

INDIAN INSTITUTE OF TECHNOLOGY RAJASTHAN
MBM Engineering College Campus, Ratanada, Jodhpur – 342011.

TENDER FOR SUPPLY & INSTALLATION OF UPS
Tender Enquiry No. IITJ/2010-11/IT/13

DATED : 08 October, 2010

DUE DATE FOR SUBMISSION OF TENDER : 4:00 P.M. ON 19th November 2010

1. **Background:** This tender is regarding the supply and installation of various UPS that would provide power backup to the Computer Centre, network switches and various labs at IIT Rajasthan. Sealed quotations are invited from reputed vendors for the aforesaid purpose as per the details given in the Annexure - I to Annexure – IV.
2. **Eligibility Criteria of Bidders:**
 - a) Bidder should be OEM/Authorized Partner of the OEM and a Letter of Authorization from OEM, specific to the tender should be enclosed.
 - b) The Bidder should be an Authorized Service Provider for the OEM.
 - c) The vendor/OEM should be ISO 9001 and ISO 14001 certified. Please attach a copy of the certificate.
 - d) Bidder should be financially sound to execute the order. Certificate to this effect should be issued by any Nationalized/Scheduled bank.
 - e) The bidder shall provide the Registration number of the firm along with the LST/ CST/ WCT No. and the PAN Number allotted by the concerned authorities.
 - f) The bidder must have the experience of executing similar orders. The bidder must enclose documentary evidence of executing minimum 3 orders of a minimum value of Rs. 40 Lakhs each in the last 3 financial years for any organization.
 - g) The bidder should have a Call Centre operating in or around Rajasthan and the telephone number for the same must be provided.
 - h) The bidder should have adequate facilities, manpower and staff for installation, testing, commissioning and for providing after sales service. An undertaking from the OEM is required in this regard stating that they would facilitate the bidder on a regular basis with technology/product updates and extend support for the warranty as well.
 - i) Latest Income Tax Certificate should be enclosed.
 - j) The bidder must not be blacklisted anywhere in the country or abroad for whatsoever reason and, a certificate or undertaking must be produced to this effect.
3. **Submission of Proposals:**
 - a) The bidder shall go through the entire document and must comply with all the terms and conditions. A Compliance statement in the form of “Complied” or “Not

Complied” shall be given against each item and specification of the tender document (Annexure – II). The compliance statements should be supported by authentic documentation. Please note that any deviation from the laid down requirements / specification shall be brought out separately in deviation sheets to be attached with concerned section of the tender. Failure to comply with this requirement may result in the bid being rejected. Each page of the bid and cuttings / corrections shall be duly signed and stamped by the bidder. Failure to comply with this requirement may result in the bid being rejected.

- b) The proposals shall be submitted in two parts and should be super-scribed as “PART – I: COVER FOR TECHNICAL BIDS” and “PART-II: COVER FOR COMMERCIAL BIDS” (due date **19.11.2010** (up to 4:00 PM)) and the vendor name/address on all the two envelopes. The envelope cover must carry the NIQ reference and the vendor name and address. All the two sealed envelopes shall be submitted in a larger envelope with the NIQ reference and vendor name and address. This envelope should be duly signed by an authorized signatory and should bear the inscription as under:

“Supply and Installation of UPS at IIT Rajasthan”
“Tender Enquiry No.”: IITJ/2010-11/IT/13
Dated: October 08, 2010

- c) Part-I shall be a Company Profile covering all the documents specified in the “Eligibility Criteria of Bidders” under clause 2 above, as well as a Technical Offer with full details including description of product so as to enable technical assessment of the proposal and categorical clause wise compliance statement as per Annexure - I to Annexure III.
- d) The Technical bid must be submitted in an organized and structured manner. No brochures/leaflets etc. should be submitted in loose form. The Technical Offer should comprise of the following:
- i. A letter of authority duly signed by an authorized signatory.
 - ii. Complete Information of Commercial bid with Product Name, Specification, and Manufacturer quoted for.
 - iii. Columns related to commercials must not be filled up.
 - iv. Technical Documentation [Product Brochures, leaflets, manuals etc.]
 - v. Delivery and implementation schedule.
 - vi. Compliance of terms with any deviation clearly indicated in remarks & brought in separate deviation sheets.
 - vii. Warranty and AMC (Comprehensive Annual Maintenance) details.
- e) Part – II should contain The Commercial Bids for the entire proposal with breakup of the prices. The bidders are requested to quote
- i. Product Name, Specification, Manufacturer with charges for installation, configuration and support for solution in INR F.O.R IIT Rajasthan, Jodhpur.
 - ii. Prices quoted shall be inclusive of escalation of any description. The rates must be quoted including the following:
 - A) All costs should be given in Figures and Words.
 - B) Govt. Levies like Sales Tax, Octroi, Excise Duty, Work Contract Tax

(WCT) and Educational cess etc., if any, shall be paid at actual rates applicable on the date of delivery. Rates should be quoted accordingly giving the basic price, duties and taxes etc., if any.

- f) Bids Acceptance: The Bids must reach the office of the Director, IIT Rajasthan, on or before the due date. Bids will not be accepted after the due date and time.
- g) Validity of bids: Bids should be valid for a minimum period of 90 days after the due date.

4. Rejection of Bids:

- a) The Director, IIT Rajasthan reserves the right to accept or reject any bid or cancel the tender proceedings without assigning any reason whatsoever.
- b) The Director, IIT Rajasthan at its sole discretion reserves the right to award/reject the contract in one or more parts to one or more bidders. Incomplete quotations are liable to be rejected.
- c) Canvassing in any form in connection with the tenders is strictly prohibited and the bids submitted by the bidders who resort to canvassing are liable for rejection.
- d) The Director IIT Rajasthan shall not pay any costs incurred towards preparation and submission of the bid or any other expenditure in this regard.
- e) Unsigned tenders, unattested corrections and over writings by bidders are also liable for rejection.
- f) The Director of IIT Rajasthan reserves its right to relax any technical specification if necessary.
- g) Conditional bids will be summarily rejected.
- h) The schedule for accepting the tenders shall be strictly followed- late tenders shall not be accepted.

5. Evaluation Process: For the bidders satisfying the Qualifying Criteria and Technical Specifications, the price comparisons shall be made over the total cost of the solution with three years of warranty. The bidder with the lowest price (L1) will normally be selected from the bidders satisfying the Qualifying Criteria & Technical Specifications. However, the Director of IIT Rajasthan or the authorized committee, at its sole discretion, reserves the right to negotiate with other bidders in case, the technical specifications of some or all products are found to be superior.

6. Earnest Money Deposit: The tenderer shall deposit an Earnest Money of Rs. 1, 00, 000 /- (Rupees One Lakh Only) and a non-refundable tender fee of Rs. 1000/- (Rupees One Thousand) in two separate **demand drafts** in favour of “**Director, IIT Rajasthan**” payable at Jodhpur. The earnest money deposit will be refunded to the tenderers whose offers have not been accepted within 90 days of opening of tenders. Earnest money deposit of the successful bidder will be refunded only on receipt of security deposit after the award of the purchase order.

7. Prices & Payment Terms:

- a) The bidders are requested to quote on F.O.R. Destination basis by road inclusive of all Packing, Forwarding, Freight charges, Transit Insurance and any other charges as applicable, as per Annexure - II in INR with 3 year Comprehensive Warranty.
- b) IIT Rajasthan is registered with DSIR, Govt. of India and is, therefore, exempted from excise/custom duties as per limits and terms of Govt. Of India. Exemption certificate for the same shall be issued by IIT Rajasthan, as and when required/requested for.
- c) Bidders must quote the comprehensive price in the following format explicitly.
 - i. Base unit Price
 - ii. Excise Duty/ Custom Duty
 - iii. Sales Tax/ VAT
 - iv. Entry Tax
 - v. Octroi
 - vi. Other Levies/ Taxes
 - vii. **Total price inclusive of all taxes and duties FOR, IIT Rajasthan, Jodhpur.**
 - viii. Payment will be made after the successful commissioning (delivery, installation and testing) of the project.

8. Clarifications: In case the bidder requires any clarification regarding the tender documents, they are advised to submit their queries **in writing** to The Coordinator, IT Infrastructure & networking committee, IIT Rajasthan, Jodhpur on or before **22/10/2010** by 4:00 pm. Email queries may be sent to Dr. Swagat Kumar (swagat.kumar@gmail.com). There will be a final **pre-bid meeting on 23/10/2010**, in which all the bidders may take part for the resolution of their queries. Thereafter, no query will be entertained. The corrigendum will be released by **25/10/2010**.

9. Quantity Variations: The proposed quantities are subject to change depending on IIT Rajasthan's priority vis-à-vis financial constraints, if any.

10. Comprehensive Warranty & Comprehensive Annual Maintenance Contract:

- a) Comprehensive Warranty & Comprehensive Annual Maintenance Contract shall include free maintenance of the whole equipment supplied, including free replacement of parts. The defects, if any, shall be attended to, on an immediate basis, but in no case any defect should prolong for more than 24 hours.
- b) The comprehensive warranty should be for a period of **3 years on-site**.
- c) The bidders should also quote for Comprehensive Annual Maintenance Contract after warranty for a subsequent period of two years on quarterly post-payment basis.
- d) The service coverage will be from 9:00 AM to 5:30 PM, Monday through Friday. Adequate provisions should be provided to address technical problems occurring during weekends or holidays.

11. Supply and Installation: The bidder will be required to supply and install at the said location within **8 weeks** from the date of receiving the purchase order.

- 12. Liquidated Damages:** If the supplier fails to deliver any or all of the goods or complete the installation within the period specified in the purchase order, IIT Rajasthan shall without prejudice to its other remedies, deduct as liquidated damage 1% of the price of the delayed goods for every week or part thereof subject to a maximum of 10% of the order value. The amount towards Liquidated Damage would be recovered while making the initial payment itself.
- 13. Penalty Clause:** In case of non-supply of goods or inability to execute the work within the stipulated time (8 weeks after the acceptance of purchase order), the supply order shall be placed with the next bidder which has quoted the next lowest rates at the risk and cost of the defaulting bidder and difference, if any, between the total cost of the materials shall be chargeable to the defaulting bidder. In case the defaulting bidder fails to pay the differential cost, the legal action shall be taken against the defaulting bidder.
- 14. Force Majeure:** Any delay due to Force Majeure will not be attributable to the bidder.
- 15. Arbitration and Laws:** Except where otherwise provided for in the contract, all questions and disputes relating to interpretation and application of the provisions of the contract shall be settled mutually within thirty (30 only) days (or such longer period as may be mutually agreed upon) from the date that either party notifies in writing that such dispute or disagreement exists, under the Rules of Indian Arbitration and Conciliation Act, 1996. The venue of Arbitration shall be Jodhpur, Rajasthan, India. The arbitration resolution shall be final and binding upon the parties and judgement may be entered thereon, upon the application of either party, by Jodhpur court having jurisdiction. The Indian laws shall govern this contract.
- 16. Termination Clause:** Either party can terminate the service agreement by giving three months notice in advance to other party.

Place:

(Signature & Seal of Bidder)
Date:

ANNEXURE - I

GENERAL TERMS AND CONDITIONS:

1. **Prices:** Vendor should quote FOR IIT Rajasthan prices.
2. **Delivery Period:** Within **8 Weeks** from the date of the receipt of Purchase Order
3. **Warranty: 3 Years on-site Comprehensive** (including free replacement of parts and free maintenance)
4. **Taxes:** The rates quoted for must be for FOR IIT Rajasthan, Jodhpur and all taxes should be mentioned clearly.
5. **AMC:** Per year AMC charges for 2 years after the expiry of warranty period.
6. **Consignee or Bill to:** The Director, IIT Rajasthan
7. **Terms of Payment:** As under 'Prices & Payment Terms' clause 7.
8. **Institute's Rights:** Director, IIT Rajasthan reserves the right to accept or reject any or all the bids without assigning any reason thereof.
9. **Date of pre-bid meeting: 23 October 2010 : 10:00 am to 12:00 noon**
10. **Last date of bid submission: 19th November 2010, 4.00 pm**
11. **Bid opening :**
 1. Technical Bid: **20 November 2010, 03:30 pm**
 2. Financial Bid: **27 November 2010, 03:30 pm**

ANNEXURE - II

Technical Specifications

S. No.	Parameters	Specifications	Offered Specs.	Compliance (Yes / No)
1	Brand & Country of Manufacture	Vendor to specify		
2	Model No.	Vendor to specify		
3	Capacity	<p>1. 1 x 30 KVA Modular True Online UPS [expandable to 150 KVA] with 25-30 minutes back-up with each module - 1 Sets.</p> <p>2. 2 x 30 KVA Modular True Online UPS [expandable to 150 KVA] with 25-30 minutes back-up with each module - 2 Sets.</p> <p>3. Optional cost for 30 KVA Module True Online UPS [add on to above] with 25-30 minutes back-up - 1 Set.</p>		
4	Technology	True On-line, Double Conversion architecture, IGBT based controlled by DSP technology.		
5	Rectifier & charger design	IGBT-based with power factor correction (PF Corrected)		
6	Inverter design	IGBT-based		
7	Input	Three phase 400V		
	Input Voltage Range	Three Phase AC 310V to 475 VAC		
	Input Frequency Range	40-70 Hz		
	Input Power Factor at nominal voltage	>0.99		
	Input current harmonic distortion	< 3%		
	Generator Compatibility	100% compatible with genset with matching ratio of 1.5 of UPS rating.		
8	Output			
	Inverter output voltage	400 V Three Phase AC + neutral		
	Waveform	Sine wave		
	Frequency	50Hz \pm 0.02%		
	Output voltage regulation	Static load: \leq \pm 1%		

	Output total harmonic voltage distortion	< 1% -with linear load <4% with non linear load		
	Overload Capability 110% overload	60 mins		
	125% overload	10 mins		
	150% overload	1 min (Above rating should be maintained during battery operation also).		
	Power handling capability	UPS should be able to handle load with Power factor 0.6 lagging to 0.9 leading.		
	Rated power	Ups should be able to deliver Output Power at unity power factor i.e. KVA = KW		
	Overall system efficiency (On-line)	>= 94% or more at all loads (from 25% to 100%)		
9	Static bypass switch			
	Type	continuously full rated automatic		
	Input Voltage to Bypass	380/400/415 (Nominal:400V) 3-ph,4-w Ph+N)		
	overload	135% for 2 hours 170%for 1 hour 1000% for 100msec		
10	Maintenance bypass			
	Type	Manual, external bypass		
	Rating	Fully rated		
11	Backup & battery			
	Battery brand	Vendor to specify		
	Model	12 V		
	Type	SMF Batteries of the same batch suitable for with each UPS.		
	Duration	25-30 minutes backup at full load. Battery sizing calculation to be furnished at unity P.F.		
	AH capacity	Vendor to specify AH and no. of Battery.		
	Battery management system	Intelligent battery management algorithm to be included in the UPS so as to help to monitor Battery Bank.		
1.	Battery Circuit Breaker	Battery Circuit Breaker (BCB) with Under Voltage Trip coil to be provided with enclosure		
	Battery Temperature Monitoring Probe	Temperature compensated battery charging feature to be incorporated in the system		

	<i>Battery Warranty</i>	Battery to be guaranteed for a trouble free performance for a minimum period of One Year from date of installation		
13	Safety & protection			
	<i>Internal Protection</i>	All live parts shrouded		
	<i>Short Circuit Protection</i>	Electronic Current Limit		
	<i>Manual and Static Bypass</i>	Required		
15	Control panel			
	Display Panel	To monitor a) Input voltage phase & line. b) Input current phase & line. c) input power and output power d) Bypass input Voltage & frequency. e) System output voltage phase & line. f) System output current phase & frequency. g) D.C. Bus voltage. h) Battery current & direction. i) Battery discharge elapsed time j) input /output phase difference for each phase		
	Visual Indications	a) Normal operation. b) Load on battery. c) Inverter OFF. d) Alarm condition.		
	Alarm/faults status	Alarm system should have audio , visual indications for following failures and reporting over digital interface. a) Input & Bypass A/C under voltage, over voltage, under frequency & over frequency. b) Input / bypass input & inverter out of Synchronization. c) Battery system alarm. d) Control power failure. e) Fan failure. f) UPS overload. g) Battery Operation end. h) Battery under voltage shut down.		

		<p>i) Battery charging control fault.</p> <p>j) Inverter overload.</p> <p>k) Static bypass overheat.</p> <p>l) Inverter power supply fault.</p> <p>m) Inverter O/P under voltage / over voltage.</p>		
	Noise	Less than 65 dB		
	Environmental conditions	Temp – 0 to 40°C for UPS Humidity < 95%		
	Standards	IEC60950, IEC62040-1 2 & 3, AS620401,2 &3. ISO 9001 & ISO14001		
	Switches	Mains and Battery ON/OFF MCCB		
16	Communication & management			
		Remote monitoring via standard network connection (web browser or intranet/telephone lines). Built in network card, monitoring & shut down software required for this shall also be included along with training to clients system Engineers.		
		Detailed power monitoring & automated shutdown software package required.		
		The UPS is required to be connected to all type of networks to perform the following : -real time information about UPS status -to inform the user when the UPS line is down and UPS is working on battery backup -event logging facility. -Report on battery status, load, temperature and perform self management diagnosis -Complete monitoring and control through net. -Controlled shut down of operating systems of the servers connected if genset has a malfunction at the time of black out.		
		Programmable potential free contacts programmable at site for various alarm conditions.		
17 Delivery/Installation period				
	Delivery period in calendar days from the date of LOI for the ordered equipment to reach site.	Vendor to specify (early delivery desired)		

	Time required for Installation, Commissioning and Load Testing and to make the UPS fully operational after delivery at site.	Vendor to specify		
19.	UPS makes	Quotations are invited from reputed manufacturers of UPS like Tata Liebert / Gutor / Chloride / Mitsubishi / Emerson /GE/ APC.		
	Battery make	Global Yuasa / Exide / HBL		

Additional Conditions:

1. **Warranty:** The UPS System must carry **on-site comprehensive warranty** for **three years** from the date of taking over of the equipment after the acceptance tests. Warranty period will stand extended for a period of total downtime of the UPS System. **Services must be available for 24x7 in case of any emergency.**
2. **AMC:** Vendor should quote Optional comprehensive AMC for two years after warranty.
3. The cost of 30 KVA extra module with 25-30 minutes battery backup is to be quoted separately.

Annexure – III

Bill of Material

Sl. No.	Description	Rate / Set [in Rs.]	Qty.	Total Cost
	A. Main Item			
1].	1 X 30KVA Modular True Online UPS [expandable to 150 KVA] with 25-30 minutes SMF Battery backup for each UPS - As per IIT-J tender specs.		2	
2].	2 X 30KVA Modular True Online UPS [expandable to 150 KVA] with 25-30 minutes SMF Battery backup for each UPS - As per IIT-J tender specs.		1	
3].	30KVA Module True Online UPS [add-on to above UPS System.] with 25-30 minutes SMF Battery backup. - As per IIT-J tender specs		1	
	Total Basic Supply Cost			
	Add Taxes / Duties -CED/CST/VAT/ Customs / p&F / Freight & insurance etc.			
	Total Main Item Cost to IIT - Jodhpur			
	B. Optional Item			
4].a	AMC charges for the First year after Warranty for Item 1 & 2		1 yr.	
4].b	AMC charges for the Second year after Warranty for Item 1 & 2		1 yr.	
4].c	AMC charges for the Third year after Warranty for Item 1 & 2		1 yr.	
	Add Taxes - Service Tax etc. on AMC for 3 years			
5].	Supervision & Commissioning for Item 1 & 2 above.		1 lot	
	Add Taxes - Service Tax etc. on AMC for 3 years			
	Total Optional Item Cost to IIT - Jodhpur			
	Grand Total Main Plus Optional Item Cost to IIT - Jodhpur			

ANNEXURE - IV

We (The Bidder) undertake and confirm that:

1. We hereby offer to supply the goods detailed in schedule thereof as you specify in the purchase order at the price quoted and agree to hold this offer open for acceptance for a period of 180 days from the date of opening of bid.
2. Rates quoted are for FOR at site (Indian Institute of Technology Rajasthan (IITJ) located at Jodhpur in Rajasthan.
3. The entire product has a two years comprehensive on-site warranty as mentioned in the tender document.
4. The Bidder/OEM will maintain sufficient service engineers in Jodhpur, Rajasthan. The services shall be provided at IIT Rajasthan.
5. The product names for the total solution are mentioned and also enclosed the datasheets for the same.
6. The warranty in respect of the product ordered shall remain valid for three year from the mutually agreed date.
7. Any delay by the supplier in the performance or delivery of items shall render the supplier liable to cancellation of the purchase order for default. Further, the Bidder would ensure installation/commissioning of the software within the time frame not exceeding two (2) weeks from the date of availability of delivered software and site readiness.
8. The bid/quotation is submitted for the complete Solution and strictly as per the tender specifications.
9. During warranty services will be provided directly on site.
10. Every page of the submitted bid has been numbered and signed.

It is hereby confirmed that we have understood the terms and conditions of the tender and have thoroughly examined specifications and are thoroughly aware of the nature of goods required and our offer is to supply goods strictly in accordance with the requirement and terms and conditions of the tender. We agree to abide by the terms and conditions of the tender if the contract is awarded to us.

“Bid Form” as specified in Annexure - V has been included.

Place:

(Signature and seal of Bidder)

Date:

ANNEXURE - V

BID FORM

TO
The Director,
IIT Rajasthan.

Dear Sir,

1. Having examined the terms & conditions of the contract and specifications, the receipt of which is hereby duly acknowledged, we, undersigned, offer to supply and deliver the goods, in conformity with the said drawing, conditions of contract and specifications and services as per the terms & conditions of the contract, for the sums shown in the schedules of price attached herewith and made part of this bid.
2. We undertake, if our Bid is accepted, to execute the work within 08 weeks from the date of issue of your purchase order.
3. We agree to abide by this Bid for a period of 90 days from the date fixed for Bid opening and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
4. Until a formal Purchase Order of Contract is prepared and executed this Bid together with you written acceptance thereof in your notification of award shall constitute a binding contract between us.
5. Bid submitted by us is properly wax sealed and prepared so as to prevent any subsequent alteration and replacement.

We understand that IIT Rajasthan is not bound to accept the lowest or any bid that it may receive.

Dated this _____ day of _____

Signature of

In capacity of

Duly authorized to sign the bid for and on behalf of _____

Witness _____

Address _____

Signature & Seal