

**:- SHCEDULE - B :-**

**Name of Work: Annual Maintenance Contract of Navigation Channel Marking System (Buoys) at Dahej - RO-PAX**

| T.I.<br>No. | Description of Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quantity | Rate    |          | Unit    |                  | Amount |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|----------|---------|------------------|--------|
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          | In Fig. | In words | In Fig. | In words         |        |
| <b>1</b>    | Tug Hire Charges (1001 to 1500 HP) for<br>1. Installation, Repositioning of 3 Mtr Dia, 6.5mtr Height & 3.4 Ton buoys & its mooring gears plus 5 ton sinker at different navigation spot in Ro-Pax channel at Dahej.<br>2. Towing of toppled/drifted above said buoy from the Dahej channel to the Dahej Pontoon/other near place. The work inclusive of hire charges of suitable tug with assembling, lifting, shifting, loading & un-loading of buoy arrangement. The tug having GPS or DGPS for buoys positioning. The Tug will be equipped with 1suitable capacity machinery to lift buoys & it's accessories with sinker | 260.00   |         |          | Hr.     | One Hour         |        |
| <b>2</b>    | Tug Hire Charges (801 to 1000 HP) for<br>1. Installation, Repositioning of 3 Mtr Dia, 6.5mtr Height & 3.4 Ton buoys & it's mooring gears plus 5 ton sinker at different navigation spot in Ro-Pax channel at Dahej.<br>2. Towing of toppled/drifted above said buoy from the Dahej channel to the Dahej Pontoon/other near place. The work inclusive of hire charges of suitable tug with assembling, lifting, shifting, loading & un-loading of buoy arrangement. The tug having GPS or DGPS for buoys positioning. The Tug will be equipped with 1suitable capacity machinery to lift buoys & it's accessories with sinker | 104.00   |         |          | Hr.     | One Hour         |        |
| <b>3</b>    | Boat Hire charges for repairing of buoys & its accessories like replacing battery, solar panel, fabrication & FRP works etc & tracing the missing buoys at Dahej channel                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 156.00   |         |          | Hr.     | One Hour         |        |
| <b>4</b>    | Barges with Crane.<br>Crane capacity minimum 30 MT, Barges have a enough stability to maneouvering in channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 52.00    |         |          | Hr.     | One Hour         |        |
| <b>5</b>    | Crane Hire charges (20 Ton) for lifting, shifting, loading-unloading, assembling-disassembling purpose of buoys at shore.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 260.00   |         |          | Hr.     | One Hour         |        |
| <b>6</b>    | Hire Charges of labour for salvage of buoys during drift at shore & other buoys related misc. work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |         |          |         |                  |        |
| <b>(A)</b>  | Supervisor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 78.00    |         |          | Day     | One Day          |        |
| <b>(B)</b>  | Skilled Labour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 156.00   |         |          | Day     | One Day          |        |
| <b>(C)</b>  | Semi-Skilled Labour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 156.00   |         |          | Day     | One Day          |        |
| <b>7</b>    | A General Fabrication work of buoys material like plate, stiffener, pipe , flat bar, channel, Angle, Round bar etc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 26.00    |         |          | Job     | Job              |        |
| <b>8</b>    | <b>PE repairing work</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |         |          |         |                  |        |
| <b>(A)</b>  | Hole Repairing work in FRP/PE with material & labour in all respect                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 156.00   |         |          | Sq. Mt. | One Square Meter |        |
| <b>(B)</b>  | Crack Repairing work in FRP/PE with material & labour in all respect                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 156.00   |         |          | Sq. Mt. | One Square Meter |        |
| <b>9</b>    | Repairing of Buoys accessories at sea like Repairing of marine lantern/Navigation Aids/ replacing of battery/Cleaning work etc..                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 26.00    |         |          | Job     | One Job          |        |
| <b>10</b>   | <b>Supply of Various Material</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |         |          |         |                  |        |
| <b>(A)</b>  | MS Tail Tube & it' s Ballast Ø770 od x 12mm Thick Plate for bottom fitting 10mm Thick stiffener for bottom plate ( cutting as per requirement) Ø406 OD x Ø 392 ID 772mm Long Centre Pipe Ø750 OD x Ø 730 ID 830mm Long Centre Pipe RCC Ballast – 500 Kg                                                                                                                                                                                                                                                                                                                                                                      | 26.00    |         |          | No.     | One Number       |        |

|     |                                                                                                                                     |                    |  |  |        |                   |  |
|-----|-------------------------------------------------------------------------------------------------------------------------------------|--------------------|--|--|--------|-------------------|--|
| (B) | Super Structure                                                                                                                     | 6.00               |  |  | No.    | One Number        |  |
| (C) | Top Marker                                                                                                                          | 6.00               |  |  | No.    | One Number        |  |
| (D) | Marine Lantern                                                                                                                      | 20.00              |  |  | No.    | One Number        |  |
| (E) | Radar Reflector                                                                                                                     | 12.00              |  |  | No.    | One Number        |  |
| (F) | Chain Jointer (As per Drawing) IRS/IACS approved.                                                                                   | 26.00              |  |  | No.    | One Number        |  |
| (G) | D' Shackle 32mm Size IRS Approved                                                                                                   | 364.00             |  |  | No.    | One Number        |  |
| (H) | Swivel 32 mm Size (IRS approved)                                                                                                    | 26.00              |  |  | No.    | One Number        |  |
| (I) | Mooring Chain 32mm Size (IRS Approved)                                                                                              | 1586.00            |  |  | R. Mt. | One Running Meter |  |
| (J) | Solar Battery Vega Make Model No-VLB-67 LED                                                                                         | 26.00              |  |  | No.    | One Number        |  |
| (K) | Supply/Mfg. of SS material like Nut, Bolt & washer etc. The Price includes labour & raw material in all respect. Min. Material 1 Kg | 520.00             |  |  | Kg.    | One Kilogram      |  |
| 11  | Providing & fixing 5 Mt Dry Anchor (Sinker)                                                                                         | 26.00              |  |  | No.    | One Number        |  |
| 12  | Providing & Fixing Float                                                                                                            | 20.00              |  |  | No.    | One Number        |  |
|     |                                                                                                                                     | <b>Total = Rs.</b> |  |  |        |                   |  |

**Contractor**

**Superintending Engineer (P)**  
Deendayal Port Authority