

**EXPRESSION OF INTEREST FOR GRID CONNECTED SOLAR ROOF TOP PLANT**

**A. SCOPE OF WORK:**

The location and site details for the proposed Grid Connected approx 1000 Kilo Watt Solar Roof Top Plant on CAPEX model - Bifacial Crystalline Model:

**Address:** National Forensic Sciences University, Gandhinagar  
Sector 9, Postal Pin:- 382007

**Location:** All building Block Roof Top

NFSU, Gandhinagar intends to develop Grid Connected 1000 Kilo Watt Solar Roof Top Plant for which the requisite space in roof top will be provided by the Institute. The institute is desirous of drawn power from the CAPEX model - Bifacial Crystalline Model.

The vendors should visit the site and make an assessment of the job before making the presentation of their solutions based on the availability of the space.

**B. ELIGIBILITY CRITERIA:**

- Minimum Five years experience in the field of design, supply, and installation. testing and commissioning and operation of one 100 kilo watt plant or two 75 Kilo watt plant or three 50 kilo watt solar power plant till date under **Bifacial Crystalline Model** and completion/ ongoing work certificate in respect of similar kind of work in last one year.
- Only manufacturer(s) or their sole authorized distributor/agent of Solar PV Module approved by Ministry of New and Renewable Energy (MNRE) are eligible to participate. Certificate of Manufacture or Authorized Distributor letter or Authorization letter from Original Equipment Manufacturer (OEM) must be submitted with the EoI documents.
- The bidder must be registered with the Ministry of New and Renewable Energy (MNRE)/State Nodal Agency (HIMURJA). Registration certificate to be provided along with the EoI documents.
- Bidder must have an average annual turnover of **Rs.50/- lakh** in any one of **the last 05 financial years**. Documentary evidence in the form of Audited Financial

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Barikhera Bonder,  
P. O. Bairagarh Kalan,  
Bhopal-462 030 (MP)  
Ph: 7552995271  
Email: director\_bhopal@nfsu.ac.

Statement duly certified by chartered accountant must be submitted to substantiate the claim of the minimum annual turnover.

- e) Organizational chart indicating the qualification and experience of persons.
- f) List of work done in the field of Solar Power Plant in the last Five years, clearly indicating relevant details like capacity and location, execution time, years to set up, scope of work and name and address of the owner.
- g) List of plants which can be visited by NFSU, Gandhinagar pursue to obtain feedback information about the owner.
- h) Solvency certificate minimum of Rs.50/-lakh in prescribed format (Annexure-III) is required from any schedule bank.
- i) Proof of registration of bidder under relevant law, such as companies act, and/or Shops and Establishment Act or Trade license from appropriate authority etc.
- j) All applicants should submit along with their EoI, copies of PAN card and GST registration certificate.
- k) A Certificate (Affidavit) to be signed by MD/CEO of the company that the Company has not debarred or blacklisted for any services, supplies or products dealing in, by any organizations or educational institute/University or State/Central Government and no criminal case/legal proceeding or Industrial dispute is pending or contemplated against them.

**C. MODE OF SUBMISSION:**

The EoI document with minimum details as mentioned above should be sent in a sealed envelopes super scribing "Expression of Interest for Grid Connected 1000 Watt Solar power plant on Bifacial Crystalline at NFSU, Gandhinagar " shall reach the office of the Registrar at the following address on or before 5:00 PM of 07/03/2024.

**Campus Director  
National Forensic Sciences University,  
Sector 9, Gandhinagar, 382007**

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**D. RIGHT OF ACCEPTANCE:**

a) NFSU, Gandhinagar reserves the right to accept/reject/withdraw the bid without assigning any reason.

**E. BUILDING NAME AND AREA:**

a) If you're planning to organize a pre-bid meeting, be sure to get in touch with the **Assistant Registrar (Admin), Electrical Engineer, and Civil Engineer** at The National Forensic Sciences University in Gandhinagar.

b) Attached herewith is the annexure - A. containing information about the available space in NFSU, Gandhinagar for the solar rooftop.

**F. JURIDICTION:**

a) In case of any dispute, the jurisdiction of Gandhinagar courts shall apply.

**National Forensic Sciences University, Gandhinagar**

**Annexure - A**

Sr. No.	Building Name	Area in Sq. meter
1	Auditorium between auditorium and admin building	1371.547
2	Admin Building And Admin Lobby Terrace	1383.52
3	IRD Building	1178.84
4	IFS Seminar Building	1392.49
5	IBS Building	1016.66
6	Ballistic Range Center – NFSU	1177.82
7	International Guest House	1040.46
8	Training & Library Building	1446.36
9	Canteen Building	901.15
<b>Total area in Sq. meter</b>		<b>10908.847</b>

  
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**Schedule of work**

**Name of work:-** SITC of Grid interactive Roof Top Solar power Generation system at various buildings  
in NFSU, Gandhinagar.

Sr.No.	Description Of Items	Qty	Rate	Amount
<b>01</b>	Supply, Installation, Testing and Commissioning of ongrid Solar Photovoltaic Power Plant conforming to MNRE specifications as amended, consisting of Bifacial Crystalline silicon solar cells, net metering (Bi directional) facility, necessary protections, earthing, mounted on Aluminium/GI structure of suitable strength with following components complete as required:-			
	a) Power Conditioning Unit (PCU) of 350-800 V DC Input voltage range and 400 V AC, three phase, 4 wire, 50Hz +/- 2.5 Hz, output voltage suitable to generate AC Power with efficiency not less than 97%, total harmonic distortion less than 3% and suitable for ambient temperature from 0 to 50 degree C. The PCU shall adjust the voltage and frequency level to suit the Grid Voltage Frequency.			
	b) Solar Photovoltaic Module of capacity 540 Wp or above, manufactured in India, conforming to IS 14286/IEC 61215, IS/IEC 61730-Part-1, IS/IEC 61730-Part-2. Solar Photovoltaic Module conversion efficiency shall not be less than 16.5%. PV modules used in solar power plants/ systems must be warranted for their output peak watt capacity, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years.			
	c) Data Monitoring System complete with accessories.			
	d) Fixing of Array junction box & Main junction box with IP 65 protection and termination arrangement for incoming and outgoing cable along with glands, lugs and other accessories etc. as required.			
	e) Lightning and surge voltage protection.			
	f) Connections & Interconnections by supplying & fixing required size XLPE Insulated copper conductor 1.1 KV grade armoured power and control cables between solar modules, main power cable to grid supply PCU unit along with supplying & fixing of necessary channel/conduit lugs accessories etc. as required.		1008.00	
<b>02</b>	Supplying and laying of following size DWC HDPE, pipe ISI Marked, along with all accessories like socket, bend, couplers etc conforming to IS 14930, Part I] complete with fitting and cutting, jointing etc direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc complete as required			
<b>2.1</b>	63 mm dia		600.00	
<b>03</b>	Supplying and Laying One number 3 phase 95 sq. mm to 120 sq. mm PVC insulated and PVC sheathed / XLPE aluminum armoured power cable of 1.1 KV grade of following size in the surface/ground/existing RCC/HUME/METAL pipe complete with testing / Commising etc as required		700.00	
	<b>Total</b>			

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**Solvency Certificate**

[Format for Solvency Certificate]

To,  
The Campus Director  
National Forensic Sciences University,  
Gandhinagar, 382007

Solvency Certificate

This is to certify that to the best of our knowledge and information  
M/S..... (address) .....a customer of

Our bank is respectable and be treated as good for an engagement up to a sum of Rs.

(Solvency amount)..... Only as  
on..... (Date of Certificate).

This certificate has been issued without any risk and responsibility on the part of the  
Bank or any of its officers. This certificate is issued at the specific request of the  
customer.

Yours Faithfully.

For..... Bank

Designation:

Signature of Bank Officer: