



NISE National Institute of Solar Energy

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

Gwal Pahari, Gurugram – 122 003, Haryana

03/02/015/NISE-PVTF

F.No.03/02/015/NISE-PVTF

NOTICE INVITING TENDER

On behalf of the Office of Director General, National Institute of Solar Energy (NISE), Gurugram invites sealed tenders from reputed suppliers/ Authorized vendors **for design, engineering, manufacture, supply, installation and commissioning of 3 Nos. Environmental Test chamber with accessories at NISE Gurgaon, Haryana as per the technical Specifications mentioned in the tender document.**

Tender document may be downloaded free of cost from the website of NISE i.e. www.nise.res.in. The last date of receipt of bids will be **12:00 Hrs on 26th Feb 2018.**

F.No.03/02/015/NISE-PVTF

National Institute of Solar energy
19th Mile Stone, Gurgaon-Faridabad Road,
V. & P.O. Gwal Pahari, Distt. Gurgaon (HR).
Phone: 091-124-2579212; 091-124-2853095 579207; 091-124-2579084.

Date: 5 Feb. 2018

Tender Notice

Tender for design, engineering, manufacture, supply, installation and commissioning of 3 Nos. Environmental Test chamber with accessories at NISE Gurgaon, Haryana India form conducting the Damp heat, humidity freeze & Thermal Cycling test on PV modules.

On behalf of Director General National Institute of Solar Energy (NISE) sealed tenders are invited in two parts (Technical and Commercial separately) from original manufacturers for design engineering, manufacture, supply, installation & commissioning of 3 Nos. Environmental Test chamber with accessories at NISE Gurgaon, Haryana India. The bidder must have already supplied similar or superior system in India or abroad and a report on the performance of the systems from the client along with clientele list must be enclosed with the Technical Bid.

1.	TENDER NO.	F.No.03/02/015/NISE-PVTF
2.	DETAILS OF EQUIPMENT	Design engineering, manufacture, supply, installation and commissioning of 3 Nos. Environmental Test chamber with accessories at NISE Gurgaon, Haryana India for conducting the Damp heat, Humidity freeze and Thermal Cycling tests on PV modules as per International Standard IEC 61215:2016
3.	QUANTITY	Three Nos. environmental chambers along with options, accessories, spares and consumables for five years.
4.	DESCRIPTION OF ENVIRONMENTAL TEST CHAMBER	Please see the detailed Technical specifications
5.	SCOPE OF CONTRACT	The supply should cover design, engineering, manufacture, assembly, packing and forwarding, installation, commissioning and trial testing of 3 Nos. Environmental chambers accessories as per technical specification given in clause 7 & 8 at NISE Gurgaon including the training to the personnel at NISE Gurgaon.

		The system should be installed & commissioned at NISE 19 th Mile stone, Gurgaon-Faridabad Road, Village & P.O. Gwal Pahari, District Gurgaon, and Haryana, India.
6.	EARNEST MONEY DEPOSIT (EMD)	<p>a. A sum of Rs.6,00,000/- (Rs Six lakh only) should be submitted as Earnest Money Deposit (EMD) along with the technical bid in the form of Demand Draft / Fixed Deposit Receipt from a commercial bank / Bank Guarantee from a Commercial Bank in an acceptable form to NISE, Gurugram .</p> <p>b. In case of demand draft, demand draft drawn in favour of “Drawing & Disbursing Officer, National Institute of Solar energy , Guru gram , Haryana , India “ from any Nationalized Bank</p> <p>c. In case of Bank Guarantee, the same may be provided as per the format given at Annexure - 5 of the Tender Document.</p> <p>d. The EMD of the accepted tender will be retained as Security Deposit and the EMD of other unsuccessful bidders would be refunded without interest.</p>

7. Detailed Technical specifications

The environmental test chamber is required for conditioning of the Solar Photovoltaic (SPV) Modules in accordance with the IEC61215:2016 standards for their endurance with respect to the climatic conditions in the field.

Sr.No	TECHNICAL SPECIFICATION	VENDOR'S / Client RESPONSES
1	Maximum dimensions of the module to be accommodated inside the chamber for environmental conditioning 2500mm x 2000mm x 50mm	
2	Minimum Internal clear area dimensions of the chamber should be 2800mm x 2300mm x 1500mm	
3	To have the online measurement of temperature and continuity of the modules during test the system should have 4 Nos. of feed through with connectors, located in the left and right-side walls of the chamber. Each feed through should be capable to accommodate at least 10 independent and insulated terminals.	
4	The required accuracy of measurement of temperature and humidity of the chamber should be ±1°C and ±2% RH respectively. A durable and rugged temperature & humidity sensor should be integrated with the unit. Supplier	

	/ manufacturer please specify type and make).	
5	It will be desirable to have a low height of “chamber-floor” from the ground level (of the test laboratory) say 200 mm to 450 mm to facilitate ease of loading / unloading or making connection of the probe lead to the PV module by the operator. In that case the compressors & other fittings may be at the back side of the chamber, (slightly separated from the main chamber). The chamber should operate on A.C electrical utility of 415 Volt \pm 15%, 3 Phase (Star connection) 50 Hz. or 230 Volt \pm 5%, 50 Hz. In case of 3 phase the electrical load of the chamber should be equally distributed on all the 3 phases during all modes of operation (cooling /heating, idle running or full load running of the compressors).	
6	The module Holder/Rack: 1. Holder for mounting of the SPV modules should be able to accommodate Min 10 modules of maximum size up to 2500mm x 2000mm x 50mm at a time. It should be capable to hold them vertically with a spacing of 200 mm (min) between each module. The design should be such that there should be proper ventilation for each module so that the homogeneity of temperature and humidity is maintained. 2. Rack should be able to support max 10 modules held vertically upright position. The rack may be design in such a way to guide the base of the module at the bottom and camp it from top. The material shall be so chosen that the module remain, dielectrically insulated from each other as also from Environmental chamber body. It should be able to withstand up to 100°C and 90 % RH.	
8	REQUIRED Chamber specifications	
A	Details of Test Chamber	
A	Material: stainless steel grade suitable for the requirement, and provide the protection from corrosion.	
B	Dimensions : Minimum Internal clear area dimensions of the chamber 2800mm x 2300mm x 1500mm External dimensions of the chamber will be as per the manufacturer design however the information on external dimensions and required clearance are to be supplied by the manufacturer/supplier at the time of quotation	
C	Max. Weight of one test PV module: 40 kg (approx. 65 % glass), floor of the chamber should be capable to withstand the load. Load withstand capability should be mention in the quotation.	
D	Exterior Material: Double coated galvanized steel sheet suitable for corrosion resistance in tropical climates. The exterior finish should be Single or two-coloured, powder coated (Manufacturer/Supplier to indicate)	
E	Door: Preferred hinged on left, with latching arrangement along with excellent seal to stop thermal or conditioned air leakage. The hinge should be capable to withstand the 50,000 operations without fail.	
B	Equipment	
A	Module holder: Please refer user’s requirement at point 6 above and specify	
B	Feed through / access port on right side wall: 2 Nos thermally insulated feed through comprising of 10 insulated and independent ports to facilitate the measurement of module temperature, and continuity during the test.	

C	Feed through/ access port on left side wall: 2 No thermally insulated feed Through comprising of 10 insulated and independent ports to facilitate the measurement of module temperature and continuity during the test.	
D	Viewing window: The front door should have viewing window (of reasonable size) with wiper/suitable arrangement so as to facilitate visual check on specimen and sensor leads during the test.	
E	Refrigeration unit: 1. Water cooled refrigeration system to ensure long and continuous operation say up to 100 days at a single stretch. 2. The compressor shall be mounted on anti-vibration pads	
F	Heating System: • Stainless Steel sheathed air heaters to achieve the desired set temperature. • The heaters shall be placed in the conditioning plenum such that there is no direct radiation from the heaters onto the test specimen. • Heater outputs shall be controlled for superior stability and control in temperature.	
F	Control : Digital Measuring and control system and a PC through RS-232 /USB connection.	
G	Interface: Serial interface RS 232/USB for connection to PC for bi directional communication .	
H	High/Low temperature safety device: Pl. specify as per relevant European Standard)	
I	Air flow: The air circulation within the chamber shall be as close to laminar ensuring uniform airflow across the whole workspace	
J	Interior Illumination: Interior illumination with lamp and the switch to be located outside.	
K	Humidification system: Preferred with steam humidifier	
C	Range, Accuracy and Time Cycle Requirement of Test Chamber	
A	Thermal Cycling Test: As per latest IEC-61215:2016 up to 200 cycles at a stretch	
B	Humidity Freeze and Damp Heat Test: As per latest IEC 61215:2016 (Please also refer user's requirement).	
C	Damp Heat Test: As per latest IEC-61215:2016 up to 1000 Hrs. at a stretch	
D	Chamber Performance	
A	Maximum temperature: +120°C	
B	Minimum temperature: -60°C	
C	Temperature deviation in time: $\pm 1^\circ\text{C}$	
D	Spatial temperature variation over the module area: $\pm 2^\circ\text{C}$	
E	Temperature change rate: The rate of change of temperature should be up to 200°C/hour under full load conditions	
F	Humidity Stability : 3 % RH or better	
E	Control and Programming	

A	Colour touch panel: VGA graphic, background-lighted LCD display language English	
B	Program Memory : 100 Programs	
C	Password protection: two levels, to prevent accidental setting	
D	Limit value monitoring system: for temperature and humidity	
E	Diagnostic system: for information on operating times and possible operating failure.	
F	Serial interface RS 232/USB for bidirectional connection to a computer system for networking	
G	Graphical check of the program: The temperature/humidity cycle programming Should be displayed on the panel for immediate visual check	
H	Printing and storage of Program: Should be stored/printed in graphical form as well as in tabular form.	
I	There should be provision for auto resume for test profile during power interruption.	
J	Industrial PC/Laptop: Latest configuration laptop/Industrial PC should be provided along with the printer. i7, 16GB RAM, 1TB SSD/HDD, Windows OS.	
K	There should be provision for entering program ramp steps in time or °C	
F	Connections/Others	
A	Power supply: 3/N/PE/AC 415 ± 15%, Volts 50 HZ or 230 ± 5% Volts 50Hz.	
B	Grounding Requirement: Supplier to specify in detail.	
C	Protection types: Test cabinet IP 22, Electrical/ Operating panel IP 54 (or any relevant International Standard)	
D	Maximum connected load: Supplier to specify with details for load requirement sub-system wise	
E	Maximum current consumption: Suppliers to please specify	
F	Cooling water requirement: Supplier to specify quantity of water inlet at 35°C input water. Also specify pressure at inlet.	
G	Humidification water : Fully de-mineral (conductivity max. 20 µS/cm, Ph value 6-7) Automatic supply from integrated RO system (to be supplied with the chamber along with constant level reservoir).	
H	Condensation drain: If required, please specify quantity and grade	
I	Compressed air supply on site: please provide the details	
J	Weight of chamber: Supplier to please specify	
Note 1	The admissible ambient temperature range for satisfactory operation of the chamber should be from 10 ± 2°C to 45 ±2 °C.	
Note 2	Manufacturer should ensure that the system is designed for ease of maintenance. For example, the motors used for air circulating should be easily accessible for demounting and re-fixing as and when required.	
Note 3	The Test Chamber should be made of stainless steel and should be vapour tight. It should be easy to clean and the edges should be rounded. The re-circulated air duct with heat exchanger, electric heaters and air re-circulating fan should be at convenient location for ease of cleaning /servicing.	
Note 4	Temperature and Humidity Conditioning: Manufacturer to please provide full description of the system design.	

Note 5	Control and Programming should be Self-monitoring along with digital measuring and control system, suitable for the use in environmental test systems. Input should be through touch panel /PC with following broad specifications. The colour touch panel, suitable for graphics with a resolution of 640 x 480 Pixel (VGA), to be arranged on the left side of the cabinet. The following features for touch panel are desirable:	
	i. Background-lighted display	
	ii. Operation by slightly touching the function symbols	
	iii. Graphic symbols for programming functions.	
	iv. Graphic display of actual test data	
	v. Menu-guidance	
	vi. Easy programming of individual test programmes	
	vii. Safe storing of individual programs, which can be activated at any time	
	viii. Easy activation of stored test programs	
	ix. Help function	
	x. Operation state displayed by means of light diodes	
	The system should be able to handle all the functions necessary for control and programming. In addition to temperature and humidity control it should also contain an efficient software PLC according to IEC 1131 standard, which should coordinate, monitor all functions and provide information on operating failures.	
G	Protections:	
A	Permanently memorized over-heating safety thermostat	
B	Protection for Humidifier against Overheating	
C	Power Supply: Each functional circuit should be equipped with its own safety device, which, in the event of trouble, turns off the affected circuit or the entire cabinet. The nature of the trouble must be visually displayed on monitor.	
D	Wiring and electrical parts should strictly conform to safety regulations for electrical installations and materials.	
E	An interlock mechanism between test space and door opening shall be provided to shut down the chamber.	
H	Documentation:	
A	The calibration certificates should be provided for all measuring devices and system	
B	Calibration of temperature and humidity should be done in accordance with ISO 17025 Standards and a certificate for this should be provided along with the equipment.	
C	Detailed manual for operation, Maintenance troubleshooting of the equipment	
I	General:	
A	The installation, commissioning & trials (to demonstrate proper functioning with PV modules shall be the responsibility of the supplier (or their local	

	agent)	
B	Preference shall be given to the suppliers who have their local service centre/ agents in India.	
C	Quotation should also be provided for regular maintenance contract For two years after completion of warranty period and Additional Extendable maintenance contract up to 3 years.	
D	The suppliers should indicate whether they can provide onsite calibration service of devices used in the equipment subsequent to the warranty period).	
E	Documentation: Two sets of operation manuals complete with drawing, parts list (with part codes) circuit diagrams with ratings of components and list of dos and don'ts for the main equipment as well as the sub-systems. Two sets of maintenance manuals with full information on drawings, circuit diagrams, list of suppliers along with addresses for bought out parts, troubleshooting charts, programs of built in controllers etc. for the main equipment as well as for the sub-systems. These manuals should be in the form of hard (printed) copy in English Language as well as in electronic storage form disc /pen drive etc.) A CVD for demonstration of operation of the equipment, assembling and dismantling etc. will be preferred. A certificate for the adequacy of the manuals should be obtained and provided with the manuals. Such certificate must be signed by the QA engineer of the manufacturer.	
F	Spares: In view of the desired continuous running of the equipment for a period of up to 50 days at a stretch the requirement of spares is inevitable. In order to avoid the logistic problems involved in procuring the spares in time It is necessary that in addition to normal free spares supplied with the equipment supplier to provide list and addresses of the source for such spares)	
G	Suppliers/ manufacturer recommended spares (with price list) for 5 years continuous running of the chamber should also be supplied along with the equipment.	

Note: - Please use separate sheet in case of detailed information to be given in response of any of the above columns.

9. RATES (The rates should be quoted specifically on the following line)

- a. Firm and final cost of the environmental test chambers with the above specifications and features.
- b. Taxes (GST) and freight etc. if any applicable, should be indicated separately and clearly.
- c. Cost involved towards installation and commissioning at site.
- d. Cost towards the training of NISE personnel.
- e. Cost involved towards options, accessories, spares and consumables for operating the system at least for Five years from the date of expiry of guarantee/warranty. A list of spares should be attached along with its cost/prices.

10. DELIVERY PERIOD

a. The ENVIOREMENTAL TEST CAHMBER Compete in all respect as per above mentioned in a single consignment should be delivered at the site/ consignee **within 6 months** from the date of issue of confirmed supply order .

11. INSPECTION

- a. The supplier should satisfy himself/herself that the “ Environmental Chambers “ test station and its spares fully conforms to the specifications by carrying out complete pre-inspection of each component before dispatch.
- b. Scientist / Technical Staff of NISE may be allowed to visit factory before dispatch of the Environmental Chambers.

12. CONSIGNEE: The Director General, National Institute of Solar Energy, Gurugram – Faridabad Road ,Gwal Pahari , Gurugram – 122 003, Haryana, India , Tel: +91 124 - 285 3088 / 285 3089/ 257 9084.

.13. GUARANTEE/WARRANTY: System/Spares supplied should be covered by standard terms of warranty for a period of 12 months from the date of installation or 18 months from the date of delivery, whichever is earlier for manufacturing defects/performance.

14. PENALTY

(i.) The supplier shall supply the stores in accordance with the particulars as expressly specified at the time/times and at the place/places only.

(ii.) The time for and the date of the stores stipulated shall be deemed to be the essence of the supply/work order.

(iii.) If the supplies are not completed within the period prescribed, the supply order will be liable to be cancelled at the risk and cost of the contract besides forfeiting the Earnest Money Deposit.

(iv.) If for any reason the contractor is unable to adhere to the contract delivery dates, he may seek extension in delivery/completion dates well in time by sending a request in writing in this regard to the office issuing the contract/supply order. The purchaser reserves the right to allow the extension of delivery period subject to such conditions as he may think fit. However, the decision of the purchaser shall be final and binding.

15. DISPUTES

In case of any dispute the decision of DG National Institute of Solar Energy will be final and binding on both parties. Further dispute, if any will be settled in the Court of Law at Gurugram jurisdiction only.

16. VALIDITY

Tenders should be valid for 180 days from the date of opening.

17. REJECTION

Incomplete, conditional, fax, late tenders and tenders without EMD will be rejected summarily. DG, NISE reserves the right to reject any or all the tenders at his discretion without assigning any reason whatsoever.

18. Custom Duties and clearing charges: As per Notification No.51/96- customs dated 23rd July 1996 (as amended by Notification No. 28/2003 dated 01.03.2003 & Notification No. 43/2017 dated 30.06.2017) and as amended from time to time for research purpose only Being the purchases for scientific purpose, NISE is entitled for availing customs Duty exemption at present, wherever applicable, and as per rules will be issued at the appropriate time. Hence Customs Duty for such items should not be included in the Price Bid. However, except to the extent not exempted Custom Duty may be indicated.

19. Performance Guarantee: Performance Guarantee shall be provided against warranty for a period of up to one (01) year for 10% of contract value.

20. Performance Security: Performance Security should be for an amount of 10% (Ten per cent) of the value of the contract in the form of account payee Demand Draft/ Fixed Deposit Receipt from a commercial bank/ Bank Guarantee from a Commercial Bank in an acceptable form to NISE, Gurugram for a period of 60 (Sixty) days beyond Warranty period.

21. Payment:

a. Foreign supplier: 90% through Letter of Credit against bank documents. All expenses towards this outside the country will be in the scope of the vendor. Remaining 10% will be released after testing, commissioning and acceptance of the system /equipment to the entire satisfaction of the Purchaser and on production of performance bank guarantee of the amount of 10% of the Contract Value which will be retained for a period of warranty as given in column in clause 13.

b. Indian Supplier: 80% of the payment shall be released via electronic transfer upon Completion of testing, commissioning and acceptance of the system /equipment Report by the NISE Committee, and the remaining 20% shall be released upon completion of 1 year period of Warranty from the date of commissioning). The bidder has the option of availing up to 50% of the contract value as mobilization advance against submission of Bank Guarantee for the same amount.

22. SUBMISSION OF TENDERS:

a. Sealed tenders should be submitted in two parts i.e. Part-I containing Technical competence/literature along with Demand Draft for EMD, and Part-II containing only commercial invoice in a separate sealed envelope, superscribed as commercial bids. Both the envelope containing Technical and Commercial bids should be kept in a large sealed envelope which may be super-scribed as "Tender for design, engineering, manufacture, supply, installation and commissioning of 3 Nos. Environmental Test chamber with accessories at NISE Gurugram " due for opening on 26th Feb 2018 and The tenders should be reach to the following address on or before last date .

The Director General
National Institute of Solar Energy
Gurugram – Faridabad Road
Gwal Pahari, Gurugram – 122 003, Haryana, India.
Tel: +91 124 - 285 3088 / 285 3089/ 257 9084.

b. Tenders can be also deposited within time in the Tender Box kept at the reception of Surya Bhawan of NISE Campus.

23. IMPORTANT DATES

a. Last date for sale of tender document at NISE, Gurugram **26th Feb 2018.**

- b. Closing time and date of receipt of tenders at NISE, Gurugram **01 PM on 26th Feb 2018 .**
 - c. Opening of Technical Bids at **3 PM ON 26th Feb 2018**
 - d. Opening of Financial Bids of technically qualified tenders will be (tentatively) on **28 Feb 2018, 3.00PM.** In case of any delay the same will be informed to the bidders.
24. It may please be ensured that the main tender envelope should be clearly super-scribed – Tender for “Environmental Chambers “and due for opening on **26th Feb 2018.**

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

Annexure- 1

F.No.03/02/015/NISE-PVTF

Commercial Terms (to be enclosed with Techno-Commercial Bid)

Sl. No	Particulars	Bidders Confirmation (please write accepted ,if accepted T&C)
1.	Scope of Supply please refer clause 5	
2.	Tender technical specification please refer clause 7&8.	
3.	Delivery period please refer clause 10	
4.	Inspection please refer clause 11	
5.	Consignee please refer clause 12	
6.	Gaurantee / warranty please refer clause 13	
7.	Penalty Clause please refer clause 14	
8.	Disputes please refer clause 15	
9.	Validity as per clause 16 -	
10.	Rejection terms as per clause 17	
11.	Custom Duty and clearing charges as per clause 18	
12.	Performance Guarantee as per clause 19	
13.	Performance Security as per clause 20	
14.	Payment terms as per clause 21	
15.	Proof of income Tax Assessment /Return for last three financial years (2014-215, 2015-16, 2016-17).	

Signature of Tenderer with seal

Annexure- 2

F.No.03/02/015/NISE-PVTF

FORMAT FOR SUBMISSION OF SUPPLIER DETAILS

1.	Name of supplier	
2.	Registered Address	
2.	Phone No	
	Fax NO	
	Name of proprietor/CEO/ Chairman	
	Phone no/Mobile No	
	Email ID	
3.	Factory Address	
	Phone no	
	Fax no	
	Email ID	
4.	Delhi/NCR Address if any	
	Phone no	
	Fax no	
	Email ID	
5.	Correspondence Address	
6.	Name of contact Person	
	Designation	
	Phone no / Mobile No	
	Fax no	
	Email ID	
7.	Website	
8.	Bank related information	
	Bank name	

	Branch name	
	Bank address	
	Bank phone no.	
	Bank fax no.	
	Bank MICR Code (9 digit)	
	RTGS-IFC Code	
	Account type	
	Account no	
9.	PAN NO	
10	GST , PAN/TAN & TIN number of firm	

I certify that the information given herein is correct to the best of my knowledge and belief.

Signature of Proprietor/CEO/Chairman Seal of the company/concern.

PERFORMA FOR FINANCIAL BID

NIT No.03/02/015/NISE-PVTF

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

Subject: Sealed tenders from reputed manufacturer / authorized supplier for design, engineering, manufacture, supply, installation and commissioning of 3 Nos. Environmental Test chamber accessories at NISE Gurgaon, Haryana India from conducting the Damp heat, humidity freeze & Thermal Cycling test on PV modules- NIT No.03/02/015/NISE-PVTF

Sir,

With reference to your Tender Notice (NIT) NO 03/02/015/NISE-PVTF , dated 5th Feb 2018, I quote the following rates , including all taxes and duties , for the work mentioned below :-

Sr. No	Items Description	Unit	Unit price(Rs /USD/EURO)	Total Price	Taxes/Duties/Freights applicable (Please indicate separately)			Total Amount (including Taxes/ duties)
					Taxes	Duties	Freight	
1	Environmental Chambers	03						
2.	Accessories with the Environmental Chambers							
3.	AMC Charges for two Year period (after completion of warranty period Year.							
3.	Extendable AMC for additional 3 years							
4.	Installation and commissioning charge							
5	Training of NISE staff Charge							
	Total							

Total Amount (in words)

Sr. No	List of Critical Spare parts consume for Five years	Unit	Unit price(Rs /USD/EURO)	Total Price	Taxes/Duties/Freights applicable (Please indicate separately)			Total Amount (including Taxes/ duties)
					Taxes	Duties	Freight	
1								
	Total							

Total Amount (in words)

I /We hereby declare and firm that I/We have read and understood the terms and conditions of the contract as stipulated in the Tender Notice No .-----Dated -----.
Accordingly, I/We accept the terms and conditions and hereby offer rates for the work as indicated above.

Signature of authorized signatory: _____

Name of the Representative Submitting the Bid:

Designation:

Company Seal and Date

Annexure- 4

F.No.03/02/015/NISE-PVTF

Performance Statement Form of similar or superior type Environmental chambers

Name of Bidder: _____

Order No. & Date	Client	Contact person/ Phone	Description & quantities of ordered items	Value of order	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. Minimum 3 Customers

Signature and seal of the Bidder Date

Annexure- 5

Bank Guarantee Format for Bid Security / EMD

Bank Guarantee No.

Bank Guarantee Amount: **Rs 6,00,000/-**

Bank Guarantee Cover from: / / 2018 to // 2018

Last Date of lodgement of Claim: / / 2018

FINIANCIAL BANK GUARANTEE

To

The Director General
National Institute of Solar Energy
Gurgram – Faridabad Road
Gwal Pahari; Gurugram – 122 003
Haryana

Subject: Tender for design, engineering, manufacture, supply, installation and commissioning of 3 Nos. Environmental Test chamber accessories at NISE Gurgaon, Haryana India form conducting the Damp heat, humidity freeze & Thermal Cycling test on PV modules.

Dear Sir / Madam,

Whereas M/s (here in after called the “Tenderer”) has submitted their offer dated for the **design, engineering, manufacture, supply, installation and commissioning of 3 Nos. Environmental Test chamber accessories at NISE Gurgaon, Haryana India** (hereinafter called the “**Tender**”) against the Purchaser’s Tender enquiry No. **F.No.03/02/015/NISE-PVTF**). KNOW ALL MEN by these presents that WE of

..... having our registered office at..... are bound unto **M/s National Institute of Solar Energy, Gurugram** (hereinafter called the “**Purchaser**”) in the sum of **Rs 600,000/- (Indian Rupees Six Lakh Only)** for which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this day of 2018.

THE CONDITIONS OF THIS OBLIGATION ARE:

- 1) If the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.

- 2) If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-
 - a) If the tenderer fails to furnish the performance security for the due performance of the contract.
 - b.) Fails or refuses to accept/execute the contract.

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing the occurrence of one or both the two conditions, specifying the occurred condition or conditions. This guarantee will remain in force up to and including 45 days after the period of tender validity and any demand in respect thereof should reach the bank not later than the above date. Signature of the authorized officer of the bank Name and designation of the officer Seal, name and address of the Bank and address of the Branch.

“Not withstanding anything contained herein;

- Our liability under this Bank Guarantee shall not exceed Rs 6,00,000/- (Indian Rupees Six Lakh Only).

- This Bank Guarantee shall be valid up to / / 2018.

- We are liable to pay the guarantee amount or any part thereof under this Bank

Guarantee only if you serve upon us a written claim or demand on a before / /

2018 (date of expiry of Guarantee). ”

Banker's Authorized Representative(s)

Date:

Place:

Annexure- 6

Bank Guarantee Format

PERFORMANCE BANK GUARANTEE

National Institute of Solar Energy
Gurugram - Faridabad Road
Gwal Pahari
Gurugram – 122 003, Haryana

Bank Guarantee No.
Dated :

This deed of Guarantee is made on the day of _____ (*write name of the month*), 20 by _____ (*Write Bank name which is giving Bank Guarantee*), having branch office at _____ (*Write Bank Branch Office address*), (hereinafter called "**the Bank**"), which expression shall unless repugnant to the context and meaning thereof includes its legal representatives, successors and assignees and National Institute of Solar Energy, having their office at Gurugram - Faridabad Road, Gwal Pahari, Gurugram – 122 003, Haryana (hereinafter called "**the NISE**") which expression shall unless repugnant to the context and meaning thereof includes its legal representatives, successors and assignees.

Whereas NISE has awarded a supply contract bearing No. _____ (Purchase Order or Work Order No) dated _____ to M/s _____ (*Write the Supplier Company Name here*), having their Registered office at _____ (Write Company Regd office address), (here in after referred as "**the Supplier**") for _____ (Write the description of the *Purchase Order / Work Order*) as per the said order.

AND whereas, the **Supplier** has agreed to submit a Performance Security in the form of a Bank Guarantee for Rs. _____ (Rupees _____ Only) to the NISE as per the Contract

valid upto / /20 .

The **Supplier** has agreed to perform or fulfil the contract as per terms and conditions of the said order. In case, the Supplier fails to perform or fulfil the contract as per the said order, the NISE is entitled to demand an amount equal to Rs. _____ (Rupees _____ Only) from the

Supplier.

We, _____ (Bank Name), do hereby undertake and Guarantee to make payment to the NISE a sum of Rs. _____ (Rupees _____ Only) in case the **Supplier** fails as per the said order.

Whereas, Bank's liability under this Bank Guarantee is restricted to Rs. _____ (Rupees _____ Only) and it will remain valid till / / 20 . Unless a claim or demand in writing is made against us under this Guarantee before that date, all rights of the NISE under this Bank Guarantee shall be forfeited and the Bank shall be relieved and discharged from all liability thereunder. This guarantee shall automatically stand cancelled after the date of expiry as stated above notwithstanding the fact that the original guarantee document is returned to us by you or not.

NOTWITHSTANDING ANYTHING CONTAINED HEREIN :-

d) Our liability under this Bank Guarantee shall not exceed to Rs. _____ (Rupees _____ Only).

e) This Bank Guarantee shall be valid upto // 20 .

f) The Bank is liable to pay the Guarantee amount or any part thereof under this Bank Guarantee only and only if you serve upon a written claim or demand on or

before / / 20 .

Place.....
.... Signature

Date.....
. Bank Seal

Bank Code No.

