

**Quotation for Electrical Works related to the Improvement of Voltage at Kerala University Quarters at Karyavattom Campus- Requotation**

Sl. No.	Item Description	Quantity	Units	BASIC RATE In <b>Figures</b> To be entered by the <b>Bidder</b> Rs. P	<b>TOTAL AMOUNT Without Taxes</b>
1	2	4	5		
1	<b>Panel Board</b>				
1.01	od117012/2023_2024 : Fabrication, supply, conveyance, installation, testing and commissioning of standalone self supported type, dust and vermin proof, cubicle type MV Out door type Feeder pillar box with housing confirming to IP65 and IS 8623 standards comprising of the following components/&lt;br&gt;devices &amp; complying to IS 8623.&lt;br&gt;Fabrication of fully partitioned weatherproof, dust and vermin proof,enclosure for panel assembly as per form 4 of IS 8623 (with latest amendments) using CRCA sheet as per approved design and requirement, with front and rear access facility, bus bar chambers, hinged doors for all switch&lt;br&gt;gear compartments, Totally enclosed Hinged doors at the entire portion of the front and rear side for water tight arrangements, integral slanted top canopy projected all four sides to prevent entry of rain water,earthing the doors using 4 sq mm braided copper conductor, providing necessary cut-outs for mounting meters, relays, indication lamps, bus bar interconnection etc, detachable covers for bus bar chamber and cable alley, powder coating the assembly after subjecting to 7 tank process etc as required. The cable entry arrangement shall be at the bottom and from back side through a detachable gland plate for entry/exit of the incoming &amp; outgoing cables.CRCA sheet alone be used for the fabrication. Angles/ flats/ slotted angles eteshall not be used for the fabrication of panel assembly. The measurments will be taken the area of the complete sheets used for panel board including partitions, folding, shrouding etc.&lt;br&gt;Supply and fabrication of MV panel board using 2.00mm CRCA sheet, powder coated (excluding base frame)	10.0000	sqm		

1.02	90.14.3.2 Supply and providing heavy duty 'A' section neoprene gasket in the panel board U' section rubber bedding suitable for 1.60/ 2.00 mm sheet	15.0000	metre		
1.03	90.14.6 : Supply and providing copper bus bars including finger type SMC bus bar supports in the bus chamber, suitable size nut & bolt, providing heat shrink sleeves etc. as required.	2000.0000	Cum cm		
1.04	90.14.7 Supply and providing copper earth bus in the panel board	250.0000	Cum cm		
1.05	od241004/2023_2024 Providing and fixing 125A,415V,50 Hz AC,HRC Fuse Holder for R,Y and B Phase inside the existing Pole Mounted Fuse Box, with ISI marked HRC fuses including drilling holes in cubicle panel, making connections, etc. as required.	3.0000	set		
1.06	od241005/2023_2024 : Providing and fixing 3 nos of 200A,415V,50 Hz AC,HRC Fuse Holder for R,Y and B Phase inside the existing Pole Mounted Fuse Box, with ISI marked HRC fuses including drilling holes in cubicle panel, making connections, etc. as required.	2.0000	set		
1.07	od241006/2023_2024 : Supply and making Heat Shrinkable Sleeve of size 25 mm in the Existing Cable as required.	5.0000	metre		
1.08	od122017/2023_2024 : Supply and Fixing of Red, Green, Blue, Yellow, Orange colours LED indicator, AC/DC, 22.5 mm cut including Connection etc..as required	6.0000	each		

1.09	od122018/2023_2024 : Supply and installation of 250/5 A, 10 VA, tape wound metering CT of accuracy class 1 including giving connections as required.	6.0000	each		
1.1	od241007/2023_2024 : Supply and Installation of Multifunction meter to read: W, Wh or V A, Vah or V AR, V ARh or PF - 3 phase accuracy class 0.5 including Connections etc as required	2.0000	each		
2	<b>MV Cable Laying</b>				
2.01	90.12.5.34 Supply & laying of one number PVC insulated and PVC sheathed armoured aluminium power cable of 1.1KV grade of the following sizes in the existing RCC/ HUME / STONE WARE/ GI/ DWC pipe as required.3.5 core 185 sq mm	250.0000	metre		
2.02	90.12.5.35 Supply & laying of one number PVC insulated and PVC sheathed armoured aluminium power cable of 1.1KV grade of the following sizes in the existing RCC/ HUME / STONE WARE/ GI/ DWC pipe as required.3.5 core 240 sq mm	300.0000	metre		
2.03	14.16.2 : Supplying and laying of following size DWC HOPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground (75 em below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc. , complete as required.90 mm dia (OD-90 mm & ID-76 mm nominal)	10.0000	metre		

2.04	14.16.3 : 120 mm dia (OD-120 mm & ID-103 mm nominal)	550.0000	metre		
3	<b>End Terminations</b>				
3.01	9.1.27 : Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.3 1/2X 185 sq. mm (57mm)	2.0000	set		
3.02	9.1.29 : Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.3 1/2X 240 sq. mm (62mm)	8.0000	set		
4	<b>Over Head Line Works</b>				
4.01	od114828/2023_2024 : Stringing, shackling, fitting cross arms, insulators and binding, giving jumper connection etc. using ACSR Rabbit for Phase and Neutral, for one km LT three phase 4 wire line including cutting and removing tree branches wherever necessary and conveyance of all materials (except poles) from stacking place(The Rate inclusive of ACSR Rabbit Conductor)	1.0000	km		
4.02	od237287/2023_2024 : Supply and Providing End Caps for ABC Cable as required	20.0000	each		
4.03	od237288/2023_2024 : Supply and Installation of Pre-Insulated Straight Through joints suitable for messenger 50/35/70 Sqmm ABC Cable as required.	4.0000	each		

4.04	od237289/2023_2024 : Supply and Installation of Pre-Insulated Straight Through joints suitable for 16/25/50/70/95 Sqmm ABC Cable as required.	16.0000	each		
4.05	od237290/2023_2024 : Supply and Installation of Insulation Piercing Connector for Main to Street light main/Service Line Main : 16-95 Sqmm, Tap 1.5-35 Sq.mm as required.	300.0000	each		
4.06	od237291/2023_2024 : Supply and Fixing Distribution Box 3 phase- 1 incoming 4 outgoing in the PSC Pole as required (ABC Works)	4.0000	each		
4.07	od237292/2023_2024 : Supply of Buckles for tightening the Strap in the PSC Pole as required.	100.0000	each		
4.08	od237293/2023_2024 : Supply of Stainless Steel Straps as required	100.0000	metre		
4.09	od237294/2023_2024 : Erection of Stainless Steel Strap and Buckles as required	100.0000	each		
4.1	od237295/2023_2024 : Supply and Erection of Suspension Clamp suitable for 25 to 95 Sq.mm insulated messenger with Bracket as required.	100.0000	each		
4.11	od237296/2023_2024 : Supply and Erection of Anchor Clamp/Dead End Clamp suitable for 25 to 95 Sq.mm insulated messenger with Bracket as required.	40.0000	each		
4.12	od237297/2023_2024 : Supply and stringing of 1.1 KV LT Aerial Bunched Cable XLPE Insulated of size 3X50 (For Phase)+ 1X35 (Insulated Messenger neutral)+1X16 (Street Light) on 8M supports as required.	138.0000	metre		

4.13	od237298/2023_2024 : Supply and stringing of 1.1 KV LT Aerial Bunched Cable XLPE Insulated of size 3X70 (For Phase)+ 1X50 (Insulated Messenger neutral)+1X16 (Street Light) on 8M supports as required.	600.0000	metre		
4.14	od237299/2023_2024 : Supply and stringing of 1.1 KV LT Aerial Bunched Cable XLPE Insulated of size 3X95 (For Phase)+ 1X70 (Insulated Messenger neutral)+1X16 (Street Light) on 8M supports as required.	1300.0000	metre		
4.15	od117518/2023_2024 : Supply and drawing of following size of unarmoured PVC insulated and PVC sheathed 650/1100 V grade aluminium conductor weather proof service cable with nylon support wire .(make: as instructed by engineer in charge)  2 core 6mm Sq.	700.0000	metre		
4.16	12.1 : Supplying and erection of stay set complete (galvanised) with 19/20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm, thimble, stay clamps, turn buckle ( 20 mm X 60 cm ), 7/ 4.00 mm dia G.I. stay wire and strain insulator etc in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size ) foundation including excavation and refilling etc. as required.	3.0000	no		
4.17	12.10 : Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per metre) cross arm for 2 wire over head line complete with clamps, bolts, nuts and washer etc including drilling of holes for insulator pins etc (as per drawing) and painting with primer and finished paint as required .	2.0000	each		

4.18	12.11 : Supplying of channel iron 75 mm X 40 mm X 6 mm (7.14 kg per metre) cross arm for 4 wire over head line complete with clamps, bolts, nuts and washer etc including drilling of holes for insulator pins etc (as per drawing) and painting with primer and finished paint as required .	3.0000	each		
4.19	12.13 : Supplying and erection of galvanised 'D' iron clamps complete with shackle insulator (75 mm X 90 mm),G. I. bolts, nuts and washers, coach screws etc. as required.	32.0000	set		
4.2	12.16 : Supplying and erection of 75 mm X 90 mm shackle insulator with G. I. Bolt, nuts and straps etc.as required .	20.0000	set		
4.21	12.18 : Supplying and erection of 100 mm X 65 mm pin insulator complete with G. I. Spindle and nuts etc. as required .	150.0000	set		
4.22	12.39 : Supplying and fixing of light class G.I. pipe of 100 mm dia. (nominal) 3 metres length along the pole for protection of under ground cable as required.	2.0000	each		
4.23	od117501/2023_2024 : Fitting one No. Section fuse on LT line with dropping cables, crimping sockets, connecting with bolt& nut etc.	15.0000	no		
4.24	od117502/2023_2024 : Providing Strut using LT PSC pole including digging & back filling pit.	5.0000	no		
4.25	od117504/2023_2024 : Supply of 8m long Pre-stressed Cement Concrete(PSC) pole suitable for LT overhead Transmission	20.0000	each		
4.26	od117000/2023_2024 : Erecting one LT PSC Pole in position including digging & back filling pit.	19.0000	no		

4.27	od117001/2023_2024 : Straightening one Slanted LT pole after unbinding the line and rebinding the line after work.	10.0000	no		
4.28	od117002/2023_2024 : Supply and Providing/Inserting 3 / 4 line spacer on the existing LT OH line.	99.0000	each		
4.29	od117005/2023_2024 : Dismantling (without damage) one km LT 3ph 4 wire OH line,&lt;br&gt;cross arms, insulators and stacking the conductors in rolls.	2.0000	km		
4.3	od122068/2023_2024 : Supply of the following size 1.1 KV grade XLPE insulated PVC sheathed, Un armoured Aluminium conductor power cable conforming to IS 7098 (part 1) ammended upto date. 150 Sq.mm	37.0000	metre		
4.31	5.4 : Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, andproviding masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	3.0000	set		
4.32	5.12 : Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	17.0000	metre		
<b>Total in Figures</b>					
<b>Quoted Rate in Words</b>					

**CONTRACTOR**

**Sd/-  
UNIVERSITY ENGINEER**