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मुंबई पोर्ट प्राधिकरण  
MUMBAI PORT AUTHORITY



उप संरक्षक का कार्यालय  
समुद्री विभाग पोर्ट भवन १ ला माला  
शूरजी वल्लभदास मार्ग बॅलार्ड इस्टेट  
मुंबई : 400 001.  
Deputy Conservator's Office,  
Marine Department, Port Bhavan,  
1<sup>ST</sup> Floor, Shoorji Vallabhdas Marg,  
Ballard Estate, Mumbai - 400001.

No. DC/MRC-EML ( 30 )/24-25

DATE:19/06/2024

**Sub: Budgetary enquiry: for Submission of Sealed quotation for Electric operated Mooring launches for mooring operation to Marine Department, of Mumbai Port Authority. For Five Years Extendable by Two Years**

**Good Day Sir,**

Mumbai Port Authority's, Marine Department intends to carry out the subject work. Hence Sealed Competitive quotations are invited from the firms. You are therefore, requested to submit your lowest competitive quotation for Mooring launches for mooring operation to Marine Department, of Mumbai Port Authority. The Technical Specifications are Given Below.

The quotations shall be sealed submitted tender submission box provided at Harbour Master's office at 1st floor Port Bhavan, Mumbai Port Authority Head office, Shoorji Valabhdas Marg, Fort Mumbai 400001 on or before 15.00 Hrs. on 28/06/2024

**Technical Specifications:**

- **Length Overall (LOA):** 12 meters
- **Breadth (Beam):** 5.2 meters
- **Depth:** 2.35 meters
- **Draft:** 1.5 meters
- **Electric Propulsion:**
  - **Power:** 2 x electric motors Suitable for Operation as per load calculation and speed (approximately)
  - **Endurance Limit:** 2.5 hours (continuous operation on a single charge)
  - **Charging Time:** 15 minutes (fast-charging capability, assuming suitable charging infrastructure)
- **Pulling Capacity:** 2-3 tonnes
- **Speed:** Approximately 10 knots
- **Class:** IRS (Indian Register of Shipping)

**General Arrangement (GA):**

- **Deck Layout:**
  - Space allocated for mooring equipment and operations.

- Possibly an area for battery storage and charging equipment.
- **Wheelhouse:**
  - Navigation and control station with visibility for mooring operations.
- **Engine Room:**
  - Housing for electric motors, batteries, and associated electrical systems.
- **Crew Accommodation:**
  - Basic facilities for crew members, considering the compact size of the vessel.

#### **Design Considerations:**

- **Electric Propulsion System:**
  - Selection of efficient electric motors suitable for marine applications.
  - Integration with batteries capable of providing 2.5 hours of endurance.
  - Fast-charging capability to achieve a 15-minute recharge time, assuming appropriate shore power or onboard charging infrastructure.
- **Hull Design:**
  - Optimized hull form for efficient operation at speeds up to 10 knots.
  - Consideration of weight distribution to accommodate batteries and maintain stability.
- **Safety and Certification:**
  - Compliance with IRS or other relevant classification society standards for electric propulsion systems and safety features.
  - Implementation of fire suppression systems and electrical safety measures.

#### **Operational Benefits:**

- **Environmental Impact:** Reduced emissions compared to diesel engines, aligning with sustainability goals.
- **Cost Efficiency:** Potentially lower operating costs due to reduced fuel consumption and maintenance requirements.
- **Quick Turnaround:** Fast charging capability enables shorter downtime between operations.

Thanking you.

Yours faithfully,

DEPUTY CONSERVATOR

