

NOTICE INVITING QUOTATION

NIQ No.: IITD/PHYSICS/2013-14/SJC/UPS40

DUE DATE: 18-07-2013

Sealed quotations along with complete details (brochures/web-site details) are invited for procuring the **40kVA 3Ph-3Ph Online UPS System** (*Quantity – 1 Number*) as per following description and desired specifications.

<i>Item Description</i>	40kVA rating 3Ph-3Ph True On Line Double Conversion UPS System, complete with Isolation transformer, Transient voltage suppression and SMF battery bank and its Rack (One System). The detailed system specifications are as follows:
Technical Parameters	Specifications
A. Input Supply	
(i) Input voltage and range	3 Phase 3 w ; 400V; +15% -15%
(ii) Input frequency	50 Hz \pm 10 %
B. Isolation Transformer	
	Rating appropriate to UPS
C. Transient Voltage/Surge suppression at Input stage to UPS	
(i) Surge current capability	Up to 100 kA or higher
(ii) Response time	\leq 0.5 ns
(iii) Attenuation (RFI/EMI)	\geq 40 dB
(iv) Operation capacity	Continuous
D. Output Supply	
(i) Output voltage	3 phase 4 w ; 400V (configurable)
(ii) Output voltage stability	\pm 1 % in Steady State, and \pm 5 % at 100% load
(iii) Output Power	40 kVA, 32kW
(iv) Output Frequency	50 Hz
(v) Output Frequency Stability	\pm 1 % or lower
(vi) Output Overload:	\geq 125% for time 10 min for 3 phase \geq 200% for 30 seconds for single phase
(vii) Efficiency at max load:	\geq 95%
(viii) Output voltage distortion at 100% non-linear load	< 3 % phase to phase, and < 5% Phase to Neutral
(ix) Efficiency	\geq 93%
E. Features of UPS	
(i)	100% capacity inverter with IGBT and PWM Inverter switching design for perfect sinewave voltage output
(ii)	Capability of 100% Unbalancing
(iii)	Capability of handling 100% non-linear load with crest factor at least 3:1
(iv)	Battery management system with programmable battery testing
(v)	Maintenance Bypass
(vi)	Battery Circuit Breaker
(vii)	Overload/Short circuit Protection
(viii)	Operating environment : Temperature : upto 40°C Relative Humidity: upto 90% Noise : \leq 65 dBA
(ix)	IP20 Protection or higher
(x)	Phase change prevention
(xi)	Indication for battery ground fault
F. Communication & Management:	

(i) Interface Capability	RS 232 and RS 485
(ii) Software	Required for both service and shut down
(iii) Alarms	Both audible and visible alarms
(iv) Status and Control Display	LCD based multifunction display for status
G. Battery Back-up with battery rack	34 Nos. of SMF type battery with 1 rack for housing them
(i) Voltage rating	12 V dc
(ii) AH rating	100 AH
(iii) On-site replacement warranty	≥ 24 months
(iv) Battery rack	Appropriate to house the battery

TERMS & CONDITIONS COVERING SUBMISSION OF QUOTATIONS

1. **About Bidding: Who can bid?**
 - (a) **Either** the Indian agent on behalf of the Principal/OEM **or** Principal/OEM itself can bid but both can not bid simultaneously.
 - (b) If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
2. **Agency-ship Certificate** The vendor must attach with the offer a **latest sole selling and servicing agency-ship certificate from OEM** for sale/service in India.
3. **Delivery** At IIT Delhi
4. **Payment Terms** **Quotations with Advanced Payment terms will not be entertained.**
5. **Validity of quotations** Quotations will be considered **valid for 3 months** from the date of receipt unless otherwise stated.
6. **Correspondence** No correspondence regarding acceptance/rejection of a quotation will be entertained.
7. **Submission of quotations** The quotation in sealed cover mentioning our **N.I.Q. REFERENCE AND DUE DATE FOR OPENING** on the envelope itself should be submitted to the undersigned as otherwise it will not be considered.
8. **Discount/ rebates** Special discount/rebate wherever admissible keeping in view that the supplies are being made for Educational purpose in respect of Public Institution of National importance may please be indicated.
9. **Warranty & delivery period** Necessary information must be provided in respect of
 - (a) Warranty of 12 months or higher from the date of commissioning and
 - (b) Delivery period
10. **Printed brochures/web-site links** The printed brochures and website link detailing the technical specifications of the items quoted MUST be provided in the offer, failing which the offer shall NOT be considered.
11. **Proprietary item** In case the offered equipment is **proprietary in nature**, the same be mentioned over the envelope. In addition, the necessary **proprietary certificate** stating clearly the proprietary details should be furnished together with Technical quotation.
12. **Rejection** Quotations not conforming to above terms and conditions will be rejected.
13. **Institute's rights** Institute reserves the rights of acceptance or rejection of any or all quotations without assigning any reason(s). The discretion for increasing or decreasing of the quantities demanded also vests with the Institute.

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