

**MORMUGAO PORT AUTHORITY**  
**ENGINEERING MECHANICAL DEPARTMENT**

**BUDGETORY OFFER**

Name of Work	“PROVIDING ILLUMINATION ALONG RAILWAY LINE NO 1”
Date of submission of budgetary quotation	On or Before <b>04/08/2022 at 15:00 Hrs.</b>
Address for communication:	<b>Executive Engineer(E-HL),</b> Mechanical Engineering Department, Mormugao Port Authority, 2 <sup>ND</sup> Floor, Admin. Building, Headland sada Vasco-de-Gama Goa - 403804
Contact Details	Phone : (0832) 2594216/4236 Email : <a href="mailto:xene.mgpt@gmail.com">xene.mgpt@gmail.com</a> shivram.barve@mptgoa.gov.in

**EXECUTIVE ENGINEER (E-HL)**  
**MORMUGAO PORT AUTHORITY**

## Schedule A

### TECHNICAL SPECIFICATION

#### **1.0 SCOPE OF WORK**

- 1.1 Supply of Power cable of size 4 Core 16 sq mm, 1.1 Kv grade, multi-stranded Aluminium conductor, XLPE insulated, extruded PVC inner sheathed, GI round wire armoured, extruded FRLS PVC ST2 outer sheathed, confirming to latest revisions/ ammendments of IS: 7098 (Part-I), 1988 with ISI mark. The cable quantity shown in BOQ is tentative. The Contractor shall measure the actual quantity as per the site requirement and confirm the same from E.I.C before taking for procurement action.

Note: i) Test certificates from the manufacturers for the cable shall be submitted along with the supply of cable.

- 1.2 Clamping L.T. Aluminum armoured cable of size 4 Core 16 sq mm on the compound wall from Goomty (Old railway panel bldg) to 1<sup>st</sup> Lamp post along railway line no. 1 with Heavy duty cable fitting clamps made from 3 mm thick GI strip. Clamping should be done at every 1 mtr along the cable length, so that cable remains in straight line on wall and there is no slag in the cable.
- 1.3 Excavation of hard/soft soil for cable trench and laying of underground L.T. Aluminum armoured cable of size 4 Core 16 sq mm in trench of depth 40cms, width 30cms, for lamp posts provided along railway line no. 1. After laying the cable, trench should be back filled with soil and route markers to be provided after every 10 metres. The excavation quantity shown in the price schedule is tentative. The Contractor shall measure the quantity for excavation. However, the payment will be made by actual length.
- 1.4 Excavation up to depth of 500 mm for installation of lamp posts at the site. After installation of lamp post, concrete pedestal shall be provided upto 300mm for support. Lamp posts will be provided by Port.
- 1.5 Installation of Junction boxes (J.B.s) on the lamp posts with suitable GI clamps, nut & bolts, termination of 4Cx16 sq mm Al armoured cable in the JB's with necessary glands & lugs. In 36 nos JB's two terminations of 4C x 16 sq mm Al armoured cable shall be provided and in the last JB one termination of 4C x 16 sq mm Al armoured cable shall be provided. Also one termination of 4C x 16 sq mm Al armoured cable shall be provided in the main panel room ie old railway panel bldg. The contractor shall supply GI clamps, nuts & bolts, glands and lugs for installation of J.B's, however, J.B's will be supplied by Port.
- 1.6 The end termination for 1100V grade underground cables with necessary glands and crimping type lugs shall be supplied by the contractor. The crimping type lugs shall be installed by highly skilled personnel with all accessories and other material confirming to relevant IS specification.

Sufficient length of cable shall be kept as loop for future requirement before commencing end termination work. The work includes all labour and material as directed by Engineer In charge.

- 1.7 Supply of 3C x 1.5 sq mm flexible copper cable, PVC insulated and sheathed, 1.1 kv grade conforming to latest revisions/ amendments of relevant IS standards with ISI mark.
- 1.8 Installation, testing, connection & commissioning of 35/36 W LED fittings on the existing lamp post with necessary pipe/ reducer and suitable clamps. Interconnection between JB and the individual LED fitting is to be done by using 3C x 1.5 sq mm flexible copper cable. The Contractor shall supply suitable GI pipe/ reducer, GI clamps, GI Nut and bolts for installation of LED fittings, however, the LED fittings will be supplied by Port.

## **2.0 INSTALLATION AND COMMISSIONING**

- The Contractor shall commence and complete the work as per the BOQ and proper care should be taken of the charged electrical installation. The work is to be carried out as per the site conditions and relevant IS standards
- The Contractor shall complete the work to the satisfaction of the Chief Mechanical Engineer or his representative.
- The work should be carried out with utmost safety precaution with minimum possible disruption of power supply.

## **3.0 OTHER TERMS AND CONDITIONS**

The firm is advised to visit the site and get acquainted regarding the nature of the work involved at site conditions before quoting the offer.

- i. The Technical Specification "Schedule-A" and Schedule of Prices & Quantities "Schedule-A1" to be read in conjunction to ensure the actual works involved.
- ii. The firm should engage skilled service personal with the relevant required tools and instruments for commissioning the same.
- iii. The Contractor personnel engaged in the work shall follow all safety, security and General Rules enforced by Mormugao Port Authority (MPA) and the firm will only be responsible for the same.
- iv. MPA will not be responsible for any loss or damage of the men / materials / tools / plants engaged by the firm during the work at site / transportation.
- v. The firm should indicate the GST No.
- vi. No advance payment will be made.
- vii. Final payment will be made only after handing over the entire system in good working condition.
- viii. Necessary entry passes shall be obtained by the firm at their own cost with the approval of Port Officials.
- ix. Power Supply will be provided on chargeable basis by the Port. However, the firm should make his own arrangements to take power supply from the nearest source of supply.
- x. For any clarifications, the firm may contact the 'Executive Engineer at 1<sup>st</sup> floor of the Administrative Office, Ph.0832-2594241/4236

**SCHEDULE A1**

**PRICE SCHEDULE (BILL OF QUANTITIES)**

Sr. No.	Description	Unit	Qty	Unit Rate in (Rs.)		Amount in (Rs.)	SAC /HS n code	Appli cable GST %
				In fig.	In words			
1	Supply of 4 Core 16 sq mm L. T Aluminium armoured cable as per the detailed specification at Schedule-.A	mtr	1100					
2	Clamping L.T. Aluminum armoured cable of size 4C x 16 sq mm on the compound wall as per the detailed specification at Schedule-.A	No.	200					
3	Excavation of hard/soft soil for cable trench and laying of 4 Core 16 sq mm aluminum armoured XLPE insulated cable and backfilling as per the detailed specification at Schedule-.A	mtr	850					
4	Installation of lamp posts as per technical specification at Schedule –A	Nos	04					
5	Installation of J.B.s on the lamp posts includes termination of 4Cx16 sq mm cable in the JB's with necessary glands & lugs as per technical specification at Schedule –A. ( J.B's will be supplied by Port at M.M store)	Set	37					
6	Supply of 3C x 1.5 sq mm flexible copper cable as per technical specification at Schedule –A.	Mtr	90					

7	Installation, testing, connection & commissioning of 35/36 W LED fittings on lamp post as per technical specification at Schedule -A (LED fittings will be supplied by Port at MM store)	Nos	37							
<b>Total</b>										

(In Words Rupees \_\_\_\_\_ only)

**Note:** The rates quoted shall be inclusive of transportation, lodging and boarding, but exclusive of GST. Applicable GST shall be paid extra as applicable.