

	INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036 Telephone: (044) 2257 9723/98 E-mail: tender@imail.iitm.ac.in	
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Senior Manager (Project Purchase)

Ref: ICSR/2019/ KVA UPS
Dated: 18.09.2019

Limited Tender No: ICSR/2019/ KVA UPS

Due Date: 03.10.2019, 4:00pm

Technical Bid opening meeting on Due Date: 03.10.2019, 4:30pm

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of "40 KVA UPS" conforming to the specifications given in **(Annexure-I)**:

Instructions to the Bidder

- I. **Preparation of Bids:** - The Limited tenders should be submitted under two-bid system (i.e.) Technical bid and Financial bid.
- II. **Delivery of the tender:** - The tender shall be sent to the below-mentioned addresses either by post or by courier so as to reach the following address before the due date and time specified in our Schedule:
**The Senior Manager,
 2nd Floor, Project Section,
 IC&SR Building
 IIT Madras
 Chennai - 600 036.**
- III. **Opening of the tender:** - The offer/Bids will be opened by a committee duly constituted for this purpose. The technical bids will be opened first and it will be examined by a technical committee which will decide the suitability of the bid as per our specifications and requirements. The bidders will be invited for opening of Technical bids. In respect of opening of financial bid, those bidders who are technically qualified only will be called for.
- IV. **Prices:** - The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges to **IC& SR, IIT Madras.**

The offer/bid should be exclusive of taxes and duties. The percentage of tax & duties should be clearly indicated separately. IIT Madras is eligible for concessional GST and relevant certificate will be issued.

In case of import supply, the price should be quoted without custom duty. IIT Madras is exempted from levy of IGST on Imports and eligible for concessional custom duty (not

exceeding 5%) and the price should be quoted on EX-WORKS and CIP basis indicating the mode of shipment.

- V. **Agency Commission:** - 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. The details should be explicitly shown in Tender even in the case of 'Nil' commission. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent. The foreign Principal should indicate about the percentage of payment and it should be included in the originally quoted basic price, if any.
- VI. **Terms of Delivery:** - The item should be supplied to our Departments as per Purchase Order. In case of import supply, the item should be delivered at the cost of the supplier to our Institution. The Installation/Commissioning should be completed as specified in our important conditions.
- VII. **Technical Bid Opening:** The technical bid will be opened on **03.10.2019, 4:30pm** at the IC&SR Building, IIT Madras, IIT Madras and the financial bids of those tenders who are technically qualified will be opened at a later date under intimation to them.
- VIII. IIT Madras reserves the full right to accept / reject any tender at stage without assigning any reason.

Yours sincerely,

**The Senior Manager,
2nd Floor, Project Section,
IC&SR Building
IIT Madras
Chennai - 600 036.**

SCHEDULE

Important Conditions of the tender

1. The due date for the submission of the tender is **03.10.2019, 4:00pm**.
The offers / bids should be submitted in two bids systems (i.e.) Technical bid and financial bid. The Technical bid should consist of all technical details / specifications only. The Financial bid should indicate item-wise price for each item and it should contain all Commercial Terms and Conditions including Taxes, transportation, packing & forwarding, installation, guarantee, payment terms, pricing terms etc. The Technical bid and financial bid should be put in separate covers and sealed. Both the sealed covers should be put in a bigger cover. The Limited Tender for supply of "**40 KVA UPS**" should be written on the left side of the Outer bigger cover and sealed.
2. If an Indian agent is involved, the following documents must be enclosed:
Foreign principal's proforma invoice indicating the commission payable to the Indian Agent and nature of after-sales service to be rendered by the Indian Agent.
 - ✓ Copy of the agency agreement with the foreign principal and the precise relationship between them and their mutual interest in the business.
3. **Validity:** Validity of Quotation not less than 60 days from the due date of tender.
4. **Delivery Schedule:** - The tenderer should indicate clearly the time required for delivery of the item. In case there is any deviation in the delivery schedule, liquidated damages clause will be enforced or penalty for the delayed supply period will be levied.
5. **Risk Purchase Clause:** - In the event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from other sources on the total risk of the supplier under risk purchase clause.
6. **Late offer:** - The offers received after the due date and time will not be considered. The Institute shall not be responsible for the late receipt of Tender on account of Postal, Courier or any other delay.
7. **Acceptance and Rejection:** - I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.
8. **Do not quote the optional items or additional items unless otherwise mentioned in the Tender documents / Specifications.**
9. **Disputes and Jurisdiction:** -
 - a. **Settlement of Disputes:** Any dispute, controversy or claim arising out of or in connection with this PO including any question regarding its existence, validity, breach or termination, shall in the first instance be attempted to be resolved amicably by both the Parties. If attempts for such amicable resolution fails or no decision is reached within 30 days whichever is earlier, then such disputes shall be settled by arbitration in accordance

with the Arbitration and Conciliation Act, 1996. Unless the Parties agree on a sole arbitrator, within 30 days from the receipt of a written request by one Party from the other Party to so agree, the arbitral panel shall comprise of three arbitrators. In that event, the supplier will nominate one arbitrator and the Project Coordinator of IITM shall nominate one arbitrator. The Dean IC&SR will nominate the Presiding Arbitrator of the arbitral tribunal. The arbitration proceedings shall be carried out in English language. The cost of arbitration and fees of the arbitrator(s) shall be shared equally by the Parties. The seat of arbitration shall be at IC&SR IIT Madras, Chennai..

- b. **The Applicable Law:** This Purchase Order shall be construed, interpreted and governed by the Laws of India, Court at Chennai shall have exclusive jurisdiction subject to the arbitration clause.
- c. Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Chennai in Tamil Nadu.

- 10. All Amendments, time extension, clarifications etc., will be uploaded on the website only and will not be published in newspapers. Bidders should regularly visit the above website to keep themselves updated. No extension in the bid due date/ time shall be considered on account of delay in receipt of any document by mail.

Acknowledgement: - It is hereby acknowledged that the tenderer has gone through all the conditions mentioned above and agrees to abide by them.

SIGNATURE OF TENDERER

ALONG WITH SEAL OF THE COMPANY WITH DATE

Supply of 40 KVA UPS at IC&SR, IIT Madras
Limited Tender

1. Introduction:

These requests for quotations are to be in two parts – Technical and Commercial. This tender is for Supply, Installation, Testing and Commissioning of one 40kVA UPS. The offered UPS system consist of one set of UPS Systems, Batteries, Battery rack and DC cable connecting the batteries to the UPS system.

2. Scope of work:

The system consists of one **40 kVA UPS Systems** connected thru three phase power. In the event of failure of UPS system, the load shall be automatically passed on to the Bypass (normal supply) through static bypass switch without any break. Suitable isolation shall be provided for EB neutral and UPS neutral.

3. Mode of Operation:

The UPS system should be designed to operate continuously at rated capacity in the following modes:

a) Normal operation, b) Battery operation, c) Recharge operation, d) Bypass operation

4. Scalability:

The modularity of the UPS must allow to increase the back-up time on site, simply adding battery drawers. The upgrade will not require any additional factory modifications and will not need dedicate special tools.

5. Technical Specification**5.1 System Input:**

- Input voltage: 415 V AC Three phase four wire
- Input frequency: 50 Hz +/- 5 %
- Power factor: > 0.98 at Full Load
- Rectifier type : IGBT

5.2 System Output:

- Rated Power: 40kVA
- Output voltage: 415 V AC Three phase
- Output frequency: 50 Hz +/- 0.1 Hz
- Max voltage transient recovery time: 10 milliseconds to nominal
- Overload: 125 – 150% for 60 seconds in normal operation
- System efficiency 100% load: >95% in all load conditions
- Acoustical noise: dB(A) of noise, typically, measured at 1 meter from the operator surface: less than 65

5.3 Battery

- Sealed high rate discharge maintenance free Value Regulated Lead Acid (VRLA)

- Backup time – 30 minutes

5.4 Environment

- Storage Ambient Temperature: 0 to 50 Deg Cel
- Operating Ambient Temperature: 0 to 40 Deg Cel
- Relative Humidity: 5% to 95% max

5.5 Communication

- System shall have RS 232 / RS485 port connectors for computer capability and also RJ45 for local LAN network
- System shall have provision for integration with BMS system at a later stage thru RS485
- System should have provision to configure SMS alert to mobile thru inbuilt or added equipment
- Web portal should provide detailed information of the UPS status, battery status, line in, line out etc., Web portal should be viewable thru any web browser with connectivity thru local LAN and Internet

5.6 Standards

- System will adhere all Safety standards (IEC/EN62040-1-1) / Emission norms / performance of IEC class
- Surge Protection : IEC/EN62040-2, meeting IEC/EN61000-4-5

5.7 Display & Control

- The display unit shall display the following UPS status message – Normal operation / Battery operation / Bypass operation / Standby / System off / Mains available
- The display unit shall display the following metered parameters – Source input voltage and current / output voltage and current / output frequency / battery voltage / battery current/ battery temperature / output peak current / Year,Month,Day,Hour,Minute,Sec/
- The display shall allow to display all logs of all active alarm's
- The display shall allow to display the events log with a time and date of last 100 most recent UPS status and alarm events
- The display shall have the following control functions – Automatic restart feature / Transfer to or from static bypass operation / Calculate battery back-up time / Adjust set points for different alarms / silence the audible alarm / other standard control functions

6 Warranty:

Complete UPS system, Battery Bank and all other accessories of the system shall be warranty for three year from the date of installation and successful running certified by IC&SR.

7 Escalation & Service Support:

The vendor should provide detailed escalation matrix for service support with minimum of five level, any call raised by the IC&SR should be addressed within the same day or 12 hours from the time of call

8 Preventive Maintenance:

Preventive maintenance of complete setup of UPS system for a period of three years to be undertaken. Four PM's should be carried out in a year and breakdown calls to be attended within same day or 12 hours from the time of call.

9 Scope of work - IC&SR:

Provision will be made to Providing Input and Output cable from PDU to UPS system along with respective breakers, Mains, Output, Bypass cables and Earths.

10 Vendor qualification

- The bidder shall be a manufacturer of UPS or an authorized dealer of the manufacturer.
- In case the bidder is an authorized dealer of the UPS this tender specific authorization from the original manufacturer addressed to ICS&R shall be submitted with the bid.
- They should have fully functional service center with spares stock for attending the breakdown calls. Details of the service center must be provided.

Annexure 1

Financial Bid - Rate shall be quoted as per the format given below

Sr #	Description	Qty	Unit Rate	Tax	Total Amount
1	Supply of 40kVA True Online UPS System operating on 415V, 50 Hz, 3 Phase Input and 3 Phase Output, interconnecting suitable size copper cables between UPS and Batteries and all other accessories Make: Numeric / Emerson / APC / Consul	1			
2	Supply, Installation, testing and commissioning of SMF battery bank for 40kVA True Online UPS for providing backup time of 30 minutes & battery charger, battery stand with open type rack	1			
3	Installation and commissioning charges for the entire work if applicable	LS			
Grand Total					
4	Warranty	Complete UPS system, Battery Bank and all other accessories of the system shall be with warranty for three year from the date of installation and successful running certified by IC&SR.			
5	AMC - Comprehensive annual maintenance charges on-site for a period of three years beyond warranty to be quoted separately for 40kVA UPS. Four PM's in a year / Advance payment by Quarterly or Half yearly. Order will be placed at the time of AMC start.	1st Year Price – Amount + Tax %			
		2nd Year Price – Amount + Tax %			
		3rd year Price – Amount + Tax %			

Terms of Payment:

- 75 % of the total order amount on delivery of all materials and balance 25 % after successful completion of work be made to the vendor subject to issue of work completion and successful running certificate.
- The vendor shall pay all taxes, duties, levies, etc. of the Government provision of Income Tax Act. Deduction of Income tax and any other taxes shall be made from payment as per the Income Tax authority.
- No claim for interest will be entertained by the IC&SR in respect of any payment / deport which will be held with the IC&SR due to dispute or due to Administrative delay for the reasons beyond the control of the IC&SR.