

REVIEW ANALYSIS OF INDIAN STANDARD

1. **Sectional Committee No. & Title: ETD 32 - Electrical Appliances**
2. **IS No: IS 555 : 1979**
3. **Title: Specification for electric table type fans and regulators (Third Revision)**
4. **Date of review:16 Sep 2021**
5. **Review Analysis**

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

Standard (No. & Title)	Whether the standard has since been revised	Major changes	Action proposed
Nil	NA	NA	Nil

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

Referred standards (No. & Title)	IS No. of this standards since revised	Changes that are of affecting the standard under review	Action proposed
IS 302 : Part 2 : Sec 80:2017 Household and similar electrical appliances - Safety: Part 2 - 80 particular requirements for fans			
4905: 1968 Random sampling and randomization procedures	IS 4905:2015	No significant changes	No action proposed
585: 1962 Voltages and frequency for transmission and distribution systems	Withdrawn	Given for information.	Reference may be removed
4691: 1968 Rotating electrical Machines Part 5 Degrees of protection provided by enclosure for	Withdrawn. IS/IEC 60529: 2001 for Degrees of protection provided by enclosures (IP	Enclosures of fans and regulators to have IP protection in line with latest standard	Latest revised standard to be incorporated

rotating electrical machinery	Code) is the latest standard available		
648: 1970 649: 1963 3024: 1965	IS 648:2006 IS 649:1997 (test method) IS 3024:2015	Stampings are to be made from electrical steel sheets.	IS 648 and IS 3024 are under mandatory certification. Hence electrical steel sheets shall conform to these Standards. This may be incorporated.
434 (Pt 1): 1964 IS 694 694: 1977	IS 9968 (Pt 1) IS 694	Supply cords are required to conform to these Standards	IS 694 and IS 9968 (Pt 1) are under mandatory certification. Hence supply cords shall conform to these Standards. This may be incorporated.
1401: 1970 Specification for accessibility test probes	IS 1401:2008 Protection of persons and equipment by enclosures - Probes for verification	Test for Protection against direct contact, electric shock, access to live parts	Latest revised standard to be incorporated
1709: 1960 Specification for fixed capacitors for fans	IS 1709:1984 Specification for capacitors or electric fan motors	Capacitors shall comply with IS 1709	Latest revised standard to be incorporated
IS 302-1979 general and safety requirements of household and similar electrical appliances	IS 302 : Part 1:2008 Safety of household and similar electrical appliances: Part 1 general requirements	Test methods for safety tests are contained in this Standard	Latest revised standard to be incorporated
1271: 1958	IS 1271:2012 Electrical insulation - Thermal evaluation and designation	Insulating materials shall be as per this Standard	Latest revised standard to be incorporated
IS 1248 : 1968 Specification for direct acting electrical indicating instrument	IS 1248 : Part 1:2003 Direct acting indicating analogue electrical measuring instruments and their accessories: Part 1 definitions and general requirements	Given for information.	Latest standard may be incorporated.

- 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)**

Standard (No. & Title)	Provisions that could be relevant while reviewing the IS	Action proposed
IEC 60879: 2019	a) Testing of air performance for fans other than ceiling fans b) Measurement of regulator performance c) Measurement of the regulation ratio for fans other than bladeless fans d) Measurement of fan power input e) Measurement of sound power level f) Measurement of standby power	For a-d: IS 555 already contains comprehensive provisions. e & f may not be very significant for Indian consumers as it may increase the product cost. Hence may not be incorporated in this revision.

iv) Technical comments on the standard received, if any

Source	Clause of IS	Comment	Action proposed
M/s Crompton Greaves Consumer Electricals Limited Fan division	10.4, 7.8, 6.4, 6.9	Enclosed	May be incorporated after deliberation

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

Source	Development	Relevant clause of the IS under review that is likely to be impacted (Clause & IS No.)	Action proposed
M/s Crompton Greaves Consumer Electricals Limited Fan division	No major change	Nil	Nil

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

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

vii) Any consequential changes to be considered in other IS

Related IS to get impacted	Requirements to be impacted
Nil	Nil

6. Any other observation:

Following are the significant changes in the draft document:

- Reference to IS 302 (Pt 2/ Sec 80) has been incorporated in relevant clauses.
- Maximum rated voltage has been specified in the Scope
- Under General and safety requirements, provision for BLDC motor, Additional features such as IOT, remotes, LEDs etc has been added.
- Wherever for components ISS are under mandatory certification of BIS, conformity to the standard has been made a requirement.
- Marking- provisions of IS 302 (Pt 2/ Sec 80) and IS 302-1 also incorporated. BIS certification marking as per latest Act has been incorporated.
- Safety requirements which are also a requirement of IS 302 (Pt 2/ Sec 80) have been removed to avoid repetition.
- All cross referred Standards have been updated.
- Accuracy for temperature rise test shall be $\pm 0.5^{\circ}\text{C}$.
- Wire diameter shall be 1.30mm minimum
- Supply cord length shall be 1.8m minimum.

7. Recommendations:

The P-Draft is enclosed.

The above points may kindly be considered by the Technical Committee members during review of the Standard.

The Committee may also consider introducing “Low noise table type fans” with acoustic noise measurement according to IEC 60704-2-7 as an optional requirement.