



INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR KHARAGPUR – 721302

SUB: PROCUREMENT OF UPS SYSTEMS

Tender Notice No. **IIT/KGP/SM/EQ-UPS/2018-19/11** Date: **31.12.2018**

Indian Institute of Technology Kharagpur, an Institute of National Importance, invites sealed quotations from reputed Original Equipment Manufacturers (OEMs) or their Authorized representatives and General Suppliers for the purchase of **UPS Systems** for the Department of Electrical Engineering at IIT Kharagpur.

Interested vendors are requested to send their sealed bids under a **two cover system** as per requirement mentioned in tender document, along with the Technical Specifications & Compliance Certificate (as mentioned in **Annexure – I**) of the tender document.

Details are also mentioned in the Institute website **www.iitkgp.ac.in** [link: **Tenders**].

The proposal has to be sent in a sealed packet, containing two separate sealed envelopes (**Technical Bid** and **Price Bid**) duly superscripted with Reference Number (**Tender Notice No. IIT/KGP/SM/EQ-UPS/2018-19/11** Date: **31.12.2018**) to the office of **Prof. Siddhartha Mukhopadhyay**, Indian Institute of Technology, Kharagpur, P.O. Kharagpur Technology, PIN: 721302 **on or before 21.01.2019 at 3.00 pm**.

The **technical bids will be opened on 21.01.2019 at 4.00 pm in the Office of Prof. Siddhartha Mukhopadhyay, Department of Electrical Engineering, IIT Kharagpur** in the presence of the vendors/ or their authorized representatives. Price bids will be opened (to be notified separately) only of those firms, who will be found technically qualified/short listed, after evaluation of their technical bids.

Prof. Siddhartha Mukhopadhyay
PI, CNE_OTG, IIT Kharagpur
Electrical Engineering Department

Encl: Annexure – I & II

Copy to:

- 1. Institute website**
- 2. Jt. Registrar (Stores & Purchase)**
- 3. CPP Portal**
- 4. Chairman, Purchase Committee**
- 5. Notice Board**

Procurement of UPS Systems

It will consist of the items as per the specifications given in Annexure - I

TERMS AND CONDITIONS

1. The bidder should be Original Equipment Manufacturer (OEM) or authorized distributor of the systems (Attach documentary proof). The authorization letter issued by the OEM (specifically against this tender) should be enclosed. If the OEMs for some of the equipment are different, authorization letters must be enclosed for each OEM.
2. Any service request must be attended to within the next business day. Both the bidder and the OEM must have sales and support service centers in Eastern India. The bidder should provide the locations of sales and support service centers of both the bidder and the OEM in India. If the OEM will provide first level support for some equipment, certification to this effect from the OEM must be provided.
3. The bidder must have executed at least three orders of similar nature in India in the last three years (PO Copies or successful completion certificates to be provided).
4. Technical bid should contain all relevant technical details; printed technical leaflet of models quoted and other details, which may be necessary to ensure that the offer is complete in all respects, e.g., technical specifications, etc.
5. Technical bid should also contain a Compliance Certificate duly signed by the bidder.
6. PRICE may be quoted either in INR or in foreign currency. Where tenderer intends to quote in Indian Rupees (INR), the price should be quoted "FOR IIT Kharagpur" basis. The price should be all inclusive including GST. The unit price without tax and the tax breakups should be shown separately for each item (if applicable). Prices for software components, if any, must be shown as separate line items.
7. IIT Kharagpur is registered under DSIR, Govt. of India. GST rate for scientific goods is 5% as per the Notification No. 47/2017 - Integrated Tax (Rate) dated 14th November, 2017. Necessary certificate in this regard will be issued as per requirement and on request of the successful bidder. Where tenderer intends to quote in foreign currency FCA/FOB source port price by Air/Sea to be quoted. In case of comparison between FOR IIT Kharagpur (quoted in INR) and FOB/FCA price (quoted in foreign currency) 20% will be added on FOB/FCA price after conversion to INR.
8. IIT Kharagpur is eligible for exemption for payment of Customs Duties in terms of Government of India Notification No.51/96-Customs dated 23.07.96. Necessary certificate in this regard will be issued as per requirement and on request of the successful bidder.
9. Item wise L1 Bidder will be decided based on the price of the item mentioned in the specification.
10. Payment Terms: 90% Payment shall be made after successful installation of the Equipment/System duly certified by PI, CNE_OTG. Balance 10% may be released against submission of Performance Bank Guarantee to the tune of 10% of the total purchase order value. The Performance Bank Guarantee shall be issued from any Commercial Bank, which must remain valid for a period sixty days beyond the expiry of the Warranty Period. Bid security will be refunded back on submission of performance Security. On behalf of the Principal, Indian Agent must be able to provide Performance Bank Guarantee.

11. Warranty: OEM warranty, at least 60 months from the date of successful installation of the equipment.
12. Delivery Period: The equipment should be supplied within 6 weeks from the date of receipt of the Purchase Order.
13. Liquidated Damage: In the event of failure to deliver the stores beyond the specified date, liquidated damages @ 1% per month or part thereof in respect of the value of stores will be deducted, subject to a maximum of 5%; alternately the order will be cancelled and the undelivered stores purchased from elsewhere at the risk and expense of the vendor.
14. Earnest Money Deposit (EMD): An amount of Rs. 10,000.00 (Rupees ten thousand) only (Refundable) in the form of Demand Draft drawn in favour of "Indian Institute of Technology Kharagpur", payable at Kharagpur or Bank Guarantee as per format at Annexure-II is to be submitted. E.M.D. should be enclosed separately in an envelope and stapled with the Technical Bid document super scribed with the tender no. The validity of the EMD should be 6 (six) months from the date of issue. Any bid without EMD will summarily be rejected. No interest is payable on EMD. EMD will be refunded to the unsuccessful bidder after finalization of the tender process. No interest is payable on Security Deposit. Security Deposit shall be forfeited if the selected vendor fails to execute the contract after receiving the same.
[NOTE: IIT Kharagpur will give exemption for submission of tender fee and EMD who are registered with MSME or Central Purchase Organization or startups as recognized by DIPP as per revised rule 170 of GFR-2017 only. However proper and valid document in this regard must be submitted by the bidders in support of their claim.]
15. Bid Submission: Technical Bid and Price Bid should be submitted in two separate sealed envelopes quoting reference number on the top of the envelope. Technical bid should have a copy of the price bid with costs blanked out. Tender Fee and EMD should be enclosed with the Technical Bid documents, in separate sealed envelopes, stapled with the packet containing Technical Bid documents.
16. Acceptance of Tender: The authority of IIT, Kharagpur reserves the right to accept/reject any or the entire tender bids received without assigning any reason thereof.
17. Conditional offer will not be accepted.
18. Period of Validity: Bids shall remain valid for acceptance for a period of 120 days from the date of opening of the price bid. The benefit of downward prices (revision on account of budget/financial policy, tax revision, etc.) should be given to IIT Kharagpur by the selected OEM/vendor.
19. Past performance of the vendors will be judged at the time of Technical Evaluation.
20. The Institute does not bind itself to offer any explanation to those bidders whose technical bids have not been found acceptable by the Technical Evaluation Committee of the Institute.
21. Bidders should enclose the following documents:
 - i. Earnest Money Deposit (EMD).
 - ii. Certificate of Registration/Trade License.
 - iii. PAN number and GST registration number.
 - iv. IT returns for the last three years.
 - v. Copy of product literature technical leaflet, wherever applicable for which the prices have been quoted should invariably be enclosed.

- vi. Signed copy of the tender document, with company seal, agreeing to the terms & conditions and declaration.
22. **All tenders are to** be submitted or handed over to the office of **Prof. Siddhartha Mukhopadhyay, Department Electrical Engineering, IIT Kharagpur**. The bids (technical and price bids) once submitted shall be the property of the Institute and shall not be returned to the vendor in future.
23. **The person/officer signing** the tender/bid documents should be delegated with an appropriate authority.
24. **Opening of Price Bids:** The Price Bid(s) of only those vendor(s) who are found technically qualified will be opened and the same will be opened before the technically qualified vendor(s). **The date for opening of price bids will be notified separately.**
25. Bidder or his/her authorized representative (with proper authorization letter for opening of technical bids and also for opening of price bids) may choose to be present at the time of opening of Technical Bids/Price Bids.
26. The addendum/corrigendum if any shall be published on Institute's Website and on CPP Portal.
27. The Institute at its discretion may change the quantity at any time before placing the order.
28. Copy of mandatory test reports, national testing/reliability and endurance test reports etc., certified or conducted at the manufacturing site, granted by the bureaus/quality control departments/national testing laboratories, as appropriate, should be enclosed.
29. Deviation from Specifications: It is in the interest of the tenderer to study the specifications in the tender schedule thoroughly before quoting so that, if the tenderer makes any deviations, the same are prominently brought out in the body of the tender. If you need to add any optional items to your system in order to meet our specifications, you are requested to quote for the total including the option required to suit our requirements. Otherwise, your tender will not be considered at all.
30. Guarantee: The tenderer has to declare that the goods sold to the buyer under this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications.
31. Jurisdiction: All questions, disputes, or differences arising under, out of or in connection with the contract, if concluded, shall be subject to the exclusive jurisdiction at the place from which the acceptance of Tender is issued i.e. Jurisdiction of KOLKATA HIGH COURT. Acceptance to this effect is also necessary at the time of opening of Technical Bid.
32. Agency Commission, if any will be paid to the Indian agents in Rupees on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances.
33. **Tenderer(s), who are Indian Agents of OEMs:**
- a) Bidders should enclose / furnish the following documents / details:
- Port of shipment and Country of origin is to be provided for each item.
 - Purchase order to be placed on: Should be mentioned in the quotation with full address.
 - Complete address and tele links for contact persons of principals and Indian agent offices dealing with this purchase.
 - Name and full address of the OEM's Banker and their swift code.
- b) Should furnish a clear declaration as follows: We declare that I am/we are Accredited

Agents of the suppliers aboard.

34. **Important**

- a) A bid submitted with false information will not only be rejected but also the OEM/vendor will be debarred from participation in future tendering process.
- b) The OEMs/Vendors need to submit a certificate that they are not currently debarred or blacklisted in IIT Kharagpur for any supplies, products or services, or at present in any national organization or educational institute/university.
- c) In case of any dispute, the decision of the Director of this Institute shall be final and binding on the bidders.
- d) For any query pertaining to this bid document, correspondence be addressed to:

Prof. Siddhartha Mukhopadhyay

Department of Electrical Engg.,

Indian Institute of Technology Kharagpur-721302

Email: siddhartha.mukhopadhyay@gmail.com / patrashamit@yahoo.com

- e) In case the due date for submitting tender **happens to be a holiday, the same will be accepted on the next working day.** The timings will however remain unchanged. **Please Note that the Institute remains closed during Saturdays & Sundays.**

Annexure I

Technical Specifications for UPS Systems

1. Online 6kVA UPS: 3 nos.

Sl.	Parameters	Minimum Technical Specifications
1.	UPS Technology	IGBT Based
2.	Isolation Transformer	UPS output should be fully isolated by double conversion and inbuilt isolation transformer within the UPS cabinet itself. External transformer shall not be considered.
3.	Nominal Input Voltage	230 VAC Single phase with Ground
4.	Input Voltage Range	160V to 280V
5.	Input Frequency	50 Hz
6.	Frequency Tolerance	+/- 10%
7.	Input Power Factor	0.9 or higher @ 100%load
8.	Input Current THD	< 6% @ 100% load
9.	Output Power Capacity	4800 W / 6000 VA or higher
10.	Nominal Output Voltage	230 VAC, 1-phase \pm 1%
11.	Output Frequency	50 Hz
12.	Efficiency at full load	90% or more
13.	Freq. tolerance at battery mode	\pm 0.1%
14.	Waveform	Pure Sine-wave Output
15.	Current Crest Factor	3:1
16.	Overload Capacity	110% for 10 minutes, 150% for 30 seconds
17.	Harmonic Distortion	<2% for Linear Loads and <5% for nonlinear loads
18.	Supported Battery Types	12V Sealed Lead Acid Maintenance Free
19.	Battery Make	Exide Power Safe / Amara Raja Quanta / Panasonic
20.	Backup Time	60 Minutes
21.	Battery Bank Voltage	Minimum 192 VDC
22.	Battery Bank	No. of batteries and each battery AH rating should be specified (Required VAH: About 8500 VAH)
23.	Recharge Time	6-8 Hrs.
24.	Bypass Type	Internal Automatic Bypass Capability
25.	Bypass Input Voltage	Nominal 230 VAC, Single-phase, Range 180V to 270V (approx.)
26.	Rated Frequency	50 Hz
27.	LED/LCD Panel Status	LCD display for Input and Output Voltage, Current and Frequency, Battery Voltage and Current
28.	Indications and Audible Alarms	Mains Failure, Low Battery, UPS Warning, Overload, Fault and Bypass Mode, Inverter On, Load On Mains, Load on Battery etc.
29.	Operating Temp	0 to 50 Degree C
30.	Humidity	Up to 95% RH, non-condensing
31.	Noise Level	75 dB or less @ 1 Meter

32.	Certification	CE Certification (conforming to IEC 62040-1 and IEC 62040-2 Standards). ISO 9001, ISO 14001, OHSAS 18001, ISO 27001 certified. RoHS Compliance. Copies of the above certifications should be submitted with the technical Bid.
33.	Surge Protection Device	UPS should have inbuilt 1 Phase, Type 2 surge arrester (40kA) according to EN 61643-11. It should provide Lightning Protection (according to IEC 1312-1 and EN 62305).
34.	After Sales Support and Manufacturer's Credibility	UPS OEM should have a dedicated Toll Free No. for service call logging and resolution (to be provided). UPS OEM should not have been blacklisted or debarred from business from any government organization in last 10 years.
35.	Warranty	Should be 5 years for UPS and 2 years for batteries; On-site Comprehensive OEM Warranty

2. Online 10kVA UPS: 1 no.

Sl.	Parameters	Minimum Technical Specifications
1.	UPS Technology	IGBT Based
2.	Isolation Transformer	UPS output should be fully isolated by double conversion and inbuilt isolation transformer within the UPS cabinet itself. External transformer shall not be considered.
3.	Nominal Input Voltage	230 VAC Single phase with Ground
4.	Input Voltage Range	160V to 300V (approx.) @ 100% load
5.	Input Frequency	50Hz
6.	Frequency Tolerance	+/- 10%
7.	Input Power Factor	0.9 or higher @ 100%load
8.	Input Current THD	< 6% @ 100% load
9.	Output Power Capacity	8000W / 10000 VA or higher
10.	Nominal Output Voltage	230 VAC, 1-phase \pm 1%
11.	Output Frequency	50 Hz
12.	Efficiency at full load	90% or more
13.	Freq. tolerance at battery mode	\pm 0.1%
14.	Waveform	Pure Sine-wave Output
15.	Current Crest Factor	Better than or equal to 3:1
16.	Overload Capacity	110% for 10 minutes, 125% for 60 seconds, 150% for 30 seconds
17.	Harmonic Distortion	<2% for Linear Loads and <5% for nonlinear loads
18.	Supported Battery Types	12V Sealed Lead Acid Maintenance Free
19.	Battery Make	Exide Power Safe / Amara Raja Quanta / Panasonic
20.	Backup Time	60 minutes
21.	Battery Bank Voltage	Minimum 192 VDC
22.	Battery Bank	No. of batteries and each battery AH rating should be

		specified Required VAH: About 14500 VAH
23.	Recharge Time	6-8 Hrs.
24.	Bypass Type	Internal Automatic Bypass Capability
25.	Bypass Input Voltage	Nominal 230 VAC, Single-phase, Range 180V to 270V (approx.)
26.	Rated Frequency	50 Hz
27.	LED/LCD Panel Status	LCD display for Input and Output Voltage, Current and Frequency, Battery Voltage and Current
28.	Indications and Audible Alarms	Mains Failure, Low Battery, UPS Warning, Overload, Fault and Bypass Mode, Inverter On, Load On Mains, Load On Battery etc.
29.	Operating Temp	0 to 50 Degree C
30.	Humidity	Up to 95% RH, non-condensing
31.	Noise Level	75 dB or less @ 1 Meter
32.	Certification	CE Certification (conforming to IEC 62040-1 and IEC 62040-2 Standards). ISO 9001, ISO 14001, OHSAS 18001, ISO 27001 certified. RoHS Compliance. Copies of the above certifications should be submitted with the technical Bid.
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34.	After Sales Support and Manufacturer's Credibility	UPS OEM should have a dedicated Toll Free No. for service call logging and resolution (to be provided). UPS OEM should not have been blacklisted or debarred from business from any government organization in last 10 years.
35.	Warranty	Should be 5 years for UPS and 2 years for batteries; On-site Comprehensive OEM Warranty

ANNEXURE – II

MODEL BANK GUARANTEE FORMAT FOR FURNISHING EMD

Whereas(hereinafter called the "tenderer") has submitted their offer dated for the supply of (hereinafter called the "tender") against the purchaser's tender Notice No.

KNOW ALL MEN by these presents that WE of having our registered office at are bound unto (hereinafter called the "Purchaser") in the sum of for which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this Day of 20

THE CONDITIONS OF THIS OBLIGATION ARE

- (1) If the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- (2) If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:
 - (a) If the tenderer fails to furnish the Performance Security for the due performance of the contract.
 - (b) Fails or refuses to accept/execute the contract.

WE undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 45 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

(Signature of the authorized officer of the Bank)

Name and designation of the officer

Seal, name & address of the Bank and address of the Branch