BUREAU OF INDIAN STANDARDS

Program of Work

MED 4 : Renewable Energy Sources

Scope: Formulation of standards in the field of Renewable energy sources such as solar energy, bio-

gas energy, bio-mass energy etc.

Liaison: TC-180 (P): Solar energy TC-180 SC-1 (P): Climate - Measurement and data TC-180

SC-4 (P): Systems - Thermal performance, reliability and durability TC-285 (P): Clean

cookstoves and clean cooking solutions

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS/ISO/TR	Solar energy - Water heating	October, 2022	-	Indigenous
	10217:1989	systems - Guide to material			
	ISO/TR 10217:	selection with regard to internal			
	1989	corrosion			
	Reviewed In: 2022				
2	IS 12933 (Part	Solar flat plate collector -	January, 2019	2	Indigenous
	1):2003	Specification: Part 1 requirements			
	Reviewed In: 2019	(Second Revision)			
3	IS 12933 (Part	Solar Flat Plate Collector -		-	Indigenous
	1):2025	Specification Part 1 Requirements			
		(Third Revision)			
4	IS 12933 (Part	Solar flat plate collector -	January, 2019	3	Indigenous
	2):2003	Specification: Part 2 components			
	Reviewed In: 2019	(Second Revision)			
5	IS 12933 (Part	Solar flat plate collector -	March, 2024	1	Indigenous
	3):2003	Specification: Part 3 measuring			
	Reviewed In: 2024	instruments (First Revision)			
6	IS 12933 (Part	Solar flat plate collector -	January, 2019	2	Indigenous
	5):2003	Specification: Part 5 test methods			
	Reviewed In: 2019	(Second Revision)			
7	IS 12976:2023	SOLAR WATER HEATING		-	Indigenous
		SYSTEMS - CODE OF			
		PRACTICE (First Revision)			
8	IS 12986 (Part	Biogas plants - Glass fibre	October, 2020	1	Indigenous
	1):1990	reinforced polyester resin gas			
	Reviewed In: 2020	holders - Specification: Part 1 with			
		steel frame			
9	IS 13129 (Part	SOLAR HEATING DOMESTIC		-	Indigenous
	1):2023	WATER HEATING SYSTEMS			
		PART 1 PERFORMANCE			
		RATING PROCEDURE USING			
		INDOOR TEST METHODS			
10	IS 13129 (Part	SOLAR HEATING DOMESTIC		-	Indigenous
	2):2023	WATER HEATING SYSTEMS			
		PART 2 PROCEDURE FOR			

1	I	L GYGTEN DEDEODMANGE		1	.
		SYSTEM PERFORMANCE CHARACTERIZATION AND			
		YEARLY PERFORMANCE			
		PREDICATION			
11	IS 13129 (Part	Solar Heating - Domestic Water		-	Indigenous
	3):2024	Heating Systems Part 3 Procedures			C
		for System Component			
		Characterization and Predication			
		for Yearly Performance Using			
		Component Performance Data			
		(First Revision)			
12	IS 13129 (Part	SOLAR HEATING DOMESTIC		=	Indigenous
	4):2023	WATER HEATING SYSTEMS			
		PART 4 DETERMINATION OF			
		DURABILITY AND			
		RELIABILITY			
13	IS 13152 (Part	Portable solid bio - Mass cookstove	March, 2024	-	Indigenous
	1):2013	(Chulha) - Specification (First			
	Reviewed In: 2024	Revision)			Y "
14	IS 13429 (Part	Solar Cooker - Box Type -	-	-	Indigenous
	1):2020	Specification Part 1 Requirements			
		(Second Revision)			
1.7	IC 12420 /P		M 1 2024		T 1'
15	IS 13429 (Part	Solar cooker - Box type -	March, 2024	-	Indigenous
	2):2018	Specification: Part 2 components (Second Revision)			
	Reviewed In: 2024	(Second Revision)			
16	IS 13429 (Part	Solar cooker - Box type -	March, 2024		Indigenous
10	3):2018	Specification: Part 3 test method	March, 2024		margenous
	3).2010	(Second Revision)			
	Reviewed In: 2024	(Second Revision)			
17	IS 16368:2015	Test procedure for thermosyphon	October, 2020	-	Indigenous
		type domestic solar hot water	,		C
	Reviewed In: 2020	heating systems			
18	IS 16543:2024	All-glass evacuated solar collector		-	Indigenous
		tubes - Specification (First			
		revision)			
19	IS 16648 (Part	Concentrated solar thermal -	October, 2022	-	Indigenous
	1):2017	Specification: Part 1 paraboloid			
		dish concentrator			
	Reviewed In: 2022				
20	IS 16648 (Part	Concentrated solar thermal -	October, 2022	-	Indigenous
	2):2017	Specification: Part 2 scheffler			
	D : 11 2022	concentrator			
21	Reviewed In: 2022	Concentrated select	0.4-1 2022		T., 1!
21	IS 16648 (Part	Concentrated solar thermal -	October, 2022	-	Indigenous
	3):2017	Specification: Part 3 parabolic			
	Reviewed In: 2022	trough concentrator			
22	IS 16648 (Part	Concentrated solar thermal? -	October, 2022		Indigenous
	4):2018	Specification: Part 4 non - Imaging	OCTOUCI, 2022	_	marganous
	7).2010	concentrator			
	Reviewed In: 2022	Concentiator			
23	IS 16648 (Part	Concentrated solar thermal -	October, 2022	2	Indigenous
	5):2017	Specification: Part 5 test methods		_	
	Reviewed In: 2022				
24	IS 18727:2024	Manifold Type Storage Water		-	Indigenous
		Tank for All Glass Evacuated			
1	İ	ı L		I	

		Tubes Solar Collector Systems - Specification			
25	IS 9478:2023	Design, Construction, Installation and Operation of Biogas (Biomethane) Plant � Code of Practice		-	Indigenous
26	IS/ISO 9488:2022 ISO 9488: 2022 ISO 9488: 2022	Solar Energy - Vocabulary (First Revision)		-	Identical under single numbering
27	IS/ISO 9847:1992 ISO 9847 Reviewed In: 2022 ISO 9847:1992	Solar energy - Calibration of field pyranometers by comparison to a reference pyranometer	October, 2022	-	Identical under single numbering

Standards under Development

	Projects Approved				
SI. No.	SI. No. Doc No. Title				
No Records Found					

		Preliminary Draft Standards			
SI. No.	SI. No. Doc No. Title				
No Records Found					

	Drafts Standards in WC Stage				
SI. No.	SI. No. Doc No. Title				
	No Records Found				

	Draft Standards Completed WC Stage				
SI. No.	Doc No.	Title			
1	MED 4 (28244)	Direct insertion type storage water tank for all glass evacuated tubes solar collector - Specification Amendment No - 1			

	Finalized Draft Indian Standard				
SI. No.	SI. No. Doc No. Title				
	No Records Found				

	Finalized Draft Indian Standards under Print			
SI. No.	Doc No.	Title		
1	MED 4 (27551) Revision	Solar Flat Plate Collector - Specification Part 2 Components Third Revision		
	of: IS 12933:2003			
2	MED 4 (27552) Revision	Solar Flat Plate Collector - Specification Part 5 Test Methods Third Revision		
	of: IS 12933:2003			
3	MED 4 (28245)	All glass evacuated tubes solar water heating system Amendment No - 3		

Total Published Standards:24 Total Standards Under development:4

Aspect Wise Report

Product : 11 Code of Practices : 8 Methods of Test: 4
Terminology: 1
Dimensions: 0
System Standard: 0
Safety Standard: 0
Others: 0

Service Specification: 0 Process Specification: 0 Unclassified: 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 12933 (Part 4):1990	Solar flat plate collector Part 4 Performance requirements and accepted criteria
2	IS 12934:1990	Solar energy - Thermal applications - Vocabulary
	9488	
	Reviewed In: 2010	
3	IS 13429 (Part 1):2000	Solar Cooker - Box Type - Part 1 Requirements
	Reviewed In: 2010 IEC TS	
	62351-100-3:2020	

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS 12933 (Part 1):2025	Solar Flat Plate Collector - Specification Part 1 Requirements Third Revision
2	IS 12933 (Part 2):2003	Solar flat plate collector - Specification Part 2 components Second Revision
	Reviewed In: 2019	
3	IS 12933 (Part 3):2003	Solar flat plate collector - Specification Part 3 measuring instruments First Revision
	Reviewed In: 2024	
4	IS 12986 (Part 1):1990	Biogas plants - Glass fibre reinforced polyester resin gas holders - Specification Part 1 with steel
	Reviewed In: 2020	frame
5	IS 13152 (Part 1):2013	Portable solid bio - Mass cookstove Chulha - Specification First Revision
	Reviewed In: 2024	
6	IS 16543:2024	All-glass evacuated solar collector tubes - Specification First revision
7	IS 16648 (Part 1):2017	Concentrated solar thermal - Specification Part 1 paraboloid dish concentrator
	Reviewed In: 2022	
8	IS 16648 (Part 2):2017	Concentrated solar thermal - Specification Part 2 scheffler concentrator
	Reviewed In: 2022	
9	IS 16648 (Part 3):2017	Concentrated solar thermal - Specification Part 3 parabolic trough concentrator
	Reviewed In: 2022	
10	IS 16648 (Part 4):2018	Concentrated solar thermal - Specification Part 4 non - Imaging concentrator
	Reviewed In: 2022	
11	IS 18727:2024	Manifold Type Storage Water Tank for All Glass Evacuated Tubes Solar Collector Systems - Specification