

SCHEDULE OF RATES

ELECTRICAL WORKS AT DAUGHTER BOOSTER STATION AT RAVULAPALEM, GGPL.

Item. No	Item Description	Unit	Quantity	Unit Rate	Amount
1.A	Providing and construction of direct buried Cable trench of 500mm width & 800mm depth including soil excavation, sand filling, bricks arrangement, back filling of soil, levelling of grade level, cable route markers, etc., Soil to be leveled and neatly dressed complete in all respect as per scope of work, detailed construction drawings and directions of the Engineer-incharge.(NOTE: Rate for cable laying shall be separately provided in item No.5)	RM	57		
1.B	Supply and Laying of RCC Hume Pipe 150mm dia at a depth of 800mm at road crossing. (Note: scope of soil excavation is already included in item:1.A mentioned above)	RM	24		
2	Supply including design, assembly, wiring, Installation, Testing and Commissioning of Power distribution board of 415V AC, 100A, TPN, 25kA, Aluminium bus having incomer 100 Amp , 4P MCCB with shunt trip coil and required number of outgoing feeders as per Single Line Diagram. The Incomer must be provided with ammeter & ammeter selector switch, Voltmeter& selector switch, indication lamps. Panel shall be of sheet steel construction suitable for indoor Floor/wall mounted type with appropriate size to accommodate all components and capacitor bank (10 kVAR). Motor feeder shall be in individual compartmentalized arrangement and all other MCB feeders can be combined in single compartment . All MCCB shall be provided with rotary handle switch. Panel shall have bottom cable entry with removable gland plate.Distribution panels shall comply with the latest Relevant Indian Standards and Electricity Rules and Regulations and shall be as per IS: 8623 (Part -I) 1993, IS: 13947:1993, IS: 5578 - 1984, IS: 11353:1985 and other related IS codes. The colour of panel inside / outside shall be RAL 7032 (Powdercoating). Vendor to provide GA drawing of panel, all test certificates and FAT report before despatching panel to site for approval.	Nos.	1		

3	Supply, Installation, Testing and Commissioning of 240V AC Single phase UPS distribution board with incomer 25 Amp, 10kA, DP MCB and out comer having Four numbers of 10 Amp, 10kA, DP MCB with all accessories as per Single line diagram. The panel shall be wall mounted type suitable for indoor installation. The panel shall have bottom cable entry and shall be wall mounted type suitable for indoor installation. Distribution board shall be of sheet steel construction with single door arrangement, standard DB enclosure or fabricated enclosure with appropriate size to accommodate all feeder components.	Nos.	1		
4	Supply, Installation, Testing and Commissioning of 2 KVA, 230V AC, 50Hz , 1 Phase online double conversion AC UPS with 1X100% charger , 1X100% inverter with static and maintenance bypass switch, 1X100% SMF VRLA 12V, 100Ah Batteries 8 nos. (for Battery back-up time of 4 hours) unless otherwise specified including UPS to battery connecting cables and supporting rack arrangements, accessories. Input Power: 240 V AC, 50 Hz,1 phase.	Nos.	1		
5	Supply, Laying, Testing and termination of 1.1 kV grade, steel wire armoured, Aluminium /Copper conductor cable of following sizes & type in underground hume pipe/ buried trench/on wall/structural surface as specified with all necessary consumables, steel tag plates and job includes cable terminations etc. required and as directed by EIC.				
5.1	2C x 2.5 Sq.mm - 2XWY Cable	m	30		
5.2	2C+E x 2.5 Sq.mm - 2XWY	m	300		
5.3	2C+E x 4 Sq.mm - 2XWY Cable	m	20		
5.4	3.5C x 25 Sq.mm - A2XFY Cable	m	75		
5.5	4C x 35 Sq.mm - A2XFY Cable	m	10		
5.6	3C x 4 Sq.mm - 2XWY Cable	m	75		
6	Supply, Installation of double compression cable glands, nickel-plated brass industrial type cable glands suitable for indoor installation as specified conforming to IS 2148 of following sizes cable for termination of 1.1 kV grade armoured LT XLPE Cables.				
6.1	2C x 2.5 Sq.mm - 2XWY Cable	Nos.	2		
6.2	2C+E x 2.5 Sq.mm - 2XWY Cable	Nos.	3		

6.3	2C+E x 4 Sq.mm - 2XWY Cable	Nos.	5		
6.4	3C x 4 Sq.mm - 2XWY Cable	Nos.	1		
6.5	3.5C x 25 Sq.mm - A2XFY Cable	Nos.	1		
6.6	4C x 35 Sq.mm - A2XFY Cable	Nos.	2		
7	Supply, Installation of double compression cable glands, flameproof cable glands suitable for outdoor zone-2, gas group IIA/IIB, T3 area. Cable glands suitable for outdoor installation for the termination of following sizes of 1.1 kV grade armoured LT XLPE Cables.				
7.1	2C+E x 2.5 Sq.mm - 2XWY Cable	Nos.	8		
7.2	3C x 4 Sq.mm - 2XWY Cable	Nos.	1		
7.3	3.5C x 25 Sq.mm - A2XFY Cable	Nos.	1		
8	Supply, Fixing of cable lugs suitable for the termination of following sizes of 1.1 kV grade armoured LT XLPE Cables.				
8.1	2.5 Sq.mm - tinned copper, insulated, compression type lug	Nos.	30		
8.2	4 Sq.mm - tinned copper, insulated, compression type lug	Nos.	18		
8.3	25 Sq.mm - Aluminium, insulated, heavy duty, tubular type lug	Nos.	8		
8.4	35 Sq.mm - Aluminium, insulated, heavy duty, tubular type lug	Nos.	8		
9	Supply, Laying of GI Strip (for earthing) of following sizes, including Soil Excavation for buried earthing grid, clamped to wall/structure/RCC trench including termination at the required points by welding/nut bolts with all earthing connection fixing material as per earthing layout & installation drawing.				
9.1	40 x 5 mm GI earth Flat	m	85		
9.2	25 x 3 mm GI earth Flat	m	55		
10	Construction of Electrical Earth pits as per the installation drawing using 65 mm NB dia GI pipe medium (class-B) - 3M long including supply of all material such as 50x6x250mm long GI plate with 4 nos. of 10mm holes for main grid connection, salt, charcol, fixing accessories. Earth pit shall be covered by chequered plate (500x500x6mm) & testing of earth pits as per latest version of IS: 3043 & specification	Nos.	2		

11	Construction of Instrument Earth pits as per the installation drawing using 65 mm NB dia GI pipe medium (class-B) - 3M long including supply of all material such as 50x6x250mm long GI plate with 4 nos. of 10mm holes for main grid connection, salt, charcol, fixing accesories. Earth pit shall be covered by chequered plate (500x500x6mm) & testing of earth pits as per latest version of IS: 3043 & specification.	Nos.	1		
12	Supply and Installation of Steel tubular light pole of 7.5 m height including construction of concrete pole foundation as indicated in the lighting layout & installation drawing. A base plate 300 x 300 x 10 mm shall be welded to the bottom of the pole. The steel tubular pole shall be painted with black bituminous paint internally and externally up to the portion which goes inside the concrete. A 50 mm dia GI pipe sleeve shall be embedded on lighting pole concrete foundation (1.5m each approx. with bend) for lighting cable entry to lighting pole from below ground as indicated in installation drawing. The light pole shall be supplied with single arm mounting bracket & fixing accesories for mounting Flameproof LED Flood light fixture.	Lot	1		
13	Supply and Installation of Lighting pole Junction Box, flameproof and weatherproof type to be fixed on pole, 550 mm above ground level along with a suitable earth terminal as per installation drawing.	Nos.	1		
14	Supply and Fixing of Flameproof 90W LED Flood type or Well glass type lighting fixture with suitable mounting bracket for fixing on lighting pole. (Make: FCG/Baliga/Equivalent)	Nos.	1		
15	Supply and Installation of Weatherproof Emergency stop button, Mushroom head type, 1NO+1NC with metal enclosure suitable for wall mounted installation which can be fixed at outside the panel room or near to the sales/dealer room. Push button shall be connected to PDB incomer MCCB shunt trip coil. Scope shall also includes supply & installation of PVC conduit for routing the E-Stop pushbutton cable.	Nos.	1		

TOTAL AMOUNT :

Rs.

SERVICE TAX PERCENTAGE

(Present rate of Service Tax, SBC & KKC is 15.00%.

%

SERVICE TAX AMOUNT

Rs.

Grand Total

Rs.

NAME OF AUTHORIZED PERSON SUBMITTING THE TENDER ON BEHALF OF THE BIDDER (S):
DESIGNATION OF AUTHORIZED PERSON:
NAME OF FIRM / CONTRACTOR: