

BOQ FOR ADDITIONAL WORKS OF TIRUPATI CIRCLE OFFICE

S.NO	DESCRIPTION OF ITEM	UNIT	Qty	Rate	Total
	Supply and installation of VTPN DB, wall mounted front operated totally enclosed vermin proof, as per manufacturers specifications , incorporating horizontal and vertical sleeved aluminium busbars, complete with all internal wiring, danger board, two earthing legs, cable chamber etcshrouded bus bar netural bus bar corner safe door earthing etc. as required, housing below-mentioned switchgears / meters. (DB got to be approved by Bank / Architect)				
	(MCCB - L&T/MDS, MCB-MDS/Hager)				
1.1	8 way Three Phase VTPN DB(with Double door) for Floor distributioDB's i)Incomer: 100A 4P 16KA MCCB ii) Outgoing: 40A DP MCB 4 Nos iii) 63A DP MCB 6 Nos	nos	2		
1.2	S & I of 12 WAY SPN, DB similar to above for UPS - OUTPUT DB as per the layout .				
	1 no, 40/63A, DP, MCB incomer				
	5 Nos. 32 AMPS,DP, MCB, outgoing				
	Full Set as above	nos	3		
1.3	S & I of 8 WAY SPN, DB similar to above for UPS - DB as per the layout .				
	1 no, 40/63A, DP, MCB incomer				
	8 Nos. 16 AMPS,SP, MCB, outgoing	nos	6		
1.4	Suply and installation of 6 way, TPN MCB type AC distribution Board flush mounted on wall, sheet metal fabricated, powder coated , having dust - proof and vermin proof, gasketed and hinged door with all internals such as DIN rails, neutral - link, interconnected wiring, complete with earthing lugs housing following switchgears (ACDB) .				
	1 no.,63A, TPN, MCB incomer				
	18 nos, 6-32, SP, MCB outgoing				
	Full Set as above	nos	2		
1.5	S & I of 100A,FP MCCB/MCB switch in sheet metal enclosure UPS IN & OUT PUT	nos	6		
2	Supplay and Laying 4runs X 10 Sq.mm Copper. Flexibul cable for UPS Incoming & Out goings	Mtr	55		
3	Supplay and Laying 4C X 16 Sq.mm CU. Arm cable for VRV'S AC Out Door Unit to Whether prof box	Mtr	50		
3.1	Supplay and Laying 4C X 25 Sq.mm AL . Arm cable for VRV'S AC Out Door Unit Ac Panel To Whether prof box	Mtr	140		
4	Supplay and Laying 3C X 2.5 Sq.mm CU.Flexibul cable for Cassette Acs indoor units	Mtr	500		
5	Supplay Laying 4C x 95 sq.mm Al armord cable. VTPN Db incoing	Mtr	30		
6	Supplay and Laying 4C X 6 Sq.mm Cu. Arm cable for AC DB'S INCOMING	Mtr	80		
7	Supplay and Laying main panel to Ac panel 4 core 185 sqmm Al armord cable	Mtr	15		
8	Supplay and Laying main panel to Lighting Row power panel 4 core 120 sqmm Al armord cable	Mtr	15		
	WEATHER PROOF ENCLOSURES WITH SUITABLE ELCBS FOR VRF/VRV O/D UNITS				
9	Supply and fixing of factory made following ratings 63 A FP ELCBs with 300mA sensitivity IP 65 Enclosure all fixing accessories complete as required.	nos	6		
9.1	DP Enclosures along with suitable supports, interconnections including 1 no, 32 A , DP, MCB, SPLIT AC				
	Full Set as above	nos	13		
10	PA & MUSIC SYSTEM				
10.1	S & I of point wiring for music - cum PA system comprising of 2x 1.0 sqmm stranded, copper conductor, flexible PVC insulated and PVC Sheathed wire pulled through 20 mm dia PVC heavy gauge conduits and looped from one speaker to other and to the volume control and control switch wherever applicable and finally terminated at Tag Block.	nos			
10.2	S & I of Bosch/ make music 6W (101.6mm Diameter) speaker flush mounted on the false ceiling with proper clamping arrangement	nos			
10.3	S & I of volume control - cum - ON - OFF switch flush mounted on wall along with other electrical switches .The size and plate of the regulating knob should match with other switches nearby (MK make)	nos			

10.4	S & I of 200 Watts Amplifier (nearest standard available rating) Ahuja make	nos			
11	Supply and fixing of following size GI Lader type cable tray made out of 150 mm 2mm thick galvanized sheet and the tray covered with 2mm thick cover including GI / MS supports for fixing the tray, anchor fasteners etc., complete as required. (Data & Voice Cables)				
12	LIGHTNING PROTECTION ON TERRACE FLOOR				
12.1	Supply, Installation, testing & commissioning of vertical air termination with 100mm dia copper hollow sphere with spikes , fixed on 2500mm length 40mm dia GI Pipe and guying supports, including base PCC block and all fixing accessories etc.	Nos	4		
12.2	Supply, Installation, testing & commissioning of Lightning Event counter .	Nos	1		
12.3	Supply & Installation of the 25X3mm GI earthing strip along the cable trenches or cable trays or fixing to walls (by using proper size of spacer and saddles) or structures or buried individually in paved /unpaved areas (minor civil work like chipping of paved surface finishing after laying grounding loop, etc. Welding at joints, providing anti-corrosive paint for welded portion, clamping & necessary hardware for connection, excavation & refilling etc Including provision for risers at places as per approved drawings & all other required materials complete as per drawings, specifications of this tender & directions of site in-charge. including earthing Clamps, terminal lugs etc. Panels body Erthing & Lighting Protection	Mtr	280		
13	Supply and fixing copper plate earth station conforming to IS 3043 complete with 600 x 600 x 3.15 mm thick copper plate, 40 mm dia., GI pipe of 2.5 m length, 450 x 450mm brick masonry charcoal, salt, chamber, plastering, CI cover, CI frame, watering funnel, NF/Cadmium plated fasteners, etc.	nos	2		
14	supply and fixing 6 module pop-up box with 2 nos 6A Socket with 1 nos 16 A Switch and 1 no RJ45	nos	15		
15	supply, fixing and erection of 450 mm wall mounted fans (Metal body) in the position required for the bank	nos	53		
16	Supplay and instalation 25 mm profile light with 6 w Led strip including driver	mtr	80		
17	Supplay and instalation cove light	mtr	100		
18	supplay and instalation 25x 3 mm coper stip for ups Erthing with insuleter	mtr	100		
19	Supaly and instalation Rubber mat of size 1000 x 1800 x 2 mm thick, 11000 V grade.	nos	2		
	LT PANELS.				
	MV Panels				
	Supply, Installation, Testing and Commissioning of 3 phase 415V 4 wire Free Standing Floor mounted MV panel made out of 14 SWG CRCA sheet after seven tank process and painting with Epoxy powder coating including all switchgear as detailed below. The panel shall consist of suitable rating TPN Aluminum- busbar (at the rating of 0.8ASq.mm) supported withDMC/ SMC barriers and colour coded with Heat shrinkable sleeves. The Metering shall be provided as specified. The panel shall have Short circuit with standing capacity of minimum 50KA and consist of the switchgear as mentioned below.				
	The panel shall be mounted on channels grouted to the floor including all materials. The panel shall be got fabricated from manufacturers with CPRI Test certificate only. All the PCC/ Panels shall have at least two spare cubicles of the maximum rating. All feeders shall be earthed with 2 GI flats of adequate size to the main earth bus of 50x6mm GI flat. The size of all Panel Mounting Meters shall be 96X96mm.The Panels shall be mounted on U channels including supply and fixing of the same. Fuses shall be provided for Control purposes (All Panels shall be extendable type only).				
	Main Panel				
	EB Incomer : 630A 25KA,TPN MCCB with overload,Earth fault & Earth leakage releases with resincast CBCT – 1set				
	Outgoings :				
	100A TP MCCB 25 KA -2nos				
	160A 25KA TP MCCBs -1nos				

	200 TP MCCB -1 NOS				
	63 A TP MCB s -6nos				
	40A DP MCB s -3nos				
	Metering				
	0-500V Digital Voltmeter with selector switch and fuses-2 sets				
	0-800A Digital Ammeter with resin cast CTs of ratio				
	800/5A, Class 1 Accuracy and 15VA burden and				
	selector switch -1 set for each Incomer				
	LED Phase indication lamps with individuals fuse and control				
	with toggle switches- 3sets for each	No.		1	
	EB&DG PANELS				
	Incomer : 200A 25KA, TPN MCCB with				
	overload,Earth fault & Earth leakage releases with resincast CBCT – 1set				
	200 A ATS : Electrically operated,				
	Busbars : 200A TPN Aluminium Busbars				
	with 100% neutral - 1Set				
	Outgoings:				
	160A 25KA TP MCCBs -1nos				
	100A 35KA TP MCCBs –1nos				
	63A TP MCBs-5nos				
	40A DP MCB s -3nos				
	Metering :				
	i) 0 - 200V Digital Voltmeter with Selector switch – 3sets				
	iii) 0-200 Digital Ammeter with CTs and selector switch -3sets				
	iv)LED type Phase indication lamps with				
	individual TPMCB control and toggle switches -3sets				
	v) Control MCBs for Power failure indication -1set				
	Note : Electrical Interlocking to be provided for EB DG	No.		1	
	Excluding Gst				
				Total	-