



आईएसओ 9001-2015 पत्तन  
AN ISO 9001-2015 PORT

MORMUGAO PORT AUTHORITY  
**ENGINEERING MECHANICAL DEPARTMENT**  
**ELECTRICAL HARBOUR SECTION**

**NOTICE INVITING BUDGETORY OFFERS**

Name of Work	<b>“Upgradation of Weather Monitoring station (Anemometer) installed at Berth no:11”</b>
Date of submission of budgetary quotation	On or Before <b>24/02/2023 at 15:00 Hrs.</b>
Address for communication:	Executive Engineer (E-HR), 2nd floor, Mechanical Engineering Department, Mormugao Port Authority, Admin. Building, Headland sada Vasco-de-Gama Goa - 403804
Contact Details	Phone : (0832) 2594207, 2594577 Email : <a href="mailto:mohamed.shaik@mptgoa.gov.in">mohamed.shaik@mptgoa.gov.in</a>
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**EXECUTIVE ENGINEER (E-HR)**  
**MORMUGAO PORT AUTHORITY**



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**Sub: "Upgradation of Weather Monitoring station (Anemometer) installed at Berth no:11".**

**Ref:** Budgetary Quotation No. CME/XEN (E-HR)/ 22/H-16/B8

Mormugao Port Authority intends to carryout work of Upgradation of existing weather monitoring system (Anemometer) so that the data generated is directly share live to Goa State Pollution Control Board (GSPCB) server.

As such, it is requested to kindly furnish budgetary quotation for the same (Scope of work, technical specifications are enclosed at Annexure-I and Price Schedule is enclosed at Annexure- II).

Your budgetary quotation should reach to this office on or before 24/02/2023 at 15:00 Hrs.

**Thanking you,**

Yours sincerely,

**EXECUTIVE ENGINEER (E-HR)**

**Annexure-I**

**TECHNICAL SPECIFICATION**

**1. GENERAL:**

Mormugao Port Authority intends to carryout work of Upgradation of existing weather monitoring system (Anemometer) so that the data generated is directly share live to Goa State Pollution Control Boards (GSPCB) server.

**2. Existing weather monitoring Station (Anemometer)**

Port has installed Sunpro make Anemometer at berth no: 11 for monitoring/ recording wind speed. This instrument is also equipped with siren which has been set to operate when wind speed crosses 8m/sec.

The specifications of existing components of this weather monitoring station are:

**Wind speed sensor (3 cup anemometer):**

- Make: Sunpro
- Model: SWA 8600.
- Output: 4-20 mA DC
- Range :0-60 meter/sec
- Power:24 V DC operated

**Flat Touch Screen Data Logger with USB Pen drive with Hooter:**

- Make: Sunpro
- Model:DL-35
- Input signal: 4-20 mA DC from wind speed sensor.
- Range: 0-60 meter/sec.
- Output: RS232 & Printer Port/ USB Port for Pen drive max 4GB
- Memory:25000 log time per channel
- Power supply :240 VAC
- Alarm: HI/LO alarm with Potential free contact.
- Display:3.5 Flat screen ALL channel display at a time

**3. SCOPE OF WORK for Upgradation of existing weather monitoring system (Anemometer) so that the data generated is directly share live to Goa State Pollution Control Board (GSPCB) server.**

**Part-A: Brief scope of work**

- 3.1. Supply and Installation of Current splitter and Data logger for data acquisition from Anemometer
- 3.2. Anemometer Analog output to be connected to the current splitter in order to feed the same output to display existing data logger DL35 and 4G Data acquisition module.
- 3.3. 4G Data acquisition module shall acquire data and upload the same to the GSPCB server.
- 3.4. There should not be any effect on the existing set up and other process.

**4. Technical Specifications:**

**4.1. Data logger hardware(Data Acquisition Module) for direct connectivity to GSPCB**

- Input will be 4-20 mA DC from existing wind speed sensor through current splitter.
- It should have GPRS/Wi-Fi/LAN and 4G connectivity (4G sim will be provided by the Port).
- Power supply: 230VAC.
- 2 no's. RS232/RS485 ports shall be available
- It should able to connect Analog to Digital converter of any make.

**4.2. Software for direct connectivity to GSPCB**

- ISO-7168 Compliant
- Software compliant with GSPCB.
- Reports for data downloaded from website.
- Real time Alert & Alarms with SMS & E-mail.
- Free Android App on Google Play.
- 1 year free support for Data Connectivity.
- Data push to GSPCB server.

**4.3. Current Splitter :**

- Anemometer Analog output (4-20mA DC) has to be connected to the current splitter and the same output of current splitter will be

used to feed to existing data logger DL35 and 4G Data acquisition module.

4.4. **UPS:-**

1 KVA, 230V online UPS has to be provided to entire weather monitoring system.

4.5. **Installation and Commissioning:**

- Installation of current splitter and Data acquisition Module.
- Connect output of the existing Anemometer to the current splitter in order to feed the same output to display DL-35 and Data Acquisition Module.
- Data Acquisition Module should be able to acquire the data and upload it to the GSPCB server. Required Parameter addition i.e. wind speed -range- 0-60 m/s shall be carried out at MPT site & GSPCB.
- There should not be any effect on the existing setup of Data logger DL-35 and other processes.
- Installation of 1 KVA UPS.
- All the material including wires/cables/brackets/screws required for execution of the work has to be arranged by contractor at his own cost.
- All required correspondence with GSPCB for uploading the data live on GSPCB server is sole responsibility of the contractor.

5. **GUARANTEE PERIOD:**

- The contractor shall guarantee the subject work for a period of 5 (five) year from the date of commissioning and satisfactory handing over. The Contractor shall be solely responsible for any defects that may develop under the guarantee period and shall at his own cost rectify such defects when called upon to do so by the Engineer.

- Contractor has to ensure that the data generated is shared live to GSPCB server during the entire tenancy of guarantee period. All correspondence if required has to be done by the contractor with GSPCB.

### 6. Schematic Diagram:

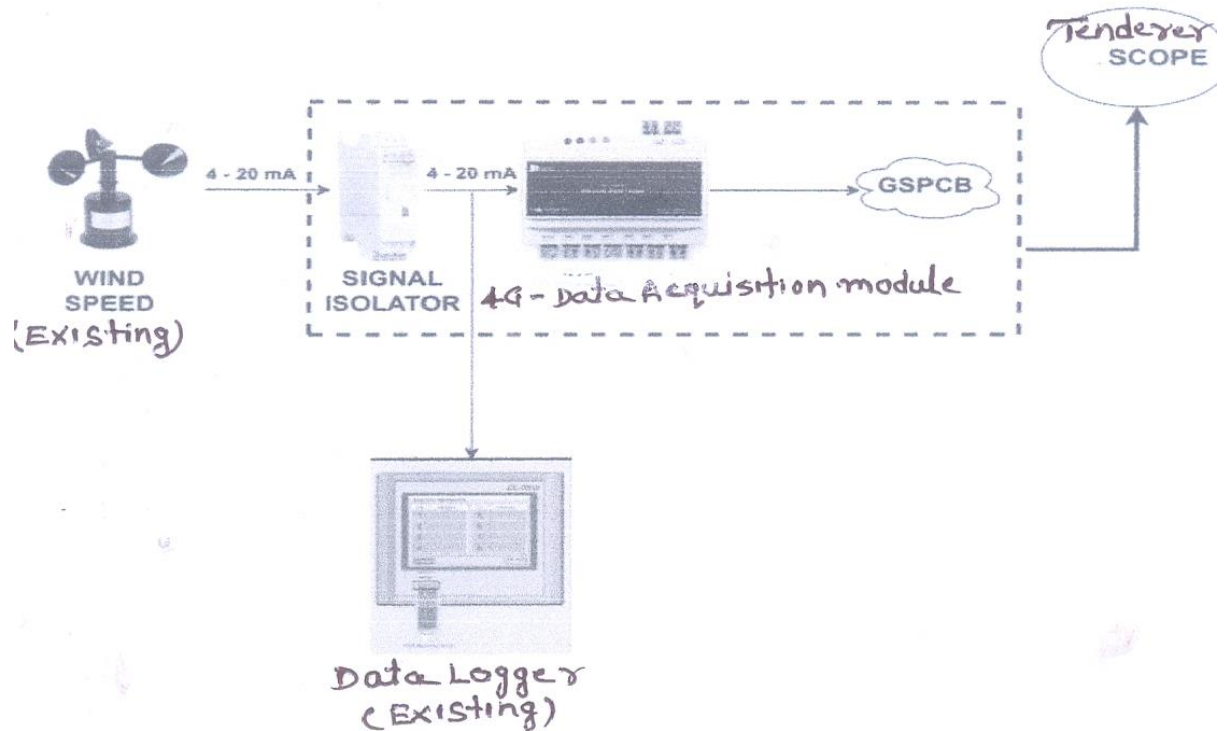


Fig 1: Schematic Diagram

### 7. Qualification Criteria :

- The Bidder shall have successfully supplied and commissioned Weather Monitoring station during last 7 (Seven) years ending last day of month previous to the one in which quotations are invited for Central Govt. / State Govt. / Port Sector / PSU or any reputed organization



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**8. Special terms And Condition:**

- i. The contractor is advised to visit MPT site at his own cost before quoting.
- ii. The work shall be carried out as per the site condition and as directed by the Engineer in Charge.



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**BILL OF QUANTITIES**

**Name of the work: Upgradation of Weather Monitoring station (Anemometer)**  
**installed at Berth no:11**

Sr. No.	Description of work	Unit	Qty.	Rate per Unit (Rs.)	Total Amount (Rs.)
1	Data logger hardware for direct connectivity to GSPCB server as per technical specifications 4.1	no.	1		
2	Software for direct connectivity to GSPCB server as per technical specifications 4.2	no.	1		
3	Current Splitter as per technical specifications 4.2	no.	1		
4	1 KVA UPS as per technical specifications 4.4	no.	1		
5	Installation and Commissioning Charges as per technical specifications 4.5	LS.	1		

(In words Rupees

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Note: The prices offered should be exclusive of GST (%) . GST will be paid extra as applicable.