



**NATIONAL CENTRE FOR EARTH SCIENCE STUDIES**  
 (An Institution under the Ministry of Earth Sciences, Govt. of India)  
 P.B. No. 7250, Akkulam, Thiruvananthapuram-695 011, Kerala.  
**PURCHASE DIVISION**

**Our Ref : PUR-PROC/26/2021-PUR-NCESS**  
 (To be quoted in all correspondence)

**Dt. 16.02.2021**

Phone : ( 0471) 2511531  
 FAX: (0471) 2442280  
 E-mail: [purchase@ncess.gov.in](mailto:purchase@ncess.gov.in)  
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 website : [ncess.gov.in](http://ncess.gov.in)

**Sub: e-Procurement Tender**

Dear Sirs,

Please send your offer along with descriptive catalogue/ pamphlet for the following items not later than **09.03.2021 on 06.00 PM (Tender Opening at 11.00 A.M on 11.03.2021)**. The terms and conditions governing the tender are given at the bottom.

Sl. No	Specification	Qty. Reqd
1	<b>Insitu Simultaneous Environmental Multi-Parameter Sonde</b>  <i>Detailed Technical Specifications given as annex</i>	<b>1 No.</b>

**INSTRUCTIONS TO THE TENDERERS AND TERMS AND CONDITIONS**

- The quotation should be submitted by e-procurement in PDF format by 'logging on' in the website [eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app). The total file size of the documents submitted should not exceed 20 MB.
- In place of a Bid security, the bidders must sign a Bid securing declaration along with the bid saying that "We accept that if we withdraw or modify our Bids during the period of validity, or if we are awarded the contract and we fail to sign the contract, or to submit a performance security before the deadline defined in the request for bids document, we will be suspended for the period of time decided by NCESS from being eligible to submit bids for contracts with NCESS". The bids without this declaration or Udyog Aadhar Memorandum /NSIC will be rejected.**
- The material should be delivered at NCESS or installed at the specified location and so the quotation should include all the charges for the delivery at NCESS/installation.
- The quoted amount is inclusive of tax. We are eligible for tax at concessional rate through DSIR registration and its certificates will be provided in our formats.
- In INR orders, the Customs Duty Exemption Certificate will be given to the supplier upon request. But the entire responsibility of customs clearance and delivery at NCESS will rest with the supplier. High sea sale is not accepted and should not be quoted.**
- The bid should contain the Bid securing declaration, Authorization from manufacturer, Details of Service Centre, Technical details with make, model and specification of each component, Technical Compliance statement, List of Customers, Brochures etc., wherever applicable.**
- The offer should be valid for 120 days from the due date of opening of tender.**
- The Purchaser reserves right to accept any tender in part or full without assigning any reasons. The enquiry is not a commitment and the purchaser reserves the right to reject or cancel any or all offers.
- Catalogue/Brochure/Manual should be submitted along with the offer wherever necessary.
- Warranty / Guarantee Clause needs to be mentioned necessarily wherever applicable. The warranty should start from the date of installation.
- The purchase will be made on credit basis and the payment will be made after supply and acceptance, by bank transfer.**

12. In the event of placement of order, supplier / Indian agent shall provide a Performance Bank guarantee for 10% of the order value valid for warranty period + 60 days before the payment.
13. Any further changes in the details, like the date of opening or specification, will be posted on our web site only.

Yours faithfully,

Sd/-

Deputy Manager (Purchase)

**Annex:**  
**Detailed Technical Specifications**

**Insitu Simultaneous Environmental Multi-parameter Sonde**

➤ **Conductivity**

Range: 0 -100 mS/cm

Resolution: 0.001 units

Accuracy:  $\pm$  (0.5% of reading + 0.001 mS/cm)

➤ **Dissolved Oxygen**

Range: 0 – 50.00 mg/L

Resolution: 0.01mg/L

Accuracy:  $\pm$  0.2 mg/L

➤ **Temperature**

Range: -5°C – +50°C

Resolution: 0.01° C

Accuracy:  $\pm$  0.1° C

➤ **ORP**

Range: -999 to 999 mV

Resolution: 1 mV

Accuracy:  $\pm$  20 mV

➤ **Ion Selective Electrode for Ammonia**

Range: 0 – 100 mg/L-N

Resolution: 0.01mg/L

Accuracy:  $\pm$  2 mg/ L-N

➤ **Ion Selective Electrode for Nitrate**

Range: 0 – 100 mg/L-N

Resolution: 0.01mg/L-N

Accuracy:  $\pm$  2 mg/ L-N

➤ **Ion Selective Electrode for Chloride**

Range: 0.5 to 18000 mg/L

Resolution: 0.0001 mg/L

Accuracy:  $\pm$  2 mg/L

➤ **Salinity**

Range : 0 to 70 ppt

Resolution: 0.01 ppt

Accuracy:  $\pm$  0.2 ppt

➤ **pH**

Range : 0 to 14 pH units

Resolution: : 0.01 pH unit

Accuracy:  $\pm 0.2$  pH units

➤ **Turbidity**

Range: 0 to 3000 NTU

Resolution: 0.1 NTU

Accuracy:  $\pm 1\%$  up to 100 NTU

➤ **Depth**

Range: 0 to 25 m

Resolution: 0.01m

Accuracy:  $\pm 0.05$  m

➤ **Chlorophyll a**

Range: 0.03 to 500 ppb

Resolution: 0.01 ppb

Accuracy:  $\pm 3\%$  for signal level equivalents of 1 ppb Rhodamine WT dye

➤ **Blue green algae**

Range: 150 to 20,000,00 cells/mL

Resolution: 1 cell/mL

Accuracy:  $\pm 3\%$  for signal level equivalents of 1 ppb Rhodamine WT dye

➤ **Total dissolved gas**

Range: 500 to 1200 mm Hg

Resolution: 1.5 mmHg

Accuracy:  $\pm 1.5$  mm Hg

➤ **Rhodamine WT**

Range: 0.05 to 1000 ppb

Resolution: 0.01 ppb

Accuracy:  $\pm 3\%$  for signal level equivalents of 1 ppb Rhodamine WT dye

➤ Memory: Up to 120,000 measurements

➤ Communication Interface: RS-232, SDI-12, RS-485

➤ Data Display: Tab

➤ Operating temperature:  $-5^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$

➤ Warranty: 2 years

**1. Technical Compliance Statement.**

<b>Required Specification</b>	<b>Specification Offered with make and model</b>	<b>Whether complied</b>
<p><b>1 Insitu Simultaneous Environmental Multi-parameter Sonde 1 No.</b></p> <p>➤ <b>Conductivity</b>  Range: 0 -100 mS/cm  Resolution: 0.001 units  Accuracy: ± (0.5% of reading + 0.001 mS/cm)</p> <p>➤ <b>Dissolved Oxygen</b>  Range: 0 – 50.00 mg/L  Resolution: 0.01mg/L  Accuracy: ± 0.2 mg/L</p> <p>➤ <b>Temperature</b>  Range: -5°C – +50°C  Resolution: 0.01° C  Accuracy: ± 0.1° C</p> <p>➤ <b>ORP</b>  Range: -999 to 999 mV  Resolution: 1 mV  Accuracy: ± 20 mV</p> <p>➤ <b>Ion Selective Electrode for Ammonia</b>  Range: 0 – 100 mg/L-N  Resolution: 0.01mg/L  Accuracy: ± 2 mg/ L-N</p> <p>➤ <b>Ion Selective Electrode for Nitrate</b>  Range: 0 – 100 mg/L-N  Resolution: 0.01mg/L-N  Accuracy: ± 2 mg/ L-N</p> <p>➤ <b>Ion Selective Electrode for Chloride</b>  Range: 0.5 to 18000 mg/L  Resolution: 0.0001 mg/L  Accuracy: ± 2 mg/L</p>		

➤ **Salinity**

Range : 0 to 70 ppt

Resolution: 0.01 ppt

Accuracy: ± 0.2 ppt

➤ **pH**

Range : 0 to 14 pH units

Resolution: : 0.01 pH unit

Accuracy: ± 0.2 pH units

➤ **Turbidity**

Range: 0 to 3000 NTU

Resolution: 0.1 NTU

Accuracy: ± 1% up to 100 NTU

➤ **Depth**

Range: 0 to 25 m

Resolution: 0.01m

Accuracy: ± 0.05 m

➤ **Chlorophyll a**

Range: 0.03 to 500 ppb

Resolution: 0.01 ppb

Accuracy: ± 3 % for signal level equivalents of 1 ppb Rhodamine WT dye

➤ **Blue green algae**

Range: 150 to 20,000,00 cells/mL

Resolution: 1 cell/mL

Accuracy: ± 3 % for signal level equivalents of 1 ppb Rhodamine WT dye

➤ **Total dissolved gas**

Range: 500 to 1200 mm Hg

Resolution: 1.5 mmHg

Accuracy: ± 1.5 mm Hg

➤ **Rhodamine WT**

Range: 0.05 to 1000 ppb

Resolution: 0.01 ppb

Accuracy: ± 3 % for signal level equivalents of 1 ppb Rhodamine WT dye

➤ Memory: Up to 120,000 measurements

<ul style="list-style-type: none"><li>➤ Communication Interface: RS-232, SDI-12, RS-485</li><li>➤ Data Display: Tab</li><li>➤ Operating temperature: -5°C to +50°C</li><li>➤ Warranty: 2 years</li></ul>		
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