



भारतीय अन्तर्देशीय जलमार्ग प्राधिकरण

(पत्तन, पोत परिवहन और जलमार्ग मंत्रालय, भारत सरकार)

INLAND WATERWAYS AUTHORITY OF INDIA
(Ministry of Ports, Shipping and Waterways, Govt. of India)

क्षेत्रीय कार्यालय : पी-७८, गार्डेनरीच रोड, कोलकाता - ७०० ०४३ (प० बं०)
REGIONAL OFFICE : P-78, Garden Reach Road, Kolkata - 700 043 (W.B.)
दूरभाष : 2439 0393 / 5577 / 6055, फैक्स : 2439 5570



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IWAI/KOL/MM/30/1/Vessel Tracker/2024-25

2nd Sept 2024

NOTICE INVITING QUOTATION

Sealed quotations are invited from the reputed Contractor/repairer/authorized dealer for Installation and Management of Digital Tracking System for IWAI Dredgers CSD Sweta (Haldia MMT), CSD Shipra (Haldia MMT) & CSD ID-IV (Kolaghat Terminal) as per annexure I & II and terms and conditions laid down below. The NIQ can also be downloaded from IWAI's website (www.iwai.nic.in).

- (2) The supply work may be done as per following terms and conditions mentioned below:
- The price may be quoted in both percentage and figure in annexure-II.
 - The price may be quoted including all the cost such as Equipments, Installation, Daily Monitoring Charges, Subscription Charges and transportation charges etc. **No other charges shall be entertained.** GST extra as applicable.
 - The installation must be completed within 10 days from the date of receipt of order from R.O. Kolkata.
 - The firm has to submit documentary evidence of current copy of the Registration Certificate, PAN, GST and Experience with similar work with Govt. Organization and PSU's.
 - The payment shall be made by RTGS/PFMS within 15 days from the date of receipt of the bill and challan, after satisfactory installation of the system. The payment for daily monitoring and monthly subscription shall be made quarterly upon submission of bills on first week of the month. A copy of the RTGS details shall be submitted along with the quotation.
 - IWAI reserves the right to accept or cancel any / all quotations without assigning any reason or any prior notice.
 - The contractor is required to submit the NIQ, including the terms, conditions, BOQ and Scope of work, duly signed and stamped. Failure to submit these documents will result in the contractor's quotation not being considered as a participant.
- (3) The Scope of work and the follow-up procedure for daily monitoring reports are attached as an annexure-I.

Head Office : Jalmarg Bhawan, A-13, Sector-1, NOIDA - 201 301 (U.P.)
Phone : +91-120-2544036, 2543972, 2527667, 2448101, Fax : +91-120-244009, 2544041, 2521764, 2543973
Website : www.iwai.gov.in / www.iwai.nic.in Email : iwainoi@nic.in

- (4) The sealed quotation should reach this office latest by **05-09-2024** at **14:00 hrs.** and will be open on same day at **14:30 hrs.** No quotation will be accepted after the last date and time for submission of quotations.

Encl: as stated above.


DIRECTOR

- Copy to: -
1. Notice Board, IWAI Kolkata.
 2. Notice Board, SMPK.
 3. IWT Directorate, Govt. of West Bengal.

1. **Scope of Work:**

1. On Completely Managed Service Basis.
2. (24*7) customer service has to be provided telephonically or physically to manage the operations of vessels if required, hence tracking system to be make operational.
3. Maintenance of licensed software (to be provided by the Vendor) and supporting VTS application for approx. 3 nos Vessels with facility to increase the number of Vessels based on requirement in future. Minimum 90 days data log to be maintained on the server.
4. Live Location monitoring on real time.
5. The location information of the Vessel to be obtained using Global Positioning System (GPS) with high accuracy.
6. The system should be able to work on a GPRS network, with option to fall back upon SMS messages wherever GPRS is not available. Data should be recorded in feedback in-memory option for selecting SMS or GPRS should be available on the vessel Mounted Units (VMU) or software.
7. Location of a vessel to be displayed on a Digitized Geographic Information System (GIS) Map.
8. Animated icons in different colours to represent vessel. Vessel in motion on a Geo-tag route to be shown in different colour, i.e In Survey Vessel "Green", Dredger "Navy Blue", Tug/Work Boat "Yellow" & Cargo/Ropax "RED" etc.
9. Display vessel registration no. and vessel name with current location on click of mouse over the vessel icon.
10. The system should facilitate sending and receiving messages to the vessel Mounted Unit for Health check of the devices.
11. Device battery % display in software
12. SIMs procured for the above VTS Project by the vendor should be capable of performing in typical operating conditions including temperature variations and should be voice barred.
13. Vendor has the option to select Pan India service provider for GPS/GSM network or region/city-wise.
14. Adequate security measures should be built into the database / application to prevent unauthorized access and data tampering.
15. No data should be share/leakage to unauthorized person /agency.
16. User should have the facility to retrieve vessel location data by sending query on GPRS/SMS and receiving the location information in response within 15 minutes (max). Vendor to provide infrastructure for SMS gateway.
17. The system shall provide log of administrative actions (user creation / modification /deletion) and log of user logins / duration etc.
18. The hardware/software / database design shall be scalable and will support existing and newly added vessel as and when required.
19. Vendor should also provide evidence that the system/services offered is also having a disaster recovery site of the complete system at another geographical location.
20. SMS Alerts for Route Deviation / Unauthorized stoppage/combination of both.
21. Data storage device in Hardware. (Expandable Option)
22. Data download facility direct from hardware.



23. Water Resistant Device.
24. Long Battery backup, if any main line cutout. (Min 12 Hrs)
25. Device input voltage variable facility.
26. Auto resettable.
27. Memory Management system should work on hardware and software for no network zone.
28. Watch Dog Facility (Self Diagnosis System)
29. Engine Data Management system for engine run time and off time monitoring.
30. Daily runtime management with distance.
31. Secured Password System.

Reports

These reports are used in the VMS system for tracking. They are as follows:

- Vessel Tracking
- Live Tracking on Map
- Real Time engine (Start & Stop).
- Total running hours of the Vessels
- Total distance cover
- Monthly report to be submitted in the form of hard copy.



**BOQ for Installation & Management of Digital Data Tracking System for IWAI Dredger
CSD Sweta, CSD Shipra & CSD ID-IV**

#	DESCRIPTION OF WORK	Unit	QTY	Rate (Rs.)	Amount (Rs.)
1	Vessel Data Monitoring with controller (4 Post) (R-VDIX)-4 or equivalent (Up to 60 days data backup storage)	No	1	35,000.00	35,000.00
2	Co-axial cable for engine connection	Mtr	100	30.00	3,000.00
3	Engine Data converter with controller	comp	1	3,200.00	3,200.00
6	Digital Pad for live monitoring (6GB/130Hz Internal with accessories	No	1	36,000.00	36,000.00
4	Installation and programming	No	1	5,000.00	5,000.00
5	Digital Data Server Yearly Recharge	Qtly.	4	9,600.00	38,400.00
6	Daily Monitoring System Yearly Charges (Monthly report to be submitted)	Qtly.	4	6,000.00	24,000.00
Estimated Cost (excluding GST) for one CSD					1,44,600.00
TOTAL Estimated Cost (excluding GST) for 03 CSD's (CSD Sweta, CSD Shipra & CSD ID-IV)		No	3	1,44,600.00	4,33,800.00
Quoted Price in (+/-) Percentage (%)					
Quoted Price in (+/-) Amount					

Rupees:

*GST Extra as applicable

Signature with stamp of the firm