National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RENEWABLE ENERGY TEST CENTRE, DEENBANDHU CHHOTU RAM UNIVERSITY OF SCIENCE & TECHNOLOGY, MURTHAL, SONIPAT, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8571 **Page No** 1 of 3

Validity 05/07/2022 to 04/07/2024 **Last Amended on** 16/12/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	MECHANICAL- THERMAL TESTS	All Glass Evacuated Solar Collector Tubes	Absorptivity Test of Selective Coating	IS 16543
2	MECHANICAL- THERMAL TESTS	All Glass Evacuated Solar Collector Tubes	Air Pressure Test Inside the Vacuum Jacket	IS 16543
3	MECHANICAL- THERMAL TESTS	All Glass Evacuated Solar Collector Tubes	Average Heat Loss Coefficient Test	IS 16543
4	MECHANICAL- THERMAL TESTS	All Glass Evacuated Solar Collector Tubes	Emissivity Test of selective coating	IS 16543
5	MECHANICAL- THERMAL TESTS	All Glass Evacuated Solar Collector Tubes	Resistance to Impact Test	IS 16543
6	MECHANICAL- THERMAL TESTS	All Glass Evacuated Solar Collector Tubes	Resistance to Internal Pressure Test	IS 16543
7	MECHANICAL- THERMAL TESTS	All Glass Evacuated Solar Collector Tubes	Resistance to Thermal Shock Test	IS 16543
8	MECHANICAL- THERMAL TESTS	All Glass Evacuated Solar Collector Tubes	Stagnation Performance Parameter Test	IS 16543
9	MECHANICAL- THERMAL TESTS	All Glass Evacuated Solar Collector Tubes	Stagnation Solar Irradiance Test	IS 16543
10	MECHANICAL- THERMAL TESTS	All Glass Evacuated Solar Collector Tubes	Vacuum Quality Test	IS 16543
11	MECHANICAL- THERMAL TESTS	All Glass Evacuated Tubes Solar Water Heating System	Exterior Test	IS 16544
12	MECHANICAL- THERMAL TESTS	All Glass Evacuated Tubes Solar Water Heating System	External Thermal Shock Test	IS 16544
13	MECHANICAL- THERMAL TESTS	All Glass Evacuated Tubes Solar Water Heating System	Internal Thermal Shock Test	IS 16544
14	MECHANICAL- THERMAL TESTS	All Glass Evacuated Tubes Solar Water Heating System	Leakage Test	IS 16544
15	MECHANICAL- THERMAL TESTS	All Glass Evacuated Tubes Solar Water Heating System	Pre-Conditioning Test	IS 16544
16	MECHANICAL- THERMAL TESTS	All Glass Evacuated Tubes Solar Water Heating System	Stagnation Test	IS 16544
17	MECHANICAL- THERMAL TESTS	All Glass Evacuated Tubes Solar Water Heating System	Thermal Performance Test	IS 16544
18	MECHANICAL- THERMAL TESTS	Direct Insertion Type Storage Water Tank for All Glass Evacuated Tubes Solar Collector	Ideal Heating Test	IS 16542

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19	MECHANICAL- THERMAL TESTS	Direct Insertion Type Storage Water Tank for All Glass Evacuated Tubes Solar Collector	Leakage Test	IS 16542
20	MECHANICAL- THERMAL TESTS	Direct Insertion Type Storage Water Tank for All Glass Evacuated Tubes Solar Collector	Thermal Shock Test for Inner Sealing	IS 16542
21	MECHANICAL- THERMAL TESTS	Direct Insertion Type Storage Water Tank for All Glass Evacuated Tubes Solar Collector	Thermal Shock Test for Outer Sealing	IS 16542
22	MECHANICAL- THERMAL TESTS	SOLAR COOKER - BOX TYPE	Cover Plate Leakage Test (Upper side of cover plate and Lower side of cover plate)	IS 13429 (Part 3)
23	MECHANICAL- THERMAL TESTS	SOLAR COOKER - BOX TYPE	Creep Test of Handle of Cooker Box	IS 13429 (Part 2)
24	MECHANICAL- THERMAL TESTS	SOLAR COOKER - BOX TYPE	EXPOSURE TEST	IS 13429 (Part 3)
25	MECHANICAL- THERMAL TESTS	SOLAR COOKER - BOX TYPE	Impact Test	IS 13429 (Part 2)
26	MECHANICAL- THERMAL TESTS	SOLAR COOKER - BOX TYPE	LEAKAGE TEST FOR TRAY GASKETS AND COVER PLATE	IS 13429 (Part 3)
27	MECHANICAL- THERMAL TESTS	SOLAR COOKER - BOX TYPE	LOAD TEST FOR FRP BODY COOKER	IS 13429 (Part 1)
28	MECHANICAL- THERMAL TESTS	SOLAR COOKER - BOX TYPE	MIRROR REFLECTIVITY TEST	IS 13429 (Part 3)
29	MECHANICAL- THERMAL TESTS	SOLAR COOKER - BOX TYPE	Performance Test for Cooker Box	IS 13429 (Part 2)
30	MECHANICAL- THERMAL TESTS	SOLAR COOKER - BOX TYPE	RAIN PENETRATION TEST	IS 13429 (Part 3)
31	MECHANICAL- THERMAL TESTS	SOLAR COOKER - BOX TYPE	SENSIBLE HEATING OF WATER TEST (F2)	IS 13429 (Part 3)
32	MECHANICAL- THERMAL TESTS	SOLAR COOKER - BOX TYPE	SLAM TEST OF COVER PLATE AND MIRROR	IS 13429 (Part 3)
33	MECHANICAL- THERMAL TESTS	SOLAR COOKER - BOX TYPE	STAGNATION TEMPERATURE TEST OF TRAY (F1)	IS 13429 (Part 3)
34	MECHANICAL- THERMAL TESTS	SOLAR COOKER - BOX TYPE	Temperature Test	IS 13429 (Part 2)
35	MECHANICAL- THERMAL TESTS	SOLAR COOKER - BOX TYPE	Temperature Test for Paint for Cooking Pot with Lid	IS 13429 (Part 2)
36	MECHANICAL- THERMAL TESTS	SOLAR COOKER - BOX TYPE	Thermal Shock Test for Gasket and Sealant	IS 13429 (Part 2)

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37	MECHANICAL- THERMAL TESTS	SOLAR COOKER - BOX TYPE	Transmittance Test for Cover Plate	IS 13429 (Part 2)
38	MECHANICAL- THERMAL TESTS	SOLAR FLAT PLATE COLLECTOR	EXTERNAL THERMAL SHOCK TEST	IS 12933 (Part 5)
39	MECHANICAL- THERMAL TESTS	SOLAR FLAT PLATE COLLECTOR	IMPACT RESISTANCE TEST	IS 12933 (Part 5)
40	MECHANICAL- THERMAL TESTS	SOLAR FLAT PLATE COLLECTOR	INCIDENT ANGLE MODIFIER TEST	IS 12933 (Part 5)
41	MECHANICAL- THERMAL TESTS	SOLAR FLAT PLATE COLLECTOR	INTERNAL THERMAL SHOCK TEST	IS 12933 (Part 5)
42	MECHANICAL- THERMAL TESTS	SOLAR FLAT PLATE COLLECTOR	OUT DOOR NO FLOW EXPOSURE TEST	IS 12933 (Part 5)
43	MECHANICAL- THERMAL TESTS	SOLAR FLAT PLATE COLLECTOR	RAIN PENETRATION TEST	IS 12933 (Part 5)
44	MECHANICAL- THERMAL TESTS	SOLAR FLAT PLATE COLLECTOR	STATIC PRESSURE LEAKAGE TEST	IS 12933 (Part 5)
45	MECHANICAL- THERMAL TESTS	SOLAR FLAT PLATE COLLECTOR	TEMPERATURE TEST FOR ABSORBER SHEET	IS 12933 (Part 2)
46	MECHANICAL- THERMAL TESTS	SOLAR FLAT PLATE COLLECTOR	THERMAL EFFICIENCY TEST	IS 12933 (Part 5)
47	MECHANICAL- THERMAL TESTS	SOLAR FLAT PLATE COLLECTOR	THERMAL SHOCK TEST FOR GASKETS AND GROMMETS	IS 12933 (Part 2)
48	MECHANICAL- THERMAL TESTS	SOLAR FLAT PLATE COLLECTOR	TIME CONSTANT TEST	IS 12933 (Part 5)
49	MECHANICAL- THERMAL TESTS	SOLAR FLAT PLATE COLLECTOR	TRANSMITTANCE TEST OF COVER PLATE	IS 12933 (Part 2)
50	MECHANICAL- THERMAL TESTS	Thermosyphon Type Domestic Solar Hot Water Heating Systems	Pre-Conditioning Test	IS16368
51	MECHANICAL- THERMAL TESTS	Thermosyphon Type Domestic Solar Hot Water Heating Systems	Static Pressure Leakage Test	IS16368
52	MECHANICAL- THERMAL TESTS	Thermosyphon Type Domestic Solar Hot Water Heating Systems	Thermal Performance Test	IS 16368