

## REVIEW ANALYSIS OF INDIAN STANDARD (AR/455)

1. **Sectional Committee No. & Title:** PGD 22 - Educational Instruments And Equipment
2. **IS No:** IS 1957 : 1961
3. **Title:** Specification for prismatic compasses, non - Liquid
4. **Date of review:** March, 2021
5. **Review Analysis**

- i) **Status of standard(s), if any from which assistance had been drawn in the formulation of this IS.**

<b>Standard (No. &amp; Title)</b>	<b>Whether the standard has since been revised</b>	<b>Major changes</b>	<b>Action proposed</b>
NA	NA	NA	NA

- ii) **Status of standards referred in the IS**

<b>Referred standards (No. &amp; Title)</b>	<b>IS No. of this standards since revised</b>	<b>Changes that are of affecting the standard under review</b>	<b>Action proposed</b>
<b>IS 2:1960 , Rules for Rounding off Numerical Values</b>		No changes	No changes
<b>IS 4218 ISO, Metric Screw Thread</b>	<u>IS 4218 : Part 1:2001/ ISO 68-1:1998, IS 4218 : Part 2:2001/ ISO 261:1998, IS 4218 : Part 3:1999/ ISO 724 : 1993, IS 4218 : Part 4:2001/ ISO 262:1998, IS 4218 : Part 5:1979, IS 4218 :</u>	<b>Part 5 and Part 6 of IS 4218 is Withdrawn</b>	NA

	Part 6:1978,		
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- iii) **Any other standards available related to the subject & scope of the standard being reviewed (International/regional/other national/association/consortia, etc. or of new or revision of existing Indian Standard)**

<b>Standard (No. &amp; Title)</b>	<b>Provisions that could be relevant while reviewing the IS</b>	<b>Action proposed</b>
<b>IS 1955:1961, Specification for Prismatic Compass, Liquid.</b>	<b>Cl 6.7.1 Bearing Error states that “Each Compass shall be tested against a magnetic meridian determined by a standard compass or magnetometer and total error in any magnetic bearing as indicated by the north seeking end of the compass shall not exceed +- 30 minutes.”</b>	<b>The same clause may be incorporated in IS 1957:1961 under clause 6.5.1 in Bearing Error.</b>
IS 16323 : 2017 ISO 25862 : 2009, SHIPS AND MARINE TECHNOLOGY — MARINE MAGNETIC COMPASSES, BINNACLES AND AZIMUTH READING DEVICES	<b>Cl 4.1.1 Magnetic Material which states “The magnets used in the directional systems of magnetic compasses shall be of a suitable magnetic material having a high remanence and coercivity of at least 18 kA/m.”</b>	<b>The same may be incorporated in Cl 5.2 of IS 1957:1961 regarding specification for magnetic needle.</b>
<b>IS 1764: 1961, Specification for trough compass</b>	<b>Cl 8.1 Frictional Error.</b>	<b>The necessary changes in the language of cl 6.4 Frictional error is incorporated in working draft.</b>

- iv) **Technical comments on the standard received, if any**

<b>Source</b>	<b>Clause of IS</b>	<b>Comment</b>	<b>Action proposed</b>
NA	NA	NA	NA

- v) **Information available on technical developments that have taken place (on product/processes/practices/use or application/testing/input materials, etc)**

<b>Source</b>	<b>Development</b>	<b>Relevant clause of the IS under review that is likely to be impacted (Clause &amp; IS No.)</b>	<b>Action proposed</b>
NA	NA	NA	NA

- vi) **Issues arising out of changes in any related IS or due to formulation of new Indian Standard**

<b>Related IS and its Title (revised or new)</b>	<b>Provision in the IS under review that would be impacted &amp; the clause no. or addition of new clause/provision</b>	<b>Changes that may be necessary in the Standards under review</b>	<b>Action proposed</b>
NA	NA	NA	NA

- vii) **Any consequential changes to be considered in other IS**

<b>Related IS to get impacted</b>	<b>Requirements to be impacted</b>
IS 1955:1961	Cl 5.2 Magnetic Needle specification

**6. Any other observation:**

- i. **The cover page of the standard shall be Bilingual incorporating latest format.**
- ii. **Marking clause of IS 1957:1961 shall be updated as per the Bureau Of Indian Standard Act, 2016 and the rules and regulations.**

**7. Recommendations: IS 1957, Specification for Prismatic Compass Non-Liquid may be taken up by the committee for review and revision based on the proposed changes.**