS	SWAN REMARKS Quoted for GI	MAKES Lapp infra /
D.1.5	SIGNAGE LIGHTS (Point Wiring only)	Nos.		5736	11472		Conduit	RR Kabel
D.1.6	LIGHTING CONTROL SWITCH BOARD WITH SWITCHES AS REQI	Nos.	1	2208	2208			
E	WIRING DEVICES (SWITCHES & SOCKETS)							
E.1	Supply, Installation, Testing & Commissioning of Wiring Devices (Switches & Sockets - Face Plate Finish as approved by Architect / Matching to Architecture Finishes) with Fire Rated LS/LSZH PVC insulated Flexible Copper Wires 660/1100V grade through suitable size Gl Conduit / Heavy Duty PVC Conduit / Gl Trunking (Containment size & Type selection as per site requirement), complete with suitable Gl Back boxes, Earthing, accessories, flexible conduits, glands, saddles, supports, ropes for future wire pulling, Labeling of wires etc. with Termination of the same with Solderless Tinned Copper Lugs, etc. carrying out Surface / Concealed wiring as per site condition & maintain aesthetic of the unit. Wiring shall be as per IS 732. Make: Switch & Sockets: Anchor Roma / Penta, Legrand, Havells Crabtree, Finolex, L & T Switchgear or equivalent. Make: PVC Conduits: Sudhakar, Shakti or equivalent. Make: Gl Conduits: Techno Flex India, K. M. Cables & Conduits or equivalent with Airport approval. The rate shall include wall chasing, chipping of floors, rough plastering, providing suitable supports / brackets for conduit and Trunking suspension.							
F 1 1	10.4 CIVIOLE CHATCHED COOKET OLITLET	L N	10	1010	10100	I		
E.1.1	13A SINGLE SWITCHED SOCKET OUTLET	Nos.	10	1212	12120		Rate quoted is	
E.1.2	16A SINGLE SWITCHED SOCKET OUTLET (METAL CLAD)	Nos.	3	2328	6984		exclusive of	
E.1.3	20A SINGLE SWITCHED SOCKET OUTLET (METAL CLAD)	Nos.	2	2328	4656		wiring	
E.1.4 F	13A DUAL SWITCHED SOCKET OUTLET CONTAINMENT (CABLE TRAY & TRUNKING)	Nos.	2	2292	4584			
F.1	Supply & Installation of GI Cable Tray & GI Cable Trunking, through Wall / Ceiling / Floor as per drawings, complete with standard accessories / factory made fittings, earthing throughout the run with copper braids, wall / ceiling suspended supports, etc. Make: Cable Management System: Dudhat, Super, K.R. Power supports or equivalent with Airport approval.							
F.1.1	50 x 50 MM CABLE TRUNKING	Mtr.	3	720	2160			
G .1	Supply, Installation, Testing & Commissioning of UPS along with required Battery for specified back-up time, complete with Battery Stand (If required) & standard accessories / equipments required for complete functioning of the system, earthing, support system (if required), etc. Make: UPS System: Luminous, APC, Microtek or equivalent with Airport approval.							Eaton / Vertive / Lumeric
	equivalent with Airport approval.					ı		
G.1.1	1KVA Single phase UPS with 30 Minute Back-up	Nos.	1	78852	78852			
Н	CCTV SYSTEM							

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em Code		Item Name	UOM	Qty	UNIT COST	AMOUNT	REMARKS	SWAN REMARKS	MAKES
Н.1	System with suitable size GI Conduit / GI I selection as per site in GI Back boxes, Earth glands, saddles, supple Labeling of wires etc CCTV console / DVR Concealed wiring as aesthetic of the unit. Make: CCTV System equivalent with Airport Make: GI Conduits: Conduits or equivalent with Airport Make: GI Conduits or equivalent Make: Conduits or equival	a : Hikvision, Honeywell, Dahua, or ort approval. Techno Flex India, K. M. Cables & ent with Airport approval. e wall chasing, chipping of floors, oviding suitable supports / bracket	hble h					Rate quoted is exclusive of wiring	
H.1.1	confirmed by client, with all neccessary c	a, 4 Megapixel / As approved or Real Day / Night, Exir, IR LED, IP 67 accessories, Power supply units etc era (CAT 6), 4 Megapixel / As ned by client, Real Day / Night, Ex	ir IR	1	8988	8988		Hikvision model No - DS- 2CD1343G0E-I	
H.1.2	1 ' '	ccessary accessories, Power supp	NOC	1	8988	8988			
H.1.3	DVR with 45 Days Ba	·	Nos.	1	48180	48180		Hikvision model No DS - 7200HUHI - K/P	
<u> </u>	DATA NETWORK SYST	EM							
1.1	Telephone Network Suitable size GI Conc Trunking (Containmerequirement), compl Earthing, accessories supports, ropes for fuetc. with Termination carrying out Surface condition & maintain Make: IT Cables & A 7834ANC).	resting & Commissioning of Data & System with required cabling through the system with required cabling through the system with required cabling through the system of the system of the same with IDF Rack, etc. / Concealed wiring as per site in aesthetic of the unit. Accessories: Belden (Part Code - e wall chasing, chipping of floors, oviding suitable supports / bracket g suspension.	ugh Gl G S,					Rate quoted is exclusive of wiring	
	Dual Data outlet (RJ	45) Jack	Nos.	1	1992	1992			Legran
1.1.1	· ·		Nos.	3	1164	3492			Arteor
I.1.1 I.1.2	Single Data outlet (R	J45)	1105.	J	1104	0172		_	Anchor Pa
	Single Data outlet (R Patch Cords (1.5 me	•	Nos.	5	360	1800			Anchor Ro

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