



# राष्ट्रीय सौर ऊर्जा संस्थान

(नवीन और नवीकरणीय ऊर्जा मंत्रालय, भारत सरकार का एक स्वायत्त संस्थान)

## National Institute of Solar Energy

(An Autonomous Institute of Ministry of New and Renewable Energy, Govt. of India)

गुरुग्राम - फरीदाबाद मार्ग, ग्वाल पहाड़ी, गुरुग्राम - 122003, हरियाणा, भारत

Gurugram - Faridabad Road, Gwal Pahari, Gurugram - 122003, Haryana, India

### Service Request Form: 6.2 (Solar Cell LeTID Sensitivity Testing)

|    |  |      |
|----|--|------|
| 1. | File No. (To be filled by office)                                  |      |
| 2. | Job No. (To be filled by office)                                   |      |
| 3. | Requested By<br>(Name)   |      |
|    | Address of Company /Individuals (in<br>Capital letters)            |      |
|    | Contact Details-<br><br>Email id:<br>Mobile:<br>Landline:          |      |
|    | PAN:   | GST: |
| 4. | a) Manufactured By   |      |
|    | b) Date of Submission of Samples                                   |      |
|    | c) Condition of samples on receipt                                 |      |
|    | d) Testing procedure / Standards                                   |      |
|    | e) Services and type of test<br>requested                          |      |
| 5. | Name of Authorized Contact Person<br>with Mobile Number, Email id: |      |



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We hereby place an order on you for the services and type of test required as described below:

Crystalline silicon/Thin film solar cell for LeTID sensitivity testing of solar cell as per customer specifications:

| Sr. No | Description                     | Fees per sample (Rs.) | No. of samples | Total |
|--------|---------------------------------|-----------------------|----------------|-------|
| 1      | LETID Solar cell:<br>One cycle* | 42,750                |                |       |
|        | Two cycle*                      | 71,850                |                |       |
|        | Three cycle*                    | 1,00,950              |                |       |
|        |                                 |                       | Sub Total      |       |
|        |                                 |                       | GST            |       |
|        |                                 |                       | Grand Total    |       |

\*The tentative period for LeTID sensitivity testing of solar cell as per customer specifications is 19 days from the date of submission for one cycle of stress, 33 days for two cycles of stress and 45 days for three cycles of stress.



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### Testing Fees Details:

|                                |  |
|--------------------------------|--|
| Name & address of issuing bank |  |
| Name of the test               |  |
| Bank Draft No. & Date          |  |
| Bank Name                      |  |
| Total Amount (Rs)              |  |

**Declaration:** This is to certify that the information furnished in the service request form is true to the best of my knowledge and belief. National Institute of Solar Energy or its authorized nominee will be free to visit our works in order to assess the details provided above by giving advance notice in writing. We also accept the terms and conditions of the National Institute of Solar Energy annexed with this order.

**Date:**

**Place:**

**Signature with Seal**

**Important Note:** To be signed by the Company authority or Officer, not below the rank of G.M. / Equivalent.



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Gurugram - Faridabad Road, Gwal Pahari, Gurugram – 122003, Haryana, India

### General Terms & Conditions

1. One report will be issued to the customer for the test (s) conducted by NISE.
2. The report shall contain all the parameters measured at NISE along with the parameters required as per the specified standards/ MNRE specifications and claims made by the manufacturer for the test sample.
3. The report contains the following disclaimer:
  - a) This report is for the measurements carried out on the product/samples no. \_\_\_\_\_ at the NISE.
  - b) The sample has been selected and submitted by the customer.
  - c) The data contents in this report do not constitute a qualification certificate under any set of specifications.
  - d) The measurements made and results reported in this test report are valid at the time of and under stipulated conditions of measurement.
4. The test report if reproduced for any purpose, commercial or otherwise, should be reproduced in full. Reproduction of a part of the report or an abstract thereof is not permitted.
5. For identification purpose, all material supplied to the NISE for the testing purpose shall be marked clearly and indelibly as per the standard.
6. NISE shall not be responsible for any loss or damage caused to the sample during testing.
7. This test report is not a legal document and is not valid for any kind of legal formalities.
8. The tested sample shall be collected by the customer within 90 days of issue of the test report. After the above said period, NISE is not obliged to return the sample.

### Declaration /Undertaking:

I have read the above mentioned General Terms and Condition carefully and agree with the same.

**Date**

**Signature with Seal**

**Place**

**Important Notes:** To be signed by the Company authority or Officer, not below the rank of G.M /Equivalent



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Gurugram - Faridabad Road, Gwal Pahari, Gurugram – 122003, Haryana, India

### Data required by Test Lab.

|     |  |        |
|-----|--|--------|
| 1.  | File No. (Generated by NISE)   |        |
| 2.  | Job No. (Generated by NISE)  |        |
| 3.  | Solar cell Details   |        |
| 4.  | <b>Solar Cell parameter</b><br>a. Length in mm X Breath in mm (Area in mm <sup>2</sup> )<br>b. Number of bus bars in each cell<br>c. Nominal open circuit voltage (V)<br>d. Serial No. of PV Cells (As provided by the customer)<br>e. Other electrical parameter: |        |
| 5.  | Date of Submission of Samples  |        |
| 6.  | Condition of samples on receipt  |        |
| 7.  | Testing procedure/ Standards   |        |
| 8.  | Services and type of test requested  |        |
| 9.  | Pass/ fail declaration in the report required  | Yes NO |
| 10. | Customer wants to take sample back after testing   | Yes NO |

**Declaration:** This is to certify that the information furnished in the service request form is true to the best of my knowledge and belief.

Date:

Place:

Signature with Seal



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**Information required by Test Lab.**

**Sample Details:**

| Sr. No | Make (Name of Manufacturing Company) | Type/model | Make of year | Serial No. |
|--------|--------------------------------------|------------|--------------|------------|
| 1      |                                      |            |              |            |
| 2      |                                      |            |              |            |
| 3      |                                      |            |              |            |

**Details of the test conducted by Manufacturer (Enclose test results if available):**

| Sr. No | Description of Test | Remarks |
|--------|---------------------|---------|
|        |                     |         |
|        |                     |         |
|        |                     |         |

**Declaration:** This is to certify that the information furnished in the service request form is true to the best of my knowledge and belief.

**Date:**

**Place:**

**Signature with Seal**

**Important Note:** To be signed by the Company authority or Officer, not below the rank of G.M. / Equivalent.



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### CHECK LIST (for Form No. 6.2)

**Note:** For submitting the Crystalline silicon/Thin film solar cell for LeTID sensitivity testing of solar cell as per customer specifications (LeTID Testing for 162 Hours i.e. one cycle at 75°C temperature and current Isc-Imp) at NISE, the following Check – List is required to be satisfied.

| Sr. No. | Particulars   | Annexure | Page From | Page To |
|---------|---|----------|-----------|---------|
| 1.      | Three solar cells needs to be submitted.<br>Each solar cell should connected with extended ribbons in the both side.<br>Diagram of solar cells with details about the contacts, junctions and materials             |          |           |         |
| 2.      | Order Form duly filled along with the format  |          |           |         |
| 3.      | IV data if available  |          |           |         |
| 4.      | Details of the Modules, including type of cells.  |          |           |         |
| 5.      | (A) Self –Attested copy of Manufacturer SSI Registration/NSIC/MSME/ Acknowledgement from District Industrial Centre.<br>(B) Registration Certificate as per Companies Act 1956 or Form No. 61<br>(C) PAN<br>(D) GST |          |           |         |
| 6.      | Acceptance to the General Terms & Conditions  |          |           |         |
| 7.      | Request letter for Sample Submission / Collection with the information of authorized Person / Employee of Company (with Photo-ID Card proof)  |          |           |         |

**All the documents submitted by the company should be certified by the competent authority.**

**Date:**

**Place:**

**Signature with Seal**

**Important Note: -**

- To be signed by the competent authority or by an officer, not below the rank of G.M./Equivalent.
- The sample will be received at the Customer Service Cell of NISE till 04:00 PM on any working day.