

केन्द्रीय मुहर विभाग - III

हमारा संदर्भ- केन्द्रीय मुहर विभाग-3/16: IS 17018

दिनांक :08 05 2019

विषय: अनुपालन हेतु एस आई टी

सभी शाखा कार्यालय से आग्रह है कि एस आई टी का अनुपालन तत्काल प्रभाव से सुनिश्चित करें।

(अमित कुमार)
वैज्ञानिक 'सी' (सी एम डी-III)

प्रमुख (सी एम डी-III)

सभी क्षेत्रीय/शाखा कार्यालय
आई टी एस विभाग – बीआईएस इंटरनेट पर अपलोड करने हेतू

CENTRAL MARKS DEPARTMENT-III

Our Ref: **CMD-3/16: IS 17018**

Date: 08 05 2019

Subject: SIT for IS 17018:2018 – Solar Photo Voltaic Water Pumping Systems – Centrifugal Pumps

This has reference to the subject mentioned above.

BOs may kindly ensure implementation of the SIT with immediate effect.

Amit Kumar
Sc. C (CMD III)

Head (CMD - III)

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**SCHEME OF INSPECTION AND TESTING
FOR CERTIFICATION OF
SOLAR PHOTOVOLTAIC WATER PUMPING SYSTEMS –
CENTRIFUGAL PUMPS
ACCORDING TO IS 17018 (PART 1): 2018**

1. LABORATORY - A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.

1.1 The manufacturer shall prepare a calibration plan for the test equipment.

2. TEST RECORDS – The manufacturer shall maintain test records for the tests carried out to establish conformity.

3. LABELLING AND MARKING – As per the requirements of IS 17018 : 2018.

4. LEVELS OF CONTROL - The tests as indicated in column 1 of Table 1 and the levels of control in column 3 of Table 1, shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2 above.

4.1 All the production which conforms to the Indian Standard and covered by the licence should be marked with Standard Mark.

5. REJECTIONS – Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act, 2016.

Table 1

Table 1

(1)				(2)	(3)		
Test Details				Test equipment requirement	Levels of Control		
Cl.	Requirement	Test Methods		R: required (or) S: Sub-contracting permitted	No. of Sample	Frequency	Remarks
		Clause	Reference				
5	CONSTRUCTIONAL FEATURES						
5.2.6	Photo Voltaic Array	5.2.6.3, 5.2.6.4	IS 17018 (Part 1)	S	One	Each consignment	PV module shall be in compliance with the provisions of Quality Control Order on Compulsory Registration, issued by MNRE.
		5.2.6.5 to 5.2.6.7, 5.2.6.9, 5.2.6.10.	IS 17018 (Part 1)	S	One	Each consignment	No further testing is required, if accompanied with test certificate
5.3	Material of Construction	5.3	IS 17018 (Part 1)	S	Conformity may be established with relevant Indian Standards.		
7	PERFORMANCE						
7.1	Pumpset with Solar Photo Voltaic(PV) Converter/ dc Controller	7.1.1, 7.1.2	IS 17018 (Part 1)	R	Every Pumpset	—	

7.4	Solar Photo Voltaic (PV) Converter/ Controller	7.4.1	IS 17018 (Part 1)	R	Every Converter/ Controller	—
		7.4.3	IS 17018 (Part 1)	S	Once in a year for each design of the converter/ controller body	—
		7.4.4	IS 17018 (Part 1)	S	One (out of every 50 controller / converter or once in a month, whichever is earlier)	—
7.4.6	Cable requirements	7.4.6	IS 17018 (Part 1)	—	—	Shall be ISI marked.
8	Provision for Earthing	8.1	IS 17018 (Part 1)	R	Every motor	—
9	Ratings	9	IS 17018 (Part 1)	R	Every module	—
10	TESTS FOR HYDRAULIC AND ELECTRICAL PERFORMANCE OF PUMPSET					
6, 7.2, 10.1	Pumpset requirements	6	IS 17018 (Part 1)	R	Each consignment	No further testing is required, if accompanied with test certificate.
10.3	Whole day Performance (with Sun simulator)	10.3, Annex B	IS 17018 (Part 1)	S	One pump-set of each motor rating (Out of every 100 or once in a month whichever is earlier)	—

	Whole day Performance (real condition testing)	10.3, Annex B	IS 17018 (Part 1)	S	One pump-set of each motor rating (Out of every 250 or once in a month, whichever is earlier)	—
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NOTE-1: Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empanelled by the Bureau.

NOTE-2: Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control unit/batch/lot and submit his own levels of control in column 3 with proper justification for approval by BO Head.