



GOAL: WAY TO NATIONAL PROSPERITY

PORT QASIM AUTHORITY

* BIN QASIM, KARACHI - 75020

41

NOTICE INVITING TENDER

Port Qasim Authority, under Federal Ministry of Ports & Shipping invites sealed bids from Manufacturers/Authorized Distributors/Suppliers/ Contractors etc. registered with Income Tax and Sindh Sales Tax Departments for supply of Marine Environment Monitoring System comprising following sensors/equipment:

- i. Weather Station
- ii. Wave Gauge / Sensor
- iii. Tide Gauge / Sensor
- iv. Sea Current Sensor
- v. Portable Water Density Sensor
- vi. Portable ADCP (Acoustic Doppler Current Profiler)
- vii. All metocean data need to be received in real time at Base Station through integrated data logger / interface box

2. Interested Manufactures / Authorized distributors / suppliers / contractors etc. may obtain Tender Documents/complete description along with terms and conditions from the Office of Manager Procurement, Stores Department, Port Qasim Authority, Karachi during the office hours 0900 am hours to 3:30 pm (Monday to Friday) on payment of Rs. 2,000/= fee (**Non-refundable**) in shape of Pay Order in favour of Port Qasim Authority. The bids prepared in accordance with instructions in the bidding documents along with **Rs.400,000 Earnest money (Refundable)** in shape of Pay Order in favour of Port Qasim Authority must reach at Manager (Procurement) office, Stores Department, PQA on or before 29th March, 2017, at 1230 **hours**. Bids will be opened on the same day **1400 hours** in the Conference Room Admin Building, Port Qasim Authority in presence representatives of firms, who may wish to be present. The documents received after due date and time will not be entertained. Bids submitted without earnest money shall be rejected. This advertisement is also available on PPRA website at www.ppra.org.pk.

3. Port Qasim Authority reserves the right to accept or reject any or all bids as per PPRA-2004 and no claim whatsoever will be entertained in this regard. Authority's decision in this respect shall be final and binding on all parties.


(Muhammad Saqib)
Secretary

Website: www.pqa.gov.pk
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PPRA Website: www.ppra.org.pk

INSTRUCTIONS TO BIDDERS

Port Qasim Authority (PQA) under Federal Ministry of Ports & Shipping invites sealed bids from Manufacturers/Authorized Distributors/Suppliers/Contractors registered with Income Tax & Sales Tax Departments and Sindh Revenue Board (SRB) to supply Marine Environment Monitoring System comprising following sensors/equipment and other items to quote their rates which are as under:

S.NO.	Description of Items	A/c Unit	Qty Req.	Unit Price	GST	Total Amount	Grand Total
1.	<u>Automated Weather Station</u> Providing real time weather information to be installed at Base Station (PQA Control Tower) in position. 24°46.6913 N 067° 21.1518 E	No	1				
2.	<u>Wind Tower</u> Giving real time wind speed, direction and visibility to be installed at Beacon No. 3 in approach channel of Port Qasim in position. 24°34.7038 N 067° 04.0875 E	No	1				
3.	<u>Waves & Tide Sensor</u> Giving real time non-directional wave spectra and water level information to be installed at Beacon No. 3, in approach channel of Port Qasim	No.	1				
4.	<u>Current Sensor</u> Providing real time true vector current speed and direction to be installed at Beacon No. 3 in approach channel of Port Qasim	No	1				
5.	<u>Portable Water Density Sensor/Probe</u> Capable of measuring changing water density at desired locations.	No	1				
6.	<u>Portable ADCP (Acoustic Doppler Current Profiler)</u> Capable to measure current profile upto 30 meters depth at desired locations.	No	1				
7.	<u>Central Data System Housed in Base Station</u> Displaying real time met ocean data / information received from MFMS Sensors through integrated data logger / interface box / connectors.	Yes	1				
8.	<u>Data Collection & Maintenance / Repair Services</u> Data Collection & Maintenance / Repair Services for 12 months from certification by PQA.	---	---				

Total Bid Price



Total Bid Price: Rs _____ (Rupees _____ Only)

State the GST Rate in figures & words: - _____

2. The tender documents complete in all respects along with **Rs.400, 000/- Earnest Money (Refundable)** in shape of Pay Order in favour of Port Qasim Authority and copy of GST Registration Certificate are to be submitted by _____ 2017 at 1230 hours in the office of Manager (Procurement), Stores Department, PQA. Bids will be opened on the same day at 1400 hours in the Conference Room Admin Building in presence of bidders or their authorized representative who may like to be present.
3. Details of the items / specifications alongwith terms & conditions of the tender can be collected from the Office of Manager (Procurement) at Stores Department, PQA during office hours.
4. The method of procurement will be single stage single envelope procedure.
5. Tender without earnest money will not be accepted.
6. Firm awarded the contract will be responsible for supply, installation, commissioning, and collection of data, maintenance / repair and training of MEMS.
7. Sealed bids from the manufacturers / authorized distributors / suppliers / contractors etc. registered with Income Tax and Sales Tax Departments & SRB with quoted rates as per specification mentioned are to be submitted.
8. Rates quoted must be valid for 120 days from the date of opening of the tender.
9. Rates quoted should be on the basis of free delivery at Port Qasim Authority, Stores Department Bin Qasim, Karachi-75020 including all taxes and transportation charges. All delivery risks and consequences shall be of the supplier.
10. Hundred Percent (100%) Payment will made subject to certification by PQA for complete supply, installation and commissioning of the MEMS. Account No. & Name of Bank to be indicated on the body of bill to facilitate payment.
11. The 12 months data collection and maintenance / repair service cost shall be paid quarterly on certification by PQA. This 12 months period for data collection & repair / maintenance services can be further extended upto 2 years with mutual consent of both parties subject to satisfactory performance of the firm. Data collected by the firm or its rep(s)/ engineer(s) assigned by the firm should be treated as CONFIDENTIAL and it should not be transferred / disseminated to any other person or party/agency except authorized Department(s)/ Officer(s) of PQA.
12. Bidders as an option have also to provide estimated cost for providing services for data collection and repair/ maintenance for the period of 5 (five) years.
13. Liquidated Damages at rate of 2% of the Contract Price per month maximum 10% of the Contract Price will be recovered, if supply is not made within the contract period.



14. All type of taxes including GST, Income Tax etc. will be borne by the supplier.
15. Only Bidders registered with Income Tax, Sindh Revenue Board (SRB) & General Sales Tax Collectorate are eligible. Copy of the General Sales Tax Registration Certificate, Income Tax Certificate and Sindh Revenue Board Registration Certificate must be enclosed with the tender.
16. The successful bidder shall have to furnish a performance Bond equal to 10% of the Contract Price of a Bank Guarantee acceptable to POA prior to the issuance of the award of the Contract. The Earnest Money of unsuccessful bidders shall be returned within 30 days of award of the Contract.
17. Earnest Money will be released after satisfactory supply.
18. Conditional tenders will not be entertained.
19. The supply, installation and commissioning will have to be completed within 150 days of the award of the Contract. The 12 months maintenance/repair and data collection period shall commence from the date of certification of commissioning of the MEMS by POA.
20. Rates must be quoted in Pak Rupees/ Local currency for all the required items. If more than one quality of any item is quoted, rates shall be mentioned separately.
21. Only Technically Qualified bidders will be considered on the basis of lowest evaluated bid.
22. Bid/quotation must provide letter of the manufacturer / authorized distributor showing that equipment being supplied is new.
23. Total Bid Price inclusive of all Duties and Taxes must be written in figures and words.
24. Bid/quotation and attached documents/brochures of offered items along with complete NIT & Instruction to Bidders must be unconditionally signed and stamped on each page.
25. If any bidder fails to submit or comply with the above, their bid / quotation will be treated as NON RESPONSIVE.
26. Sub-standard items will be rejected and returned at the expense of Bidder / authorized distributor.
27. Bidding Firms have to give detail briefing / presentation to POA in house committee regarding working / functioning of their purposed MI M systems for Technical Evaluation.
28. The proposal for award will be rejected, if it is determined that the contractor / supplier recommended for award has been engaged directly or through an agent in corrupt, fraudulent, collusive or coercive, practices, as defined in the PPRA Rules-2004 while competing for the contract in question



29. Port Qasim Authority reserves the right to accept or reject any or all bids / quotation as per PPRA-2004 and no claim whatsoever will be entertained in this regard. Authority's decision in this respect shall be final and binding on all parties.
30. Details / specifications of MEMS sensors / equipments are given at Annexure A.

LT Col (R) Tanveeruddin Farooqui
Director (Stores)

PORT QASIM AUTHORITY

Details of MEMS Sensors / Equipment

1. Ruggedized Automated Weather Station(Ultrasonic)

- Output Parameters;
 - Wind Speed and True Direction.
 - Barometric Pressure.
 - Air Temperature.
 - Relative Humidity.
 - Rainfall / Precipitation.
 - Present Weather.
- Power Supply – 12 V DC and 240 V AC.
- Operational Environment; - 0 to 50°C

2. Ruggedized Wind Tower (Ultrasonic)

- Out put Parameters - Wind Speed, Direction and Visibility
- Power Supply – Solar Power / Battery.

3. Rugged Non-Contact Wave & Tide Sensor

- Output Parameters;
 - Significant Wave Height.
 - Maximum Wave Height.
 - Zero Crossing Period.
 - Significant Wave Period.
 - Water Level.
- Accuracy - ± 1.5 cm
- Resolution - 1.0 cm
- Operating Temp - 0 to 50°C
- Power Source - Solar Power / Battery

4. Rugged Doppler Current Sensor (Insensitive to fouling)

- Output Parameters - True Vector Current Speed and Direction.

- Current Speed - 0 to 300 cm/s
- Relative accuracy - \pm 1% of reading
- Current direction - 0 to 360°
- Power Supply - Solar Power / Battery

5. Portable Water Density Sensor

- Out put Parameters:
 - i. Salinity.
 - ii. Sea Water Temperature.
- Able to measure changing water density at required locations.

6. Portable Acoustic Doppler Current Profiler (ADCP)

- Able to measure complete current profile at required location upto 30 meters depth.

7. Central Data System at Base Station

- Out put Parameters:
 - Able to receive and display real time melocean information at one place / work station in digital format.
 - Able to receive and display data from other sources through Internet.
- **Central Data System should be minimum comprised of;**
 - Work Station(s) with 19" CD Monitor(s) as a MMS Server and for Operator.
 - Display of information also required in Control Tower.
- Marine Environment Monitoring Software.
- Integrated data logger, report generator and alarm manager etc.

Note:

1. A common Telemetry System / Antenna need to be installed in Approach Channel (exposed to open sea) at Beacon No. 3, which should be able to transmit data from MEMS Sensors mentioned at Serial No. 2, 3 & 4 to Base Station through UHF / VHF / Cellular Network. Power source should be Solar Battery.
2. Post installation, data collection & repair/maintenance services up to one (1) year should be provided.
3. Full Warranty of two (2) years of the equipment should be provided.
4. If the supplier / agent have local workshop in Karachi should also give the details.
5. Firm / Supplier have to provide complete technical details and working methodology regarding their system in their offer.
6. MFMS operating and maintenance manuals in hard and soft copies (two sets) along with sensors operating software's, drawings, training material, necessary spares, connectors should be provided.

Lt Col (R) Tanveeruddin Farooqui
Director (Stores)