

F. No.313-12/5/2019(R&D)
Ministry of New and Renewable Energy
(Standards & Quality Control Division)

Block 14, CGO Complex
Lodi Road, New Delhi-110003

26th March 2019

Subject: Quality Control Order on Solar Thermal Systems/ Devices/Components Goods.

The Ministry of New and Renewable Energy (MNRE) promotes development and deployment of new and renewable energy to address the growing energy needs and climate change concerns of the country. The MNRE has set enhanced target of 100GW for solar power by 2022. Performance testing and standardization is essential to ensure quality and reliability of products. The MNRE has notified the Lab Policy for Testing, Standardization and Certification for Renewable Energy sector. Indian Standards (BIS) have to be followed for quality assurance in renewable energy in the country.

2. A Quality Control Order on SPV Systems under BIS Act is under implementation. The MNRE has decided to bring out a quality control order on Solar Thermal Systems/Devices/Components Goods under BIS Act(Compulsory Registration Scheme) for quality and reliability of these products.

3. Accordingly, a draft Quality Control Order on Solar Thermal Systems/Devices/Components Goods has been prepared as per relevant BIS Act. Enclosed is the said draft order for comments of public and related stakeholders. The comments may please be provided by 8th April 2019 at the following address:

Encl: a/a

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MINISTRY OF NEW AND RENEWABLE ENERGY

ORDER

New Delhi, the.....2019

S. O. - In exercise of the powers conferred by clause (p) of sub section (1) of section 10 of the Bureau of Indian Standards Act, 1986 (63 of 1986) and in pursuance of clause (fa) of rule 13 of the Bureau of Indian Standards Rules, 1987, the Central Government, after consulting the Bureau of Indian Standards, hereby makes the following Order, namely:-

1. Short title and commencement - (1) This Order may be called the Solar Thermal, Systems, Devices and Components Goods (Requirements for Compulsory Registration) Order, 2019.

(2) It shall come into force on the expiry of one year from the date of its publication in the Official Gazette.

2. Definitions - (1) In this Order, unless the context otherwise requires -

(a) "Act" means the Bureau of Indian Standards Act, 1986 (63 of 1986);

(b) "Appropriate Authority" means any officer, not below the rank of Director or Scientist 'F', of the Ministry of New and Renewable Energy or its sub-ordinate or attached offices, authorised by the Secretary, Ministry of New and Renewable Energy, Government of India;

(c) "Goods" means the Solar Thermal Systems, Devices or Components goods specified in the column (2) of the Schedule;

(d) "Rules" means the Bureau of Indian Standards Rules, 1987;

(e) "Schedule" means the Schedule annexed to this Order;

(f) "Series of products" means the products of the same family but varying in sizes or rating or construction;

(g) "Specified Standard" in relation to Goods means the Indian Standard as specified in column (3) of the Schedule.

(h) "Standard Mark" means the Bureau of Indian Standards Certification Mark as specified by the Bureau to represent a particular Indian Standard.

(2) Words and expressions used herein and not defined but defined in the Act and the rules made there under, shall have the meanings respectively assigned to them in the Act and those rules.

3. Prohibition regarding manufacture, storage, sale, distribution, etc. of Goods-

(1) Any manufacturer, who manufactures stores for sale, sells or distributes Goods shall make an application to the Bureau for obtaining registration for use of the Standard Mark in respect of the Indian Standard mentioned in column (3) of the Schedule.

- (2) The grant of registration by the Bureau shall be as per the provisions of the Act and Rules and Regulations made thereunder.
- (3) No person shall by himself or through any person on his behalf manufacture or store for sale, import, sell or distribute Goods which do not conform to the Specified Standard and do not bear the Standard Mark as notified by the Bureau for such Goods from time to time after obtaining registration from the Bureau: Provided that nothing in this Order shall apply in relation to manufacture of Goods meant for export.
- (4) The substandard or defective Goods which do not conform to the Specified Standard mentioned in column (3) of the Schedule shall be deformed beyond use and disposed of as a scrap by the manufacturer or the representative of overseas manufacturer from liaison office or branch office located in India or by any agency authorised by the manufacturer as its authorised representative in the India: Provided that unclaimed consignment of such Goods shall be deformed and disposed of as scrap by such department or agency as may be authorised by the Appropriate Authority.

4. Power to call for information, etc.-

- (1) The Appropriate Authority or a person authorised by it may, with a view to secure compliance with this Order, require any person engaged in the manufacture, storage for sale, sale or distribution of any Goods to give such information as the said Authority deems necessary relating to the manufacture, storage for sale, import, sale or distribution of any Goods or require any such person to furnish to it samples of Goods.
- (2) With the specific order each time of an Authority at an appropriate senior level nominated by the Secretary in the Ministry of New and Renewable Energy, the Appropriate Authority or person authorised by it, with a view to secure compliance with this Order may also-
 - (a) inspect or cause to be inspected any books or other document and other Goods or the components or materials of any Goods kept by or belonging to or in the possession or under the control of any person engaged in the manufacture, storage for sale, import, sale or distribution of Goods;
 - (b) entry and search any premises and seize Goods in respect of which it has reason to believe that a contravention of this order has been committed or the said Goods are not complying to the specified standard.
- (3) The provisions of the Code of Criminal Procedure, 1973 (2 of 1974) relating to search and seizure shall so far as may be, apply to searches and seizures under this paragraph.

5. Drawing and testing of sample.-

- (1) Where the Goods have different sizes, ratings, varieties, etc., such Goods shall be grouped and may be granted series approval for a Series of products based on testing of representative models.
- (2) A decision concerning series approval shall be taken by the Ministry of New and Renewable Energy or its authorised agencies while implementing this order.
- (3) The sample of Goods of the registered user shall be drawn from his manufacturing unit or from the market by the Appropriate Authority or person authorised by it for ascertaining whether they conform to the Specified Standard:

Provided that if required, samples may also be drawn by the Bureau or its authorised representatives.

- (4) The samples shall be drawn at least once in two years for a product or Series of products covered under the scope of registration granted.
- (5) The location and the product to be picked up shall be selected randomly.
- (6) At least one sample from the range of products covered in the scope of registration granted shall be picked up for testing.
- (7) The sample so drawn shall be properly sealed to protect it from any damage and labelled indicating the registration number, the date of the drawl of sample, the source of the market sample or manufacturing unit sample, a three-letter code of the person drawing the sample and the identification number, if any, given on the Goods:

Provided that where the sample drawn from the manufacturing unit, in addition to the sample to be sent for testing, another sample from the same batch or lot shall also be drawn, sealed and labelled, and left with the registered user as a counter sample, for use in case of any subsequent dispute.

- (8) The sample so drawn, sealed and labelled, shall be sent by the Appropriate Authority or person authorised by it for testing to a laboratory established or recognised by the Bureau along with a request indicating that the sample shall be tested with respect to all the requirements of the Specified Standard and the test report shall be sent to the Appropriate Authority.
- (9) All the test report shall be scrutinised for conformity of the sample with respect to the requirements of the Specified Standard.
- (10) The test report of the conforming sample shall be retained by the Appropriate Authority and the test report of the non-conforming sample shall be sent to the Bureau by Appropriate Authority within a fortnight for further action.
- (11) The Appropriate Authority shall also make available the information regarding the status of processing on its website.

6. Power to issue directions to manufacturers.- The Appropriate Authority may issue such directions to manufactures, consistent with the provisions of the Act, Rules and this Order, as

may be necessary, for carrying out the purposes of this Order.

7. Compliance of directions.- Every manufacturer to whom any direction is issued under this Order shall comply with such direction.

8. Obligation to furnish information.- No manufacturer shall refuse to give any information lawfully demanded from him under paragraph 4 or conceal, destroy, mutilate or deface any book or document relating thereto in his possession or control.

SCHEDULE

S. No (1)	Product (2)	Indian Standard Number (3)	Title of Indian Standard (4)
1	Solar Flat Plate Collector	IS 12933(Part1):2003	Solar Flat Plate Collector - Specification Part 1 Requirements (Second Revision)
		IS 12933(Part 2):2003	Solar Flat Plate Collector - Specification Part 2 Components (Second Revision)
		IS 12933(Part 3):2003	Solar Flat Plate Collector - Specification Part 3 Measuring Instruments (First Revision)
		IS 12933(Part 5):2003	Solar Flat Plate Collector - Specification Part 5 Test Methods (Second Revision)
		IS 16368: 2015	Test Procedure for Thermosyphone Type Domestic Solar Hot Water Heating System
2	All Glass Evacuated Tubes Solar Collector	IS 16542 : 2016	Direct Insertion Type Storage Water Tank for All Glass Evacuated Tubes Solar Collector – Specification
		IS 16543 : 2016	All Glass Evacuated Solar Collector Tubes – Specification
		IS 16544 : 2016	All Glass Evacuated Tubes Solar Water Heating System
3	Concentrated Solar Thermal	IS 16648 (Part 1) :2017	Concentrated Solar Thermal - Specification Part 3 Parabolic Through Concentrator
		IS 16648 (Part 2) :2017	Concentrated Solar Thermal - Specification Part 2 Scheffler Concentrator
		IS16648(Part 3):2017	Concentrated Solar Thermal - Specification Part 3 Parabolic Trough Concentrator
		IS16648 (Part 4) :2017	Concentrated Solar Thermal Specification Part 4 Non-Imaging Concentrator
		IS16648(Part 5):2017	Concentrated Solar Thermal - Specification Part 5 Test Methods

[File No. _____]

(Name of officer)

Designation of officer