

**Tender for Internal utility electrification, street lighting  
[Phase – 1C] for Mahindra Industrial Park Chennai  
Limited near Gummidipoondi located in Pudukkottai  
village, Gummidipoondi Taluk & Ellichampallam Village,  
Ponneri Taluk of Thiruvallur District**

**Volume – III**

**Tender schedule (Bill of Quantity)**

**Mahindra** INDUSTRIAL PARK CHENNAI LTD.,  
**Mahindra Industrial Park Chennai Limited,**  
Mahindra Towers, Ground Floor, No. 17 / 18,  
Pattullous Road, Anna Salai, Chennai - 600 002

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**Volume – III**  
**Tender schedule (Bill of Quantity)****1. Preamble to bill of quantity**

**(This clause to be read in conjunction with clause 4.20 of General Conditions of Contract)**

➤ **Material:**

Material received at site shall be stacked by the Contractor in weather tight sheds constructed on work site away from walls and on a damp proof floor. Consignments shall be used in the order in which they are received. Adequate arrangements shall be made for keeping the shed dry during the wet weather by all means or as directed by the engineer

Steel received at site shall be stacked on the firm cemented platform with proper use of sleepers. Steel shall be kept covered with plastic to avoid normal rusting.

All other materials shall be stacked in secured godown preferably weather tight. Floor shall be firm and stacking shall be in most planned manner to avoid damage, contamination, warping, obstruction etc. It shall allow 1st come 1<sup>st</sup> used facility.

All godowns shall be lockable and under strict control of the Contractor's representative. The developer or his representative shall have access at any time to all stores, godown etc. His guidance and instruction in up keeping shall be followed.

**Important note:**

- a) The rates quoted by the bidder should be exclusive of all taxes.
- b) Anyhow, the bidder shall also mention separately about the details of taxes considered in their offer in the letter accompanying the financial bid

## 2. Cost abstract

Sl. No.	Description	Supply amount in INR	Installation amount in INR	GST in total in INR	Total amount in INR
1.	Utilities Power Distribution work				
2.	Street lighting work				
	<b>Grand total amount in figures</b>				
	<b>Grand total amount in words</b>				

### 3. Bill of quantity for internal utility electrification & street lighting

Sl. No.	Quantity	Description	Unit	Unit rate in INR (Without GST)				GST in INR		Total amount in INR
				Supply		Installation		Supply	Installation	
				In figure	In words	In figure	In words	In figure	In words	
SW-I	(Sub work)	<b>Utilities Power Distribution</b>								
		<b>HV Cable</b>								
1.1		Supply, testing, commissioning of the following 11 KV grade, (E) XLPE insulated, aluminum conductor, armoured, earthed, UG cables.								
	745	11kV 3C x 300 Sq.mm XLPE, Al, UG cable for bypass arrangement for TANGEDCO'S power distribution. Basic Rate (Rs.1742)	Meter							
1.2		<b>LV cable</b>								
		Supply, testing, commissioning of the following 1100 V grade XLPE insulated, aluminum / copper conductor, armoured, UG cables.								
	300	3½ x 240 Sq.mm. AYFY, XLPE, Al, UG cable Basic Rate (Rs.1545)	Meter							
1.3		<b>HV cable laying</b>								
		Laying of XLPE insulated aluminum / copper power cable of 11 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.								
a	745	Above 120 sq. mm and up to 400 sq. mm	Meter							
1.4		<b>LV cable laying</b>								
		Laying of XLPE insulated aluminum / copper power cable of 1.1KV grade of following size direct in ground including								

Sl. No.	Quantity	Description	Unit	Unit rate in INR (Without GST)				GST in INR		Total amount in INR
				Supply		Installation		Supply	Installation	
				In figure	In words	In figure	In words	In figure	In words	
		excavation, sand cushioning, protective covering & refilling trench etc as required.								
a	300	Above 185 sqmm and upto 400 sqmm	Meter							
1.5		<b>HV cable end termination</b>								
a	8	Supplying and making outdoor cable end termination with cast resin compound, including lugs and other jointing materials, for following size of 3 core, XLPE aluminium conductor cable of 11KV (E) grade as required.	Set							
1.6		<b>LV cable end termination</b>								
a	6	Supplying and making end termination with brass single compression gland and aluminium lugs for following size of XLPE insulated aluminium / copper conductor cable of 1.1KV grade as required.	Set							
1.7		<b>Cable route marker</b>								
a	15	Supplying and fixing cable route marker with 10 cm x 10 cm x 5 mm thick G.I. plate with inscription there on, bolted / welded to 35mmx35mmx6mm angle iron, 60cm long and fixing the same in ground as required.	Each							
1.8		<b>Tubewell panel</b>								
	1	Design, manufacture, supply, erection, testing and commissioning of 415 V street lighting feeder pillar panel suitable for outdoor installation, made up of CRCA sheet steel of thickness not less than 2 mm with a weather proof canopy of top, double door construction, IP 55 protection, anti-corrosive chemical resistant paint with 1no. 125 A TPN MCCB with 16 kA breaking	Each							

Sl. No.	Quantity	Description	Unit	Unit rate in INR (Without GST)				GST in INR		Total amount in INR
				Supply		Installation		Supply	Installation	
				In figure	In words	In figure	In words	In figure	In words	
		capacity in the incoming and 8 nos 25 A, TPN contactor 6 nos. 32 A TPN MCB, and adequate plate to terminate suitable cable as incomer and suitable cable as outgoing. including indication lamps, digital panel meter and necessary LT CT etc., including concrete pedestal and associated civil works.								
1.9	2	Power supply improvement: Application submission to TANGEDCO for additional demand including SLD approval, supply of 250 Kva Transformer, Yard development, transformer plinth, earthing etc as per the TANGEDCO instruction and requirements. Arranging factory inspection, To and fro expenses of utility board officials , GTP approval, Transformer Charging permission & Commissioning.	Each							
2.0	2	Erection, testing, commissioning of 125/63 KVA, 415 V, 3 phase, 50 Hz, DG Set with diesel engine mounted on a channel Iron base frame, fuel tank of adequate capacity, starting batteries with leads, AMF panel, hospital type silencer, with acoustic enclosure, control panel, inter connecting power, control cable, cable end termination, including DG Shifting from Chengalpattu MWC to MIPCL, platform civil works, lubrication system, cooling system, fabrication of exhaust M.S. pipe system, supporting frame, structures arrangement, earth pits, interconnecting copper flat for neutral and GI flat for body earth, etc., all inclusive. Exhaust pipe	Each							

Sl. No.	Quantity	Description	Unit	Unit rate in INR (Without GST)				GST in INR		Total amount in INR
				Supply		Installation		Supply	Installation	
				In figure	In words	In figure	In words	In figure	In words	
		should be extended up to 1.5 meter above the terrace of the building and provision to be made for the emission test including complete service and first filling of fuel and lube oil including obtaining approval from CEIG.								
		<b>Sub Total of Sub work (SW1)</b>								
SW-2		<b>Street lighting works</b>								
2.1		<b>Street light pole</b>								
		<b>Single arm</b>								
a	38	Design, manufacture, supply, testing and commissioning of mild steel street light pole of approved brand suitable for mounting 1 no. street light fixture with total height of 9.5 Mtr, 8m height above ground level, 1.5 mtr bracket for road mounted at 8m. HDPE pipe sleeves for cable protection with FRP junction box, 3 Rx2.50 sq.mm FRLS insulated copper conductor with end termination for individual fitting , 6 Amps, SP MCB - 1 no. connecting coil earthing using 8 SWG GI wire etc., with embedded type foundation all inclusive.	Nos							
2.2.		<b>Pole erection</b>								
		Erection of street light pole suitable for buried in earth on cement concrete 1:3:6 (1 cement - (OPC 53 grade) considered 35% fly ash in replacement of cement: 3 coarse M sand: 6 graded stone aggregate 40 mm normal size) foundation including excavation and refilling etc. as required								
a	96	Above 6.5 metre and upto 9.5 metre	Nos							



Sl. No.	Quantity	Description	Unit	Unit rate in INR (Without GST)				GST in INR		Total amount in INR
				Supply		Installation		Supply	Installation	
				In figure	In words	In figure	In words	In figure	In words	
2.3		<b>Street light fitting – Smart Light</b>								
a	34	Supply and fixing of 90 W LED street light fitting with cool day light, made out of Pressure die cast aluminium body, separate compartment for LED, including electronic drivers, day light colour LED lamps, interconnecting wiring with suitable fixing clams as required including accessories all inclusive. BRTFG 90 W LED WH A - DIM / Equivalent, Compatible to smart Light Basic Rate (Rs.5000)	Nos							
b	62	Fixing of 90 W LED street light fitting with, inter connecting wiring with suitable fixing clams, Junction box, Earthing as required including accessories all inclusive.	Nos							
2.4		<b>LV cable for street lighting</b>								
		Supply, testing, commissioning of the following 1100 V grade XLPE insulated, aluminium / copper conductor, armoured, UG cables.								
a	3160	4 x 25 Sq.mm. AYFY, XLPE, Al, UG cable Basic Rate (Rs.180)	Meter							
2.5		<b>LV cable laying</b>								
		Laying of XLPE insulated aluminium / copper power cable of 1.1KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling trench etc as required.								
a	3160	Up to 35 Sq.mm	Meter							

Sl. No.	Quantity	Description	Unit	Unit rate in INR (Without GST)				GST in INR		Total amount in INR
				Supply		Installation		Supply	Installation	
				In figure	In words	In figure	In words	In figure	In words	
2.6		<b>LV cable end termination</b>								
a	202	Supplying and making end termination with brass single compression gland and aluminium lugs for following size of XLPE insulated aluminium / copper conductor cable of 1.1KV grade as required.								
a	202	4x25 sq. mm	Each							
		<b>Cable route marker</b>								
2.7	40	Supply and fixing of cable route marker with 10 cm x 10 cm x 5 mm thick G.I. plate with inscription there on, bolted / welded to 35 mm x 35 mm x 6 mm angle iron, 60 cm long and fixing the same in ground as required.	Each							
		<b>Sub Total of Sub work (SW2)</b>								
		<b>Grand Total of Sub work (SW1 + SW2) (Including Tax)</b>								