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AN ISO 9001-2015 PORT

**MORMUGAO PORT AUTHORITY
ENGINEERING MECHANICAL DEPARTMENT
ELECTRICAL HARBOUR (HEADLAND) SECTION
NOTICE INVITING BUDGETORY OFFERS**

Name of Work	“SITC OF OUTDOOR ILLUMINATION AT PORTS GUEST HOUSE”
Date of submission of budgetary quotation	On or Before 06.03.2024 at 15.00 Hrs.
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 : xene.mgpt@gmail.com
Website	www.mptgoa.gov.in

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



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Sub: "SITC OF OUTDOOR ILLUMINATION AT PORTS GUEST HOUSE"

Ref: Budgetary Quotation No. CME/XEN(E-HR)/HL03/2024/05

Mormugao Port Authority intends to carryout work of "**SITC OF OUTDOOR ILLUMINATION AT PORTS GUEST HOUSE**".

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 **06.03.2024** at **1500** Hrs.

Thanking you,

Yours sincerely,

EXECUTIVE ENGINEER (E-HL)

TITLE OF WORK: “SITC OF OUTSIDE LIGHTS AT PORTS GUEST HOUSE”

1. GENERAL

Mormugao Port Authority proposes to install new outdoor LED Post Top fixtures at Port's Guest House as per technical specifications.

2. SCOPE OF WORK

The Scope of work includes providing outdoor illumination at MPA Guest House which comprises of lawn 1, lawn 2, lawn 3, parking area and internal roads, as detailed below.

- 2.1** The contractor has to supply , install, test and commission outdoor LED Post Top fixtures around 110 Nos. on existing lamp poles of size 3 inch dia. as well as on the supplied GI poles of size 3 inch dia and height 0.6 meters and 2 meters. In addition to this, at some locations, where illumination is in-adequate the contractor will have to install poles by constructing brick foundation masonry base of size 50cm x 35cm x 50cm and shall be as per existing design. The contractor shall carry out refurbishing of the existing mounting bases where ever required.
- 2.2** The contractor shall supply 2 nos. 4 pole MCCB's of 63 Amps as a main distribution and install the same in GH1 and GH2 distribution boards. The supply from GH1 and GH2 shall be connected to respective section in lawn 1 through 4C x 16 sqmm cu cable.
- 2.3** The contractor shall supply 2 nos. FRP junction boxes each consisting of 4 nos. copper busbars of size 25x3mm, 3 nos. 4 pole MCB's of 32Amps, 1 no. astronomical timer with suitable contactor and install the same on both the sides of the entrance in lawn 1. Both the JB's shall be mounted on a masonry base frame of 0.5 meters height suitable for JB. The supply to lawn 1 lights shall be tapped through one of the 4 pole 32 Amps MCB which shall be through astronomical timer. The supply to lawn 2 JB shall be from the bus bars of lawn 1 JB. Whereas remaining 2nos MCB's in both the JB's will be kept as spare for use during Port's functions etc.
- 2.4** In Lawn 02, the contractor shall supply 2 nos. FRP junction boxes each consisting of 1 no. 4 pole MCB of 32Amps, install the same on both the sides of



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the lawn 2. Both the JB's shall be mounted on a masonry base frame of 0.5 meters height suitable for JB.. The contractor will have to excavate, lay the cable from these junction boxes to the lawns lights. The distribution of the same will be communicated by the Engineer in charge during execution of the work. The supply to the lawn light fittings shall be through 4C x 2.5 sqmm armored cu cable. Also cables required between fittings have to be laid by digging 1 foot deep in soft soil and making up the same by backfilling the soil so as not to disturb the aesthetic look of the lawn.

- 2.5** All the cables required for execution of work has to be supplied by the contractor.
- 2.6** The cables are to be terminated in the JB using appropriate gland, lugs, bolts, nuts and washers.
- 2.7** Excavation of cable trench in hard rock/ cement flooring at bituminous road crossing. The excavated soil shall be backfilled in the trench and made good in original condition with cement concrete at road crossing.
- 2.8** The work schedules at the time of execution will have to be planned in co-ordination with the Engineer-in-charge and guest house staff, in order to avoid interferences with guest house functions.

3. TECHNICAL SPECIFICATION:

3.1 Supply, Installation and Testing of 40/20 Watts cool white Post Top LED fixtures

The contractor shall supply, install and test around 50 Nos. 40 Watts cool white LED Post top fixtures and 60 Nos. 20 Watts LED Post top fixtures with IP 66 rating suitable for mounting on a pole of Dia. 3 inch.

3.2 Supply and Installation of GI poles.

The contractor shall supply and install 15 nos GI poles of height 2 meters and 35 nos GI poles of height 0.6 meters having dia. 3 inch along with suitable foundation base. The GI poles shall be secured on foundation base with suitable anchor bolt fasteners. The GI poles shall be of Class B.

3.3 Supply and Installation of 4 pole 63 Amps MCCB

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The contractor shall supply and install 2 nos 4 pole 63 Amps MCCB as a main distribution MCCB in the existing DB.

3.4 Design, supply and Installation of Junction Boxes:

- i. Design, Manufacture, Supply, Installation, testing and commissioning of FRP junction box Outdoor Pedestal type with top Canopy. The JB shall be designed to be IP 66 compliant/degree of protection from dust, dampness, vermin and weather proof. It shall be provided with, single door type (Right side door hinge) with cam lock door sealing Gasket.
- ii. The 2 nos. FRP JB's at lawn 1 shall be spacious for easy maintenance and each JB shall be provided with following Items.
 - a. 4 pole, 32 Amps, MCB – 3 nos.
 - b. Astronomical Timer along with suitable contactor of 230 V coil voltage– 1 no.
 - c. Copper Bus bars of size 25x3 mm -- 4 nos. (1no. for neutral and 3nos. for phases)
 - d. PVC insulated multi core copper cable - interconnection between MCB's, bus bars and other accessories.
- iii. The 2 Nos. FRP JB's at lawn 2 shall be spacious for easy maintenance and shall be provided with 1no. 4 pole, 32 Amps, MCB each.
- iv. The MCBs, bus bars and connecting cable shall be mounted in the JB by means of suitable anti-corrosive hardware (nuts, bolts shall be of stainless steel). The JB shall be complete in all respects with cable glands, lugs for incoming and outgoing cables including interconnection with PVC insulated cable multi core copper cable. The connections from bus bars to distribution MCB's shall be through PVC insulated multi core copper cable.
- v. Removable gland plates shall be provided at the bottom for bringing in the external cables.
- vi. The Earthing strip shall run through the length of the panel and nut bolt arrangement shall be made to connect the earth pits.
- vii. The technical features specified are indicative. However, the contractor shall provide any other feature/accessories as found necessary for proper functioning of panel.

3.5 SUPPLY, LAYING and TERMINATION of 4C x 16 sq.mm LT underground armored copper cable by excavation.

Supply and laying of copper LT underground cable of 1.1KV voltage grade, PVC inner sheathed, strip armoured, over all PVC sheathed conforming to IS standards with latest amendments with ISI mark.

3.6 SUPPLY, LAYING and TERMINATION of 4C x 2.5 sq.mm LT underground armored copper cable by excavation.

Supply and laying of copper LT underground cable of 1.1KV voltage grade, PVC inner sheathed, strip armoured, over all PVC sheathed conforming to IS standards with latest amendments with ISI mark

3.7 SUPPLY, LAYING and TERMINATION of 4C x 4 sq.mm LT underground armored copper cable by excavation.

Supply and laying of copper LT underground cable of 1.1KV voltage grade, PVC inner sheathed, strip armoured, over all PVC sheathed conforming to IS standards with latest amendments with ISI mark.

3.8 Mounting brick foundation with plastering:

Construction of brick foundation with masonry work of size 50cm X35cm X50 cm and complete plastering on 5 sides by keeping opening for cable termination on one side through suitable flexible pipe to accommodate 2 nos armored cables.

SPECIAL TERMS AND CONDITION:

- 4.1 The contractor at his own cost may visit MPA site, before quoting for the tender if necessary.
- 4.2 Power supply and water shall be provided to contractor free of cost from the nearest available point for execution of the work however the supply cable has to be arranged by the contractor.
- 4.3 All the material required for execution of the work has to be arranged by contractor at his own cost.
- 4.4 After completion of the subject work, the contractor shall clear the area of any unwanted scrap while handing over. As the work location is a guest house, the contractor shall ensure neatness in all works and if any work is found to be untidy



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the contractor shall re-do or re-dress the same to the satisfaction of the contractor.

4.5 Work shall be carried out following all environmental norms.

4.6 Contractor shall follow all safety regulations as per relevant and prevailing standards.



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ANNEXURE-II

Name of the Tender: **SITC OF LAWN LIGHTS AT PORT'S GUEST HOUSE**

Sr. No.	Description of work	Unit	Qty.	Rate per Unit (Rs.)	Amount (Rs.)
1.	Supply and installation of 40 Watts Post top LED fixtures as per technical specifications and scope of work.				
i.	Supply	Nos	50		
ii.	Installation	Nos	50		
2	Supply and installation of 20 Watts Post top LED fixtures of as per technical specifications and scope of work.				
	Supply	Nos	60		
	Installation	Nos	60		
3.	Supply and installation of GI poles of dia. 3 inch having a height of 2 meters each along with suitable foundation base.				
i.	Supply	Nos	15		
ii.	Installation	Nos	15		
4.	Supply and installation of GI poles of dia. 3 inch having a height of 0.6 meters each along with suitable foundation base.				
i.	Supply	Nos	35		
ii.	Installation	Nos	35		
5.	Supply and installation of 4 pole 63 amps MCCB				
i.	Supply	Nos	02		
ii.	Installation	Nos	02		
4.	Supply and installation of FRP Junction box at lawn 1 along with accessories as per technical specifications and scope of work				
i.	Supply of Junction Box at lawn 1	Nos	02		
ii.	Installation	Nos	02		
5.	Supply, laying and termination of Armoured 4 core 16 sq mm Cu main cable from main DB to lawn JB as per technical specifications.				
i.	Supply	M	50		
ii.	Laying	M	50		
iii.	Termination at both ends	no	04		



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6.	Supply and laying of Armoured 4 core 2.5 sq mm Cu cable from fixture to fixture as per technical specifications.				
i.	Supply	mtr	500		
ii.	Laying	mtr	500		
7.	Supply and installation of FRP Junction box at lawn 2 as per technical specifications and scope of work.				
i.	Supply of Junction Box at lawn 2	Nos	02		
ii.	Installation	Nos	02		
8.	Supply and laying of Armoured 4 core 4 sq mm Cu cable from JB at lawn 1 to JB at Lawn 2. As per technical specifications and scope of work.				
i.	Supply	mtr	20		
ii.	Laying	mtr	20		
iii.	Termination at both ends	no	04		
9.	Road cutting for laying of main cable to JB's at lawns and backfilling.	RM	25		
10.	Construction of new brick foundation for mounting lawn lights as per technical specifications.	Nos	20		
11.	Repairs/alignment of existing lawn lights foundations as per technical specifications.	Nos.	5		
	Total				

(In words Rupees _____ only)

Note: 1) The rates quoted above shall be exclusive of GST.

2) Applicable GST shall be paid to the concerned authority by the Contractor and documentary evidence of the same shall be produced to MPA for reimbursement at actual

3) The quantity shown in the BOQ is tentative and Payment will be done as per actual quantities executed at site.