

केन्द्रीय मुहर विभाग - III

हमारा संदर्भ- केन्द्रीय मुहर विभाग-3/16: IS 8034

दिनांक :16 11 2018

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 8034

Date: 16 11 2018

Subject: SIT for IS 8034:2018 – Submersible Pumpsets – Specification (*Third Revision*).

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
SUBMERSIBLE PUMPSETS
ACCORDING TO IS 8034 : 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 8034 : 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				
6	Material of Construction	6.2	IS 8034	S	One	Each consignment	No further testing is required, if accompanied with test certificate or ISI marked
	Gaskets,Seals and Packings	5.2	IS 5120				
8	GENERAL REQUIREMENTS						
8.1	General Requirements	17	IS 5120	R	Every Pumpset		
8.2	Casing	10.3	IS 8034	R	Every Pump Casing		
8.4	Shaft	8.4.2	IS 8034	R	Every Pump Casing		
8.5	Balancing	8.5	IS 8034	R	Every impeller and rotor		
8.7	Direction of Rotation	8.7	IS 8034	R	Every pumpset		

8.8	Terminal Marking	8.8	IS 8034	R	Every pumpset		
8.9.4	Provision for Earthing	8.9.4	IS 8034	R	Every motor		
9	TEST FOR ELECTRICAL PERFORMANCE ON SUBMERSIBLE MOTOR						
9.9	ROUTINE TEST						
	Insulation resistance Test (Before high voltage test only)	9.2	IS 8034	R	Every Motor		No further testing is required, if motor is ISI marked.
	High Voltage Test	9.3	IS 8034				
	No load running of motor and reading of current, voltage, power and speed		IS 9283				
	Locked rotor reading of voltage, current and power						

9.10	TYPE TEST				
	Insulation resistance Test (Both before and after the high voltage test)	9.2	IS8034	R	One sample of each identical type and design (Out of every 100 pumpsets or every month whichever is earlier)
	High Voltage Test	9.3	IS 8034	R	
	Measurement of stator resistance		IS 9283		
	Reduced Voltage Test				
	Locked rotor reading of voltage, current and power and torque of motors				
	Breakaway (starting) torque	9.7	IS 8034		
	Leakage Current Test at rated voltage at no load	9.4	IS 8034		
	Temperature rise test at rated voltage	9.5	IS 8034		

	Temperature rise test at reduced voltage	9.5	IS 8034	R		
	Momentary over-load Test		IS 9283	As per agreement between the manufacturer and purchaser.		
7	Design Features	7	IS 8034	R	One sample of each identical type and design (Out of every 100 pumpsets or every month whichever is earlier)	
10	Testing for Hydraulic Performance on Pump for Monoset	10.2	IS 8034			
11	Guarantee and Tolerance on Pumpset Performance	11	IS 8034	R	One sample of each identical type and design (Out of every 100 pumpsets or every month whichever is earlier)	

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.