



PARADIP PORT TRUST

BUDGETARY OFFER

FOR

SUPPLY & INSTALLATION OF FLAMEPROOF ENCLOSURE LED  
LIGHT FITTINGS AT NORTH OIL JETTY.

SUBMISSION ON OR BEFORE DT.18/12/2017.

THE EXECUTIVE ENGINEER (ELECT.)

PORT ELECTRICAL DIVISION – I

PARADIP PORT TRUST,

PARADIP, JAGATSINGHPUR,

ODISHA – 754142

Contact No. 98612-44414

Email Id: [skbhoipt@gmail.com](mailto:skbhoipt@gmail.com)

## **REQUEST FOR BUDGETARY OFFER**

### **(A) GENERAL INFORMATIONS:**

<b>Sl. No.</b>	<b>Item</b>	<b>Details</b>
1.	Name of Work	Supply & Installation of flameproof enclosure LED Light fittings at North Oil Jetty.
2.	Department / Organization	ELECTRICAL & MECHANICAL DEPARTMENT / PARADIP PORT TRUST
3.	Executive Division	Port Electrical Division.
4.	Officer Inviting the Offer	Executive Engineer
5.	Immediate Next Authority	Superintending Engineer
6.	Sanctioning Authority	Dy. Chairman, PPT
7.	Executing Authority	Executive Engineer

### **(B) OTHER INFORMATIONS:**

<b>Sl. No.</b>	<b>Item</b>	<b>Date</b>	<b>Time</b>
1	Publication date	28/11/2017	16:15
2. a)	Document download start date	28/11/2017	16:15
b)	Document download end date	18/12/2017	17:00
3. a)	Start date for seeking Clarification on-line	28/11/2017	16:15
b)	Last date for seeking Clarification on-line	11/12/2017	17:00
4.	Date of uploading response to Clarifications sought	15/12/2017	17:00
5.	Offer Submission end date	18/12/2017	17:00
6.	Offer Validity period	120 days	
7.	Currency of Offer	Indian Rupee	
8.	Language of Offer	English	

Budgetary offer for the work: Supply & Installation of flameproof enclosure LED Light fittings at North Oil Jetty.

### **SCOPE OF WORK**

Paradip Port Trust intends to replace existing 125watt well glass type HPMV fittings and 250 watt HPMV Floodlight fitting by 60watt &120 watt energy saving flameproof enclosure LED lights at North Oil Jetty of Paradip Port Trust. The Contractor has to supply the LED Lights with the following specifications.

- 1) **Technical Specification of LED Light fittings with mounting Bracket:**
  - a) Power capacity: 60 Watt /120Watt
  - b) Supply voltage: 230V AC, 50 Hz.
  - c) Lumen Efficacy: 100 Lumen / Watt.
  - d) Operating temperature: Up to 50<sup>0</sup> C.
  - e) Enclosure: Pressure die cast aluminium LM-6 with Ex(d) protection for Gas Gr.IIA, IIB, IIC & zone 1, zone2 i.e. flameproof, corrosion resistant with Superior Finish with Epoxy powder coating.
  - f) Driver Circuit: Surge and over current protection 10KV with excellent heat dissipation Technology.
  - g) Degree of protection: IP-66 & above.
  - h) Life of the LED Lamps: At least 50,000 burning hours.
  - i) The LED glass shall be transparent, Toughened & Heat resistive.
  - j) Make of LED: CREE / NICHIA / LUMILEDS / OSRAM /SAMSUNG.
- 2) The LED lights must comply the followings certifications:
  - a) Zone-1 & zone-2 test certificate for flameproof fittings from Govt. Lab or NABL accredited laboratory for complete LED fittings.
  - b) LM-79 certified for photometry test.
  - c) Test certificate for IP-66 protection.
- 3) The Contractor has to supply necessary mounting bracket and clamps as required to fix the LED light fittings. The brackets and clamps should be anti corrosive galvanised material. A sketch of the existing 4.5 mtrs. fibre pole and the detailed dimensions at the location of fitting the LED lights is attached at Annexure – I. The brackets / clamps, etc. required to fix the LED light fittings may be accordingly designed and made.
- 4) The Contractor has to remove the existing HPMV light fittings from the 4.5mtr. FRP pole & from 18 Mtr. Lattice tower and fix the new 60W/120W LED light fitting respectively with connection of cable. The Contractor shall test & commission the light fittings successfully and to the satisfaction of Engineer-In- Charge.

### **Other Commercial Conditions:**

#### **a) Payment Terms:**

The payment will be made as follows:

- i) 70% of material cost will be paid on supply and delivery of materials at Paradip Port in good condition and verification & acceptance thereof by the Engineer In-charge (EIC). However, the Contractor must ensure that the materials are delivered to site in time with the progress of site activities are at par to the approved BAR chart failing which payment shall not be released.
- ii) 20% of material cost and 90% of installation and commissioning charges will be paid after successful installation, commissioning & acceptance thereof by the Engineer-In-charge (EIC).
- iii) Balance 10% of the total contract value shall be retained by PPT towards Performance Security Deposit. The Performance Security Deposit shall be released after successful completion of the warranty period only. The Contractor may furnish a Bank Guarantee of equal value valid till one month after expiry of the warranty period in which case the balance 10% money will be released for payment.

#### **b) Security Deposit:**

A sum of 10% of accepted value of the tender shall be deposited by the successful bidder (Contractor) as Security Deposit (SD). This will be deposited initially 1% value of the contract as initial security deposit (ISD) in shape of a Bank Guarantee or Demand Draft (DD) / Banker's Cheque drawn in favour of FA&CAO, Paradip Port Trust (DD/ Banker's cheque shall be payable at Paradip) within 15 days of issue of Letter of Intent (LOI). After deducting the EMD and ISD from the stipulated security deposit, the balance amount will be recovered in instalment through deduction at the rate of 10% of the value of each running account bill subject to attaining the required amount by the last running bill. In case of exemption of EMD, the successful bidder has to deposit initially 3% of the contract value as ISD instead of 1% of contract value.

The Contractor may submit Bank Guarantee for the balance amount after deducting the EMD and ISD from the stipulated security deposit in which case there will be no deduction from the running bills towards security deposit.

EMD of the successful bidder may be refunded to the bidder after receiving an equivalent amount of Bank Guarantee only after issue of work order and signing of agreement.

The Contractor may also submit Bank Guarantee for a sum of 10% of accepted value of tender as Security Deposit (SD) within 15 days of issue of Letter of Intent (LOI) in which case (i) deposit of 1% ISD will not be required; (ii) there will be no deduction from the running bills towards security deposit; and (iii) EMD of the successful bidder will be refunded to the bidder after issue of work order and signing of agreement.

The security deposits shall be returned to the Contractor within 45 days of successful execution and acceptance of the work. The BG shall be valid till 45 days after the scheduled date of completion of the work.

#### **c) Execution Period:**

The commencement date of the work shall be 15 days from the date of issue of Work Order and completion date shall be 02 months from the date of commencement.

**d) Warranty:**

The warranty period shall be valid up to 02 (Two) years on the entire work inclusive of the supply items with effective from date of acceptance of the work.

- The Contractor shall warrant the Board that the goods and services under this contract will comply strictly with the contract, shall be first class in every particular case and, shall be free from defects. The Contractor shall further warrant the Board that all materials, equipment and the supplies furnished by him/her will be new and fit for their intended purposes.
- The Board shall promptly notify the Contractor in writing of any claim arising under this Warranty. Upon receipt of such notice, the Contractor shall promptly repair or replace the defective goods and/or services at no cost to the Board.
- If the Contractor, having been notified, fails to remedy the defects in accordance with the contract, the Board may proceed to take such remedial action as may be necessary, at the Contractor's risk and cost.

**e) Liquidated Damage (LD):**

a) Unless otherwise specified, in case of delay in completing the work, liquidated damage shall be charged to the Contractor at the rate 0.25% of the contract price for a delay of one week or part thereof subject to a maximum of 5% of the contract price if the original execution period is 90 days or more. Where the original execution period is less than 90 days, liquidated damage shall be charged to the Contractor at the rate of 0.1% of the contract price for a delay of one day or part thereof subject to a maximum of 5% of the contract value. Where the Liquidated Damage amount exceeds the maximum limit, Paradip Port Trust reserves the right to :-

i) Terminate the contract and / or ii) Forfeit the Initial Security Deposit (ISD).

b) In case of "substantial completion" of a section of work and subsequent taking over by the purchaser within the scheduled date of completion, the liquidated damage shall be levied on the cost of balance portion of the works which are completed after the scheduled date. "Substantial Completion" of a section shall mean that the section has been completed, passed the tests, if any, to meet its intended purpose and can be used by the purchaser for that purpose.

- Any query in this regard may be raised to the following email id prior to dt.11/12/2017 up to 17:00 hrs., which will be clarified by dt.15/12/2017 by uploading in the website for facilitating submission of a competitive budgetary offer.
- Budgetary offers shall be submitted to the following address (through email or by Registered Post)

**NOTE:** Percentage of GST may be mentioned extra against each item.

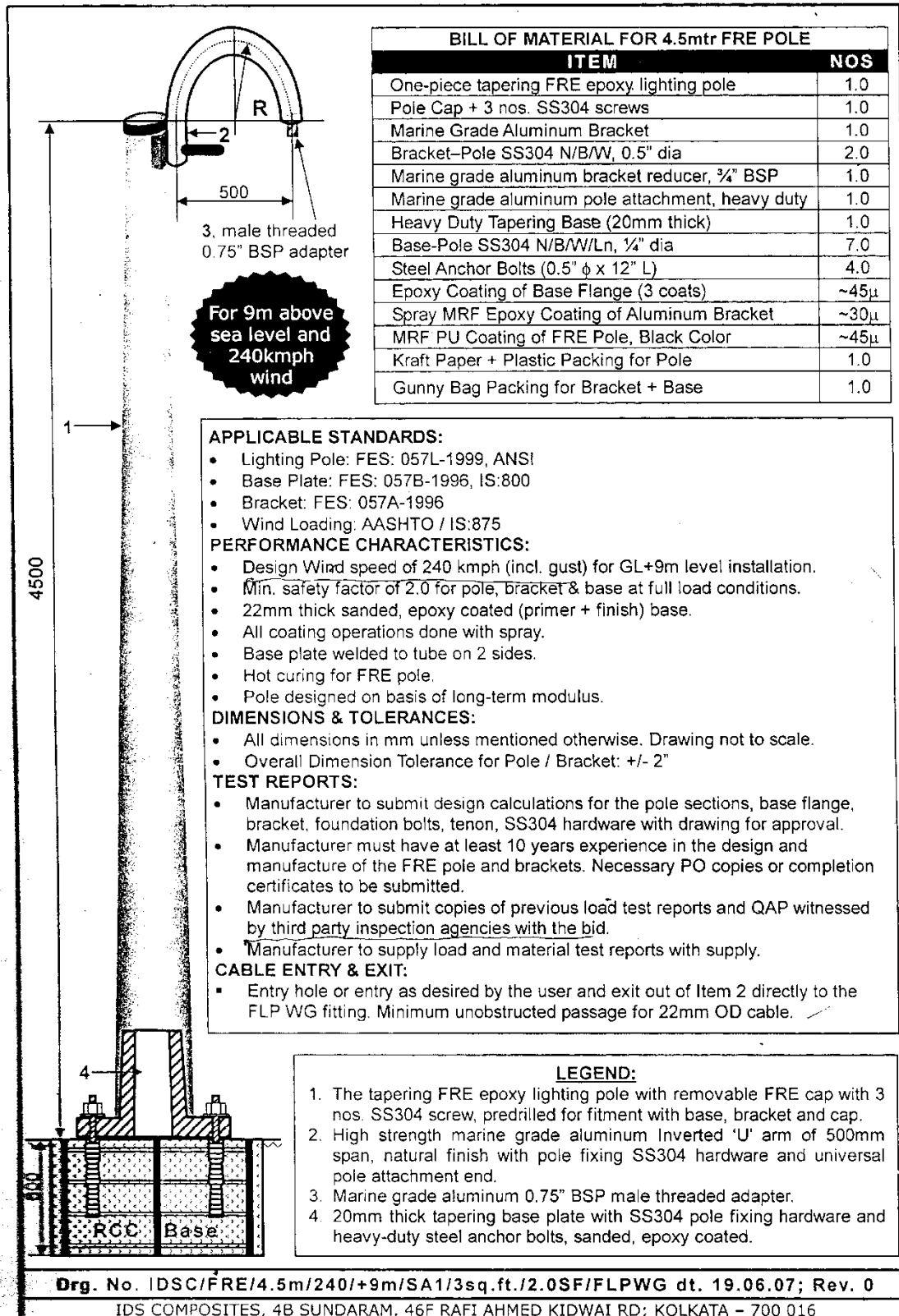
Executive Engineer (Elect),  
Port Electrical Division – I,  
Paradip Port Trust.  
PO: - Paradip,  
Dist: - Jagatsighpur  
Odisha – 754142  
Contact No. 98612-44414  
Email Id: [skbhoipt@gmail.com](mailto:skbhoipt@gmail.com)

## BILL OF QUANTITY

**Sub.:** Supply & Installation of flameproof enclosure LED Light fittings at North Oil Jetty.

Sl. No.	Description of Work	Qty.	Unit	Rate (in Rs.)	Amount (in Rs.)	Remarks
<b>(A) SUPPLY PART</b>						
1	Supply of 60 Watt flameproof enclosure LED light with mounting bracket and clamps as per the specification mentioned in scope of work.	95	Nos.			
2	Supply of 120Watt flameproof enclosure LED light with mounting bracket and clamps as per the specification mentioned in scope of work.	24	Nos.			
<b>TOTAL (A):</b>						
<b>(B) EXECUTION PART:</b>						
3	Fixing of new 60 Watt flameproof enclosure LED light fittings by removing the existing HPMV fittings including connection and testing.	95	Nos.			
4	Fixing of new 120 Watt flameproof enclosure LED light fittings by removing the existing HPMV fittings including connection and testing.	24	Nos.			
<b>TOTAL (B):</b>						
<b>GRAND TOTAL (A + B):</b>						

**Note:** GST percentage to be mentioned extra against each item.



BILL OF MATERIAL FOR 4.5mtr FRE POLE	
ITEM	NOS
One-piece tapering FRE epoxy lighting pole	1.0
Pole Cap + 3 nos. SS304 screws	1.0
Marine Grade Aluminum Bracket	1.0
Bracket-Pole SS304 N/B/W, 0.5" dia	2.0
Marine grade aluminum bracket reducer, 3/4" BSP	1.0
Marine grade aluminum pole attachment, heavy duty	1.0
Heavy Duty Tapering Base (20mm thick)	1.0
Base-Pole SS304 N/B/W/Ln, 1/4" dia	7.0
Steel Anchor Bolts (0.5" $\phi$ x 12" L)	4.0
Epoxy Coating of Base Flange (3 coats)	~45 $\mu$
Spray MRF Epoxy Coating of Aluminum Bracket	~30 $\mu$
MRF PU Coating of FRE Pole, Black Color	~45 $\mu$
Kraft Paper + Plastic Packing for Pole	1.0
Gunny Bag Packing for Bracket + Base	1.0

**APPLICABLE STANDARDS:**

- Lighting Pole: FES: 057L-1999, ANSI
- Base Plate: FES: 057B-1996, IS:800
- Bracket: FES: 057A-1996
- Wind Loading: AASHTO / IS:875

**PERFORMANCE CHARACTERISTICS:**

- Design Wind speed of 240 kmph (incl. gust) for GL+9m level installation.
- Min. safety factor of 2.0 for pole, bracket & base at full load conditions.
- 22mm thick sanded, epoxy coated (primer + finish) base.
- All coating operations done with spray.
- Base plate welded to tube on 2 sides.
- Hot curing for FRE pole.
- Pole designed on basis of long-term modulus.

**DIMENSIONS & TOLERANCES:**

- All dimensions in mm unless mentioned otherwise. Drawing not to scale.
- Overall Dimension Tolerance for Pole / Bracket: +/- 2"

**TEST REPORTS:**

- Manufacturer to submit design calculations for the pole sections, base flange, bracket, foundation bolts, tenon, SS304 hardware with drawing for approval.
- Manufacturer must have at least 10 years experience in the design and manufacture of the FRE pole and brackets. Necessary PO copies or completion certificates to be submitted.
- Manufacturer to submit copies of previous load test reports and QAP witnessed by third party inspection agencies with the bid.
- Manufacturer to supply load and material test reports with supply.

**CABLE ENTRY & EXIT:**

- Entry hole or entry as desired by the user and exit out of Item 2 directly to the FLP WG fitting. Minimum unobstructed passage for 22mm OD cable.

**LEGEND:**

1. The tapering FRE epoxy lighting pole with removable FRE cap with 3 nos. SS304 screw, predrilled for fitment with base, bracket and cap.
2. High strength marine grade aluminum Inverted 'U' arm of 500mm span, natural finish with pole fixing SS304 hardware and universal pole attachment end.
3. Marine grade aluminum 0.75" BSP male threaded adapter.
4. 20mm thick tapering base plate with SS304 pole fixing hardware and heavy-duty steel anchor bolts, sanded, epoxy coated.

Drg. No. IDSC/FRE/4.5m/240/+9m/SA1/3sq.ft./2.0SF/FLPWG dt. 19.06.07; Rev. 0

IDS COMPOSITES, 4B SUNDARAM, 46F RAFI AHMED KIDWAI RD; KOLKATA - 700 016