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समुद्री ध्वनि वाली छड़ें — विशिष्ट
(पहला पुनरीक्षण)

Draft Indian Standard

MARINE SOUNDING RODS — SPECIFICATION
(First Revision)

ICS: 47.020.30; 47.020.99

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FOREWORD

(Formal Clause to be added later)

This standard was first published in 1966. This first revision is being undertaken to update the standard and to incorporate the latest technological advancement/ development that has taken place in various fields. The salient features of this first revision are:

- a) The standard has been drafted as per latest drafting guidelines.
- b) Reference of revised Indian Standard has been given.
- c) Clauses related to Marking, BIS Certification and sampling plan have been added/ updated

Sounding rods with proper markings are one of the means employed on board ships for sounding tanks. The sounding rods, when required, are connected to a suitable rope and lowered into the sounding pipe. In the forward and after end of the ship, sounding pipes may have to be fitted at an incline or with smooth curves of large radii. As it is difficult to lower straight rods into such sounding pipes, sounding rods with flexible joints are used.

The composition of the committee responsible for formulation of this standard is given as Annex A (Will be added later)

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

MARINE SOUNDING RODS — SPECIFICATION*(First Revision)***1 SCOPE**

This standard specifies the requirements for flexible and straight marine sounding rods.

2 REFERENCES

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

<i>IS No.</i>	<i>Title</i>
IS 410: 1977	Specification for cold rolled brass sheet, strip and foil (Third Revision)
IS 2062: 2011	Hot rolled medium and high tensile structural steel - Specification (Seventh Revision)
IS 2500 (Part 1): 2000	Sampling procedures for inspection by attributes: Part 1 sampling schemes indexed by acceptance quality limit (AQL) for lot - By - Lot inspection (Third Revision)
IS 6912: 2005	Copper and copper alloys forging stock and forging - Specification (Second Revision)
IS 7811: 2019	Phosphor bronze rods and bars (Second Revision)

3 MATERIAL

3.1 The material of the sounding rods shall conform to any of the following Indian Standards:

- a) IS 410;
- b) IS 2062;
- c) IS 6912; and
- d) IS 7811.

4 DIMENSIONS AND GRADUATIONS

4.1 The shape and dimensions of flexible and straight marine sounding rods shall be as shown in, Fig. 1 and 2 respectively.

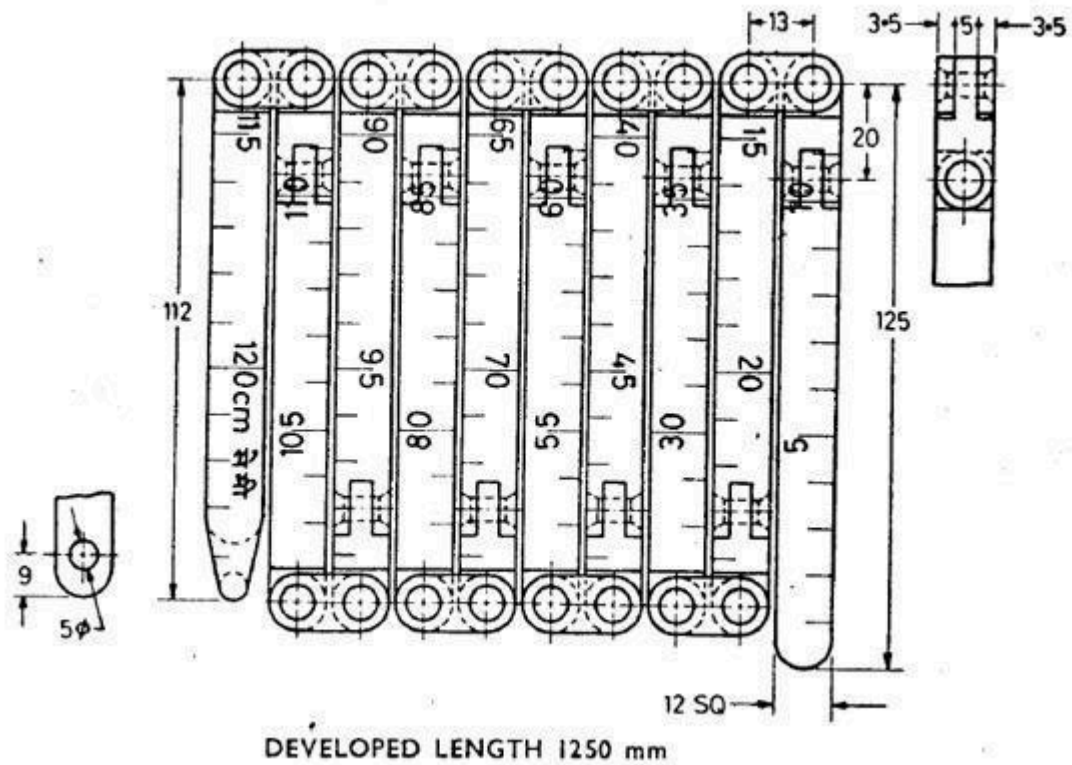
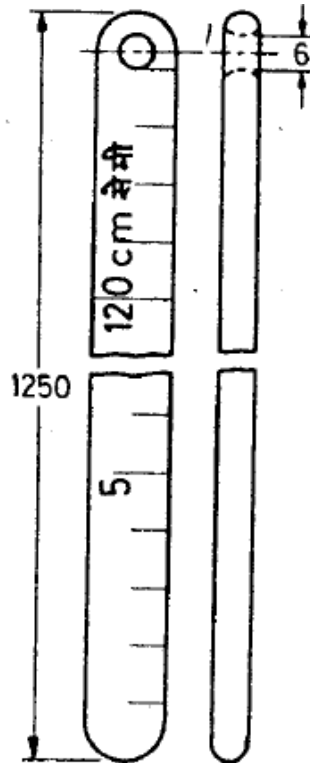


FIG. 1 Dimensions for Flexible Sounding Rods



All dimensions in millimetres.
FIG. 2 Dimensions For Straight Sounding Rods

4.2 Flexible sounding rods made of brass or bronze shall be 12 mm square in section. Straight sounding rods made of brass or bronze shall be 14×6.3 mm in section.

4.3 Flexible sounding rods made of steel shall be 12 mm square in section. Straight sounding rods made of steel shall be 15×6 mm in section.

4.4 The length of the graduated part shall be 1250 mm for straight as well as flexible rods.

4.5 The sounding rods shall be graduated as shown in Fig. 1 and 2.

4.6 The graduation marks shall be clear, of uniform depth and thickness and perpendicular to the edges. These marks shall be filled in black. The thickness of the lines shall be 0.4 mm. The lines shall be of sufficient depth to maintain legibility and indelibility.

4.7 The size of the numbers punched on the sounding rod shall be 5 mm.

5 ACCURACY

5.1 The actual length between any 10 consecutive graduation marks shall not differ by more than 0.02 mm, when compared against a standard certified scale.

5.2 The actual length of the total graduated part shall not differ by more than 2 mm, when compared against a standard certified scale.

6 PRESERVATIVE TREATMENT

6.1 The scales shall be smeared with a coating of mineral jelly or any other suitable preservative and wrapped in greaseproof paper.

7 MARKING

7.1 The abbreviation 'cm' shall be marked at the end of the graduations.

7.2 Each sounding rod shall be legibly and indelibly marked with the maker's initials and his recognized trade-mark.

7.3 BIS Certification Marking

The sounding rods may also be marked with the Standard Mark.

7.3.1 The use of the Standard Mark is governed by the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations made thereunder. The details of conditions under which the license for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

8 SAMPLING

Unless otherwise agreed upon between a supplier and purchaser, the inspection sampling shall be as per IS 2500 (Part 1).

ANNEX A
(Foreword)

COMMITTEE COMPOSITION

SHIPBUILDING SECTIONAL COMMITTEE, TED 17
(Will be added later)