

NOTICE INVITING BUDGETORY OFFERS

Name of Work	NAME OF WORK : “Supply, Erection, Installation, Testing & Commissioning of Streetlight Poles & Post top LED light fitting at MPA”
Date of submission of budgetary quotation	On or Before 10/12/2022 at 11:00 Hrs.
Address for communication:	Executive Engineer (E-HL), Mechanical Engineering Department, Mormugao Port Authority, Electrical Section, 1st Floor, Admin. Building, Headland sada Vasco-de-Gama Goa - 403804
Contact Details	Phone : (0832) 2594241, 2594244 Email : xene.mgpt@gmail.com
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**EXECUTIVE ENGINEER (E-HL)
MORMUGAO PORT AUTHORITY**

MORMUGAO PORT AUTHORITY
ENGINEERING MECHANICAL DEPARTMENT

CME/XEN(E-HL)/W-8/2022/

.10.2022

Sub: Supply, Erection, Installation, Testing & Commissioning of Streetlight Poles & Post top LED light fittings at MPA

Ref: Budgetary Quotation No. CME/XEN(E-HL)/W-8/2022/W4

Mormugao Port Authority intends to carry out the work of Supply, Erection, Installation and Testing & Commissioning of Streetlight Poles & Post top LED light fitting at MPA. As such, kindly furnish the budgetary quotation for the same (Scope of work enclosed as Schedule - 'A' and Price Schedule enclosed as Schedule - 'A1').

Your budgetary quotation should reach to this office on 10.12.2022.

Thanking you,

Yours sincerely,

EXECUTIVE ENGINEER (E-HL)

Scope of Work

1.0. General :

Mormugao Port Authority (formerly known as Mormugao Port Trust) is one of the oldest ports on the West Coast of India located in the state of Goa, commissioned in 1885. This port is one among twelve major ports in India. This port is midway between ports of Mumbai and New Mangalore Port is blessed with a protected open type natural harbour. Over the years, it has developed a deep draft channel. With its location at the mouth of the Zuari River, it is a crucial component in the flourishing export industry of the state of Goa. It became one amongst the major ports of the country in 1964.

2.0. Scope

- 2.1. Supply of 03 Nos. 6Mtr hot dip galvanized octagonal, base plated streetlight pole and 3 Nos. 35W LED streetlight fixtures as per technical specification. Supply of necessary reducers and other accessories for installation of LED luminaires is under scope of contractor.
- 2.2. Erection, Installation, testing & commissioning of the above octagonal poles & LED luminaires at Port premises at Headland as per technical specifications. Termination & connection of incoming existing cables to the inbuilt terminal box of the pole.
- 2.3. Supply & installation of 1.5 sq.mm / 3 core LT copper flexible cable for wiring of luminaires at the top of the pole from inbuilt terminal box at the bottom.
- 2.4. Supply, installation, testing & commissioning of 25W Post top luminaires at Port premises at Headland as per technical specification. Post top luminaires have to be installed in the existing mounting pipes. Supply of necessary reducers and other accessories for installation is under scope of contractor. Termination and connections have to be carried out to the existing cable.

3.0 Technical specification

3.1 Streetlight Pole

- 3.1.1 Height – 6 Mtr.
- 3.1.2 Hot dip Galvanized steel shaft octagonal cross section of grade S355 with minimum coating thickness of 100micron and tapered from bottom to top and made of one piece. Bottom diameter - 130mm (Across Face (A/F)) & Top Diameter - 70mm (A/F).
- 3.1.3 Thickness of the shaft will be minimum 3mm. Earthing connection point to be provided in the pole near the terminal box.
- 3.1.4 Base plate welded to the lower part of the shaft from outside and inside to serve for fixing the shaft to concrete foundation by means of four bolts, thickness of the plate shall not be less than 12 mm, and its dimensions are 200x200 mm with PCD 200mm mm between holes. Base plate to be provided with stiffener plate.
- 3.1.5 For each pole 04nos j-shaped Anchor bolts anchored at foundation and

provided each with SS 02nos washer and 03nos nuts. Bolt size shall be M20 & 600mm length.

- 3.1.6 Inbuilt terminal box for cable connection of protection IP65. It should be provided with suitable TPN connectors (for connecting loop-in & loop-out cables) and one no. 6A SPN MCB (for terminating connecting wires of the luminaries) , mounted on a suitable Bakelite sheet. Box to be provided 0.5 mtr above the ground.
- 3.1.7 Single Arm Bracket to be provided with each octagonal Street Light Pole, should have following details:
- i) Cap – To be made from 3 mm thick M. S. Pipe (approx. 300 mm long) of suitable diameter, to fit on Pole [top diameter – 70 mm (A/F)] with bolts, with a top cover welded at top.
 - ii) Arm – To be made from M. S. Pipe (approx. 1500 mm long) of suitable diameter, welded with the cap (supported by suitable stiffener plate), keeping suitable opening for cable entry.
 - iii) The Arm Bracket (in totality) should be Hot Dip Galvanised, with minimum coating thickness of 100 micron.

3.1.8 Erection, installation, testing and commissioning of Hot Dip Galvanized octagonal Street Light Pole :

- a) Earth work excavation, designing and casting suitable RCC foundation (1:2:4, with nominal reinforcement) for Hot. Dip Galvanized Street Light Poles should be provided as per the recommendation of manufacturer. RCC foundation should be designed to withstand 160 km/hr wind speed and necessary drawing is to be submitted by the successful bidder for approval of the Engineer-In-Charge. The portion of the RCC foundation, exposed above ground level, should be finished & painted with 1 coat of primer and 2 coats of finish grey paint.
- b) 02 nos. flexible PVC Pipe of suitable diameter to be kept inserted inside the RCC foundation, for cable entry.
- c) The Hot Dip Galvanized Street Light Poles should be erected on aforesaid RCC foundation.

3.2 LED streetlight luminaires

- 3.2.1 Supply, installation, testing and commissioning of 35W/36W LED light fitting suitable saline atmospheric conditions and shall comply with following specifications:
- 35W/36W LED streetlight luminaire Pole mounted, IP 65
 - Illumination: Cool White, Surge Protection: 5kV
 - LED: Cluster type LED's, SMD
 - Housing: Die cast Aluminium
 - Driver: Inbuilt Constant current driver, Mounting dia≥ 35mm

3.2.2 Installation, testing and commissioning

- a. The LED Street lighting luminaires are to be installed on the arm brackets of newly erected Hot Dip Galvanised Street Light Poles.

- b. Providing electrical connections of the luminaries with ISI marked, 3c X 1.5 sq.mm flexible copper cable (1.1 kV grade), from the MCBs of the inbuilt terminal boxes of the Hot Dip Galvanised Street Light Poles, is under the scope of the Contractor.
- c. Supply and installation of aforesaid copper cable is also under the scope of the Contractor.

3.3 Post top LED luminaire

- a) Supply, installation, testing and commissioning of 25W, Post Top LED luminaire suitable saline atmospheric conditions and shall comply with following specifications:
 - Power: 25W, Colour: Cool white, CCT>4000K, Mounting pipe dia 76mm, Material: Die cast Aluminium body, IP 65, In built driver with 5kV surge protection.

3.4 Terminal Box.

- FRP outdoor type terminal box for cable connection should be provided for each Post top fixture. IP 65 protection box. It should be provided with suitable TPN connectors (for connecting loop-in & loop-out cables) and one no. 6A SPN MCB (for terminating connecting wires of the luminaries), mounted on a suitable Bakelite sheet.
- The terminal box have to be installed at the existing masonry foundation for short post top pipe and for long post top MS pipe of inner dia 2” to 3”, box have to be installed on pipe using necessary clamps.

Note: Item shall be procured from original manufacturer or from their authorized representative i.e. dealer/distributor/stockiest etc.

4.0 Other Terms and conditions

- 4.1. PRICES: Prices quoted should be on F.O.R. destination basis inclusive of transit insurance indicating clearly the quantum of taxes and other charges whatsoever applicable. The prices should be firm. However, in case of any statutory revision in taxes within the delivery period of supply order, the same will be considered provided you furnish documentary evidence such as copy of Govt. notification.
- 4.2. GUARANTEE PERIOD: The Contractor shall guarantee the subject work for a period of 12 months from the date of satisfactory completion of work and acceptance by MPA. If any defect is observed during the guarantee period, the same shall be rectified by the Contractor, free of cost under guarantee obligations.
- 4.3. The contractor shall take at most care during the execution of work. If any damaged to the Port properties, to cost of damage shall be deducted from the contracts bill.
- 4.4. Approval shall be obtained from the Engineer In-charge for the foundation drawing street light pole and LED fittings.
- 4.5. TAXES: Applicable GST at the time of delivery during the contractual period will be paid extra.

- 4.6.** COMPLETION PERIOD: The entire work shall be successful completed within 60 days of receipt of the purchase order/LOA, at MPA, Vasco-da-Gama, Goa duly insured at your cost.
- 4.7.** INSPECTION: The material will be inspected by our Officer-In-Charge on receipt at our Stores. Any damage to the items during transportation shall be to Supplier's account. If the supplied items are rejected due to any defects/quality, the supplier has to make his own arrangements at his cost to lift the rejected materials and to replace the same immediately.
- 4.8.** PAYMENT: 100% payment shall be released by ECS/EFT/RTGS within 30 days of successful completion of work and receipt of bills, whichever is later.
- 4.9.** Offers should not contain any sort of conditional discounts based on quantity or value of order.

SCHEDULE OF PRICES AND QUANTITIES**PRICE SCHEDULE**

Sr. No.	Item description	Qty.	Unit	Rate/ Unit (Rs.)	Amount Excl. of G.S.T	GST %
A	B	C	D	E	F = E x C	G
1	Supply, installation, testing and commissioning of 6Mtr hot dip galvanized octagonal, base plated streetlight pole as per Scope & technical specification at Schedule 'A'					
a)	Supply of Streetlight Pole	03	Nos			
b)	Erection, Installation, termination, testing & commissioning of the above octagonal poles as per Scope & technical specification at Schedule 'A'	03	Nos			
2	Supply, installation, testing and commissioning of 35W/36W LED streetlight luminaire including 3c x 1.5 Sq.mm cu cable as per Scope & technical specification at Schedule 'A'					
a)	Supply of 35W/36W LED luminaires	03	Nos			
b)	Installation, testing and commissioning of 35W/36W LED streetlight luminaire	03	Nos.			
3	Supply, installation, testing and commissioning of 25W Post top luminaires as per Scope & technical specification at Schedule 'A'					
a)	Supply of 25W Post top luminaires	60	Nos			
b)	Installation, testing and commissioning of 25W LED streetlight luminaire	60	Nos			
4	Supply, installation, testing and commissioning of outdoor terminal Box for existing Pole as per Scope & technical specification at Schedule 'A'					
a)	Supply of terminal Box	60	Nos			
b)	Installation, testing and commissioning of terminal box	60	Nos			
TOTAL(Exclusive of G.S.T)						

(In Words Rupees _____ only exclusive of all taxes)

Note: The rates quoted shall be inclusive of freight, packing & forwarding, insurance but exclusive of GST. Applicable GST shall be paid extra as applicable.