



पत्र संख्या/Letter No.6/15/NIQ-HQ/2015/ 2679-82

भारत सरकार/Government of India

केंद्रीय जल आयोग/Central Water Commission

मध्य ब्रह्मपुत्र मंडल /Middle Brahmaputra Division



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चि.डब्ल.चि काम्पलेक्स/CWC, Complex,

आदाबरी बस स्टेशन/Behind Adabari Bus Stand

पोस्ट:गुवाहाटी यूनिवर्सिटी/PO: Guwahati University

गुवाहाटी /Guwahati-781014(Assam)

दिनांक/Date :- 15.07.2015

कोटेशन आमंत्रण सूचना /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 27.7.15 up to 15.00 hrs** and will be opened on the same day i.e. **27.7.15 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.

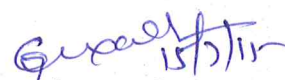
SN	Particulars of item	Qty	Unit
1	Fibre Gauge Plate (1.1 M) 0.1m wide	120	nos.
2	Digital counters, as per specification attach	3	nos.
3	Portable Echo-Sounder, as per specification attach	3	nos.
4	Rain Gauge (SRG), collecting area 200cm ² , as per specification attach	7	nos.
5	Anemo meters, as per specification attach	3	nos.
6	Wind Vane, as per specification attach	3	nos.
7	Life buoys	10	nos.
8	Life jackets	10	nos.
9	10kg. Fish weight MS, as per specification attach	3	Kg.
10	25kg. Fish weight MS, as per specification attach	3	Kg.
SILT EQUIPMENTS			
1	Silt sieves - 100 & 200 Mesh	1	Set of 2 nos.
2	Electronic Balance, as per specification attach	1	nos.
3	Descicator , as per specification attach	1	nos.
4	Punjab type silt sampler (Suspendable type)	1	nos.
5	Enameled bucks with lids	4	nos.
6	Porcelen dishes difference sizes 2" dia	25	nos.
7	Porcelen dishes difference sizes 4" dia	25	nos.
8	Electronic stopwatch	3	nos.
9	Digital counter for c.m.	3	nos.

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 equipments due on 27.7.2015.**"

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 OEM/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 material shall have a warranty of minimum one year from the date of supply or as provided by the manufacturer, whichever is higher.
9. Material should be delivered at office of the Executive Engineer, Middle Brahmaputra Division, Behind Adabari Bus Stand, P.O. Gauhati University, Guwahati 781014 only.
10. The quantity of materials may be increased or decreased at the time of supply order.
11. Material should be supplied within 30days from the date of supply order.
12. 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.
13. Rates quoted should be valid at least for 90days from the date of opening.
14. The rate should be quoted both in words and figure.
15. The rate should be inclusive of all installation charges.
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 guarantee for @5% of the total amount will have to be deducted from the bill and the same will be released after 30 days beyond the completion of warranty period.


Executive Engineer
MBD, CWC, Guwahati

Copy to:

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

Specification

Sl.No.	Particulars of item
1	<p><u>Digital Counter</u></p> <p>The pulse counter will be used during discharge measurements with 'rotating element' current meters. The revolution counter integration time will be measured with the stopwatch.</p> <p>Conditions & Requirements</p> <ul style="list-style-type: none"> • The instrument shall be compatible with the environment of operation. • The instrument shall be adequate for the application and the mode of working. • Pulse counter shall have facilities for pre-set time and pre-set pulse measurements. <p>Specifications</p> <p>Digital counter electronic counter with LCD display</p> <p>Counting frequency ≥ 50 pulses per second, anti bounce input</p> <p>Counting range ≥ 999 pulses</p> <p>Counting resolution 1 pulse</p> <p>pre-set time pulse counting</p> <p>Preset ranges ≥ 4 and infinite e.g. 30, 40, 60 and 100</p> <p>Resolution of time ≤ 0.1 s</p> <p>Measurement</p> <p>Preset number of pulses e.g. 10, 30, 60 and infinite</p> <p>Power supply standard dry cell(s), e.g. AA, Cor Dsize</p> <p>Clock quartz clock; Display good readability in daylight;</p> <p>Operating temperature 0 to 60 C, Humidity 95%;</p> <p>Enclosure rigid, portable, splash proo</p>
2	<p><u>Portable Eco-Sounder</u></p> <p>Purpose</p> <p>The portable echo-sounder specified here is an alternative for manual depth measurement at gauging stations. It will be used during discharge measurements from a boat.</p> <p>Conditions & Requirements</p> <ul style="list-style-type: none"> • The portable echo-sounder shall be of such a design that it operates reliably and accurately under the prevailing environmental conditions. • The echo-sounder will be used in sediment laden rivers and canals. • The echo-sounder shall be easy to operate and maintain. • The echo-sounder shall be supplied with the accessories as needed for effective deployment. • All materials on the echo-sounder exterior shall be non-corrosive.* • The echo-sounder shall have an expected technical lifetime of not less than 10 years. • The echo-sounder shall be capable to operate for at least 6 months without any servicing. • An operator's manual, related to the type and model of the echo-sounder, shall be part of the delivery. • Actual water depth shall be digitally presented. • The power supply shall be from batteries, e.g. internal alkaline batteries and / or external car battery. • Power consumption shall be moderate. • The displayed value shall not depend on supply voltage. • The indicated range shall be distance to the bottom. Hence, the echo-sounder should suppress echoes from the water surface (backward sensitivity) and also the result of multiple echoes should be suppressed. • The echo-sounder shall have adjustment facilities for draft, speed of sound, sensitivity and range. • The echo-sounder shall have a good performance in sediment laden rivers and canals. • An in-built chart recorder is not required. • Optionally, the echo-sounder may display water depth on a LCD screen in graphical format. <p>Specifications</p> <p>Depth range up to 50 m (selectable)</p> <p>Acoustic frequency approx. 200 kHz</p> <p>Transducer beam width narrow beam (approx. 8°)</p> <p>Transducer cable length minimum 5 m</p> <p>Accuracy $\leq 0.2\%$ of range</p>

	<p>Unit of range meters</p> <p>Resolution of display 0.10m or better</p> <p>Power supply 10 to 15 VDC, reverse polarity protected</p> <p>Display LCD, optionally with graphic trace good readability in direct sunlight</p> <p>Enclosure and connectors compliant with IP55</p> <p>Operating temperature 0 to 50°C</p> <p>Operating humidity 100%</p>
3	<p><u>Rain Gauge (SRG)</u></p> <p>Purpose</p> <p>The rain gauge will be used to collect precipitation in a recipient for quantitative measurement.</p> <p>Conditions & Requirements</p> <ul style="list-style-type: none"> ⌘ The rain gauge shall be of such a design that it operates reliably and accurately under the prevailing environmental and weather conditions. ⌘ The rain gauge shall be easy to operate and maintain. ⌘ The rain gauge shall be supplied with the accessories as needed for effective deployment. ⌘ All materials on the rain gauge shall be non-corrosive. ⌘ The locking ring shall be of rigid plastic ⌘ The rain gauge shall have smooth and permanent surface finish to minimise evaporation losses. ⌘ The minimum expected lifetime in open field shall be 15 years. ⌘ All openings of the rain gauge shall be covered with stainless steel net to protect against any insects entering inside. ⌘ The rain gauge shall comply with IS 5225-1992 <p>Specifications</p> <p>200 cm² Model</p> <ul style="list-style-type: none"> ✓ Collecting area: 200 cm² ✓ Inner Diameter of rim: 159.6 mm ✓ Collecting bottle: 2 litres ✓ Nominal capacity: 100 mm ✓ Rain measure: for 10 mm rainfall, graduation etc. according to IS 5225-1992 <p>3. Materials</p> <p>Base and collector preferably FRP</p> <p>Rim of collector aluminium or gun metal</p> <p>Accessories</p> <ul style="list-style-type: none"> • collecting bottles of 4 litres for 100 cm² collector
4	<p><u>Counter Type Anemometer</u></p> <p>Specifications</p> <p>1. Sensing range 50 m/s</p> <p>accuracy up to 2.5 m/s, 0.25 m/s</p> <p>above 2.5 m/s, 10% FS.</p> <p>2. Materials</p> <p>cups copper or aluminium sheet 0.71 mm thickness</p> <p>centre spindle stainless steel rod</p> <p>worm on spindle manganese bronze alloy</p> <p>worm wheel hard brass</p> <p>Conditions & Requirements</p> <ul style="list-style-type: none"> • The instrument shall be of such a design that it operates reliably and accurately under the prevailing environmental and weather conditions. • The instrument shall be easy to operate and maintain. • The instrument shall be supplied with the accessories as needed for effective deployment. • All materials on the instrument exterior shall be non- corrosive. • The instrument shall have an expected technical lifetime of not less than 10 years. • The instrument shall be capable to operate for at least 3 months without any servicing. • An operator's manual, related to the type and model of the instrument, shall be part of the delivery. <ul style="list-style-type: none"> • A suitable non-reset direct-drive revolution counter adding one count for each one-tenth revolution of the drive shaft in one direction shall be used. • The ratio between gears shall be such that 1 count equals 100 m/s. • The anemometer shall comply to IS 5912-1970.
5	<p><u>WIND VANE</u></p> <p><u>Specifications</u></p>

	<p>pointer counter balanced</p> <p>direction arms 8, with direction letters for N, E, S, W</p> <p>mounting materials aluminium</p> <p>(ring for direction arm, arm support & horizontal arm)</p> <p>fin & bearing housing cap aluminium alloy</p> <p>spindle brass</p> <p>direction letters galvanised steel painted red</p> <p><u>Conditions & Requirements</u></p> <ul style="list-style-type: none"> •The instrument shall be of such a design that it operates reliably and accurately under the prevailing environmental and weather conditions. •The instrument shall be easy to operate and maintain. •The instrument shall be supplied with the accessories as needed for effective deployment. •All materials on the instrument exterior shall be non-corrosive. •The instrument shall have an expected technical lifetime of not less than 10 years. •The instrument shall be capable to operate for at least 6 months without any servicing. •An operator's manual, related to the type and model of the instrument, shall be part of the delivery. •When the complete instrument on final assembly is held firm at bottom and the balance weight imparted an impact by a hammer with a mass of 0.72 kg and having a handle length of 240 mm, it shall make not less than five and not more than ten complete revolutions. • The general arrangement and main dimensions of wind vane shall comply with IS 5799-1970. 												
6	<p><u>Fish Weight 10 Kg</u></p> <p>Supply of Fish Weight 10 Kg made of C.I. with the following specifications.</p> <ul style="list-style-type: none"> • The fish weight shall have a streamlined form and shall be suspended from a bar of adequate strength • The current meter shall have a facility to balance it into a horizontal attitude while submersed. • Horizontal and vertical tail fins at the rear end shall align the fish weight in the direction of flow. • Except for the suspension bar, no elements shall protrude from the body. • The fish weight shall generally comply with IS 4073-1967 and ISO 3454-1983. 												
7	<p><u>Fish Weight 25 Kg</u></p> <p>Supply of Fish Weight 25 Kg made of C.I. with the following specifications.</p> <ul style="list-style-type: none"> • The fish weight shall have a streamlined form and shall be suspended from a bar of adequate strength • The current meter shall have a facility to balance it into a horizontal attitude while submersed. • Horizontal and vertical tail fins at the rear end shall align the fish weight in the direction of flow. • Except for the suspension bar, no elements shall protrude from the body. • The fish weight shall generally comply with IS 4073-1967 and ISO 3454-1983. 												
SILT EQUIPMENT													
1	<p><u>Electronic Balance</u></p> <p>Specifications</p> <table> <tr> <td>Type</td><td>electronic, single pan</td></tr> <tr> <td>capacity</td><td>up to 200 g</td></tr> <tr> <td>resolution</td><td>0.1 mg</td></tr> <tr> <td>pan size</td><td>approximately 80 mm diameter</td></tr> <tr> <td>display</td><td>LCD</td></tr> <tr> <td>power supply</td><td>220 V \pm25%, 47 to 53 Hz AC Power</td></tr> </table> <p>Features</p> <ul style="list-style-type: none"> • auto zero tare function • removable stainless steel tray • overload protection 	Type	electronic, single pan	capacity	up to 200 g	resolution	0.1 mg	pan size	approximately 80 mm diameter	display	LCD	power supply	220 V \pm 25%, 47 to 53 Hz AC Power
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	<ul style="list-style-type: none">• auto calibration facility <p>Accessories</p> <ul style="list-style-type: none">• set of certified calibration weights (0 to 200 gm. Full range)• voltage stabilizer• dust proof cover• necessary tools• operation manual
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