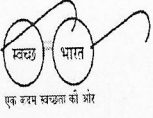


दीनदयाल पत्तन प्राधिकरण  
DEENDAYAL PORT AUTHORITY



Office of the Executive Engineer (C-I),  
Administrative Office Building  
Room no. 302, Second floor  
Post Box No. 50, Gandhidham-Kachchh  
Email: dpt.roro@gmail.com  
[www.deendayalport.gov.in](http://www.deendayalport.gov.in)

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No: CN/WK/

Date:28/06/2024

To,

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\_\_\_\_\_  
\_\_\_\_\_

**Expression of Interest**

**Sub: - Request for EOI for "Annual Maintenance Contract of Navigational Channel Marking System (Buoys) at Ghogha - Ro-Pax" - Reg.**

Sir,

Deendayal Port Authority intends to carry out the work for "Annual Maintenance Contract of Navigational Channel Marking System (Buoys) at Ghogha - Ro-Pax".

Kindly submit your Expression of Interest along with a budgetary – offer as per the prescribed format i.e. Annexure – I along with Annexure - II.

The rates quoted must be inclusive of all taxes, duties for performing the scope of work & exclusive of GST. The GST applicable shall be shown separately, which shall not be considered for evaluation purposes.

Your expression of interest along with a budgetary quotation for the above work should reach the following address on or before **05/07/2024 by 15:00 Hrs.**

**Address: -**

Office of the Executive Engineer (C-I),  
Project Division, Administrative Office Building,  
Room No. 302, Second floor, Annexe,  
P.O. Box No. 50, Gandhidham – Kachchh.

Thanking you,

Yours faithfully,

**Executive Engineer (C-I)**  
**Deendayal Port Authority**



**PROJECT DIVISION****BUDGETARY OFFER**

Item No.	Description of Item	Qty.	Unit	Rate Per Unit	Total Qty.
<b>PART - A for Civil Works.</b>					
1	Boat Hire charges for repairing of buoys & its accessories like replacing battery, solar panel, fabrication & FRP works etc. & tracing the missing buoys at Ghogha channel	1.00	Hour.		112.00
2	Crane capacity minimum 30 MT, Barges have a enough stability to manoeuvring in channel	1.00	Hour.		56.00
3	Crack Repairing work in FRP/PE with material & labour in all respect	1.00	Sq. Mt.		14.00
4	Repairing of Buoys accessories at sea like Repairing of marine lantern/Navigation Aids/ replacing of battery/Cleaning work etc..	1.00	Job Work		14.00
5	Solar Battery Vega Make Model No-VLB-67 LED	1.00	No.		7.00
6	MS tail tube	1.00	No.		5.00
7	MS Super Structure	1.00	No.		5.00
8	Top marker	1.00	No.		5.00
9	Marine Lantern	1.00	No.		5.00
10	Radar Reflector	1.00	No.		5.00
11	SS Nuts & Bolts	1.00	Kg.		10.00
12	Chain Joiner	1.00	No.		5.00
13	D-Shackle 32mm size	1.00	No.		10.00
14	Swivel 32mm size	1.00	No.		10.00
15	Mooring Chain 32mm	1.00	R.Mt.		10.00
16	5 MT Dry Anchor (M35 Concrete, 8 mm tor Steel 150mm c/c, 1.5 Mtr 32 mm Mooring Chain Insert & Shuttering work etc. complete)	1.00	No.		5.00
17	Float (Quadrant Float of Navigational Buoy Aton-3000, UV Stabilized virgin polyethylene material, Filled with Polyurethane Foam, colour as per IALA Recommendation type)	1.00	No.		5.00

**PART - B : For Credit Part**

1.	Taking away dismantled and damaged unserviceable scrap materials which included MS channels, plated, bars, angles, barbed wire etc. including loading, unloading & transportation etc. complete as directed by engineer in charge.	1.00	Kg.		784.00
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**1. Technical Specifications for Boat Hire Charges**

- Item Includes Boat Hire charges for repairing of buoys like replacing battery, solar panel, fabrication & FRP works etc.& tracing the missing buoys at Ghogha channel
- The boat will be used by contractor personal for said buoys work at Ghogha sea
- The cost inclusive of Master, helper, fuel oil & other cost.
- Outline particulars
- Length: 6-8 Meters
- Width(Max): 2-3 Meters
- Depth: 1.00 1,5 Meters
- Draft: 0.30 0.5 Meters
- Carrying Capacity: 8-10 People (Different Seating Styles are available)
- Buoyancy: Sufficient In-built Buoyancy as per IRS norms
- Construction: Fiber Glass Reinforced Plastic
- The Measurement will be taken on hour basis and paid per hour basis as and when there is a need of Tug.

**3. Technical Specifications for Crack repairing work in FRP/PE with material & labour in all respect**

- Item Includes Hole & Crack leakage proof repairing work in PE Buoys.
- The rates are inclusive of labour charges, material charges & consumable.
- The payment will be given in round fig of 0.5 Sq. Mt. per Job i.e. if the actual repairing is 2.3 Sq. Mt. then payment will be given for 2.5 Sq. Mt. and i.e. if the actual PE repairing is 2.2 Sq. Mt. then payment will be given for 2.0 Sq. Mt.

**4. Technical Specifications for Repairing of Buoys accessories at sea**

- Item includes supply of only manpower Skilled, tools & plant and consumable required for buoys petty repairing work at sea like battery changing, marine lantern repairing, reflector fixing etc.
- Item includes all the responsibly and liability of supplied manpower on agency.
- The Manpower should be expert in marine work & buoys accessories repairing work especially marine lantern work.
- Board will not be responsible for any mishap or accident due to negligence or any other means of the manpower as a principle employer.
- The labour may be provided as per need within 24 hours after instruction in verbal /telephonic OR in written by the EIC.
- Measurement will be taken and paid per buoy assembling & disassembling basis for working per shift base.



## **5. Technical Specifications for Solar Battery Vega Make Model No-VLB-67 LED.**

- The Item Includes supply of Solar Batter Vega Make Model No. VLB 67 LED as old one.
- Battery technology and advanced charging algorithm.
- Excellent battery life in hot climates.
- Excellent battery capacity in cold climates.
- Excellent battery tolerance to becoming flat.
- The guaranty for the said battery is 01 Year from the date of installation.
- The measurement will be taken & paid per nos basis.

## **6. Technical Specifications for MS Tail Tube & it' s Ballast.**

- MS Tail Tube & it' s Ballast Size: -  
Ø770 od x 12mm Thick MS Plate for bottom fitting  
10mm Thick stiffener for bottom plate (cutting as per requirement)  
Ø406 OD x Ø 392 ID 772mm Long Centre Pipe  
Qq Ø750 OD x Ø 730 ID 830mm Long Centre Pipe  
RCC Ballast – 500 Kg
- The MS Tail Tube &its ballast will be supplied, if required during entire year.
- The MS Tail Tube &its ballast should be supply as old one
- Measurement will be taken and paid per No's basis for actual tail tube &its ballast supplied.

## **7. Technical Specifications for Super Structure.**

- Item includes supply of buoys super structure as old one green or red as required.
- The superstructure shall be high elasticity and light weight is manufactured with closed-cell polyethylene solid foam sheet (no water absorption) and projected with a layer of colored polyurethane elastomer.
- The superstructure of the buoy should be designed to have suitable ladder with step and ring for the safety of the person attending in any weather condition at sea.
- The super structure should be conform to IALA
- Thickness – 10 mm
- Measurement will be taken and paid per Nos. basis for actual super structure supplied.

## **8. Technical Specifications for Top Marker.**

- Item includes supply of buoys GRP TOP Marker as old one as per IALA system red or green as required.
- Measurement will be taken and paid per Nos basis for actual top marker supplied.



## 9. Technical Specifications for Marine Lantern.

- Item includes supply of buoys Marine Lantern as old one as per IALA system red or green as required  
Specification of Marine Lanterns: -  
Range: 5 NM  
Voltage: DC 9 to 30  
Visibility: - 360 °Horizon  
Lens Type: Single Piece molded polycarbonate  
Lens Dia: - 140 mm Min  
Vertical Divergence: - 7 ° Min  
Flasher: inbuilt selectable 256 codes conforming to IALA  
Monitoring &Control: - Capable for remote monitoring  
Lantern Housing: - Suitable for Marine Environment IP 65  
Weight: - < 5 Kg  
Relative Humidity: 100 % Condensing  
Wind: - Designed to withstand speeds in excess of 75 kmph  
Light intensity automatically adjusts with flash character  
Battery will continue to charge between -40°C and +65°C
- Battery technology and advanced charging algorithm
  - Excellent battery life in hot climates
  - Excellent battery capacity in cold climates
  - Excellent battery tolerance to becoming flat
- Large solar cell capacity 8W or 16W
- Make: - VLB 5x SS as old one
- The guaranty for the marine lantern is 01 year from the date of installation.  
Measurement will be taken and paid per No's basis for actual marine lantern supplied.

## 10. Technical Specifications for Radar Reflector.

- Item includes supply of buoys Radar Reflector as old one as per IALA system red or green as required
- Radar Reflector is made in in 6 segment for better & accurate reflection.
- The material used is non-corrosive aluminum sheeting with appropriate paint system.
- Color: - White
- Height: - 10-12 Kg
- Measurement will be taken and paid per Nos basis for actual radar reflector supplied.

## 11. Technical Specifications for SS Nut & bolts.

- The Contractor has to Manufacture/supply good quality SS nut bolt as per size required.
- The Payment will be done on Kg basis of actual nut bolt supplied.



**12. Technical Specifications for Chain Jointer (As per Drawing) IRS/IACS approved.**

- Item includes supply of buoys Chain Jointer as old one as per IALA system.
- The Chain Jointer will be IRS/IACS approved.  
Measurement will be taken and paid per No's basis for Chain Jointer supplied as old one.

**13. Technical Specifications for D' Shackle 32mm Size IRS/IACS Approved.**

- Item includes supply of buoys Bolt Shackles as old one as per IALA system.
- The D Shackles will be IRS/IACS approved.
- Features: Longer service life, Rugged in construction, High resistance to corrosion
- The shackle material must be an alloyed or un-alloyed special steel in accordance with Indian Standard whose technical requirements are:  
Tensile strength  $R_m \geq 850$  MPa  
Break elongation  $A_5 \geq 12\%$   
Reduction of area  $Z \geq 40\%$   
Impact toughness  $K_v = 58$  J ( $0^\circ\text{C}$ )  
Brinell hardness  $HB \geq 280$
- The chemical composition of the steel must be such that the above technical requirements are met after handling.  
The following alloying elements shall not be exceeded:  
 $C \leq 0,45\%$   
 $Si \leq 0,45\%$   
 $P \leq 0,04\%$   
 $S \leq 0,04\%$
- $Mn \leq 1,90\%$
- A certificate of the composition of the material must be provided.
- Measurement will be taken and paid per No's basis for Shackle supplied.

**14. Technical Specifications for Swivel 32 mm Size (IRS/IACS approved).**

- Item includes supply of buoys Bolt Shackles as old one as per IALA system.
- The Swivel will be IRS/IACS approved.
- Measurement will be taken and paid per No's basis for Swivel supplied as old one.

**15. Technical Specifications for Mooring Chain 32mm Size (IRS Approved).**

- Item includes supply of buoys Bolt Shackles as old one as per IALA system.
- The D Shackles will be IRS/IACS approved.

- Features: Longer service life, Rugged in construction, High resistance to corrosion
- The chain material must be alloyed or unalloyed tempered steel in accordance with IRS Register of Shipping quality class/IACS.  
Tensile strength  $R_m \geq 640$  MPa  
Break elongation  $A_5 \geq 15\%$   
Reduction of area  $Z \geq 40\%$   
Impact toughness  $K_v = 58$  J ( $0^\circ\text{C}$ )  
 $K_v = 49$  J ( $0^\circ\text{C}$ ), at weld  
Brinell hardness  $HB \geq 220$
- The chemical composition of the steel must be such that the above technical requirements are met after tempering and that the composition is suitable for the welding method to be used.  
The following alloying elements shall not be exceeded:  
 $C \leq 0,33\%$   
 $Si = 0,20 \dots 0,35\%$   
 $P \leq 0,04\%$   
 $S \leq 0,04\%$   
 $Mn \leq 1,90\%$