

	<p style="text-align: center;">INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036</p> <p style="text-align: center;">Telephone: (044) 2257 4851 E-mail: msrrao@iitm.ac.in</p>	
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Prof. MS. Ramachandra Rao
Project Coordinator

Ref: PHY/2019/002/STORES
Dated: 12.04.2019

Limited Tender No: PHY/2019/002/STORES

Due Date: 02.05.2019, 3:00pm

Pre-Bid meeting: - Not required.

Technical Bid opening meeting on Due Date: 02.05.2019, 3:30pm

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of “60 kVA UPS for HFCVD (Reactor)” conforming to the specifications given in **(Annexure-I)**:

Instructions to the Bidder

- I. **The Quotations are to be in two bid system as: Technical bid and Commercial bid. Two parts of the offer are to be clearly marked on the envelopes. The two parts of the offer in a separate envelop must enclosed in the one bigger envelop duly sealed and superscribed with reference number and due date and, should be addressed to the undersigned so as to reach him on or before the due date stipulated above. A blank price quote (identical to the Commercial bid with numbers removed) should be enclosed with the Technical Part.**
- 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:
**Prof. MS. Ramachandra Rao
Department of Physics,
IIT Madras
Chennai - 600 036.**
- III. The Quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
- IV. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples if called for, should be submitted free of charges, and collected back at the supplier’s expenses.

- V. Local Firm: Quotations should be for free delivery to this Institute. If Quotations for Ex-Godown delivery charges should be indicated separately.
- VI. Firms outside Madras: Quotations should be for F.O.R. Madras. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If Ex-Godown, packing, forwarding and freight charges must be indicated.
- VII. The rate of sales / General Taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for Sales / General Taxes will be admitted at any stage and on any ground whatsoever. The taxes leviable should take into consideration that we are entitled to have concessional Sales Tax applicable to non-Government Educational Institutions run with no profit motive for which a concession. Sales Tax Certificate will be issued at the time of final settlement of the bill.
- VIII. Goods should be supplied carriage paid and insured.
- IX. Goods shall not be supplied without an official supply order.
- X. Payment : Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later

Yours sincerely,

Prof. MS. Ramachandra Rao
Department of Physics,
IIT Madras
Chennai - 600 036.

Item Description: 60 kVA UPS**Quantity: 1 Number**

S.No	Description	Specification
1	Power Rating	60 kVA
2	Inverter Type	3 Level IGBT
3	Operating Speed	Higher (Greater than 15 million data per second)
4	Backup Time	30 minutes for half load
INPUT Requirements		
5	Voltage	380V,400V,415V 3 Phase
6	Frequency	50/60 Hz \pm 5 Hz
7	Total Harmonics Distortion	Less than 3 %
8	Power factor	>0.99
OUTPUT Requirements		
9	Voltage	380V,400V,415V 3 Phase
10	Frequency	50/60 Hz \pm 0.03%
11	Efficiency (AC-AC)	Above 95%
12	Efficiency (Eco mode)	Above 98%
13	Total Harmonics Distortion	Less than 2 %
Environment conditions		
14	Operating Temperature	0-40 °C
15	Noise level (@ 1 m)	Less than 60dBA
16	Display	: Touch screen
17	Status Indication	: LED Indication Bar (Multicolor)
18	Redundancy	: Compatible to parallel more than 6 no's.
19	Regenerative Power:	50% of the rated power.

Note:

1. Warranty: 3 Years for all the items.
2. The vendor should have more no. of installations in the organizations like IIT Madras, ISRO, DRDO etc.,
3. The vendor should have at least 20 years of experience.
4. The vendor should attend unlimited emergency breakdowns.
5. Back feed protection required.