

NEW MANGALORE PORT AUTHORITY MARINE DEPARTMENT

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No. NMPA/AE-MW/BUOY-AMC/2024/03

DATE: 10.07.2024

SUB: Budgetary Quotation for Maintenance of Marker Buoys, Leading Lights and Towline Lights for Navigational Aids for a period of 3 years - Reg.

Kindly quote your realistic budgetary rates for Maintenance Contract for a period of 3 years for the maintenance of under mentioned Marker Buoys, Leading lights and towline lights with its accessories in New Mangalore Port Authority.

- a) 13 Nos. Channel Marker Metal buoys in the approach channel.
- b) 04 Nos. Cardinal buoys (Polyethylene Buoys) near the wreck.
- c) 03 Nos. Leading lights with 12 Volts Battery (DC power Backup) installed on towers at shore.
- d) 04 Nos. Towline lights with 12 Volts Battery (DC power Backup) installed on towers at shore.

The Scope of work and Terms & Conditions of the contract are as follows:

SCOPE OF WORK:

1. Periodic Maintenance of the Marker Buoys:

- a) The Marker Buoys are to be retrieved from their position using Tug and brought ashore and lifted on to the berth using a Crane. Shifting of Buoys from its position to another location for dredging purpose or any other related work. (Tugs, Launches and Crane will be provided by NMPA free of cost on availability)
- b) Inspection for damages or repairs to be carried out.
- c) Scrapping, Chipping, Cleaning, Surface preparation and painting to be carried out as per the given Painting Scheme (**Annexure III**)
Total Area to be covered;
 - a) Under water: 18sq.mtrs (apprx).
 - b) Above water: 20sq.mtrs (apprx).
- d) Replacement of damaged Sacrificial Zink Anodes. (**Sacrificial Zinc anodes to be provided by contractor as per quoted rates in Annexure-I**)

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- e) Worn-out sinker connected pendent chain links (specific length), Swivel piece, Triangular plate and forelock end shackles are to be replaced with new and welded into position. **(Sinker will be provided by NMPA, however, replacement of open link pendent chain, swivel piece, triangular plate and forelock end shackles to be provided by the contractor as per Annexure-II BOQ quoted rates)**
- f) Corroded plates of superstructure to be replaced and welded. **(MS angle plates to be provided by the contractor as per specification as and when required, Ref. Annexure-I Sl. no. 1.05)**
- g) Repair and replacement of defective Lanterns. **(Lanterns as per specification to be provided by the contractor as per Annexure-II BOQ quoted rates).**
- h) Reinstalling of Marine Lantern after painting the Buoy as per painting scheme and checking for flashing.
- i) Any other concerned work as instructed by the Engineer-in-Charge is to be carried out.
- j) After inspection by Engineer-in-Charge, lowering the buoy into the water and redeploy it in its position as per the instructions of the Marine Surveyor.
- k) The maximum time for completion of job for one Buoy is **10** working days.
- l) The contractor is responsible for arranging the crane and transportation to shift buoy accessories or any necessary materials required for maintenance.
- m) The offers must adhere to the specified BOQ format **Annexure-I**, with rates quoted on a per Buoy basis.

2. Critical Spares of Navigational Aids:

The critical spares required during servicing/repairing Navigational Aids will be arranged by the contractor. The rates quoted in **Annexure-II** shall be excluding GST and will be paid based on actual charges. These rates are valid for 3 years till the completion of the contract period. **However, these spares are optional and will only be used during servicing/repairing of Navigational Aids on requirement basis.**

3. Monthly Maintenance of the Lanterns, Leading Lights and Towline lights.

- a) Upon receiving the complaints about defective lantern or the Leading/ Towline lights, immediate action will be taken. Defective Leading/Towline Lights will be repaired or replaced. (Batteries for Leading/ Towline light will be supplied by NMPA)
- b) Battery maintenance.(Distilled water, Battery terminals, cables, lamps etc., will be arranged by contractor)
- c) In case of complaints regarding Buoy Lantern at sea, launches will be provided by the department free of cost.

- d) The Contractor is responsible for providing the necessary tools and materials required for repair works. However, in case of critical items required in an emergency, the contractor can arrange them and submit the original Invoice for reimbursement of costs.
- e) All maintenance and service details must be accurately documented in the Log Book.

Terms and conditions:

1. The contract period is for **Three years** (from the commencement of service)
2. The job may be thoroughly inspected prior to quoting..
3. Rate to be quoted without GST. **The GST as applicable would be paid extra.**
4. Income Tax shall be deducted from the bill as applicable.
5. Power supply for the work will be arranged by NMPA free of cost on availability. If not available the Contractor has to arrange for the same at his own cost.
6. Painting should be as per attached painting scheme.
7. The rates must be in realistic manner based on present market rates.
8. The Contractor has to make arrangement for repatriation of staff at his own cost.
9. Office/Workshop will be provided by NMPA inside Port. The Contractor will arrange and provide accommodations and transport for operational staff nearest to the port.
10. Experienced operational staff members like proficiency in swimming, handling situations safely and efficiently and knowledge of water safety must be on standby 24x7 to promptly address any complaints.
11. Port entry passes will be issued free of cost for the operational staff, Managers and their vehicles. However, RFID Card to be purchased from pass section Marine Department at contractors cost. The cost of each card is Rs.150/- approximately.
12. The contractor has to comply with the Contract Labour Act, Workmen Compensation Act and shall follow the ESI & Provident Fund Rules for their personal/crew engaged. The contractor should also note that they should employ the crews of Indian Nationals only. Any damages to the Port properties during Service / repairs will be at contractors account.
13. All works must be carried out to the entire satisfaction of the Officer i/c.
14. **Protection of Environment:** All measures and aspects to be adopted to protect the environment.
15. **Safety Regulations:** Working personnel should wear proper PPE and follow the safety regulations.
16. NMPA shall not be liable for any accident, damage or compensation payable to any workman or other person in the employment of the Contractor or any Sub contractor.

ANEXXURE-I: BOQ for Maintenance and Servicing of Navigational Aids

Sl.No.	Item Description	Amount/ Qty in Rs.	Qty (For 3 Years)	Total Amount in Rs.
1.01	Charges for Retrieving the Buoy from its position at the approach channel and lifting it on the berth.(with crane provided by NMPA at free of cost)		27.00 jobs	
1.02	Charges for redeployment after maintenance work (with crane provided by NMPA at free of cost)		27.00 jobs	
1.03	Chipping, Painting of the Buoy as per painting scheme: Chipping, Scrapping work & Painting to be carried out as per painting scheme on underwater surface area (18Sq.Mtrs Apprx) and above water surface area (20Sq.Mtrs Apprx) of the Buoy. Note: Paints as per the painting scheme to be provided by the Contractor.		27.00 jobs	
1.04	Sacrificial Zinc Anodes: Cutting of old worn out anodes and welding of new anodes. (Anodes of size 290mm x 120mm x 50mm x 04 Nos per Buoy) Supply of new Zinc anode should be 90 to 99% purity confirmed as per test certificate. Lab certificate to be provided for anodes		27.00 jobs	
1.05	Cutting and welding work: (Optional) Cutting and welding of Sinker connected chain links and replacement of corroded angle plates of superstructure (Vertical angle 75mm x 75mm x 8mm thick and Horizontal angle 65mm x 65mm x 6mm thick)		27.00 jobs	
1.06	Charges for shifting one Buoy from its position to another location for dredging purpose or any other related work.		60.00 jobs	

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1.07	Rate for monthly maintenance: a) Periodic Battery maintenance. b) Maintenance of Leading lights and Towline lights and its accessories. (Including replacement of lamps) c) Repair/Replacement of Lanterns and any other periodic maintenance works of Buoys at sea. d) Maintenance/repair of corroded Light fittings bracket on the towers as and when required.		36.00 jobs	
SUB TOTAL				
GST				
TOTAL AMOUNT				

ANNEXURE-II

ANEXXURE-II BOQ for Critical Spares of Navigational Aids:

Sl.No.	Item Description	Qty.	Amount in Rs.
1.01	M S open link chain 38 mm dia. As per IS 4692 OR any standard IACS certified.	1 meter	
1.02	Swivel piece 38 mm nom. dia. As per IS4484 OR any standard IACS certified.	1 no.	
1.03	Forelock end shackles 38 mm nom. dia. As per IS4484 OR any standard IACS certified.	1 no	
1.04	Triangular Plate (MS) 42 mm Thick, any standard IACS certified	1 no	
1.05	Lantern; 12Vdc 10 Watt. Self contained Solar operated High intensity Marine LED beacon with 100,000 hours of burning life. Luminous range not less than 5 NM range (T=0.74) and IALA approved. IP 67/68 rating with programmable character. Sturdy Polycarbonate and UV resistant lens with automatic ON/OFF switch photo diode. Protection against reverse polarity and excessive input voltage. Anti corrosion salt water resistant body, weight not more than 5.5Kg.	1 no	

ANNEXURE-III**PAINING SCHEME**

Sl No.	Type of Paint	Colour	No. of Coats	DFT in Microns
	Underwater Area			
1.	Surface Tolerant Epoxy Primer	-	2FC	100
2.	Tie Coat Epoxy Intermediate	-	1FC	100
3.	Antifouling	Black	2FC	100
	Above water area			
1.	Surface Tolerant Epoxy Primer	-	2FC	100
2.	Finish Coat Epoxy	Red/Green/White/Yellow/Black	2FC	40

The Above paint scheme is only a guide. Equivalent Marine Paints such as Jotun, Hempel, Sigma or International Marine or International may be used.