

**DAYALBAGH EDUCATIONAL INSTITUTE
DAYALBAGH, AGRA-282005**

Short Notice Inviting tenders

Short Term Limited tender No: DEI/Engg/Electrical/GPR/2018-19/TDR-69 Date: 11-03-2019

Sealed tenders are invited from the Suppliers/Authorized dealers/OEM for the Supply and Installation of 19.2kWh Lithium-ion Battery Bank and integration with existing PCU of a 20kWp SPV plant:

Specification of Items		
S.No.	Item Description	Quantity
1	Supply and Installation of 19.2kWh Lithium-ion Battery Bank and integration with existing PCU of a 20kWp SPV plant	1

The tenderer shall be required to submit the Earnest Money Deposit (EMD) for an amount of **Rs. 48,000/-** by way of demand drafts/banker's cheque/FDRs which is refundable and a non-refundable tender fee for an amount of **Rs. 200/- (Rupees two hundred only)** by Cash or Demand draft. The demand drafts shall be drawn in favour of **“Registrar, Dayalbagh Educational Institute, Agra”** payable at Agra. The demand drafts (validity 45 days beyond final bid) for earnest money deposit & tender fee must be enclosed in the envelope containing the bid documents addressed to:

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

Note: Central Purchase Organization, Small Scale Industries/ National Small Scale Industries Corporation shall be exempted from payment of Earnest Money Deposit. Tenderers 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 contract is not signed with the Institute, after the award is made to the Tenderer)

1. Time and last date of submission of the Bid: 04.15 pm on 25.3.2019
2. Time of Bid Opening: 04.45 pm on 25.3.2019
3. Venue of Bid Opening: Conference Hall , CAO, Dayalbagh Educational Institute in the presence of bidders who want to be present at the time of opening of bid.

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. 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 what so ever. For more details please visit the Institute's website <http://www.dei.ac.in>. or contact Mr. G. P. Rana-9557461144(gauravpratap80@gmail.com).

**Registrar
Dayalbagh Educational Institute**

Supply and Installation of 19.2kWh Lithium-ion Battery Bank and integration with existing PCU of a 20kWp SPV plant

Contractor needs to supply and install 19.2kWh of Lithium-ion Battery Bank to a 20kWp SPV Power Plant with related accessories and ensure its interconnection with existing Solar PV Power Conditioning Unit.

- **Batteries:** Lithium-ion Battery modules with in-built Battery Management System (BMS) are required with a total installed battery capacity of 19.2kWh. Battery should be provided with cabinet and related accessories like cables etc. for its integration with PCS and proper functioning. Below are the key requirements for battery:
- Battery Type: Lithium-ion Battery of LFP chemistry.
- Cell Type: Prismatic.
- Installed Battery Capacity: 19.2kWh
- Battery Nominal DC Voltage: ~48V
- Round Trip Efficiency at DC terminals of battery: >93%
- Operating Depth of Charge: 80%
- With required accessories like cabinet, cables etc.
- **Warranty: 3000 cycles at 80% DoD or 5 years whichever is earlier.**
- Maximum Allowable Operating Temperature: 0°C to 50°C

Clearly specify the type and make of batteries quoted.

Warranty: 5 years

2. **Battery BMS Communication Interface:** Each battery module should have in-built Battery Management System with the below features:
 - RS485/Ethernet/CAN port on the battery to enable communication with external device.
 - Battery Parameter Monitoring and Logging:
 - Battery Pack Voltage,
 - Battery Pack Current,
 - Cell Voltage,
 - Cell Current,
 - State of Charge (SOC) and
 - State of Health.
 - Alarms and Warnings.
 - Data monitored by the battery BMS should be logged for at least 2 months in the BMS.
 - BMS should have the below protections:
 - Over-voltage protection
 - Under-voltage protection
 - Over-current protection
 - Low-voltage protection
 - High temperature protection etc.

3. Installation and Integration with Related Accessories:

Any required related accessories like Battery stands, DC cables, ACDB or DCDC etc. will have to be supplied and integrated by the supplier. The battery bank is to be integrated to an existing Power conditioning system of a 20kWp SPV power plant. The installer should ensure proper installation, integration and successful operation of the battery bank.

4. Battery Cabinet: Lithium-ion battery module should be mounted inside a battery cabinet with minimum IP55 protection rating suitable to be placed outdoor. There should be electrical protection inside the battery cabinet to isolate the battery bank from DC bus.

Kindly provide cost break-up for all the above items (with installation and maintenance charges indicated separately)

Kindly provide the detailed data sheets of the products quoted. Any product quoted without any support documents like data sheets etc. may not be considered for tender processing.

Technical Eligibility Criteria

a) The bidder should have done Solar PV and Lithium-ion Battery storage project of at least 10kWh in the last 3 years.

b) In case the bidder is a subsidiary company, it can meet the technical eligibility criteria using the technical capabilities of its Parent/Affiliate company.

• To establish Affiliate the below documents must be submitted:

Shareholding of both the bidding company and the affiliate company by the parent company should be shared.

Before submitting the quote if any party is interested in visiting the site for calculation of copper cable length etc., they may visit the site and contact Sh. G.P.Rana for any clarification, at 9557461144/gauravpratap80@gmail.com on any working day between 10.30 a.m. to 4.30 p.m.

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. The bid is to be submitted in TWO Bid Pattern i.e Technical Bid and Price Bid in **Two separate sealed covers/envelopes**.
6. Bidders are requested to quote rate(s) per unit(s) only in the recognized Accounting units otherwise your quotation will not be accepted.
7. Cost of items shall include installation, support and troubleshooting.
8. Warranty and Support: for Hardware and Software should be explicitly mentioned.
9. Bidders should be OEM/Authorized partner/Authorized dealer of OEM/ Contractors.
10. 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.
11. 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.
12. Bidders must indicate if their rate is inclusive of VAT/Sales Tax and /or Excise Duty.
13. 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.
14. 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, Sales/VAT/Service Tax 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 direct to you or to your bankers.

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. Institute reserves the authority to increase / decrease the quantity (50%) if deemed necessary.
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 Earnest Money Deposit (EMD) Rs. **48,000/-** 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 demand drafts/banker's cheque / FDRs. The demand drafts shall be drawn in favour of **“Registrar, Dayalbagh Educational Institute, Agra”** payable at Agra. The demand drafts (validity 45 days beyond final bid) for

earnest money deposit & tender fee must be enclosed in the envelope containing the 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 & tender fee must be enclosed in the envelope containing the technical bid. Any technical 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.
21. 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.
 22. 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.
 23. Excise Duty: The Institution is exempted from payment of Excise Duty under notification No.10/97 – Central Excise dt. 01.03.97 issued by Ministry of Science & Technology, Govt. of India. Hence, the offer shall be submitted accordingly incorporated the Integrated Tax(GST).
 24. Customs Duty: In case of Imported Items, please note that we are exempted from payment of Customs Duty in terms of Notification No.51/96-CUSTOMS dated 23.7.1996 as amended from time to time. Issued by Ministry of Science & Technology, Dept. of Scientific and Industrial Research, Government of India, we are eligible for concession of Custom duty.

Registrar, DEI

Annexure-I

Financial Bid Format

	Description	Specifications	Make/ Model	Unit	Qty	Quoted unit price in Rs.	Tax	Amount in Rs.
1	19.2 kWh Lithium-ion Battery bank	as per specs		pcs	1			
2	Networking and cabling	-do-		-do-	1			
3	Rack for batteries	-do-		-do-	1			
4	Installation and commissioning charges	---	-----	--	---			
Total Amount								

Annexure-II CHECK LIST

1. EMD of Rs. **48,000.00 (Forty-eight Thousand)** only by way of DD No..... dated in favour of “**Registrar, Dayalbagh Educational Institute, Agra**” payable

at Agra.

2. DD No..... dated.....for Rs.200.00 (Two hundred) only in favour of “**Registrar, Dayalbagh Educational Institute, Agra**” payable at Agra towards cost of Tender Fee.
3. Details of firm, equipment, software, registration with tax authorities–Income Tax/Service Tax etc.
4. PO and Satisfactory report of qualifying projects (Minimum one) handled by bidders in last 3 years giving date of start, date of completion, cost of project and delay if any attributable to bidder. (Staple all to make one doc).
5. Documents explaining Bidder’s approach particularly to this project.
6. Declaration from the OEM that none of the quoted product will go End of Sale or End of Support for a period of at least five years.
7. Declaration by Agency that they shall be supplying genuine OEM products and any discrepancy.
8. Financial Bid in the prescribed Format as given in Annexure-II in a sealed envelope.
9. The bid document along with its annexure downloaded from the web shall be duly signed on each page by the bidder and enclosed along with technical bid in Envelope 1.
10. Any other documents.

NOTE: The Check- List shall be duly filled in, and should be submitted along with the Technical Bid.