

NATIONAL INSTITUTE OF SOLAR ENERGY

(An autonomous institute of Ministry of New & Renewable Energy, Government of India)

Village & Post-Gwalpahari, Dist-Gurgaon, (Haryana), Pin – 122003.

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ORDER FORM No-02

FLAT PLATE COLLECTOR (FPC) BASED SOLAR WATER HEATING SYSTEM

From: -

Company (*Please write complete Postal address*)

Sir

We hereby place an order on you for the services as described below:

S.NO.	Description	Collector Area (sq.m.)	Capacity (LPD)	No. of samples	Test Fee per sample (Rs)	Total (Rs)
1.	FLAT PLATE COLLECTOR BASED SOLAR WATER HEATING SYSTEM				10000/- (plus service tax @12.36% extra)	

1. A Bank Draft No. _____ dated _____ for Rs. _____ in favour of **National Institute of Solar Energy (NISE)** payable at **Gurgaon** drawn on _____ is enclosed towards the Test Fee for the sample(s).
2. We hereby submit the general specifications of the test sample as per **Annexure -I** (enclosed).
3. We hereby provide list of **components to be submitted along with Test sample** as per **Annexure -II** (enclosed).

4. Test Sample along with **Annexure-I** including the demand draft be handed over to the **Customer Service Cell** (Room No.A-12) at National Institute of Solar Energy, Gwal Pahari , Gurgoan.

5. We accept **general terms and conditions** enclosed with this **ORDER FORM NO-02**.

Signature of authorized person

Name (*Capital Letters*):

Designation:

Seal of the Company:

Dated:

For office use only

Date & time of Receipt:

Inspected By:

Remarks if any:

Sample Identification Number (I.D.)

Signature of Receiving Authority:

ANNEXURE I

INFORMATION ON FLAT PLATE COLLECTOR (FPC) BASED SOLAR WATER HEATING SYSTEM

A. GENERAL

NAME & ADDRESS OF MANUFACTURER/SUPPLIER/IMPORTER	
REGISTRATION NO.	
CONTACT DETAILS OF: I. E-MAIL II. WEBSITE III. PHONE NO (Office, Works/Factory) IV. MOBILE NO)	
DETAILS OF COLLABORATOR (IF ANY) I. NAME & ADDRESS OF COLLABORATOR II. NAME OF THE COMPONENT BEING IMPORTED	

B. SPECIFICATIONS OF THE TEST SAMPLE

(ALL DIMENSIONS ARE IN MM, UNLESS SPECIFIED OTHERWISE)

B1. SYSTEM DETAILS

MAKE/MODEL	
SERIAL NO.	
DATE/MONTH/YEAR OF MANUFACTURING	
SYSTEM CAPACITY (lpd)	
TECHNOLOGY (Forced Circulation, Thermosyphon)	

B2. COVER PLATE

MATERIAL	
GLASS THICKNESS	
SOLAR TRANSMITTANCE OF GLASS AT NEAR NORMAL INCIDENCE	
GROSS AREA	

B3. COLLECTOR BOX

MATERIAL	
GROSS AREA OF COLLECTOR	
APERTURE AREA OF COLLECTOR	
GENERAL FINISH	

B4. ABSORBER

MATERIAL	
THICKNESS	
GAP BETWEEN COVER PLATE & ABSORBER	
COATING	
ABSORPTIVITY	

B5. RISER

MATERIAL	
NUMBER OF RISERS	
DIAMETER	
TYPE OF BONDING WITH RISER AND SHEET	
TYPE OF BONDING WITH RISER AND HEADER	
STATIC PRESSURE WITHSTAND	

B6. HEADER

MATERIAL	
DIAMETER	
MATERIAL OF COUPLING	

B7. COLLECTOR BOX INSULATION

MATERIAL	
COEFFICIENT OF THERMAL CONDUCTIVITY AT 25°C	
THICKNESS	

B8. GASKET & GROMMETS

MATERIAL	
THICKNESS	

B9. STORAGE TANK

MATERIAL & THICKNESS OF OUTER CLADDING	
MATERIAL & THICKNESS OF INSULATION	
MATERIAL AND THICKNESS OF INNER TANK	
CAPACITY (LITERS)	
A. WITHOUT TAKING INTO ACCOUNT WATER IN THE RISERS	
B. TAKING INTO ACCOUNT WATER IN THE RISER	
HEIGHT OF THE BOTTOM OF THE STORAGE TANK FROM TOP OF THE COLLECTOR BOX	

B10. CONNECTING PIPES (WHERE APPLICABLE)

MATERIAL	
INNER DIAMETER	
INSULATION MATERIAL & THICKNESS	
OUTER DIAMETER OF CLADDING	

B11. SUPPORTING STANDS/FRAME

MATERIAL	
THICKNESS AND OTHER DETAILS	
EPROXY/ANTI CORROSION COATING	

C. TEST REPORT

COPY OF TEST REPROT (IF ANY)	
TWO PHOTOGRAPHS OF SAMPLE	

D. TESTING FEE DETAILS

NAME & ADDRESS OF THE ISSUING BANK	
BANK DRAFT NO. & DATE	
AMOUNT (Rs.)	

E. ANY OTHER INFORMATION

Declaration

This is to certify that the above-furnished information is true to the best of my knowledge and belief. The 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 an advance notice in writing.

Date

Place:

Signature with Seal

NB: *To be signed by officer not below than rank of G.M./Equivalent.*

ANNEXURE II

LIST OF COMPONENTS TO BE SUBMITTED ALONG WITH TEST SAMPLE

1. A fully assembled unit of Flat Plate Collector (FPC) based Solar Water Heating System.
2. Sample of insulation material used in Collector Box.
3. Sample of insulation material used in storage tank.
4. A manufacturer certificate in respect of R-value of insulation material.
5. One piece of washers, Gasket.
6. A copy of instruction manual containing information on instruction for installation, repair & maintenance, common failure and safety precautions.

GENERAL TERMS AND CONDITIONS

1. The manufacturer/supplier should supply and install the system on the test bed as per the specifications and to the satisfaction of the testing authority and will take back the system at his own cost after the issue of Test Report within one month.
2. For identification purpose, all components supplied to the NISE for testing purpose shall be marked clearly.
3. National Institute of Solar Energy (NISE) shall not be responsible for any loss or damage caused to the sample if any, during the testing of the system.
4. NISE is only a testing centre and not a certifying authority and the results reported are valid under stipulated conditions of measurements.
5. A copy of the Test Report containing all the parameters measured at NISE as per the MNRE specifications and claims made by manufacturer/supplier will be issued to the manufacturer/supplier/importer.
6. The report contains the following **DISCLAIMER**:
 - (a) This is a Report on measurements carried out on the Samples submitted at National Institute of Solar Energy
 - (b) The TEST REPORT refers only to the sample supplied. The results presented here relate only to the conditions of the measurements at the time of testing.
 - (c) National Institute of Solar Energy does not accept any liability for any consequences including commercial or otherwise arising out of the utilization of the information contained in the Report.
7. Any queries related to this Report will not be entertained after one month of receipt of this report.
8. This Test Report is not a legal document and is not valid for any kind of legal Formalities.
9. The Test Report in full or in part may not be published or advertised or used for any legal action unless prior permission has been secured from this Test Centre.

**CHECKLIST BEFORE SUBMISSION OF TEST SAMPLE OF FLATE
PLATE COLLECTOR (FPC) BASED
SOLAR WATER HEATING SYSTEM**

1. Information duly filled on Annexure-I
2. List of components submitted along with Test Sample as per Annexure-II.
3. Copy of the Registration of the Company as per Registration Act, 1956, joint venture/foreign collaboration etc.