



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/357/2017-PUR-NCESS
 (To be quoted in all correspondence)

Dt. 19.12.2017

Phone : (0471) 2511531
 FAX: (0471)2442280
 E-mail: cesspurchase@gmail.com
 purchase.ncess@nic.in
 website : www.cess.res.in

Sub: e-Procurement Tender

Dear Sirs,

Please send your offer along with descriptive catalogue/ pamphlet for the following items not later than **17.01.2018 at 06.00 PM (Tender Opening at 11.00 A.M on 19.01.2018)**. The terms and conditions governing the tender are given at the bottom.

<i>Sl. No</i>	<i>DESCRIPTION</i>	<i>QUANTITY REQUIRED</i>
1	Automatic Rain gauge for heavy rainfall measurements	4 Nos.

Note: *Specifications are attached*

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. The total file size of the documents submitted should not exceed 25 MB.**
- An EMD of Rs. 7000/- may be submitted by way of bank remittance remitting the amount to our bank account. (Account no: 57059896404; Account Name: National Centre for Earth Science Studies (NCESS); IFSC Code: SBIN0070581; MICR Code: 695009036; Bank: State Bank of India, Akkulam, Trivandrum). The remittance should reflect in our accounts on or before the date of submission. The late remittance will not be valid. Exemption from EMD will be allowed for organizations registered with Central Purchase Organization, National Small Industries Corporation (NSIC) or MoES, Govt. Of India, if the claim is supported by relevant documents. The firms claiming EMD exemption on account of being small scale should attach NSIC certificate (not acknowledgment). **The bank details for the refund of EMD should be furnished along the bid**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.**
- It should be clear whether the quoted amount is inclusive of tax or not. If the tax is extra, the current tax rates should be specifically mentioned. We are eligible for Excise Duty Exemption 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 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.**
- All foreign bank charges will be to the account of beneficiary.**
- The purchase will be made on credit basis and the payment will be made after supply and acceptance, by bank transfer.**
- In the case of imports, both FCA and CIF/CIP Trivandrum airport prices may be quoted. 90% payment will be made against proof of dispatch documents by LC or wire transfer and balance 10% will be released against acceptance of goods and the receipt of bank guarantee.**

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.
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)

SPECIFICATIONS

1. Measurement: Rainfall rate at surface.

Data logger:

2. Data logger should support communications with PC/laptop
3. RS-232, RS 485 and USB options in data logger to connect the computer.
4. Data logger should display power status.
5. Data values should be stored with time stamp and record details in ASCII/common formats
6. Data storage: Built-in storage facility/ flash memory
7. Internal battery is required: Time should be maintained while the data logger is disconnected from the main power source.
8. Additional input channels are necessary to augment more weather sensors in future.
9. Each channel should have 18-bit ADC resolution or more
10. Surge and ESD protection essential

Rain Gauge:

11. Sensor type: Tipping bucket
12. Essential: Siphon design
13. Contact system: Dual reed switch is preferable
14. With Drain tube
15. Measurement resolution: 0.2 mm per tip or better.
16. Measurement range: 0 to 700mm/hour or better.
17. Funnel collector diameter: approximately 20 cm or better.
18. Accuracy: $\pm 2\%$ at rainfall rates less than 250 mm/hr or better.
19. Calibration certificate for rain gauge.
20. Sampling rate: 1 per second or better.
21. Data output: 1 per second/user defined.
22. Bulls eye bubble level option.
23. Mounting option: Tripod pole/pipe
24. Operating humidity: 10 to 100 % RH or better.
25. Operating temperature range: -15o C to 45o C or better.
26. Instrument operating elevation: Mean sea level to 2000m or better.
27. Power supply: 10 - 28V DC
28. Complete solar power supply unit (Need solar power support for additional sensor augmentation)
29. Solar panel, regulator and compatible data logger are essential.
30. SMF battery with suitable AH and weather proof battery enclosure. Option to upgrade battery backup.
31. Onsite installation support in Kerala, onsite training and demonstration for instrument operation.
32. Minimum length of power and data cable: 20m or better.
33. Essential cables/tools/software for complete installation, communication to PC, data visualization and regular operations are required.
34. One-year warranty and extended warranty for next two years'/AMC option after the warranty period.
35. Manual should be provided.
36. Technical demonstration is required at NCESS.

**Technical Compliance Statement of Automatic Rain gauge for heavy rainfall measurements
(Must be filled in and attached with the bid)**

Sl. No.	Required Specification	Specification Offered	Whether compiled
	<p>Automatic Rain gauge for heavy rainfall measurements 4 Nos.</p> <p>1. Measurement: Rainfall rate at surface.</p> <p>Data logger:</p> <p>2. Data logger should support communications with PC/laptop</p> <p>3. RS-232, RS 485 and USB options in data logger to connect the computer.</p> <p>4. Data logger should display power status.</p> <p>5. Data values should be stored with time stamp and record details in ASCII/common formats</p> <p>6. Data storage: Built-in storage facility/ flash memory</p> <p>7. Internal battery is required: Time should be maintained while the data logger is disconnected from the main power source.</p> <p>8. Additional input channels are necessary to augment more weather sensors in future.</p> <p>9. Each channel should have 18-bit ADC resolution or more</p> <p>10. Surge and ESD protection essential</p> <p>Rain Gauge:</p> <p>11. Sensor type: Tipping bucket</p> <p>12. Essential: Siphon design</p> <p>13. Contact system: Dual reed switch is preferable</p> <p>14. With Drain tube</p> <p>15. Measurement resolution: 0.2 mm per tip or better.</p> <p>16. Measurement range: 0 to 700mm/hour or better.</p> <p>17. Funnel collector diameter: approximately 20 cm or better.</p> <p>18. Accuracy: $\pm 2\%$ at rainfall rates less than 250 mm/hr or better.</p> <p>19. Calibration certificate for rain gauge.</p> <p>20. Sampling rate: 1 per second or better.</p> <p>21. Data output: 1 per second/user defined.</p> <p>22. Bulls eye bubble level option.</p> <p>23. Mounting option: Tripod pole/pipe</p> <p>24. Operating humidity: 10 to 100 % RH or better.</p> <p>25. Operating temperature range: -15o C to 45o C or better.</p> <p>26. Instrument operating elevation: Mean sea level to 2000m or better.</p> <p>27. Power supply: 10 - 28V DC</p> <p>28. Complete solar power supply unit (Need solar power support for additional sensor augmentation)</p> <p>29. Solar panel, regulator and compatible data logger are essential.</p> <p>30. SMF battery with suitable AH and weather proof battery enclosure. Option to upgrade battery backup.</p> <p>31. Onsite installation support in Kerala, onsite training and demonstration for instrument operation.</p> <p>32. Minimum length of power and data cable: 20m or better.</p> <p>33. Essential cables/tools/software for complete installation, communication to PC, data visualization and regular operations are required.</p> <p>34. One-year warranty and extended warranty for next two years'/AMC option after the warranty period.</p> <p>35. Manual should be provided.</p> <p>36. Technical demonstration is required at NCESS.</p>		