

इंटरनेट

मानक

### Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 663 (1980): Adzes [PGD 6: Earth, Metal And Wood Working Hand Tools]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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*Indian Standard*  
**SPECIFICATION FOR  
ADZES**

( Second Revision )

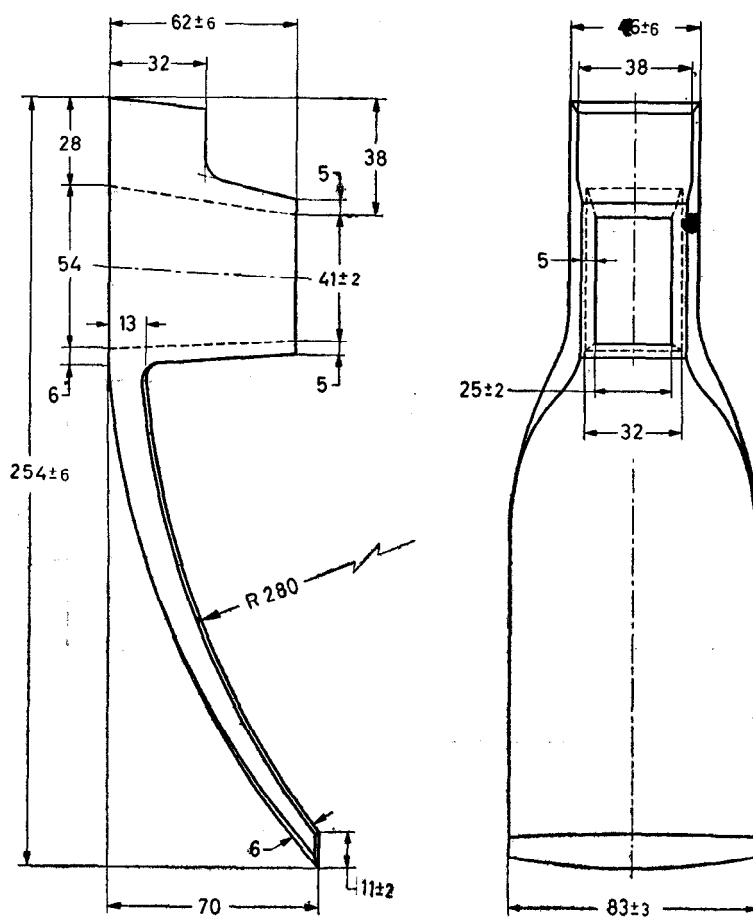
**1. Scope** — Covers requirements for two types of adzes, namely, Type A and Type B.

**2. Dimensions**

**2.1 Type A**

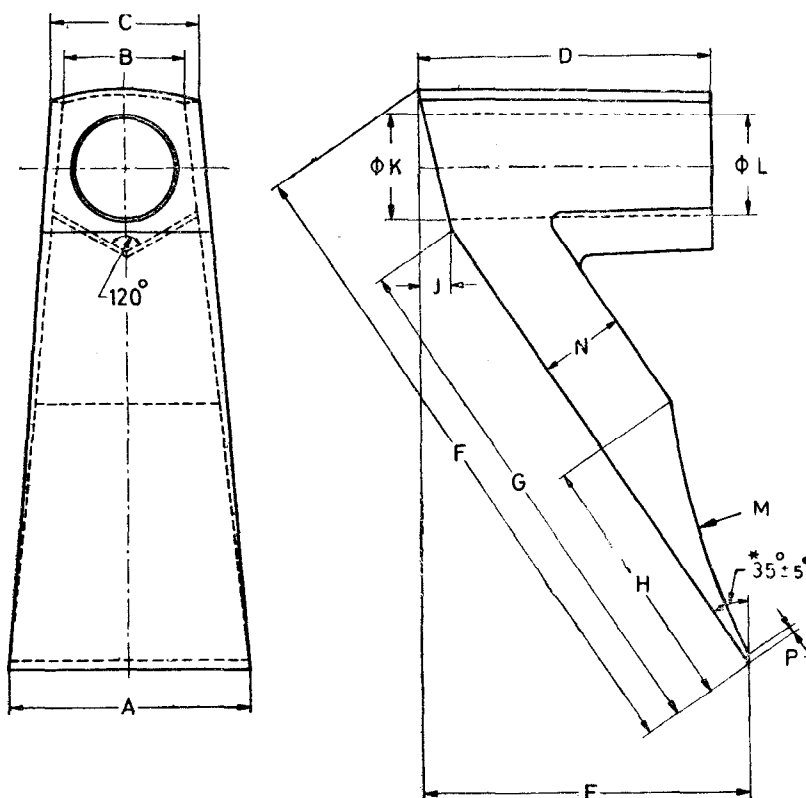
**2.1.1** The mass of Type A adze shall be 1.5 kg.

All dimensions in millimetres.



## 2.2 Type B

All dimensions in millimetres.



| Nominal<br>Mass kg<br>+7.5%<br>-2.5% | A  | B  | C  | D  | E   | F   | G   | H  | J  | Dia<br>K<br>+2<br>0 | Dia<br>L<br>0<br>-2 | M*  | N  | P |
|--------------------------------------|----|----|----|----|-----|-----|-----|----|----|---------------------|---------------------|-----|----|---|
| 0.75                                 | 45 | 30 | 35 | 60 | 75  | 155 | 120 | 60 | 10 | 25                  | 24                  | 150 | 15 | 2 |
| 1.00                                 | 50 | 30 | 35 | 65 | 80  | 165 | 127 | 60 | 10 | 25                  | 24                  | 150 | 20 | 2 |
| 1.25                                 | 60 | 32 | 35 | 70 | 85  | 165 | 127 | 60 | 10 | 25                  | 24                  | 150 | 22 | 2 |
| 2.00                                 | 75 | 37 | 44 | 90 | 100 | 200 | 160 | 80 | 10 | 32                  | 30                  | 225 | 25 | 2 |

\*Recommended dimensions.

**3. Material** — Suitable steel, meeting the requirements laid down in 4 and 7. One of the suitable steels for this purpose is the steel conforming to Designation T 60 of Schedule VI of IS : 1570-1961 'Schedules for wrought steels for general engineering purposes'.

**4. Hardness** — The hardness of the adzes, when measured at a distance of 20 mm from the cutting edge, shall be 550 to 650 HV ( 52 to 57 HRC approx ).

### 5. Manufacture, Workmanship and Finish

**5.1** The adzes shall be made in one piece, cleanly forged to shape, fully hardened, tempered and properly ground.

**5.2** The adzes shall be free from flaws, seams, fins, cracks and other defects. The eyes shall be accurately and correctly shaped and shall be central. All sharp edges, except the cutting edge, shall be rounded-off. The cutting edge shall be ground sharp and ready for use. The general workmanship and finish shall be of good quality.

## 6. Handles

**6.1** The handles for adzes shall form a separate item in the enquiry and order and shall not be supplied unless specifically ordered.

**6.2** When the handles are required to be supplied with adzes, they shall conform to IS : 2893-1964 'Specification for wooden handles for adzes' except the handle for adzes having nominal mass of 0.75 kg and 1.00 kg, which shall be supplied as per the agreement between the supplier and the purchaser.

**7. Designation** — The adzes shall be designated by the type, nominal mass, width of cutting edge and the number of this specification.

*Example:*

An adze of type *B* having nominal mass 2.00 kg and width of cutting edge  $A = 75$  mm shall be designated as:

Adze B 2.00-75, IS : 663

## 8. Tests

**8.1 Practical Test** — The adze shall be fitted with a handle and several hard blows shall be struck from its cutting edge on a heavy block of any well-seasoned hard timber, like Sissoo (*Dalbergia sissoo* Roxb), Sal (*Shorea robusta* Gaertn. f.), Rose wood (*Dalbergia latifolia* Roxb), gurjan (*Dipterocarpus* sp) and Babul (*Acacia arabica* Wild). The cutting edge shall show no sign of damage or distortion after the test.

**8.2 Flaw Test** — The adze shall be struck 20 hard blows with the edge of a mild steel block such that the blows are hit along the flat surface of the blade and head, about 50 mm from the cutting edge. The adze shall show no sign of damage or distortion after the test.

**9. Marking** — Each adze shall be clearly and legibly stamped with the type, nominal mass, width of cutting edge, manufacturer's name, initials and/or trade-mark.

**9.1 ISI Certification Marking** — Details available with the Indian Standards Institution.

## 10. Preservative Treatment and Packing

**10.1** The body of each adze shall be coated with suitable anti-corrosive paint and the ground portion shall be coated with anti-corrosive grease or varnish.

**10.2** The adzes shall be securely packed in suitable packing cases of a size convenient for handling in transit, or as specified by the purchaser.

## 11. Sampling

**11.1** Unless otherwise agreed to between the supplier and the purchaser, the procedure given in IS : 2500 (Part I)-1973 'Sampling inspection tables: Part I Inspection by attributes and by count of defects (first revision)', shall be followed for sampling inspection. For various characteristics, the sampling plan as given in 11.1.1 and 11.1.2 shall be followed.

**11.1.1** For inspection for mass, dimensions, manufacture, hardness and workmanship and finish, the sampling plan with inspection level III and acceptable quality level (AQL) 2.5 percent given in Tables 1 and 2 of IS : 2500 (Part I)-1973 shall be followed.

**11.1.2** For practical test and flaw test, the sampling plan with inspection level I and acceptable quality level (AQL) 2.5 percent given in Tables 1 and 2 of IS : 2500 (Part I)-1973 shall be followed.

## EXPLANATORY NOTE

This standard was first published in 1955 and revised in 1964. The second revision has been undertaken to bring the standard in line with the present manufacturing practices prevailing in the Indian industries.

In this revision, the requirements for material have been modified, the dimensions of 0.75-kg and 1.00-kg adzes have been included and the non-functional dimensions have been made recommendatory.