

DAYALBAGH EDUCATIONAL INSTITUTE
DAYALBAGH, AGRA-282005
Short Notice Inviting Tenders

Short term Limited tender No: DEI/Engg./Mech./AY/2020-21/TDR-17

Date: 15-02-2021

Sealed tenders are invited from the Manufacturers/Suppliers/Authorized dealers/ Agencies for the supply of the following: -

S. No.	Items	Specifications	Quantity
1.	Automatic Weather station with 10 Parameters	As per Annexure-I	01

The tenderer shall be required to submit the **Earnest Money Deposit (EMD)** for an amount of **Rs. 6,000/-** (Six Thousand Only) by way of demand drafts/banker's cheque/FDRs (refundable) and a non-refundable **Tender Fee** for an amount of **Rs. 200/- (Rupees Two Hundred only)** by NEFT/RTGS. The demand drafts (validity 45 days beyond final bid) for earnest money deposit & UTR number of tender fee remitted through NEFT/RTGS must be enclosed in the envelope containing the bid documents, super-scribed with tender number, due date of submission on the envelop and addressed to :

**“The Registrar
Dayalbagh Educational Institute,
Dayalbagh, Agra – 282005, Uttar Pradesh”**

Note: Central Purchase Organization, Small Scale Industries/National Small-scale Industries Corporation (NSIC) shall be exempted from payment of EMD. Tenderer seeking exemption should enclose a self-attested photocopy of valid registration certificate with NSIC.

(The Earnest Money will be liable to be forfeited if quotation is not honored or if contact is not signed with the Institute, after the award is made to the Tenderer)

1. Time and last date of submission of the Bid: 11.00 am on 27.02.2021
2. Time of Bid Opening: 11.30 am on 27.02.2021
3. Venue of Bid Opening: Committee Room, CAO, Dayalbagh Educational Institute.

Interested bidders may post (at the above address) or put the tender documents completed in all respect and other requisite documents in the tender box kept in the General Section, CAO, Dayalbagh Educational Institute, Dayalbagh, Agra- 282005. The bidders are also informed that they may come personally or send their representative to be present at the time of opening of bid. Interested bidders who want to come personally or send their representative should bring a medical fitness certificate from Saran Ashram Hospital Dayalbagh. Without certificate nobody will allow to join opening tender meeting. Please note that tender box shall be opened at the time mentioned above irrespective of whether bidders himself or any of their representative are present or not. The tenders shall not be entertained after this deadline under any circumstances whatsoever. For more details please visit the Institute's website <http://www.dei.ac.in>. or contact Dr. Ashok Yadav-7017595174.

**Registrar
Dayalbagh Educational Institute**

General Terms & Conditions

Note: Bidders must submit the following primary information/documents with the quotation. Bidders will have to indicate these particulars in their quote failing which the offer may be rejected. Please do produce the related documents whenever required by the Institute.

1. Trade License/Company Registration No.
2. Goods / Service Tax Regn. No.
3. Income Tax PAN No.
4. Firm's Bank A/c details
5. Bidders are requested to quote rate(s) per unit(s) only in the recognized Accounting units otherwise your quotation will not be accepted.
6. Cost of items shall include installation, support and troubleshooting.
7. Warranty and Support: for Hardware and Software should be explicitly mentioned. Performance Security is required to be submitted by the successful bidder between 5-10% of the value of the order or contract in the form of FDR/Bank Guarantee or authorize the Institute to deduct aforesaid amount from the bills as performance security.
8. Bidders should be OEM/Authorized partner/Authorized dealer of OEM.
9. Bidders should quote rates as per details/specifications mentioned in notice inviting Tender. The Institute reserves the right to place order for each job to single/separate vendor(s) if necessary.
10. Bidders should quote rates on FOR/Free Delivery at the sites specified in the Notice inviting Tender, inclusive of all charges else should mention estimated cost of packing, forwarding, insurance and freight by Rail/Road/Post etc. as the case may be.
11. Bidders must indicate if their rate is inclusive of Taxes and duties, if any.
12. In case opening date of Tender happens to be holiday, tender will be received and opened on the next working day at the same time and same place. Quotation received after the closing date will not be entertained and revision in the price will render the bid invalid. Quotation should indicate clearly the period of Validity, preferably not less than 45 days.
13. In case of an offer for items having multiple options, you should clearly indicate item-specific price(s). Please quote separate item-wise rate(s), when quotation has been asked for so. For every offer, packing and forwarding charges, Taxes etc. should be shown separately.
14. Bids will be evaluated after equated comparison of offers upon calculating all tax/duty/cess/surcharge/discount/packing/transportation costs, other charges with price and non-compliance of technical and commercial terms will render a bid liable for rejection.
15. Bidders will have to submit Bills/Invoices on dispatch of stores, if ordered, to this office in triplicate duly pre-receipted (and stamped for amount over Rs. 5000/-) and supported by the relevant delivery documents for audit and payment directly in your bank account through RTGS/NEFT. Generally, payments can be expected within one month and are made against acceptance of supplies/ jobs completed and in deserving cases, against shipment documents.
16. No insurance charges are allowed unless otherwise specified and agreed to by us. In the absence of any specific instructions, it will be the responsibility of the supplier to ensure a consignment against transit risk at his own expense if he so desires.
17. The Institute is not bound to accept the lowest rate or any other offer and the acceptance of the offer is entirely at the discretion of the Committee.
18. All purchases are subject to the approval of the Governing Body of the Institute.
19. The Institute reserves the right to select certain items in single or multiple units and reject the others or all as mentioned in the schedule and to revise or alter the specifications before acceptance of any

tender and accept or reject any or all tenders, wholly or partly or close the tender without assigning any reason whatsoever.

20. The Bidder shall be required to submit the amount of Rs. 6,000/- (Six Thousand Only) as **Earnest Money Deposit (EMD)** by way of demand drafts/banker's cheque/FDRs as mentioned in the Notice Inviting Tender which is refundable and a non-refundable **Tender Fee** for an amount of **Rs 200/-** (Rupees two hundred only) by way of NEFT/RTGS in Savings Bank Account No.000300009201 in the name of DAYALBAGH EDUCATIONAL INSTITUTE at Radhasoami Urban Cooperative Bank Ltd. at Dayalbagh, IFSC Code- IBKL0080RUC should not be dated prior to the date of advertisement. The demand drafts shall be drawn in favour of **“Dayalbagh Educational Institute, Agra”** payable at **Agra**. The bidders may seal technical and financial bids separately and put these two sealed envelopes in a bigger envelop, super-scribed with tender number and due date of submission on it. **Bids are invited under Single bid system (Single Stage bidding Two Envelop System).**
21. The demand drafts (validity 45 days beyond final bid) & UTR number of tender fee remitted through NEFT/RTGS must be enclosed in the envelope containing the Technical bid.
 - a.) The firm(s) that are registered with the National Small Industries Corporation (NSIC) / or Small-Scale Industries (SSI) are exempted from furnishing the EMD. Self-attested photocopy of the valid registration certificate must be enclosed with their bid.
 - b.) The demand drafts for EMD & UTR number of tender fee remitted through NEFT/RTGS must be enclosed in the envelope containing the technical/price bid and super-scribed with tender number and due date of submission on it. Any technical/price bid is found without the demand drafts of EMD and tender fee will be rejected. The Institute will not be liable to pay any interest on such an amount. The EMD shall be forfeited, if the Bidder withdraws its bid during the period of validity of Tender.
22. Arbitration and Laws: In case of any dispute or difference arising out of or in connection with the tender conditions / order and Contract, the Institute and the Supplier will address the dispute / difference for a mutual resolution and failing which, the matter shall be referred for arbitration to a sole Arbitrator to be appointed by the Institute. The Arbitration shall be held in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the venue of arbitration shall be at Agra only. The resolution of the Arbitrator shall be final and binding on both the parties.
23. Jurisdiction: The courts at Agra alone will have the jurisdiction to try any matter, dispute or reference between parties arising out of this tender /contract. It is specifically agreed that no court outside and other than Agra court shall have jurisdiction in the matter.
24. **Customs Duty & Excise Duty:** Please note that the Dayalbagh Educational Institute, Agra, Uttar Pradesh other than Hospital is registered with the DSIR for purpose of availing Customs Duty Exemptions in terms of Notification No.51/96-CUSTOMS dated 23.7.1996, Notfn. No.47/2017-Integrated Tax (Rate) dated 14-11-2017 and Notfn. No.45/2017-Central Tax (Rate) dated 14-11-2017, Notfn. No.45/2017-Union Territory Tax (Rate) dated 14-11-2017 & Notfn. No.9/2018- Central Tax (Rate) dated 25-01-2018, Notfn. No.9/2018- Union Territory Tax (Rate) dated 25-01-2018 as amended from time to time, for research purpose only, the bidders are, however, requested to quote accordingly for relevant supplies.

Registrar, DEI

Annexure1
TECHNICAL SPECIFICATIONS OF AUTOMATIC WEATHER STATION

Please submit technical compliance sheet for each point of specifications along-with the technical bid.

WEATHER STATION:			
A fully integrated portable instrument is desired for the purpose of weather parameter monitoring. The complete system must be compact in structure. It must be sturdy and possess long term durability. The system shall have easy installation procedure and shall have following weather sensor elements-			
Wind speed& Direction sensor:			
<ul style="list-style-type: none"> • Elliptical cup shape and two arm reinforced rotor cups for good snow and hail resistance. • Sensor body and wind vane design should be anodized-aluminum. • Protection against Reverse Polarity, Lightning & surge protection per IEC standards for both data & power lines, Surge, EFT/Burst, ESD. Necessary certificate shall be supplied along with the bid. • Power requirement & consumption: 5-15 VDC & 20µA • Specifications for measuring parameters are as follows- 			
Parameter	Wind Speed	Wind Direction	
Employed sensor type	Cup Anemometer	Wind Vane	
Measuring Range	0 ...85 m/s	0 ...360°	
Resolution	0.1 m/s	1°	
Accuracy	≤ ± 2% of measuring value	± 2° (with no dead band)	
Starting Threshold	<0.5m/s	<0.5m/s	
Sampling time	2 pulses per revolution	10 Hz	
Operating temperature& humidity	-40° to 80°C& 0...100% RH		-40° to 80°C& 0...100% RH
Atmospheric Temperature, Humidity, Dew Point& Pressure Sensor:			
<ul style="list-style-type: none"> • Sensors are fixed under the water-proof and anti-UV, naturally aspired double-helical protection shield. Shield should eliminate temperature errors more effectively from the sun, dirt, rain, snow, sand & dust. • Power requirement: 5-12 VDC & ≤ 0.8 mA consumption • Ingress protection: IP 66 • Protection against Reverse Polarity, Lightning & surge protection per IEC standards on both data & power lines, Surge, ESD. Necessary certificate shall be supplied along with the bid. • Mounting arrangement and sufficient cable length must be included with the sensor. • Specifications for parameters are as follows- 			
Parameter	Temperature& Dew point	Humidity	Pressure
Employed sensor type	Thermistor element	Capacitive element	Capacitive/ Piezoresistive
Measuring Range	-40...+105 °C	0...100% RH	300...1100 hPa
Resolution	≤ 0.1 °C	≤ 0.05 %	0.012 hPa
Accuracy	≤± 0.2 °C	≤± 1.8 RH %	≤± 1.5 hPa
Stability	< 0.02 °C per year	< 0.25% RH per year	-1 hPa per year
Rainfall Sensor:			
<ul style="list-style-type: none"> • Sensor mechanism shall be standardized orifice funnel having long-term response as its counter weight is not effected by water, dirt and dust accumulation. • Electronics protection against salt spray, water, frost and heat by a weather-resistant coating. • Mounting arrangement and sufficient cable length must be included with the sensor. 			
Principle	Standardized orifice funnel based		
Resolution	0.2 mm		
Accuracy	±0.2 mm or 1% of reading		
Orifice area	200 cm ²		
Stability	<0.1 mmper year		

Solar Radiation Sensor:

- As per ISO 9060:2018 Class C,
- Calibration compliant to the international standards defined by ISO/IEC17025/9847. The sensor should have 2 years re-calibration validity and necessary sample certificate shall be provided with the bid.
- Levelling plate and sufficient cable length must be included with the sensor.

Detector	Silicon Photo diode
Measuring Range	0...2000 W/m ²
Spectral Range	400...1100 nm
Non Linearity at 1000 W/m ²	≤ ±0.2%
Response Time	≤ 1 mili-sec
Change/year	≤ ±2% per year
Temperature error effect	≤ ±0.15 % /°C
Directional response at 1000W/m ²	< 10 W/m ²

Soil Temperature

Parameter	Desired Specifications
Supply voltage	12 V DC
Range	-20 to +60 deg C
Output	4-20mA
Accuracy	≤ 0.5 deg C
Cable length	10 m
Battery Voltage	Battery voltage parameter to be monitored

Power Supply:

1. 12 V/40 W Solar Panel, Charger and 12V/26 Ah Battery. Power supply unit must give backup up to 7 days without charging.
2. Battery and solar charge controller shall be fixed inside the datalogger enclosure i.e. weather proof and with ingress protection level IP 66.

6. Data Logging Unit:

1. Data must be recorded by data logging status signal LED indicator on board.
2. Sensor input channels: 6 analog voltage/current, 6 frequency/pulse input channels, 1 no. RS-485 (MODBUS) communication channel.
3. Data logging unit must have peripheral and communication ports like RS-232 or LAN.
4. ON/OFF Button for the system is required with short circuit protection via fuse.
5. Provision of auto power saver mode for low power consumption to save energy.
6. Storage of max., min, average data for each channels.
7. Internal storage shall be capable of keeping data for 1 year or more at 10 min recording interval. Also provision of 8 GB external micro SD card memory as backup
8. Data download are desired locally using SD card and LAN cable
9. Datalogger should show the instantaneous data at web browser.
10. File downloaded must support MS excel and have header for each parameters.
11. Built-in GPRS Modem for remote connection is required.
12. Datalogger shall be fixed inside IP 66 and UV proof enclosure made of corrosion resistant material or coating.

Mounting Hardware (Mast):

1. Tripod of 2.5 m max. Height type made of SS 304 and Powder coated Aluminum.
2. All material for mast, clamps, sensor, nut & bolts and enclosure must be corrosion resistant and stainless steel grade 304.

General:

- All Cables and connector should be made of corrosion resistant material.

- Complete instrument will be installed. All Sensors, datalogger, cables and components shall be able to withstand and meet operating conditions of such climate (-20 to +60 deg C & 0-100% RH).
- Cables, datalogger enclosure must be UV proof and coated by UV-resistant material.
- UV proof cable conduit and ties must be provided in spare.
- Warranty for 1 year from the date of demonstration is desired.
- AMC charges comprehensive and Non-Comprehensive for next 5 years of warranty shall be quoted as option.

Warranty: 5 years on site

Scope of Supply

- All sensors with adequate cable from the sensor to data logger
- Power may be from 220 V AC and provision from Chargeable battery plus SPV panel.
- All communication leads / channels
- Sensor alarms wherever applicable
- Sensor quick fix mounting /sensor console as available
- Chargers/adapters/power supply modules
- Protection Box
- Separate Data logging system / online cloud data retrieval system
- Manuals with evaluation software license (if any)
- Installation and commissioning

Training for our concerned staff (2 persons)