

MORMUGAO PORT AUTHORITY
ENGINEERING MECHANICAL DEPARTMENT
ELECTRICAL HEADLAND SECTION

NOTICE INVITING BUDGETORY OFFERS

Name of Work	“REPLACEMENT OF TENNIS COURT LIGHT POLES AT MPA GUEST HOUSE”
Date of submission of budgetary quotation	On or Before 28/11/2025 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), 2594241, 2594271 Email : xene.mgpt@gmail.com
Website	www.mptgoa.gov.in

EXECUTIVE ENGINEER (E-HL)
MORMUGAO PORT AUTHORITY

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ELECTRICAL HEADLAND SECTION

Sub: “REPLACEMENT OF TENNIS COURT LIGHTS POLES”

Ref: Budgetary Quotation No. CME/XEN (E-HR)/HL03/2025/06

Mormugao Port Authority intends to carryout work of “**REPLACEMENT OF TENNIS COURT LIGHT POLES AT MPA 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 28/11/2025 at **1500** Hrs.

Thanking you,

Yours sincerely,

EXECUTIVE ENGINEER (E-HL)

**TITLE OF WORK: “REPLACEMENT OF TENNIS COURT LIGHT POLES AT MPA
GUEST HOUSE”**

TECHNICAL SPECIFICATIONS

1. GENERAL

Mormugao Port Authority intends to carry out “Replacement of tennis court light poles at MPA Guest House”.

2. SCOPE OF WORK

The work involves:-

- I. Supply and installation of 04 nos., 8 meter height octagonal poles with mounting brackets for fixing 04 nos., 350 watts LED light fittings suitable for Ground/playing area illumination. The foundation for the poles is in the scope of the Contractor. 14 ton crane for Poles erection and installation will be provided by the Port free of cost depending upon the availability and at Port discretion.
- II. Supply and installation of 350 Watts IP 66 rated LED Light fittings for mounting on the Poles as per the technical specifications.
- III. Supply, laying, termination and commissioning of 10 sq.mm 4C Aluminum armored cable for each light pole and Auxiliary distribution JB on the wall. Making of groove cutting on the cement floor at a minimum depth of 3” inches, for cable laying through HDPE pipe of appropriate dia., from JB to Light Poles. The cables to be terminated at the Main panel, distribution JB's and at Poles.
- IV. Supply and installation of Double door outdoor SS 304 Distribution panel Housing 4P 100 Amps incomer MCCB and outgoing 01 no 4P 63 Amps MCB, 01 no 40 Amps 4P MCB, 06 nos., 2 Pole 16 Amps MCB. The panel shall be mounted on the MS stand at minimum height of 1 meter from the ground level with MS stand properly grouted on the floor.
- V. Supply Installation, Testing and Commissioning of outdoor Auxiliary Distribution JB on the compound wall housing 40 Amps 4 Pole MCB (Incomer), and 03 nos., 16 Amps 2 pole MCBs.
- VI. Disconnection of 35 sq.mm 4C Aluminum armoured cable from old JB, removal of the old cables, wires and re-termination of the cable in the Panel with appropriate lugs and gland.
- VII. 02 nos., earth pits shall be provided for lighting poles and Distribution Panel at Tennis ground. 01 earthing pit shall be used for earthing lighting poles. The other earthing pit shall be utilized for earthing of Main distribution Panel.

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- VIII. Removal and shifting of old lighting Poles to MM division at Baina and breaking of concrete pole foundations and shifting of debris is in the scope of the contractor. 14 ton crane for removal shall be provided by the Port free of cost depending upon the availability and at Port discretion. The work also involves removal/re-dressing of any old wiring, etc.
- IX. The entire works shall be carried out in consultation with Engineer in charge and with civil dept. of the Port.
- X. Payment shall be made as per the actual quantity executed.
- XI. All labours, materials, tools plants, machinery, equipment and any other materials required for execution for work shall be arranged by the contractor at his own cost.
- XII. Supply of minor accessories/spares as necessary to commission the work as intended by the Port is in the scope of the contractor.

3. Technical Specifications

i. 4C x 10 sq. mm Aluminum armored cable

The following shall be the Reference Standards for the work:

Code No.	Title
i. IS 7098 and 1554-2	Specification for insulated PVC sheathed cables
ii. IS 1255	Code of practice for installation and maintenance of power cables
iii. IS 4237	General requirements for switchgears and control gears
iv. IS 3043	Code of practice for Earthing.

ii. 350 watts LED Light fittings

- i. LED flood Light luminaries consisting of in built electronic control gear and wiring up to terminals.
- ii. Input Wattage, 350W, Input frequency 45~55HZ
- iii. Input Voltage range shall be 1 phase, 240 Volts AC, 50 Hz. Operating voltage 120V-277V AC
- iv. The Light fitting shall be IP66.
- v. LED colour temperature should be between 5500K to 6500K
- vi. Mechanical Impact Protection should be minimum IK07
- vii. Material for fixture: High grade Aluminium die cast

iii. Lighting Pole

To provide sufficient illumination on ground, 04 nos., of Lighting poles shall be installed. The detail technical specification are as mentioned below.

Technical Specification of 8 Meters Hot Dip Galvanized Octagonal Pole		
S.I	DESCRIPTIONS	OUR REQUIREMENTS

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NO		
1	General Specifications	Supply of 8 Mtr Hot Dip Galvanized Street Light Octagonal Pole with Foundation Type Base Plate & Foundation Bolts (Dimensions for pole as Top Diameter 70 mm, Bottom Diameter 155 mm, Section Length-8000 mm, Thickness(min)-3 mm, Foundation Type Base Plate (250X250X16 mm), Foundation Bolts SS (M24 X 700/750 MM-4Nos).with suitable arrangement for mounting 04 nos., of LED Light fittings
2	Pole	The pole shall be made from sheet steel confirming to BSEN 10025.The pole shall have octagonal cross section and shall be continuously tapered with single longitudinal welding. There shall not be any circumferential welding. All octagonal pole shall be provided with the rigid flange plate of suitable thickness (as per IS 2062) with provision for fixing 4 foundation bolts. This base plate shall be fillet welded to the pole shaft at two locations i.e. from inside and outside.
3	Dimension	Pole top Diameter 70 mm, Bottom Diameter 155 mm, Section Length-8000 mm, Thickness(min)-3 mm Base Plate (250X250X16 mm), Foundation Bolts SS (M24 X 700/750 MM-4Nos)
4	Door Opening	The octagonal Poles shall have door of approximate 500 mm length at the elevation of 500 mm from the Base plate. The door shall be vandal resistance and shall be weather proof to ensure safety of inside connections. Bakelite sheet with one 6A SP MCB and 16 sq. mm stud type connector (4 nos.) inside the pole at door opening for cable connection. The door shall be flush with the exterior surface and shall have suitable locking arrangement. There shall also be suitable arrangement for the purpose of earthing. The pole shall be adequately strengthened at the location of the door to compensate for the loss in section.
5	Material	Octagonal Poles -Steel Grade BSEN 10025 - S355J0 or Equivalent Base Plate Fe 410 conforming to IS 226 / IS 2062
6	Pole Sections	The Octagonal Poles shall be in single section. There shall not be any circumferential weld joint.

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7	Galvanization	The poles shall be hot dip galvanized as per relevant Indian standards with average coating thickness of minimum 65 micron.
8	Fixing Type	The Octagonal Poles shall be suitable for bolting on a foundation with a set of four foundation bolts for greater rigidity.
9	Bracket for fixing luminaire	The brackets shall be made of specified size G.I heavy duty material with necessary holding brackets, hold fasts etc., suitable for LED light mounting.
10	Documentation	Pole drawing along with details of baseplate , foundation bolts and foundation details (RCC) shall be submitted along with offer

iv. Pipe earthing for Poles and Distribution JB

- a. The Earthing shall be carried out by using 40 mm dia. 3 mm thick, 3 meter long GI pipe with GI funnel, mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of size 400 x 400 x 400 mm above the ground, with Cast Iron cover. The electrode shall have staggered holes of 12-mm dia. and the electrode should be covered 150 mm around with alternate layers of salt and charcoal from the bottom of the pipe to the bottom of the CC chamber. The connection from the electrode is to be carried out through GI strip of size 25mm x 5mm.
- b. The Earth looping to 4 nos., of Poles to be carried out from 1 no earth pit using GI strip of size 25mm x 5mm. The works involves welding the GI strips for making continuous earth connection. The earthing strip should be laid through same cutting for laying the cable for each pole. The second earth pit shall be connected to the distribution JB using GI strip of size 25mm x 5mm.
- c. The job work also includes measuring resistance of the new earth pits after installation using earth tester. Copy of valid calibration certificate and earth testing certificate of the above said earth tester has to be provided to the Port before commencement of testing. The values shall be tabulated and submitted to Engineer-in-charge. The individual earth pit resistance value shall not exceed 3 ohms. Earth pits measuring higher than 3 ohms are liable for rejection. Testing of earth pit shall be carried out in the presence of Engineer – In charge or his representative.
- d. The following information shall be displayed with white or yellow paint on the cover depending on location of the earth stations.
 - a. Earth Pit No.....

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- b. Earth resistance.....ohms.
- c. Date of testing.....

v. Distribution panel

- a. Material: **SS 304** (minimum 1.2 mm thickness).
- b. Finish: Hairline brushed finish. Edges deburred.
- c. Construction: Double-door front — left door covers the incomer; right door covers outgoing area (both doors lockable). Removable gland plate at bottom.
- d. External dimensions: **H 600 mm × W 500 mm × D 250 mm (Excluding door handles & glands).**
- e. Internal mounting: Powder coated folded back plate or SS mounting plate (min 2.0 mm) for mounting MCCB/MCBs and busbars.
- f. Mounting: The Panel shall be mounted on the Metal stand at a height of 1 meter suitably anchored to the ground.
- g. Door: Continuous stainless steel hinge, neoprene door gasket, with locking arrangement.
- h. Protection degree: **IP54.**
- i. Incomer: 4P 100 Amps incomer MCCB.
- j. Outgoing: 01 nos., 4P 63 Amps MCB, 01 nos., 40 Amps 4P MCB, 06 nos., 2P 16 Amps MCB.

4. OTHER TERMS AND CONDITIONS

- I. 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.
- II. The Technical Specification “Annexure-I” and Schedule of Prices & Quantities “Annexure-II” to be read in conjunction to ensure the actual works involved.
- III. The firm should engage skilled service personal with the relevant required tools and instruments for commissioning the same.
- IV. 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.
- V. All the material, tools, tackles and equipment required for execution of the work shall be arranged by the contractor at his own cost.
- VI. 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.
- VII. The firm should indicate the GST No.
- VIII. No advance payment will be made.



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- IX. Final payment will be made only after handing over the entire system with good working condition.
- X. Power Supply will be provided free of cost by the Port. However, the firm should make his own arrangements to take power supply from the nearest source of supply. The supply cable/ necessary pipe has to be arranged by the contractor.
- XI. After completion of the subject work, the contractor shall clear the area of any unwanted scrap while handing over.
- XII. Work shall be carried out following all environmental norms.
- XIII. Contractor shall follow all safety regulations as per relevant and prevailing standards
- XIV. For any clarifications, the firm may contact the 'Executive Engineer at 1st floor of the Administrative Office, Ph.0832-2594241

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ANNEXURE-II

Name of the Tender: **“REPLACEMENT OF TENNIS COURT LIGHT POLES AT MPA GUEST HOUSE”**.

Sr. No	Description	Qty .	Unit	Rate	Amount
1.	Supply and installation of 8 meter height octagonal poles with mounting brackets for fixing 04 nos., LED light fittings suitable for Ground/playing area illumination inclusive of Foundation etc.				
a	Supply	04	nos		
b	Installation	04	nos		
2.	Supply and installation of 350 Watts IP 66 rated LED Light fittings for mounting on the Poles as per the technical specifications				
a	Supply	20	nos		
b	Installation	16	nos		
3.	Supply, laying, termination and commissioning of 10 sq.mm 4C Aluminum armored cable for each light pole and Auxiliary distribution JB on the wall, laying of cables through HDPE pipe by making groove cutting on the cement floor at a minimum depth of 3” inches and re-surfacing the floor.				
a	Supply	250			
b	Laying	225			
4.	Supply and installation of Double door outdoor SS 304 Distribution panel. Incomer: 4P 100 Amps incomer MCCB Outgoing: 01 nos., 4P 63 Amps MCB, 01 nos., 40 Amps 4P MCB, 06 nos., 2 Pole 16 Amps MCB. The work involves fabrication and installation of mounting stand for the panel mounting.				
a	Supply	01	nos		
b	Installation	01	nos		
5.	Supply installation and commissioning of outdoor Auxillary Distribution JB on the compound wall Incomer: 40 Amps 4 Pole MCB, Outgoing: 03 nos 16 Amps 2 pole MCBs				
a	Supply	01	nos		
b	Installation	01	nos		



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6.	Pipe earthing for Poles and Distribution JB as per technical specifications				
a	Supply	02	nos		
b	Installation	02	nos		
7.	Supply and Laying of 25mm x 5mm GI Strip for earthing light Poles and Distribution Panel				
a	Supply	100	mts		
b	Installation	100	mts		
8.	Termination of main 35 sqmm 4C cable in the minadistribution JB and termination of 10 sqmm 4C Al armoured cable for each pole in the JB's and at Lighting Poles	01	LS		
9.	Removal of Old Lighting Poles along with Foundation and old wiring and Shifting to MM.	01	LS		

(In words Rupees _____ only)

Date:

Signature:

Place:

Name:

Address:

Office Seal of firm

Note: The offered rates shall be exclusive of GST.