

NOTICE INVITING BUDGETORY OFFERS

Name of Work	“SITC OF RAILWAY TRACK ILLUMINATION AT MPA RAILWAY R&D YARD”
Date of submission of budgetary quotation	On or Before 09.04.2026 at 15:00 Hrs.
Address for communication:	Executive Engineer (E-HR), 2nd floor, Electrical Harbour section, Mormugao Port Authority, Admin. Building, Headland sada Vasco-da-Gama Goa - 403804
Contact Details	Phone : (0832) 2594205, 2594277/53 Email: sandeep.gupta@mptgoa.gov.in
Website	www.mptgoa.gov.in

EXECUTIVE ENGINEER (E-HR)
MORMUGAO PORT AUTHORITY



MORMUGAO PORT AUTHORITY
ENGINEERING MECHANICAL DEPARTMENT
POWER HOUSE SECTION



Sub: "SITC OF RAILWAY TRACK ILLUMINATION AT MPA RAILWAY R&D YARD"

Ref: Budgetary Quotation No. CME/XEN(E-HR)/PH/P-11/2026/B1

Mormugao Port Authority intends to carryout work of **"SITC OF RAILWAY TRACK ILLUMINATION AT MPA RAILWAY R&D YARD"**.

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 **09.04.2026** at **1500** Hrs.

Thanking you,

Yours sincerely,

EXECUTIVE ENGINEER (E-HR)

ANNEXURE-I

**TITLE OF WORK: “SITC OF RAILWAY TRACK ILLUMINATION AT MPA RAILWAY
R&D YARD”**

1. GENERAL

Mormugao Port Authority indents to carry out the work of Supply, Installation, Testing and Commissioning (SITC) of LED luminaires in between railway track no.1 and 2 at MPA railway R&D yard as per technical specifications.

2. SCOPE OF WORK

2.1 The work involves,

- a) Supply, Installation, Testing & Commissioning of 40 nos GI post of size 3 inch dia. and height 1 meter including civil foundation works, with 04nos. IP 65 outdoor 30W LED luminaires on each post.
- b) Supply, Installation, Testing & Commissioning of weatherproof FRP junction boxes of size 6”x6” for cable termination at each post.
- c) Supply, laying, termination & commissioning of underground power cables of Cu 4cx6sq.mm,1.1kV, XLPE, armoured cable from S&T building to lighting poles.

The bidder is advised to inspect the site and assess the work involved in detail. The bidder shall take into account any fittings, accessories, modifications or any other works not specifically indicated in the tender but otherwise essential for overall completion of the work before submitting his offer and the same shall be deemed to have been included in the scope of supply. The contractor shall carry out the work as directed by Engineer in charge.

2.2 STANDARDS

The design, manufacturing, supply, installation, testing and Commissioning of the LED luminaires and accessories covered in this specification shall comply with relevant IS standards with latest amendments.

2.3 DETAILED TECHNICAL SPECIFICATIONS:-

The installation of LED fittings shall be carried out on the 40 nos GI posts. Proposed no. of fixtures to be installed – 160nos. (04 nos. in each GI post)

Each GI shall consists of:

- 04nos. 30W LED luminaires.
- 01no. FRP junction box
- Height of the Post above ground level – 0.7 meter

a. Supply.

- i) Supply of 40nos GI post of size 3 inch dia. and height 1 meter. with 04nos. IP 65 outdoor 30W LED luminaires on each post.
- ii) Supply of weatherproof FRP junction boxes of size 6"x6" for cable termination at each lighting point. IP65 rated box with 04nos terminal blocks & 02nos 6A 1P, MCB in each box for incoming and outgoing connections.
- iii) The luminaries supplied shall be as per Indian standards (IS). The Luminaries supplied shall be guaranteed for a period of 2 years.
- iv) Flood light LED wattage 30W, 220-240VAC, Efficacy of fixture >100 Lumens per Watt, Beam Angle: 120°, CCT: 5700K, CRI: ≥ 70, Internal SPD: 4KV, IP Protection ≥IP65, THD ≤10%, PF=≥0.95. High quality toughened glass attached to housing using frame for IK08 impact resistance.
- v) Supply of copper LT underground cable of 4C x 6 sq.mm, 1.1KV voltage grade, XLPE, armoured, conforming to IS standards with latest amendments with ISI mark.
- vi) Supply of all necessary accessories such as GI/HDPE protective pipes, cable glands, lugs, ferrules, clamps, fasteners, saddles and other miscellaneous items required for completion of the work.

b. Installation

- i) Installation of LED luminaries on the GI posts using necessary GI mounting brackets, clamps, SS nuts & bolts & other accessories, at designated locations along the central walkway between railway tracks 1 & 2 at MPA railway R&D yard. The work includes installation of LED luminaires with complete accessories viz. flexible Cu looping cables from JB to luminaires, SS nuts, bolts and washers, Marine Connectors (IP67/68) etc.

- ii) Each pole shall be provided with the 04nos. of LED luminaires securely fixed on the GI post to achieve uniform lux level in all directions as per technical specifications, complete with internal wiring and proper connection through the junction box. All fittings shall be installed in a neat, safe and workmanlike manner ensuring proper illumination and long-term stability. The work shall be carried out by the contractor with all materials and labours, as directed by Engineer-in-Charge.
- iii) The contractor shall design & install new posts by constructing brick foundation masonry base of size 50cm x 35cm x 50cm and masonry foundation design have to be approved by Engineer-In-Charge. The GI post shall be installed such that 0.7 m height of the post remains above ground level. A minimum length of 0.3 m of the post shall be embedded inside masonry with concrete foundation to ensure proper rigidity and stability. The top of the masonry foundation shall be maintained at ground level.
- iv) The portion of the GI pipe embedded in masonry/concrete (minimum 300 mm) shall be coated with two coats of bituminous paint / coal tar epoxy / anti-corrosive paint to prevent corrosion due to moisture and chemical reaction with cement. After applying bituminous coating, the embedded portion may be wrapped with bitumen tape to provide additional protection. The exposed portion of the GI pipe above ground shall be cleaned and painted with one coat of primer and two coats of enamel paint.
- v) Construction of brick foundation with masonry work of size 50cm X35cm X50 cm and plastering on top side with opening for cable termination on one side through suitable flexible alkathene pipe to accommodate 2 nos 6 sq. mm armored cables. The GI post shall be centrally erected within the foundation and grouted using PCC.
- vi) Each luminaire shall be provided with GI wire mesh protective cages to prevent mechanical damage during railway operations. GI wire size of not less than 3mm dia shall be used.
- vii) Installation of weatherproof FRP junction boxes above the GI post for cable termination with complete accessories.
- viii) Providing suitable earthing arrangement for GI posts and luminaires as per standard electrical safety practices.

- ix) Laying and termination of copper LT underground cable 6 sq. mm 4 core of 1.1KV voltage grade, XLPE, armoured, conforming to IS standards with latest amendments with ISI mark. The power cable shall be laid underground from the railway central S&T building to the lighting poles along the approved route.
- x) Excavation of cable trench in medium soil/railway ballast, interlocking pavement and rail crossing of 3 mtr wide. The excavated soil/railway ballast shall be backfilled in the trench and made good in original condition. The cable trench shall be excavated to a depth of 0.6 m from ground level for normal cable laying along the track walkway. At the railway track crossing location, the cable shall be laid at a minimum depth of 1.0 m below ground level, with suitable GI/HDPE protective pipe to safeguard the cable. The cable shall be laid followed by proper backfilling of the trench and any other incidental civil works required for completion of cable laying shall be carried out by the contractor and shall be deemed to be included in the scope of work.
- xi) Between the railway tracks, PCC slabs are already laid on the walkway. The contractor shall carefully remove the existing PCC slabs for the purpose of cable trench excavation and stack them safely without damage. After completion of cable laying, the same PCC slabs shall be reinstated in position. Any cutting or modification required to the slabs for accommodating the posts shall be carried out by the contractor, and the slabs shall be properly reinstated. After completion of cable laying works, the surface, interlocking bricks pavement and PCC slab walkway shall be restored to its original condition.
- xii) The power cable shall be terminated to 4P 63A MCB in the existing DB at S&T building. The cable shall be connected to each JB in such way that the lighting load shall be distributed across the three phases in a balanced manner to ensure proper load sharing and safe operation of the system. All cable terminations shall be carried out using suitable cable glands, lugs and ferrules.

c. Testing and Commissioning

- i) Testing of cables for insulation resistance and continuity.
- ii) Testing of luminaires and electrical connections.

- iii) Commissioning of the complete lighting system ensuring proper functioning.
- iv) Handing over the system in fully operational condition after successful testing and commissioning.

d. **Guarantee:** The Luminaries supplied shall be guaranteed for a period of 2 years.

3. SPECIAL TERMS AND CONDITION:

- 3.1 The contractor at his own cost may visit MPA site, before quoting for the offer if necessary.
- 3.2 Power supply 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.
- 3.3 All the material required for execution of the work has to be arranged by contractor at his own cost.
- 3.4 After completion of the subject work, the contractor shall clear the area of any unwanted scrap while handing over.
- 3.5 Work shall be carried out following all environmental norms.
- 3.6 Contractor shall follow all safety regulations as per relevant and prevailing standards.

Sample pics attached for reference purpose only



ANNEXURE-II

Name of the Tender: **SITC OF RAILWAY TRACK ILLUMINATION AT MPA RAILWAY R&D YARD**

Sr No	Description of work	Unit	Qty.	Rate per Unit (Exclusive of GST)	Amount exclusive of GST	GST %
1	Supply, Installation & Commissioning of GI post including civil works as per Scope & Technical Specification at Annexure I					
	a) Supply	Nos.	40			
	b) Installation and commissioning	Nos.	40			
2	Supply, Installation, Connection, Testing & Commissioning of outdoor 30W LED luminaire, as per Scope & Technical Specification at Annexure I					
	a) Supply	Nos.	160			
	b) Installation, Connection, Testing & Commissioning	Nos.	160			
3	Supply, Installation, & Commissioning of weatherproof FRP junction boxes of size 6"x6" for cable termination at each post as per Scope & Technical Specification at Annexure I	Nos.	40			
4	Supply, laying, termination & Commissioning of underground power cables of Cu 4cx6sq.mm, 1.1kV, XLPE, armoured cable from S&T building to lighting poles as per Scope & Technical Specification at Annexure I					
	a) Supply	Mtr	800			
	b) Laying, Termination & Commissioning	Mtr.	800			
5	Excavation of cable trench in medium soil/railway ballast, interlocking pavement, rail crossing and refilling back as per Scope & Technical Specification at Annexure I	Mtr	800			
TOTAL (Exclusive of GST)						

(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.