



उत्पाद मैनुअल
सिंगल-एंडेड ओपेन-जॉ समायोज्य रेंच - विशिष्टि
आईएस 6149: 2025 के अनुसार

PRODUCT MANUAL FOR
Single-Ended Open-Jaw Adjustable Wrenches — Specification
as per IS 6149: 2025

विभिन्न उत्पादों के लिए भारतीय मानक ब्यूरो) अनुरूपता मूल्यांकन (विनियम, 2018 की योजना -I के तहत प्रमाणन के संचालन में एकरूपता और पारदर्शिता के लिए इस उत्पाद मैनुअल का उपयोग सभी क्षेत्रीय / शाखा कार्यालयों और लाइसेंसधारियों द्वारा संदर्भ सामग्री के रूप में किया जाएगा। दस्तावेज़ का उपयोग बीआईएस प्रमाणन प्राप्त करने के इच्छुक संभावित आवेदकों द्वारा भी किया जा सकता है।

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure uniformity 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.

1.	मानक संख्या IS No.	:	IS 6149: 2025
	शीर्षक Title	:	Single-Ended Open-Jaw Adjustable Wrenches — Specification
	संशोधनों की संख्या No. of amendments	:	None
2.	नमूना दिशानिर्देश Sampling Guidelines		
a)	कच्चा माल Raw material	:	As per Cl. 6 of IS 6149: 2025
b)	समूहीकरण दिशानिर्देश Grouping Guidelines	:	Please refer ANNEX – A
c)	नमूने का परिमाण Sample Quantity	:	3 Pcs
d)	परीक्षण अनुरोध में घोषित किए जाने वाले पैरामीटर Parameters to be Declared in Test Request	:	- Type - Grade - Nominal Sizes

3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	Please refer ANNEX – B
4.	निरीक्षण और परीक्षण की स्कीम Scheme of Inspection and Testing	:	Please refer ANNEX – C
5.	एक दिन में संभावित परीक्षण Possible tests in a day	:	All tests
6.	लाइसेंस का दायरा /Scope of the Licence:		
“License is granted to use Standard Mark as per <i>IS 6149: 2025</i> with the following scope:			
Name of the product		Single-Ended Open-Jaw Adjustable Wrenches	
Type		Type A / Type B	
Grade		Grade 1 / Grade 2	
Nominal Sizes			

ANNEX -A
Grouping Guidelines

1. Single-Ended Open-Jaw Adjustable Wrenches as per IS 6149: 2025 are classified based on the following:

Type	Type A / Type B
Grade	Grade 1 / Grade 2
Nominal Sizes	

2. For considering GoL / CSoL, samples of each type and each grade of lowest and highest nominal size shall be tested.
3. The Scope of License may be restricted based on the manufacturing and testing capabilities of the manufacturer.
4. During the operation of License, it shall be ensured that all the varieties of plain washers covered in the License are tested in rotation, to the extent possible.

ANNEX- B
LIST OF TEST EQUIPMENTS
(INDICATIVE LIST, FOR GUIDANCE ONLY)

Sl. No.	Tests used in with Clause Reference	Test Equipment
1.	Dimension (Cl. 5)	Measuring Tape Micrometer Steel Scale Vernier Caliper
2.	Material (Cl. 6)	Spectrometer Rockwell Tester Torque Wrench
3.	Hardness (Cl. 7)	Rockwell Tester
4.	Longitudinal Play of Adjustable Jaw (Cl. 11.1)	Measuring Tape
5.	Transverse Play of Adjustable Jaw (Cl. 11.2)	Micrometer Steel Scale Vernier Caliper
6.	Torque Test (Cl. 11.3)	Torque Wrench

ANNEX C

SCHEME OF INSPECTION AND TESTING

1. QUALITY ASSURANCE PLAN

- 1.1. It is expected that during operation of BIS licence, manufacturers will implement a Quality Assurance Plan (QAP) i.e. a plan of regular testing and in-process controls, designed to ensure that the product bearing the Standard Mark conforms to all requirements of the Indian Standard.
- 1.2 The manufacturers shall define a Quality Assurance Plan (QAP) defining the control unit (i.e. lot/batch etc.), the levels of control (i.e. the frequency and number of samples for conducting the different tests as per the Indian Standard) and declare the arrangement for testing i.e. whether in-house or subcontracting/sharing and submit the same to BIS Branch Office for information. The manufacturer shall comply with the QAP and maintain test records in accordance with para 2.1.

1.3 RECOMMENDED LEVELS OF CONTROL/CONTROL UNIT:

- 1.3.1 For the guidance of manufacturers, the recommended definition of control unit is: *Single-Ended Open-Jaw Adjustable Wrenches of same type, grade and size manufactured in a day from same consignment of raw material* shall constitute a control unit.
- 1.3.2 For the guidance of manufacturers in preparing the Quality Assurance Plan, recommended levels of control are given in **Table 1**. Manufacturer has the discretion of declaring their own levels of control or accept the levels of control given in this document.
- 1.3.3 The manufacturer shall ensure inspection and testing as per the Quality Assurance Plan submitted by them on the whole production of the factory which is covered by this plan.

2. ENSURING COMPLIANCE THROUGH TESTING- Manufacturers shall ensure compliance of their products to all the requirements of the Indian Standard. However, there is no obligation to maintain in-house laboratory. Licensee may use alternative arrangements for tests of the production as per the declared QAP. Various alternatives are available for operation of BIS certification as given below and the relevant guidelines for availing such relaxations by the manufacturers, as amended from time to time, are to be referred:

- i. Shared testing resources like common facility,
- ii. Cluster based testing facility,
- iii. Sub-contracting to outside laboratories which may either be:
 - a. BIS recognised/empanelled laboratories, or
 - b. Any accredited laboratory as per ISO/IEC 17025

- 2.1 **TEST RECORDS-** The manufacturers maintaining an in-house laboratory or utilizing common cluster based facilities or shared test facilities shall maintain test records for the tests carried out to establish conformity. For the tests being subcontracted to BIS recognized/empanelled

laboratory or any other laboratory having valid NABL accreditation as per IS/ISO/IEC 17025, test reports issued by the laboratories shall be available for inspection by BIS.

3. PACKING AND MARKING - The Standard Mark as given in the Schedule of the licence shall be incorporated legibly and indelibly on each wrenches provided always that the wrenches so marked conforms to each requirement of the specification.

3.1 Marking on each Single-Ended Open-Jaw Adjustable Wrenches shall be done as per Cl. 13 of IS 6149: 2025

3.2 **Additional Marking requirements:** The packaging of the Tricycle shall also be marked with the following additional requirement on it:

a) “For BIS certification details please visit www.bis.gov.in”

4. HYGIENIC CONDITIONS (if applicable) – NA.

5. REJECTION - 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)				(3)		
Test Details				Levels of Control		
Cl.	Requirement	Test Methods		No. of Sample	Frequency	Remarks
		Clause	Reference			
6	Material	6	IS 6149	One	Each consignment	No further testing is required if accompanied with the Test Certificate or ISI marked.
5	Dimensions	5 & Table 1	IS 6149	Firm to have adequate in-process controls to check compliance of this parameter as per the tolerances given in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity		
8	Manufacture	8	IS 6149			
9	Workmanship And Finish	9	IS 6149			
11.1	Longitudinal Play of Adjustable Jaw	11.1	IS 6149			
11.2	Transverse Play of Adjustable Jaw	11.1	IS 6149			
7	Hardness	7	IS 6149	One	Each Control Unit	
11.3	Torque Test	11.3	IS 6149	One	Each Control Unit	