



National Technology Centre for Ports, Waterways & Coasts.  
(NTPWC)

No.606, 6<sup>th</sup> floor New academic complex  
IIT Madras -Chennai -600036- PHONE:22578915.  
Phone: 22578915/19

Ref: No. PROJECT NO.OEC/17-18/138/MOSH/KMUR

DATE:25.02.2019

Tender ref no. NTPWC/BMWTR/010

**Item Description: BOTTOM MOUNTED WAVE & TIDE RECORDER -1no (as per specification attached)**

Due date : 14.03.2019 at 3.00 P.M.

Dear Sir,

1. Quotations/Tender with compliance sheet are invited in duplicate for the various items shown below/overleaf/**enclosed list**.
2. The quotations are to be in **two parts as Technical Offer and as Commercial offer**:  
The two parts of the offer are to be clearly marked on the envelopes. The two parts of the offer in separate envelopes must be enclosed in the one bigger envelope duly sealed and super scribed with reference number and due date and must be addressed to the undersigned so as to reach him on or before the due date stipulated above.
3. Fax and Email quotation are not acceptable.
4. Quotations should be valid for 90 days from the due date and period of delivery required, warranty terms etc. should also be clearly indicated. Warranty clause will be as said in the specification.
5. Imported supplies should be quoted **for CIP chennai basis indicating mode of shipment**.
6. Local firms to quote for free delivery to this Institute. If quoted for Ex-Godown delivery charges be indicated separately.
7. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples / machine/ equipment if called for should be submitted / demonstrated at free of charges and collected back at the supplier's expenses. Compliancy certificate is to be provided indicating conformity to the technical specifications
8. Sales Tax/General Taxes/ED if applicable and such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. If this is not indicated no such claim will be admitted at any stage. The taxes leviable should take into consideration that we are entitled to have concessional Sales Tax applicable to Non-Government Educational Institutions run with no profit motive for which a concession is given. Sales Tax Certificate will be issued at the time of final settlement of the bill.
9. Goods should be supplied carriage paid and insured.
10. Goods shall not be supplied without an official supply order.
11. If the item is under DGS&D Rate contract No. and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price (Please note that we are not Direct Demanding Officers). If so please send copy of the RC.
12. The Guarantee period of the item may be indicated clearly.
13. No Advance payment will be made for Indigenous purchase. However 90% Payment against Delivery and 10% after installation are agreed to wherever the installation is involved. In case of import supplies the payment will be made only through 100% Letter of Credit i.e. (90% payment will be released against shipping documents and 10% after successful installation wherever the installation is being done). (IIT Madras is exempt from payment of Excise Duty and is eligible for concessional rate of custom duty and GST for 5%. Necessary certificate will be issued on demand. IIT Madras will make necessary arrangements for the clearance of imported goods at the Airport/Seaport. Hence the price should not include the above charges.
14. **Acceptance and Rejection:-** I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.
15. **All tender amendments will be uploaded on the website only.** Bidders should keep themselves updated & conditions mentioned in the specification needs to be strictly followed  
**Tenders to be addressed to :** The project co-ordinator,NTPWC, room no.606, 6<sup>th</sup> floor new academic complex, IIT Madras, chennai- 600036

**TENDER SPECIFICATION OF BOTTOM MOUNTED  
WAVE AND TIDE RECORDER**

**1. The Scope of the supply**

Supply of the Bottom mounted wave and tide recorder and suitable accessories.

**2. Requirements**

The Bottom mounted wave and tide recorder is required to measure and record wave and tide continuously at the ports and coastal areas.

**3. Technical Specification**

Sl.No	Parameter	Description/Range
1	Type of the controller	Bottom mounted Wave Tide Recorder (WTR)
2	Quantity	1 no's
3	Pressure sensor	Piezo-resistive type
4	Application	1. Hydrology 2. Environmental monitoring 3. Flood, storm & tide tsunami measuring network
5	Measuring pressure range	50m Water height / 5bar
6	Measuring Temperature range	Upto 35°C
7	Accuracy	±0.01 % (Pressure) ±0.01°C (Temperature)
8	Sample rate	4 Hz or more
9	Communication	1. RS232 /RS485 /RS422 2. 2 wire FSK optional. 3. RS232 / USB converter supplied as standard.
10	Baud rate	2400 - 14400 (User selectable)
11	Memory	Minimum 64 Mbyte on-board FLASH
12	Internal battery	1. 3.6V DC Lithium cells based onboard battery unit. 2. Able to supply for 120hrs of continuous operation 3. (Accepts either 1.2/1.5Vcells ) - Optional
13	Graphical User Interface	1. OEM software /driver installable in any windows OS based PC.



		<ol style="list-style-type: none"> <li>2. Able to hardware setting/Data visualization/Plotting etc.,</li> <li>3. Post processing of the data</li> </ol>
13	Industrial PC	<ol style="list-style-type: none"> <li>1. 1 no of industrial laptop capable for the marine survey using WTR with preloaded OEM drivers and software</li> <li>2. OS-Windows 7 or above</li> <li>3. 320GB ROM,8 GB RAM DDR4, min 13" LCD/LED display</li> <li>4. 1 no Laptop bag</li> </ol>
14	Enclosure	Suitable for 100m water depth
15	Weight of WTR	< 20kg at air (Excluding the cable and accessories)
16	Underwater cable	100m Power & data cable
17	Mounting	SS Deployment cage/mooring frame
18	Case	Molded case/Wooden case for keeping WTR and accessories.
19	Working temperature	Upto 40 °C
20	Warranty	1 Year
21	Auxiliary Power supply	12 /24V DC
22	Instrumentation spares (Spares list to be quoted as an option.)	<p>Standard tool kit must be provided.</p> <p>Essential spares such as Power adaptor, Silicon grease- ring, connectors, internal battery, cable etc., and consumables for the operation to be included in the offer.</p>
23	Manuals, Technical literature	<ul style="list-style-type: none"> <li>• Two sets of manual copies with complete technical details.</li> <li>• All necessary details such as dimensions, weights and power consumption of the system/subsystems to be provided</li> </ul>
24	AMC Cost for the Bottom mounted Wave and Tide Recorder unit : (Optional)	
	1st yr	
	2nd yr	
	3rd yr	
	4th yr	
	5th yr	

**4. Eligibility**

The bidder must have a strong presence of at least ten years in the Indian market and Should have supplied similar type of equipment to a govt agency

**5. General**

Items to be supplied along with calibration/test certificate.

**6. Specification test**

Specification of all items to be ensured by IITM before acceptance of the same.

**7. Training**

Hands on training to be provided to get operating knowledge of the items.

**8. Dispatch**

All items should be properly packed in the suitable box and it should be dispatched to NTCPWC,IITM, Chennai-36

**9. Delivery**

Items should be supplied within 8-12 weeks from the date of receipt of purchase order.

**10. Validity**

The offer should be valid for 90 days.

Price bid format to be followed,

Sl.no	Item	Qty	Price
1	Bottom mounted WTR (Sl.no.1 to Sl.no.22 excluding Sl.no.22)		
2	Optional mounting accessories (Sl.no.22)		
3	AMC Cost for the Bottom mounted Wave and Tide Recorder unit : (Optional)		
	1st yr		
	2nd yr		
	3rd yr		
	4th yr		
	5th yr		

