

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
INDIAN INSTITUTE OF REMOTE SENSING
IIRS
DEHRADUN
PURCHASE & STORES
INVITATION TO TENDER**

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Date : 12/06/2018

M/s

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Our Ref No : GIER 2018-000045-01

Tender Due: 14:00 Hrs ISTon 13/07/2018

Opening : 15:30 Hrs ISTon 13/07/2018

Dear Sirs,

Please submit your sealed quotation , in the Tender Form enclosed here along with the descriptive catalogues / pamphlets / literature ,superscribed with Our Ref.No. and Due Date for the supply of the following items as per the terms & conditions mentioned in Annexure(Form No:)

S.No.	Description of Items with Specifications	Unit	Quantity
1	Precipitation Disdrometer or Laser Precipitation monitor to measure intensity of different type of precipitation (rainfall, snow fall, hail, drizzel etc) in NWH 1) Heating type system with data transmission via GSM based telemetry	Set	2
	b) Non- Heating type system data transmission via WiFi/LAN/GSM based telemetry. Detailed Technical specifications as per Annexure.	Set	1

DELIVERY AT: IIRS, DEHRADUN

MODE OF DESPATCH ON SITE

DUTY EXEMPTIONS

SPECIAL INSTRUCTIONS TWO PART

SPECIFIC TERMS

ASHA CHANDRAN L
PURS. & STORES OFFICER
For and on behalf of the President of India
The Purchaser

SPECIAL TERMS AND CONDITIONS FOR SUBMITTING TWO PART BID

1. This is a two part tender viz., Techno-Commercial Bid (consisting of Technical Specifications, Commercial terms & condition etc.) and Price Bid. Hence, quotation should be submitted in separate sealed covers super-scribing "**Tender No. GIER 2018000045-01, Due on 13/07/2018 at 14.00 Hrs (Techno-Commercial Bid)**" and "**Tender No. GIER 2018000045-01, Due on 13/07/2018 at 14:00 Hrs (Price Bid)**"
2. Both the sealed tenders (Techno commercial & Price bid) should be kept in one big cover super scribing **Tender for Laser Precipitation Monitor** against Enquiry No **GIER 2018000045-01, Due on 13/07/2018 at 14:00 Hrs** and put in the Tender Box available in Purchase Division, IIRS or send by post or Courier within the due date and time prescribed.
3. The Techno-Commercial Bid should clearly indicate the technical details, scope of supply, payment terms, delivery terms, delivery period, taxes and duties, warranty, guarantee, security deposit, performance bank guarantee, etc. under separate heads. Please note that the **price should NOT be indicated** in the Techno-Commercial Bid
4. Tender forms can be purchased from Purchase & Store Section IIRS, Dehradun on all working days on payment of ₹ 573/- in the form of DD drawn in favor of Pay & Accounts Officer, IIRS Dehradun payable at Dehradun or can be downloaded from www.iirs.gov.in. When tender forms are downloaded, DD for ₹573/- drawn in favor of Pay & Accounts Officer, IIRS payable at Dehradun shall be attached with Technical Bid.
5. Only Techno-Commercial bid will be opened on the date of tender opening. The price Bids of those tenderers whose Techno-Commercial Bids are found to be meeting our specifications/ requirements will be opened. The bidders are allowed to attend the tender opening on the date and time of opening.
6. Late and Delayed Tenders will not be considered. Therefore, please ensure that your tender is posted well in time to reach us before the due date and time.
7. Fax/Email offers shall not be considered.
8. All the pages of your offer should be signed/initialed by competent authority and affixed with your company's Seal..
9. **EMD of ₹ 50,000/-** to be submitted along with the Technical Bid in the form of Crossed Demand Draft drawn on any Nationalized / scheduled bank in favor of Pay & Accounts Officer, IIRS, payable at Dehradun. Quotation received without EMD will not be considered. The EMD of unsuccessful bidder will be returned after finalization of order.


[Purchase & Stores Officer]

Specific terms and conditions to the tender

1. Please submit the Technical Details / Catalogue / Make/ Model/Data Sheets.
2. The offer should be valid for a period of 90 days from the date of opening of Tender.
3. **Please send the quotations ONLY in 'SEALED COVER' indicating our tender enquiry No. and due date by speed post so as to reach us on or before the due date & time. IIRS will not be responsible for any postal delays.**
4. **E- mail/ fax quotations 'WILL NOT BE ACCEPTED'.**
5. Please quote the percentage of GST applicable.
6. Our standard delivery term is FOR, IIRS. In case any vendor offers delivery term of Ex-works, Packing and Forwarding charges if any should be indicated separately either as a percentage of the quoted rate or as a Lump sum amount.
7. We are exempted from the payment of Customs Duty and necessary exemption certificate shall be issued upon request.
8. **Payment Term:** Payment will be made within 30 days from the date of receipt and acceptance of the item at our site for order value up to 2.00Lakhs. For order value above 2.0 Lakh, 90% payment will be made within 30 days and 10% against submission of Performance Bank Guarantee for the warranty period (wherever warranty is applicable). The Performance Bank Guarantee should be valid for a period of 2 months beyond the completion of the warranty period.
9. For foreign orders our Standard Payment Term is Sight Draft.
10. **Liquidated Damages** – The delivery period quoted should be realistic. The delivery period so quoted and mentioned in the order is the essence of the order/contract. In case of delay in delivery of material as per the delivery schedule, Liquidated Damage @ 0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value shall be levied. Wherever, installation and commissioning is also involved, the supply will be deemed to have been completed only when the entire Stores is supplied, installed and accepted.
11. **Security Deposit:** - Wherever the offer value is Rs. 5.00 Lakhs or above, the successful tenderer should submit Security Deposit @ 10% of the order value by way of Bank Guarantee / FD Receipt. The Bank Guarantee shall be obtained from any Scheduled Bank on Rs.200/- Non Judicial Stamp Paper and should be valid beyond 2 months from the completion of all contractual obligations.
12. In order to avail of the benefits extended to by Govt. of India to the Micro and Small Sectors, please submit attested copy of the valid Entrepreneur Memorandum Part-II signed by the General Manager, District Industries Centre / Udyog Adhar / NSIC Registration Certification along with your offer.
13. If any bidder submits forged / false document along with the tender, offer of such vendors will be summarily rejected and such bidders will be blacklisted for all future tenders.


Purchase & Stores Officer

Technical data for rainfall distrometer/Laser precipitation monitor

S.No.	SPECIFICATIONS OF LASER PRECIPITATION MONITOR QTY 3 Nos. WITH HEATING 2 NOS AND WITHOUT HEATING 1 NO.	
1.	The precipitation disdrometer or laser precipitation monitor is usable to classify and measure different kinds of precipitation like drizzle, rain, hail, snow and mixtures of that precipitation.	
2.	Measuring principle	Optical measuring sensor laser-wavelength in range of 700-800 nm, photodiode 700 to 800 nm
3.	Disdrometer Classification	440 classes (22 diameter *20 speed)
4.	Measuring area	40 to 50 cm ² (e.g., 23.0 x 2.0 cm)
5.	Particle size:	0.16 mm to >8 mm
6.	Particle velocity:	0.2 to 20 m/s
7.	Intensities	Minimum 0.005 mm/h. And Maximum 250 mm/h
8.	Output intensity resolution	0.001 mm/h
9.	Type of Precipitation	Drizzle, rain, hail, snow, Snow grains, mixed precipitation
10.	Provision to connect with other sensor is must with the without heating system. Optional Inputs required	Wind speed, Wind direction, Temperature, Rel. Humidity. OPTIONAL Provision to attach other sensors PT100 (temperature), 0-1 V (rel. humidity), 0-1000 Hz (wind velocity)
11.	Radar reflectivity	Z = -9.9 ... 99.9 dBZ
12.	Test Report	Clearly showing amount of measurement in X position , Y position in mm and volume in (ml)
13.	Interface	RS485. 1200 ... 115200 Bd. All data are transmitted via a galvanic isolated
14.	Interface convertor for data logging system	Must be able to interface through USB, good quality convertor should be supplied Must accept telegram command from data logging system to work on Half duplex as well as full duplex mode for testing , configuring LPM
15.	Data transport	DATA TRANSPORT EITHER VIA WIFI or LAN OR MODEM FROM SITE TO MONITORING TERMINAL
16.	Ambient temperature and Humidity	-40...+ 70°C, 0....100%rel. h
17.	Maintenance	Automatic soil/dust recognition for cleaning the optics
18.	Protection	IP 65
19.	EMC protected	EN61326 with EN61000-4-3, EN61326 class B
20.	Housing	Aluminium die-cast, stainless steel
21.	Weight	Less than 5 kg
22.	Mast for holding the LPM	3 meter mast aluminium / galvanised
23.	Tools	One set of necessary tools to fix all components of the Integrated system
24.	Warranty	1 year standard
25.	Power supply	24 V DC Power supply with heating to the LPM, datalogger via solar panel and rechargeable batteries
26.	<p>Software:- For communication Graphic Presentation and analysis</p> <p>The software displays the measuring data of a laser precipitation monitor which is connected at a local serial pc-interface or at any PC in the network or virtual PC.</p> <p>The visualisation to be carried out in graphic form in different windows. For example type of Precipitation, precipitation quantity, radar reflectivity, intensity etc.</p> <p>Display the data optionally from external sensors such as wind speed, wind direction, temperature humidity in software in case ordered as options etc.</p> <p>Data logging system must have licensed operating system software and data processing program for easy data export to Microsoft excel.</p>	
27.	Vendor should be capable of sale, service and support for the item for minimum of 8 years.	
28.	Vendor must be ISO certified	
29.	Back up unit: Vendor must have back up unit in case of failure	