



# National Institute of Solar Energy

(An Autonomous Institution under Ministry of New and Renewable Energy,  
Govt of India)

Gurgaon – 122 003, Haryana

## NOTICE INVITING TENDER

Bid No. 10/02 (02)/003/2016-NISE-R&D (PV)

Office of Director General, National Institute of Solar Energy (NISE),  
Gurgaon invites sealed tenders from Suppliers of On-line UPS for the  
following items.

S No	Description	Quantity
(i)	5 kVA On-Line 3 phase UPS with battery	1 No
(ii)	20 kVA On-line 3 phase UPS with battery	1 No

Tender document(s) may be downloaded free of cost from the website of  
NISE ( [www.nise.res.in](http://www.nise.res.in)). Last Date to submit the bid is **14 October 2016**;  
13:00 Hrs

**National Institute of Solar Energy**

(An Autonomous Institute of Ministry of New &amp; Renewable Energy)

Gwal Pahari,  
Gurgaon-Faridabad Road  
Gurgaon - 122 003; Haryana

**Subject:** Supply, installation, testing and commissioning of (i) **one no of 5 KVA 3 Phase On-line UPS with battery, and (ii) One No. of 20 KVA 3 Phase On-line UPS with battery** at NISE Campus – reg.

On the behalf of Director General, National Institute of Solar Energy, Gurgaon sealed tenders are invited from suppliers of On-line UPS having an annual turnover of not less than Rs 1 Cr during in last FY for supply, installation, testing and commissioning of (i) **one no of 5 KVA 3 Phase On-line UPS with battery, and (ii) One No. of 20 KVA 3 Phase On-line UPS with battery** at NISE Campus as per technical specifications & standards given in tender document.

The interested bidders are encouraged to visit the R&D Division; First Floor; Aditya Bhawan (also known as Old Building), NISE Campus, Gwal Pahari; Gurgaon on any working day between 10.00 AM to 4.00 PM to assess & inspect the job requirement before submitting the bid.

Submitting of Tenders	Sealed bids both Technical & Price Bids to be submitted in different envelopes super-scribed Technical Bid for “On-line UPS at <b>NISE Campus</b> ” and Price Bid for “On-line UPS at <b>NISE Campus</b> ”. Both of which shall be put in bigger envelope with bigger envelop super-scribed “On-line UPS at <b>NISE Campus</b> ” may be dropped in the Tender Box placed at Reception Room in the Institute at Aditya Bhawan (also known as Old Building) of NISE, Gurgaon.
Bid Validity	Bids shall be valid for atleast 90 days from the date of technical bid opening.
Earnest Money Deposit	Rs. 10,000/- (Rupees Ten Thousand Only) (refundable to the unsuccessful bidders without any interest) by Demand Draft drawn in favor of “National Institute of Solar Energy” payable at Gurgaon  **Relevant certificate shall be submitted with the bids in case bidder(s) is/are exempted to furnish the EMD**
Last date for submission of	1.00 P.M. on 14 Oct 2016

bids	
Date of opening of Technical bids	3.00 P.M. on 14 Oct 2016  (Note : In case this date is declared as holiday by NISE or Govt of India in future, then next working day shall be the last date for submission of Bids or Technical bidding opening)
Opening of Price Bids	The time & date for opening of price bids will be intimated to the technically qualified bidders.
Address for Communication	The Director General, National Institute of Solar Energy, Gurgaon - Faridabad Road, Gwal Pahari, Gurgaon - 122 003, Haryana, India. Email: <a href="mailto:nise.mnre@gmail.com">nise.mnre@gmail.com</a> Ph: +91 124-285 3060 (Reception) / 285 3035 (Direct)

# INSTRUCTIONS TO BIDDERS

## 1. Eligibility of Bidders

- (i) The Bidder should be a reputed on-line UPS having an annual turnover of not less than Rs 1 Cr during the last financial year. The proof of turnover and list of clients will be submitted with the technical bids. Such equipment must be of the most recent series/models incorporating the latest improvements in design. The models should be in successful operation for at least one year as on date of Bid Opening.
- (ii) Details of Service Centres located in Gurgaon or adjoining areas and information on Service support facilities that would be provided after the warranty period (In the Service Support Form).
- (iii) The Bidder shall be equipped and able to carry out the Supplier's maintenance, repairs and Spare parts, stocking obligations prescribed by the conditions of the contract.
- (iv) That the adequate and specialized expertise is already available or will be made available following the execution of the contract in the Purchaser's city, to ensure that the support services are responsive and adequate.
- (v) That the Bidder will assume total responsibility for the fault-free operation of equipment and Maintenance during the warranty period and provide necessary maintenance services for five years after end of warranty period if required.
- (vi) Bidders who does not meet the criteria given above, if they have made untrue or false representation in the forms, statements and attachments submitted in proof of the qualification requirements or have a record of poor performance, not properly completing the contract, inordinate delays in completion or financial failure, etc. are subject to disqualification.
- (vii) AMC for one year after the expiration of warranty period.

## Technical Specifications.

### (i) TECHNICAL SPECIFICATIONS FOR 5 KVA ON-LINE UPS

<b>5 KVA 3 Phase UPS with battery</b>		
	<b>Item</b>	<b>Specifications</b>
	Capacity	5 kVA True On-Line
	Input Voltage	230 V +/- 10 % AC Single Phase
	Input Frequency	50 Hz +/- 5 %
	Battery	1/2 Hour Backup(30 min)

	Output waveform	True Sine Wave
	Total Harmonic Distortion	Less than 2 % with linear load
	Overall efficiency	>= 90 %
	Overload	120 % for 10 min, 150 % for 10 sec or better
	Load Power Factor Range	0.6 to 1
	Inverter	IGBT based PWM
	Output voltage	230 V +/- 2 % single phase AC
	Output frequency	50 +/- 0.25 Hz
	Protection	a. Input Over/Under Voltage b. Phase Fail c. Overload at the output d. SOAR protection for IGBTs e. Output AC Over/Under Voltage
	Indications	At least: a. Mains on b. Inverter on c. Battery on charge d. Mains over/under voltage e. Phase Fail f. Low Battery Imminent g. Battery Over/Under Voltage h. Overheat
	Display Panel	LCD/LED to indicate the following: a. AC Input/Output Voltage per phase b. Load Percentage c. DC Voltage d. Battery Percentage e. Output Frequency
	Operating Temperature	0-45 deg C
	<b>General Specifications</b>	
	After Sales Support and AMC	After completion of standard warranty period, OEM/Authorized Indian Agent shall provide comprehensive AMC (including spares if required) for a period of 3 years. . The AMC charge shall be quoted as a percentage (%) of basic cost of the main equipment. The AMC charges will be added for cost evaluation. NISE reserves the right to release separate AMC order

		after completion of standard warranty as per the quote given now.
	Manufacturer's Test Certificate	Manufacturer's Test certificate is required and shall be provided before dispatch.
	Spares	Offer shall include all the spares necessary for normal operation of equipment
	Erection and Commissioning (E&C) and Warranty	Shall be quoted separately as optional. All supplied items to be provided with warranty for 12 months from the date of dispatch. In the case of items involving E&C, supplier shall provide warranty for 18 months from the date of dispatch or 12 months from E&C whichever is later.
	Accessories	Offer shall include all accessories necessary for normal operation of the equipment.

(ii) **TECHNICAL SPECIFICATIONS FOR 20 KVA ON-LINE UPS**

<b>20 KVA 3 Phase UPS with battery</b>		
<b>S.No.</b>	<b>Item</b>	<b>Specifications</b>
	Capacity	20 kVA True On Line
	Input Voltage	440 V +/- 10 % AC 3 Phase 4 wire
	Input Frequency	50 Hz +/- 5 %
	Battery	1/2 Hour Backup(30 min)
	Output waveform	True Sine Wave
	Total Harmonic Distortion	Less than 2 % with linear load
	Overall efficiency	>= 90 %

	Overload	120 % for 10 min, 150 % for 10 sec or better
	Load Power Factor Range	0.6 to 1
	Inverter	IGBT based PWM
	Output voltage	415 V +/- 2 %, 3 phase
	Output frequency	50 +/- 0.25 Hz
	Protection	a. Input Over/Under Voltage b. Phase Fail c. Overload at the output d. SOAR protection for IGBTs e. Output AC Over/Under Voltage
	Indications	At least: a. Mains on b. Inverter on. C. Battery on charge d. Mains over/under voltage e. Phase Fail f. Low Battery Imminent g. Battery Over/Under Voltage h. Overheat
	Display Panel	LCD/LED to indicate the following: a. AC Input/Output Voltage per phase b. Load Percentage c. DC Voltage d. Battery Percentage e. Output Frequency
	Operating Temperature	0-45 deg C
	<b>General Specifications</b>	
	After Sales Support and AMC	After completion of standard warranty period, OEM/Authorized Indian Agent shall provide comprehensive AMC (including spares if required) for a period of 3 years. . The AMC charge shall be quoted as a percentage (%) of basic cost of the main equipment. The AMC charges will be added for cost evaluation. NISE reserves the right to release separate AMC order after completion of standard warranty as per the quote given now.
	Manufacturer's Test Certificate	Manufacturer's Test certificate is required and shall be provided before dispatch.

	Spares	Offer shall include all the spares necessary for normal operation of equipment
	Erection and Commissioning (E&C) and Warranty	Shall be quoted separately as optional. All supplied items to be provided with warranty for 12 months from the date of dispatch. In the case of items involving E&C, supplier shall provide warranty for 18 months from the date of dispatch or 12 months from E&C whichever is later.
	Accessories	Offer shall include all accessories necessary for normal operation of the equipment.

## GENERAL CONDITIONS OF CONTRACT

**1. Codes & Standards:** The on-line UPS, and Battery and its components shall comply with the latest edition of the applicable standards.

**2. Inspections and Tests:** All routine test & acceptance tests as per relevant standards and specification shall be carried out by the vendor on the premises of the MANUFACTURER. Charges for all these tests for all the equipment & components shall be included. Drawings and production data shall be furnished to the inspectors at no charge basis to the Purchaser, Should any inspected or tested Goods fail to conform to the specifications, the Purchaser may reject the goods.

**3. Commissioning Check Tests/Performance and Guarantee Test:** In addition to the checks and test recommended by the manufacturer, the contractor shall supervise the following acceptance tests to be carried out on each set.

**4. Certificate:** The vendor shall furnish, at its own cost, test certificate for the various material and equipment as called for. Such certificate shall be from the manufactures for the particular consignment / lot/piece and shall be duly authenticated by respective consultants.

**5. Packing:** The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

**6. Delivery and Documents:** Delivery of the goods should be made within **one month** from the date of placement of purchase order. Within 24 hours of shipment, the supplier shall notify the purchaser and the insurance company by cable/telex/fax/e mail the full details of the shipment including contract number, railway receipt number/ AWB etc. and date, description of goods, quantity, name of the consignee, invoice etc.



The Supplier shall mail the following documents to the purchaser with copy to the insurance company:

- i) Copies of the Supplier invoice showing contract number, goods' description, quantity, and unit price, total amount;
- ii) Acknowledgment of receipt of goods from the consignee(s) by the transporters; iii) Insurance certificate, if any.
- iv) Manufacturer's/Supplier's warranty certificate;
- v) Inspection Certificate issued by the Competent Authority, and the Supplier's factory inspection report; and Certificate of Origin.
- vi) Two copies of the packing list identifying the contents of each package.

The above documents should be received by the Purchaser before arrival of the Goods (except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the Supplier will be responsible for any consequent expenses.

**7. Insurance:** For delivery of goods at the purchaser's premises, the insurance shall be obtained by the Supplier to an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destinations) on "All Risks" basis including War Risks and Strikes.

**8. Transportation :** Where the Supplier is required under the Contract to transport the Goods to a specified place of destination including insurance, as shall be specified in the Contract, shall be arranged by the Supplier, and the related cost shall be included in the Contract Price.

**9. Warranty:** The vendors must provide full comprehensive warranty for a period of 12 months (one year) post installation. During this period they should provide all spare parts required for repair and maintenance. Along with repair maintenance service within 12 hrs. of communication of such services, warranty of 2 years against manufacturing defects shall be provided.

**10. AMC:** The vendor must have provision for prompt and high quality after-sales services after Completion of the warranty period in an AMC basis (Hardware Portion) and must quote the cost of such AMC in the main tender for the 2nd year.

**11. Payment: Payment:** 40% advance against bank guarantee of equivalent amount, 50% against delivery of material at site & 10% after testing & commissioning and acceptance of the system /equipment to the entire satisfaction of the Purchaser and on production of unconditional performance bank guarantee of the amount of 5% of the Contract Value which will be retained for a period of one year towards warranty.

**12. Taxes and Duties:** Suppliers shall be entirely responsible for all taxes, duties, license fees, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser. Being the purchases for scientific purpose, the customs/Excise duty exemptions are applicable.

**13. Penalty Clause:** If the Supplier fails to deliver the Goods or to perform the Services within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as penalty (Half percent of contract price per week of delay subject to a ceiling of 5% of final contract price).

**14. Applicable Law:** The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes shall be subject to place of jurisdiction in Gurgaon, Haryana.

**15. FREE MAINTENANCE AND DEFECTS LIABILITY PERIOD OF THREE YEAR.**

The vendor must have a permanent address in Delhi NCR with at least three years of local after-sales Service history. Following are the works shall be carried out during the free maintenance period.

- Emergency call back service
- Inspect, clean, where necessary
- Adjustment of machinery
- Replacement of any defective parts

**16.** Interested bidders are requested to inspect the work site at the address above mentioned and get them acquainted with the nature of work and local conditions that may have a bearing on the rates.

THE FOLLOWING FORMS TO BE FILLED BY THE BIDDER as part of the Technical Part of the Bid.

- (i) Performance Statement Form (As per the attached Format)**
- (ii) Service Support details;**
- (iii) Manufacturer's Authorization Form**
- (iv) Certificate of experience of two similar jobs.**

**NOTES**

- (1) NISE, Gurgaon reserves right to accept or reject any or all applications without assigning any reasons.
- (2) The offers from OEM or OEM's authorized dealer of On-line UPS only will be considered. The offers received from unauthorized dealer/firms may not be considered.
- (3) OFFERS with INCOMPLETE INFORMATION ARE LIABLE TO BE REJECTED, which may be noted.

The Director General  
National Institute of Solar Energy  
Gurgaon-Faridabad Road  
Gwal Pahari  
Gurgaon – 122 003, Haryana

# Performance Statement Form

(For the last three years)

**Bid No. 10/02 (02)/003/2016-NISE-R&D (PV)**

Name of Bidder : \_\_\_\_\_

Order No. & Date	Client	Contact person/ phone	Description & quantities of ordered items	Value of order (in Rs Lakhs)	Date of completion		Satisfactory completion
					As per contract	Actual	

To be attached: Documentary evidence (client's letter or certificate) in support of satisfactory completion of above orders.

\_\_\_\_\_  
Signature and seal of the Bidder

\_\_\_\_\_  
Date

Price Bid Format  
(on Company's Letterhead)

Ref No.

Date

**PRICE BID**

The Director General  
National Institute of Solar Energy (NISE)  
Gurgaon – Faridabad Highway  
Gwal Pahari; Gurgaon – 122 003  
Haryana

**Subject: Supply, installation, testing and commissioning of (i) one no of 5 KVA 3 Phase On-line UPS with battery, and (ii) One No. of 20 KVA 3 Phase On-line UPS with battery at NISE Campus – reg.**

S No	Item	Basic Price (in Rs)	AMC Charges for 2 <sup>nd</sup> Year (Rs)	Taxes (in Rs)	Other Charges (if any) (in Rs)	Total (in Rs)
(i)	One no of 5 KVA 3 Phase On-line UPS with battery					
(ii)	One No. of 20 KVA 3 Phase On-line UPS with battery;					
	Total					

Amount (in words) Rupees

Signature: \_\_\_\_\_

Name of the Representative Submitting the Bid :

Designation :

Company Seal