



**PRODUCT MANUAL FOR  
DEEP WELL HAND PUMP CAST IRON COMPONENTS  
ACCORDING to IS 15500 (Part 5): 2004**

*This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure coherence of practice and transparency in operation of certification under Scheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations, 2018 for various products. The document may also be used by prospective applicants desirous of obtaining BIS certification licence/certificate.*

1.	<b>Product</b>	:	<b>IS 15500 (Part 5):2004</b>
	<b>Title</b>	:	<b>HAND PUMP CAST IRON COMPONENTS</b>
	<b>No. of Amendments</b>	:	3 (combined amendment for Part 1 to Part 8)
2.	<b>Sampling Guidelines:</b>		
a)	<b>Raw material</b>	:	Cast Iron clause 5.3 of IS 15500(Part 1) Red Oxide Primer, clause 6.3 of IS 15500 (Part 1) Synthetic Enamel Paint
b)	<b>Grouping guidelines</b>	:	Each Type of Hand Pump Cast Iron component shall be tested
c)	<b>Sample Size</b>	:	One Cast Iron component
3.	<b>List of Test Equipment</b>	:	Please refer <a href="#">ANNEX –A</a>
4.	<b>Scheme of Inspection and Testing</b>	:	Please refer <a href="#">ANNEX – B</a>
5.	<b>Possible Tests in a day :</b>		
	Dimensions, Workmanship		
6.	<b>Scope of the Licence :</b>		
	Licence is granted to use Standard Mark on Hand Pump Cast Iron component Type _____ as per IS 15500 (Part 5): 2004.		

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ANNEX - AList of Test Equipments

Major test equipment required to test as per the Indian Standard

Sr. No.	Test Equipment	Component to be tested (fig. No.)
1.	Thread Ring Gauge	5.1, 5.2,5.3
2.	Vernier Callipers	5.1, 5.2,5.3, 5.4, 5.6A, 5.6B
3.	Thread Plug Gauge	5.4, 5.5A, 5.5B, 5.6A,
4.	Taper Plug Gauge	5.5B,5.6 A, 5.6 B

*The above list is indicative only and may not be treated as exhaustive.*

**ANNEX - B**

**Scheme of Inspection and Testing**

**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 15500 (Part 5).

**4. CONTROL UNIT** – All Deep well Hand Pump Cast Iron component of the same type, assembled in a day shall constitute a control unit.

**5. 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.

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

**6. 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

(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				
1.2	Workmanship	7	IS 15500 (Part 1)	R	Each Component		Please see Note 1
2.	Raw Material, Components, Dimensions	4, 5 2.2	IS 15500 (Part 1) IS 15500 (Part 5)	S	One	Each consignment	#
	Anticorrosive treatment	6	IS 15500 (Part 1)	S	One Component	Each Batch	
3.3	Critical Dimensions	3.3	IS 15500 (Part 5)	R	Each Component		
		9.4.5	IS 15500 (Part 1)				

# No further testing is required, if accompanied with test certificate or ISI marked

**NOTE-1:** The components found defective shall be rejected. In case of rectification of defects, components shall be re- examined.

**NOTE-2:** Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empanelled by the Bureau.

**NOTE-3:** 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