

**NOTICE INVITING BUDGETORY OFFERS**

Name of Work	<b>“Supply, laying, termination and commissioning of 4C X 240 sqmm LT XLPE Aluminium armored underground cable, feeding supply from MPA Hospital to Headland substation”</b>
Date of submission of budgetary quotation	On or Before <b>20.08.2024</b> at <b>15.00 Hrs.</b>
Address for communication:	Executive Engineer (E-HL), 1st floor, Electrical Maintenance Cell, Mormugao Port Authority, Admin. Building, Headland sada Vasco-de-Gama Goa - 403804
Contact Details	Phone : (0832) 2594271, 2594215, 2594241 Email : <a href="mailto:xene.mgpt@gmail.com">xene.mgpt@gmail.com</a>
Website	<a href="http://www.mptgoa.gov.in">www.mptgoa.gov.in</a>

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

**Sub: "Supply, laying, termination and commissioning of 4C X 240 sqmm LT XLPE Aluminium armored underground cable, feeding supply from MPA Hospital to Headland substation"**

**Ref:** Budgetary Quotation No. CME/XEN(E-HR)/HL03/2024/08

Mormugao Port Authority intends to carryout work of "supply, laying, termination and commissioning of 4C X 240 sqmm LT XLPE Aluminium armored underground cable, feeding supply from MPA Hospital to Headland substation".

As such, it is requested to kindly furnish budgetary quotation for the same (Scope of work, technical specifications are enclosed at Annexure-I and Price Schedule enclosed at Annexure- II.

Your budgetary quotation should reach to this office on or before **20.08.2024** at **1500** Hrs.

**Thanking you,**

Yours sincerely,

**EXECUTIVE ENGINEER (E-HL)**

**TITLE OF WORK: “Supply, laying, termination and commissioning of 4C X 240 sqmm LT XLPE Aluminium armored underground cable, feeding supply from MPA Hospital to Headland substation”**

**GENERAL**

Mormugao Port Authority proposes to carry out the work of supply, laying, termination and commissioning of 4C X 240 sqmm LT XLPE Aluminium armored underground cable, feeding supply from MPA Hospital to Headland substation as per the relevant IS standards.

**1. SCOPE OF WORK**

The power supply to Headland area is presently fed through 4C X 240 sq.mm Aluminium armored cable from LT panel installed at Hospital. The existing cable is exposed at some locations and the same needs to be laid underground. Additional spare 4C X 240 sqmm LT XLPE Aluminium armored cable is to be laid from Hospital LT panel room to Headland substation. The work involves the following:

- i. Supply of 4C x 240 sq.mm LT XLPE Aluminium armored cable of length 882 Mts. from Hospital LT panel room to Headland Substation.
- ii. Laying of 4C x 240 sq.mm LT Aluminum XLPE armored underground cable of length 882 meters by excavating cable trench from Hospital Electrical Panel room to the Headland Substation which involves excavation and laying of cable in hard soil and by road crossing. The cable at road crossing shall be laid through GI/Hume pipes of ID 150MM. The road shall be made good after the cable laying works, without any cost implications to the Port.
- iii. Power cable route Indicators should be provided at an interval not exceeding 200 Mts and also at diversions of the power cable route.
- iv. While laying the new cable, the existing 4C x 240 Sq.mm cable shall also be laid in the same cable trench wherever applicable as per the directions of EIC. The work also involves removing the cable clamps of existing cables wherever applicable along the entire route of the cable approx. 200 meters in length.
- v. Termination of 4C x 240 sq.mm XLPE LT Aluminium armored cable on both the ends using suitable Lugs and glanding the cable at entry point with suitable brass/Nickel plated glands of appropriate size. On both the sides i.e. in LT panel

room at Hospital and at Headland substation, the cable shall be terminated in the existing panels and suitable length of the cable shall be kept for ease of the terminations.

- vi. The permissions required for road cutting shall be obtained by the contractor on his own from the concerned Authority at his own cost.
- vii. All labours, materials, tools plants, crane, machinery, equipment, vehicle etc. required for execution of the work shall be arranged by the contractor at his own cost.

## **2. APPLICABLE STANDARDS:**

The following shall be the Reference Standards for the work:

<b>Code No.</b>	<b>Title</b>
(i) IS 7098-1	Specification for XLPE Armoured Aluminium cable.
(ii) IS 1255	Code of practice for installation and maintenance of power cables
(iii) IS 12943	Brass glands for PVC cables

## **3. DETAILED TECHNICAL SPECIFICATION**

- a. SUPPLY, LAYING and TERMINATION of 4C x 240 sq.mm XLPE LT underground armored Aluminum cable by excavation.

Supply and Laying XLPE sheathed cable of 1.1kV grade Armoured with Aluminium conductor as per IS 7098-1 in ground as per IS:1255 including excavation of 75cm size trench, 25 cm thick under layer of sand, bricks covering, refilling earth, compaction of earth, making necessary connection, testing etc. as required. The cable trench depth at road crossing shall be 1 mts through GI Pipe/hume pipe of ID 150MM.

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

- b. **ALLIED ELECTRICAL WORKS:**

- a) All allied Electrical works as per the Bill of Quantities have to be carried out by the Contractor in all respects invariably mentioned or not mentioned in the specification so as to complete the work in all respects.

- b) The materials required / intended for the work should be handled carefully and neatly installed / laid / commissioned and any damages

during installation will be on Contractors account and same shall be rectified /Made good to its satisfaction of the EIC.

c) The Miscellaneous works have to be carried out invariably, whether clearly mentioned or not in the specifications and BOQ. The works should be completed in all respects as required for the said project work.

### **3. OTHER TERMS AND CONDITIONS**

- i. The Contractor shall commence and complete the work as per the BOQ and technical specifications. The work and quantity is to be carried out as per the site conditions and relevant IS standards.
- ii. The Contractor shall complete the work in all respect to the satisfaction of the Engineer-In-Charge or his representative.
- iii. The work should be carried out with utmost safety precaution with minimum possible disruption of power supply in coordination with the EIC.
- iv. The Party can visit the site and get acquainted regarding the nature of the work involved and site conditions before quoting the offer if necessary.
- v. The contractor should engage skilled service personal with the relevant required tools and instruments for commissioning the same.
- vi. 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.
- vii. 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.
- viii. The firm should indicate the GST No.
- ix. No advance payment will be made.
- x. 100% payment will be made only after handing over the entire system in good working condition to the Port & to the satisfaction of the EIC.
- xi. The contractor shall make good any damages caused while excavating, carrying out the job at no cost to the Port at shortest possible time.
- xii. Power Supply will be provided free of cost by the Port. However, the contractor should make his own arrangements to take power supply from the nearest source of supply.

### Bill of Quantities

Sr.No	Description	Qty.	Unit	Rate	Amount	GST%	Amount incl. of GST
1	Supply, laying and termination of 4C x 240 sq.mm XLPE LT underground armored aluminum cable by excavation as per technical specifications.	900	Mts.				
a	Supply	882	Mts				
b	Laying cable by excavation in soil at depth of 75 cms as per relevant IS standards	807	Mts				
c	Laying by road cutting at depth of 100 cms and through GI/Hume pipe. The contractor shall make good the road after laying of cable as per technical specifications.	75	Mts				
2	Termination of 4C X 240 Sq. mm LT XLPE AL armored cable using appropriate glands and lugs as per technical specifications.	02	Nos				
3	Supply and Installation of LT Route markers	15	Nos				
a	Supply	15	Nos				
b	Installation	15	Nos				

4	Laying of the cable in trench and saddling wherever required.	18	Mts				
<b>Total</b>							