BUREAU OF INDIAN STANDARDS

Program of Work

PGD 21 : Meteorological Instruments

Scope: a) Preparation of standards for rain gauges; air measures; anemometers; windvanes; Psychrometers; thermometer screen (Single and double); Evaporimeters; barometers; thermographs; hygrograph barographs etc. b) Liaison with ISO/TC 146/SC 5 Meteorology (P-Member)

Liaison: **ISO TC-146 SC-5 (P):** *Meteorology* **ISO TC-146 SC-5 (P):** *Meteorology*

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 11875:1986 Reaffirmed but not taken up for revision	Specification for diffuse pyranometer	March, 2025	1	Indigenous
2	IS 11876:1986 Reaffirmed but not taken up for revision	Specification for airmeter	February, 2019	-	Indigenous
3	IS 12781:1989 Reaffirmed but not taken up for revision	Marine bucket for sea surface temperature measurement - Specification	August, 2025	-	Indigenous
4	IS 13436:1992 Reaffirmed but not taken up for revision	Sensitive anemometer - Specification	February, 2019	-	Indigenous
5	IS 13448:1992 Reaffirmed but not taken up for revision	Meteorology - Thermoelectric Pyrheliometer - Specification	March, 2025	-	Indigenous
6	IS 13459:1992 Reaffirmed but not taken up for revision	Angstrom Pyrheliometer - Specification	March, 2025	-	Indigenous
7	IS 15216:2002 Reaffirmed but not taken up for revision	Balloons - Meteorological	February, 2019	-	Indigenous

8	IS 15243:2002	Velocity scale set for meteorological purposes	August, 2025	-	Indigenous
9	IS 15253:2002	Dew gauge - Specification	February, 2019	-	Indigenous
10	IS 16739:2018 ISO 16622 : 2002 ISO 16622 : 2002	Meteorology - Sonic Anemometers/Thermometers Acceptance Test methods for Mean Wind Measurements	June, 2023	-	Identical under dual numbering
11	IS 16740 (Part 1):2018 17713-1 : 2007 ISO 17713-1 : 2007	Meteorology - Wind Measurement Part 1 Wind Tunnel Test Methods for Rotating Anemometer Performance	June, 2023	-	Identical under dual numbering
12	IS 16741:2018 ISO 17714 : 2007 ISO 17714 : 2007	Meterology -Air Temperature Measurements Test Methods for Comparing the Performance of Thermometer Shields/Screens and Defining Important Characteristics	June, 2023	-	Identical under dual numbering
13	IS 18627:2024	Tipping Bucket Rain Gauges ï¿½ Specification		-	Indigenous
14	IS 18629:2024 ISO 19289 : 2015 ISO 19289 : 2015	Air Quality -- Meteorology --Siting Classifications for Surface Observing Stations on Land		-	Identical under dual numbering
15	IS 19758:2026	Windsocks -- Specification		-	
16	IS 4849:1992 Decision taken to Reaffirm and Archive	Meteorology - Rain measures - Specification (First Revision)	August, 2025	1	Indigenous
17	IS 5225:2024	Meteorology -- Rain gauge, non-recording -- Specification (second revision)		-	Indigenous
18	IS 5235:2025	Meteorology — Raingauges, Recording — Specification (second revision)		-	Indigenous
19	IS 5793:2024	ANEROID BAROMETERS --SPECIFICATION		-	Indigenous
20	IS 5798:1970	Specification for mercury barometers	June, 2023	1	Indigenous
21	IS 5799:1970	Specificatioti for windvane	March, 2017	-	Indigenous
22	IS 5900:2024	Hair Hygrograph - Specification (First Revision)		-	Indigenous
23	IS 5901:1970 Reaffirmed but not taken up for revision	Specification for thermograph, bimetallic	February, 2019	1	Indigenous
24	IS 5912:1997 Decision taken to Reaffirm and Archive	Specification for anemometer, cup counter (First Revision)	August, 2025	1	Indigenous
25	IS 5924:1988 Reaffirmed but not taken up for revision	Specification for clock mechanisms and drums for meteorological instruments (First Revision)	August, 2025	1	Indigenous
26	IS 5946:1992	Meteorology - Whirling	August, 2025	-	Indigenous

	Reaffirmed but not taken up for revision	psychrometer - Specification (First Revision)			
27	IS 5947:1970 Decision taken to Reaffirm and Archive	Charts for recording meteorological instruments	August, 2025	-	Indigenous
28	IS 5948:1970	Specification for thermometer screens	June, 2022	-	Indigenous
29	IS 5973:1998 Decision taken to Reaffirm and Archive	Pan Evaporimeter - Specification (First Revision)	August, 2025	-	Indigenous
30	SP 61:1994	General guidelines for automatic weather stations	February, 2019	1	Indigenous
31	IS 6805:1973 Reaffirmed but not taken up for revision	Specification for assmann psychrometer	August, 2025	1	Indigenous
32	IS 6806:2025	Snow Gauge - Specification (First Revision)		-	Indigenous
33	IS 6871:1992 Decision taken to Reaffirm and Archive	Wind equipment - Distant indicating - Specification (First Revision)	August, 2025	1	Indigenous
34	IS 7243:1974 Decision taken to Reaffirm and Archive	Specification for sunshine recorder	June, 2023	-	Indigenous
35	IS 7244:1974 Decision taken to Reaffirm and Archive	Specification for thermometer for mercury barometer	June, 2023	-	Indigenous
36	IS 8336:1977 Reaffirmed but not taken up for revision	Specification for thermoelectric pyranometer	March, 2025	4	Indigenous
37	IS 8693:2024	Net Pyrradiometer â€" Specification (First Revision)		-	Indigenous
38	IS 9085:1979	Specification for correction slide for mercury barometers	June, 2022	1	Indigenous

Standards under Development

Projects Approved

SI. No.	Doc No.	Title
No Records Found		

Preliminary Draft Standards

SI. No.	Doc No.	Title
No Records Found		

Drafts Standards in WC Stage

SI. No.	Doc No.	Title
No Records Found		

Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
No Records Found		

Finalized Draft Indian Standard

SI. No.	Doc No.	Title
No Records Found		

Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	PGD 21 (01665)	Meteorology 8722 Sonic anemometers thermometers 8722 Acceptance test methods for mean wind measurements
2	PGD 21 (01666)	Meteorology 8722 Wind measurements 8722 Part 1 Wind tunnel test methods for rotating anemometer performance
3	PGD 21 (01667)	Meteorology 8722 Air temperature measurements 8722 Test methods for comparing the thermometer shield screens and defining important characteristics
4	PGD 21 (17961)	Tipping Bucket Rain Gauges Specification
5	PGD 21 (18236) Revision of: IS 5793:1970	ANEROID BAROMETERS --SPECIFICATION
6	PGD 21 (18239) Revision of: IS 8693:1978	Net Pyrradiometer -- Specification
7	PGD 21 (23322)	Air Quality -- Meteorology --Siting Classifications for Surface Observing Stations on Land
8	PGD 21 (24675) Revision of: IS 5225:1992	Meteorology -- Rain gauge non-recording -- Specification second revision
9	PGD 21 (24682) Revision of: IS 5235:1992	Meteorology Raingauges Recording Specification second revision
10	PGD 21 (25029) Revision of: IS 5900:1970	Hair Hygrograph -- Specification First Revision
11	PGD 21 (25030) Revision of: IS 6806:1973	Snow Gauge -- Specification First Revision
12	PGD 21 (26498)	Specification for anemometer cup counter First Revision Amendment - 1
13	PGD 21 (27409)	Windsocks -- Specification
14	PGD 21 (34115)	Environmental meteorology Part 3 Ground-based remote sensing of wind by continuous-wave Doppler lidar
15	PGD 21 (34116)	Environmental meteorology Part 2 Ground-based remote sensing of wind by heterodyne pulsed Doppler lidar
16	PGD 21 (34117)	Environmental meteorology Part 1 Ground-based remote sensing of visual range by lidar
17	PGD 21 (34119)	Test methods for snow depth sensors
18	PGD 21 (35104)	Marine bucket for sea surface temperature measurement - Specification First Revision
19	PGD 21 (35105)	Specification for clock mechanisms and drums for meteorological instruments Second Revision
20	PGD 21 (35107)	Specification for diffuse pyranometer First Revision
21	PGD 21 (35108)	Specification for airmeter First Revision
22	PGD 21 (35109)	Specification for correction slide for mercury barometers First Revision

Total Published Standards:38 Total Standards Under development:22

Aspect Wise Report

Product : 30
Code of Practices : 2
Methods of Test : 3
Terminology : 0
Dimensions : 0
System Standard : 0
Safety Standard : 0
Others : 2
Service Specification : 0
Process Specification : 0
Unclassified : 1

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 10473:1983	Specification for Cloud Searchlight
2	IS 11121:1984	Specification for pyranograph bimetallic
3	IS 5945:1970	Specification for barograph aneroid
4	IS 8754:1992	Electrical anemograph - Specification First Revision

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS 11875:1986 Reaffirmed but not taken up for revision	Specification for diffuse pyranometer
2	IS 11876:1986 Reaffirmed but not taken up for revision	Specification for airmeter
3	IS 12781:1989 Reaffirmed but not taken up for revision	Marine bucket for sea surface temperature measurement - Specification
4	IS 13436:1992 Reaffirmed but not taken up for revision	Sensitive anemometer - Specification
5	IS 13448:1992 Reaffirmed but not taken up for revision	Meteorology - Thermoelectric Pyrheliometer - Specification
6	IS 13459:1992 Reaffirmed but not taken up for revision	Angstrom Pyrheliometer - Specification
7	IS 15216:2002 Reaffirmed but not taken up for revision	Balloons - Meteorological
8	IS 15253:2002	Dew gauge - Specification

9	IS 18627:2024	Tipping Bucket Rain Gauges Specification
10	IS 4849:1992 Decision taken to Reaffirm and Archive	Meteorology - Rain measures - Specification First Revision
11	IS 5225:2024	Meteorology -- Rain gauge non-recording -- Specification second revision
12	IS 5235:2025	Meteorology Raingauges Recording Specification second revision
13	IS 5793:2024	ANEROID BAROMETERS --SPECIFICATION
14	IS 5798:1970	Specification for mercury barometers
15	IS 5799:1970	Specificatioti for windvane
16	IS 5900:2024	Hair Hygrograph - Specification First Revision
17	IS 5901:1970 Reaffirmed but not taken up for revision	Specification for thermograph bimetallic
18	IS 5912:1997 Decision taken to Reaffirm and Archive	Specification for anemometer cup counter First Revision
19	IS 5924:1988 Reaffirmed but not taken up for revision	Specification for clock mechanisms and drums for meteorological instruments First Revision
20	IS 5946:1992 Reaffirmed but not taken up for revision	Meteorology - Whirling psychrometer - Specification First Revision
21	IS 5948:1970	Specification for thermometer screens
22	IS 5973:1998 Decision taken to Reaffirm and Archive	Pan Evaporimeter - Specification First Revision
23	IS 6805:1973 Reaffirmed but not taken up for revision	Specification for assmann psychrometer
24	IS 6806:2025	Snow Gauge - Specification First Revision
25	IS 6871:1992 Decision taken to Reaffirm and Archive	Wind equipment - Distant indicating - Specification First Revision
26	IS 7243:1974 Decision taken to Reaffirm and Archive	Specification for sunshine recorder
27	IS 7244:1974 Decision taken to Reaffirm and Archive	Specification for thermometer for mercury barometer
28	IS 8336:1977	Specification for thermoelectric pyranometer

	Reaffirmed but not taken up for revision	
29	IS 8693:2024	Net Pyrradiometer Specification First Revision
30	IS 9085:1979	Specification for correction slide for mercury barometers