



**GOVERNMENT OF INDIA  
CENTRAL WATER COMMISSION  
MIDDLE BRAHMAPUTRA DIVISION  
ADABARI, PO GAUHATI UNIVERSITY  
GUWAHATI 781014**

No. MBD/CWC/HQ-NIQ/2014/3336-39

Dated the 28<sup>th</sup> August 2014

**NOTICE INVITING QUOTATION**

Sealed quotations are hereby invited by the undersigned on behalf of the President of India for supply of following items as detailed below. **The quotations should reach in the office of the undersigned on or before 29-09-2014 up to 15.00 hrs** and will be opened on the same day i.e. **29-09-2014 at 15.30 hrs** in the presence of quotationers or their authorized representatives who are willing to be present, if any.

The undersigned reserves the right to accept or reject any or all the quotations without assigning any reason thereof.

SN	Particulars of item	Qty.	Unit	Rate (Rs.)
1.	<p><b><u>CURRENT METER WITH ACCESSORIES</u></b></p> <p><b><u>Specifications</u></b></p> <p><b>Specifications</b></p> <p><b>1. Sensor</b></p> <p><b>model</b> 6 cup wheel</p> <p><b>contact</b> every one revolution</p> <p><b>range</b> 0.05 to 3.5 m/s (starting up to maximum operational velocity)</p> <p><b>accuracy</b> for velocities up to 0.3 m/s 1 % Full Scale</p> <p><b>contact chamber</b> for velocities &gt;0.3 m/s 0.5 % FS magnetic or optic fibre.</p> <p><b>2. Suspension</b></p> <p><b>Wading</b></p> <p><b>wading rod</b> total length 3 m, graduation in cm</p> <p><b>electrical cable</b> running from current meter to counter, 10 m</p> <p><b>From a cable</b></p> <p><b>suspension cable</b> electrical cable integrated in suspension cable</p> <p>electrical cable from winch to counter, 7 m</p> <p><b>cable torque</b> torque free suspension cable</p> <p>The suspension cable should not exert any torque that may adversely affect the alignment of the flow sensor into the direction of flow. In particular in case a heavy suspension weight is used, there is a risk of cable induced torque.</p>	6	nos.	

	<p><b>suspension-rod</b> for cable suspended measurements with light weight sinkers</p> <p><b>tail fin length</b> &gt;0.25 m beyond the attach point of the suspension</p> <p>The tail fin shall be capable of aligning the current meter in the direction of flow and keep it stable in that position throughout the full velocity range.</p> <p><b>3. Fish weight</b></p> <p><b>model</b> USGS Columbus or similar</p> <p><b>material</b> cast iron or lead</p> <p><b>finish</b> smooth, painted surface</p> <p><b>mass</b> 10 kg as required for depth and current velocity</p> <p><b>suspension</b> bar fitting current meter and cable terminal</p> <p><b>Accessories</b></p> <ul style="list-style-type: none"> <li>• standard instrument tools</li> <li>• spare bearings</li> <li>• carrying case for current meter with counter</li> <li>• carrying case for fish weight(s)</li> </ul> <p><b><u>Conditions &amp; Requirements</u></b></p> <ul style="list-style-type: none"> <li>➤ The current meter shall be of such a design that it operates reliably and accurately under the prevailing flow and environmental conditions.</li> <li>➤ The current meter shall be easy to operate and maintain.</li> <li>➤ The current meter shall be supplied with the accessories as needed for effective deployment.</li> <li>➤ All materials of the current meter shall be non-corrosive.</li> <li>➤ An operator's manual, related to the type and model of the current meter, shall be part of the delivery.</li> <li>➤ The current meter shall come with the calibration data, i.e. actual calibration velocity versus actual revolutions per second as collected during the calibration process. Calibration data should uniquely identify the instrument body, the rotor, observer, rating tank, way of suspension, methodology and similar information.</li> <li>➤ The current meter shall come with a rating table and a rating chart in m/s versus revolutions per second.</li> <li>➤ The current meter shall have a provision to adjust its trimming.</li> <li>➤ The design shall be sediment resistant and have an air-filled bearing chamber.</li> <li>➤ The bearings should be field adjustable.</li> <li>➤ The current meter shall come without a protection ring/yoke in front of the rotor. Such a yoke would make the current meter sensitive to its alignment into the flow, which should be avoided.</li> <li>➤ The bearing chamber shall be as slim as possible to avoid excessive drag.</li> </ul>			
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	<ul style="list-style-type: none"> <li>➤ The electrical connections shall not protrude into the current, but backwards instead.</li> <li>➤ The electrical connections shall be of a reliable and sturdy construction.</li> <li>➤ The current meter and accessories shall be supplied in a sturdy carrying case.</li> <li>➤ An appropriate tool-set shall be included in the delivery.</li> <li>➤ The current meter shall generally comply with IS 3910-1992</li> <li>➤ For suspended operation, adequate fish weight shall be attached below the current meter.</li> <li>➤ The fish weight shall have a streamlined form and shall be suspended from a bar of adequate strength</li> <li>➤ The current meter shall have a facility to balance it into a horizontal attitude while submersed.</li> <li>➤ Horizontal and vertical tail fins at the rear end shall align the fish weight in the direction of flow.</li> <li>➤ Except for the suspension bar, no elements shall protrude from the body.</li> <li>➤ The fish weight shall generally comply with IS 4073-1967 and ISO 3454-1975.</li> </ul>			
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### **TERMS & CONDITIONS**

1. The quotations duly signed should be properly sealed and either dropped in quotation Box in the office of the Executive Engineer, Middle Brahmaputra Division, Behind Adabari Bus Stand, PO Gauhati University, Guwahati(Assam) PIN 781014 or send by post. The sealed envelope should be superscribed "**Quotation for Supply of Current Meter due on 29-09-2014**".
2. In the event of the date of opening of quotation being a holiday, quotations will be opened on the next working day with timings unchanged.
3. Quotationers must have PAN/TIN/Service Tax number/VAT.
4. Photocopies of Authorized Dealership Certificate from manufacturer should be enclosed along with the quotations.
5. The pamphlets / brochures should be submitted along with the quotation.
6. The undersigned does not bind himself to accept the lowest quotation and reserve the right to accept or reject any or all the quotations without assigning any reason thereof.
7. The material must be of standard quality and as per specifications and free from all defects. The material if found defective subsequently or not conforming to the specifications as stated above, have to be replaced by the firm without any additional charges.
8. The current meters shall be calibrated from a reputed institute/organization and rating charts to be supplied at the time of delivery.
9. The material shall have a warranty of minimum one year from the date of supply or as provided by the manufacturer, whichever is higher.
10. Material should be delivered at office of the Executive Engineer, Middle Brahmaputra Division, Behind Adabari Bus Stand, P.O. Gauhati University, Guwahati 781014 only.
11. The quantity of materials may be increased or decreased at the time of supply order.
12. Material should be supplied within 30 days from the date of supply order.
13. The rates should be F.O.R. destination at Office of Executive Engineer, Middle Brahmaputra Division, Behind Adabari Bus Stand, PO Gauhati University, Guwahati 781014 and inclusive of all taxes/charges including VAT/Service Tax/Transport charges/insurance etc.

14. Rates quoted should be valid at least for 90 days from the date of opening.
15. The rate should be quoted both in words and figure.
16. The payment will be made by account payee cheque for local supplier or by Demand Draft for outstation supplier on production of pre-receipted bill in triplicate only after satisfactory supply of the materials in good condition and as per specification.
17. TDS shall be applicable as per latest Govt. orders.
18. Performance Security @5% of the total amount will have to be deposited within 15 days from the date of issue of the supply order by the successful bidder and the same will be released after 30 days beyond the completion of warranty period.

**sd/-**

**Executive Engineer  
MBD, CWC, Guwahati**

**Copy to:**

1. The Superintending Engineer (HOC), Central Water Commission, Guwahati(Assam) for information.
2. The AAO, Accounts Branch, , Middle Brahmaputra Division, CWC, Guwahati with the request to be present at the time of opening of quotation.
3. Notice board of office of the Executive Engineer, Middle Brahmaputra Division, Behind Adabari Bus Stand, PO Gauhati University, Guwahati 781014/ CWC website / eprocure.gov.in.