



**PRODUCT MANUAL FOR  
TABLE, OPERATION, HYDRAULIC, MAJOR  
ACCORDING TO IS 5291:1969**

*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>	:	IS 5291:1969
	<b>Title</b>	:	Table, Operation, Hydraulic, Major.
	<b>No. of amendments</b>	:	2
2.	<b>Sampling Guidelines</b>		
a)	<b>Raw material</b>	:	As per clause 3 of IS 5291.
b)	<b>Grouping Guidelines</b>	:	Hydraulic system with single and multiple cylinders shall be tested separately to cover both these varieties.
c)	<b>Sample Size</b>	:	One complete assembly of Operation Table.
3.	<b>List of Test Equipment</b>	:	Please refer Annex – A.
4.	<b>Scheme of Inspection and Testing</b>	:	Please refer Annex – B.
5.	<b>Possible tests in a day</b>	:	As the licence is operated on Factory Testing basis, complete testing of a sample shall be done in factory.
6.	<b>Scope of the Licence :</b>		
	Licence is granted to use Standard Mark as per IS 5291:1969 with the following scope:		
	<b>Name of the product</b>	Hydraulic Major Operation Table	
	<b>Variety</b>	Hydraulic system with single/ multiple cylinders	

**ANNEX A****List of Test Equipment***Major test equipment required to test as per the Indian Standard.*

<b>Sl. No.</b>	<b>Tests used in with Clause Reference</b>	<b>Test Equipment</b>
1	Dimension, Cl 4	Vernier Caliper Steel Tape / Steel Scale
2	Construction, Cl 5	Angle Protector Steel Scale /Steel Tape
3	Performance Requirement - Hydraulic Lift, Cl 6.1	Dead Load of 50 Kg Steel Tape / Steel Scale Stop Watch
4	Performance Requirement - Base, Cl 6.2	Arrangement for application and measurement of lateral force of 7 Kg, 12 Kg & 50 Kg
5	Performance Requirement - Table Top, Cl. 6.3	Dead Load – 50 Kg Steel Tape / Steel Scale Arrangement for dropping 5 Kg load from 150 cm above the Table Top Arrangement for application and measurement of lateral force of 25 Kg

*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 equipments.

**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 5291: 1969.

**3.1** Instruction Manual as per clause 9.1 of IS 5291: 1969 shall be supplied with the Table.

**3.2** The table shall be provided with the accessories as per Cl. 8.1 of IS 5291: 1969.

**4. CONTROL UNIT** – Each complete assembly of operation table 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 Standards 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 R: required (or) S: Sub-contracting permitted	Levels of Control		
Cl.	Requirement	Test Methods			No. of Sample	Frequency	Remarks
		Clause	Reference				
3	Materials	3.1 to 3.5	IS 5291	S	No further testing is required if accompanied with Test Certificate or ISI marked.		
4	Dimensions	4.1, 4.2	IS 5291	R	Each Unit		
<b>5</b>	<b>Construction</b>						
5.1	Base	5.1	IS 5291	R	Each Unit		
5.2	Bed top	5.2	IS 5291	R	Each Unit		
5.3	Hydraulic Lift	5.3	IS 5291	R	Each Unit		
<b>6</b>	<b>Performance Requirements</b>						
6.1	Hydraulic Lift	6.1	IS 5291	R	Each Unit		
6.2	Base	6.2	IS 5291	R	Each Unit		
6.3	Bed top	6.3	IS 5291	R	Each Unit		
7	Workmanship & Finish	7.1	IS 5291	R	Each Unit		

Note-1: Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empanelled by the Bureau.

Note-2: The control unit and levels of control as decided by the Bureau are obligatory to which the licensee shall comply with.