**APPLICATION FORM**

**ETC 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:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Description** | **Capacity****(lpd)** | **Test Fee per sample****(Rs)** | **No. of****samples** | **Total****( Rs)** |
| 1. | Evacuated Tube Based Solar Water Heating System | **Up to 100****100 to 200****200 to 300** | **20,000/-****23,000/-****25,000/-** |  |  |

1. A Bank Draft No. \_\_\_\_\_\_\_\_ dated \_\_\_\_\_\_\_\_\_ for Rs. \_\_\_\_\_\_\_\_\_ in favour of **Sardar Patel Renewable Energy Research Institute** payable at **Anand/ Vallabh Vidhyanagar** drawn on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is enclosed towards the Test Fee for the sample(s).
2. The manufacturer/supplier should submit the general specifications of the test sample as per **Annexure –I** (enclosed).
3. The manufacture/supplier should 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 is handed over to the above mentioned address**.**
5. We accept **general terms and conditions** enclosed with this application.

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 Evacuated Tube Based Solar Water Heating System

1. **GENERAL**

|  |  |
| --- | --- |
| Name & address of manufacturer/supplier/ importer |  |
| Registration no. |  |
| Contact details of:1. E-mail
2. Website
3. Phone no (office, works/factory)
4. Mobile no.
 |  |
| Details of collaborator (if any)1. Name & address of collaborator
2. Name of the component being imported
 |  |

1. **SPCIFICATIONS OF THE TEST SAMPLE**

 (ALL DIMENSIONAL ARE IN MM, UNLESS SPECIFIED OTHERWISE)

**B1. SYSTEM DETAILS**

|  |  |
| --- | --- |
| Make/ model |  |
| Serial no. |  |
| Date/month/year of manufacturing |  |
| System capacity (LPD) |  |
| Technology [all glass direct flow/heat-pipe type/any other (pl. Specify)] |  |

**B2. EVACUATED GLASS TUBE**

|  |  |
| --- | --- |
| Glass tube length  |  |
| Weight of single glass tube (empty) (gm) |  |
| Inner diameter of glass tube  |  |
| Outer diameter of glass tube |  |
| Glass wall thickness |  |
| Center to center distance between two glass tubes |  |
| Number of glass tubes, nos |  |
| Gross area of a single tube, m2 |  |
| Exposed area (gross) of a single tube, m2 |  |
| Gross aperture area of the collector, m2 |  |
| Reflector below the glass tube (provided/not provided)Material  |  |
| Protrusion evacuated tubes into tank |  |
| Details of selective coating |  |

**B3. EVACUATED GLASS TUBE BOTTOM HOLDING CAP**

|  |  |
| --- | --- |
| Material |  |
| Thickness |  |

**B4. STORAGE TANK**

|  |  |
| --- | --- |
| Material and Thickness of Outer Cladding |  |
| Material and Thickness of Inner Tank  |  |
| Material & Thickness of Insulation |  |
| Capacity(Liters)1. Without taking into account water in the tubes/collector
2. With taking into account water in the tubes/collector
 |  |
| Height of hot water withdrawal point from bottom of the tank |  |
| Height of cold water inlet from bottom of the tank |  |

**B5. CONNECTING PIPING (where applicable)**

|  |  |
| --- | --- |
| Material |  |
| Inner diameter |  |
| Outer diameter of cladding |  |
| Insulation material & thickness |  |

**B6. SUPPORTING STANDS/FRAME**

|  |  |
| --- | --- |
| Material |  |
| Thickness and other details |  |
| Eproxy/anti corrosion coating |  |

**B7. RUBBER COMPONENTS**

|  |  |
| --- | --- |
| Material |  |
| Gasket (if any) |  |
| Tube seal inside the tank |  |

 **C. TEST REPORT**

|  |  |
| --- | --- |
| Copy of test report (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 SPRERI 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 the rank of G.M. / Equivalent*

**ANNEXURE II**

**List of components to be submitted along with sample**

1. A fully assembled unit of Evacuated tube based Solar Water Heating System.
2. Two pieces of Evacuated Tube
3. Sample of Glass tube holder
4. Sample of insulation material used in storage tank.
5. A manufacturer certificate in respect of R-value of insulation material.
6. One piece of washers, Gasket.
7. A copy of instruction manual containing information on instruction for installation, repair & maintenance, common failure and safety precautions.
8. Name, logo or symbol of manufacturer.
9. Two photographs of the system.

**GENERAL TERMS AND CONDITIONS**

1. The manufacture/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 Centre for testing purpose shall be marked clearly.
3. SPRERI shall not be responsible for any loss or damage caused to the sample if any, during the testing of the system.
4. SPRERI 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 SPRERI 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**:
7. This is a report on measurements carried out on the Samples submitted at the SPRERI.
8. 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.
9. SPRERI does not accept any liability for any consequences including commercial or otherwise arising out of the utilization of the information contained in the report.
10. Any queries related to this report will not be entertained after one month of receipt of this report.
11. This test report is not a legal document and is not valid for any kind of legal Formalities.
12. 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.

**CHECK LIST FOR EVACUATED TUBE COLLECTOR (ETC)**

**AS PER MNRE NORMS**

1. Information duly filled in **Annexure-I**
2. List of components/information submitted along with the sample as per **Annexure-II**