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# भारतीय मानक ब्यूरो

## BUREAU OF INDIAN STANDARDS

### MINUTES

Meeting	Date and Day	Time
<b>31<sup>st</sup> Meeting of Renewable Energy Sources Sectional Committee, MED 04</b>	<b>13 June 2025 (Friday)</b>	<b>11:00 hrs (Webex Virtually)</b>
<b>Chairperson/Convener:</b> Dr A. K. Tripathi, Scientist 'G', Ministry of New and Renewable Energy, New Delhi		
<b>Member Secretary:</b> Ms Ankita Vidhyarthi, Scientist 'D'/Joint Director, Bureau of Indian Standards, New Delhi		

The Attendance in the Meeting of Renewable Energy Sources Sectional Committee MED 04 is given at **Annex A**.

#### ITEM 0 WELCOME AND OPENING REMARKS

**0.1** Head, Mechanical Engineering Department, was not available due to some other important meeting.

**0.2** Chairperson Shri A. K. Tripathi, Scientist-G, MNRE, welcomed the committee members in this meeting and expressed heartfelt gratitude to all committee members for their dedicated involvement. He conveyed optimism for a productive and fruitful deliberation, anticipating that the committee's collective efforts would contribute meaningfully to the advancement of renewable energy goals in the nation.

#### ITEM 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

The Minutes of the 30th Meeting of Renewable Energy Sources Sectional Committee held on **19 March 2025** were circulated to all the members via reference no. **MED04/A-2.30** email dated **06 June 2025**.

*The Committee **confirmed** the Minutes of the last Meeting.*

#### ITEM 2 SCOPE AND COMPOSITION OF THE SECTIONAL COMMITTEE

##### 2.1 Scope

Formulation of standards in the field of Renewable energy sources such as solar energy, bio-gas energy, bio-mass energy etc.

*The Committee noted the information.*

## 2.2 Composition of the Committee

2.2.1 *The Committee Noted the information.*

2.2.2 *The Committee Noted the information.*

2.2.3 The Committee decided that one reminder e-mail may be sent to the non-participating members and in case of no response, they may be dismissed from the committee. Following members were considered for dismissal –

- 1) Dr. Ankit Gupta and Mr. Poonam Prasad from CSIR- Central Engineering Research Institute, Durgapur
- 2) Shri Raju Hoyal, Shri Manmohan Rathi, Shri Shubho Chakravarti, Cement manufacturers association, New Delhi
- 3) Shri Vimal Kumar , Shri Rajiv Gupta, CPWD, New Delhi
- 4) Shri Pradipta Kumar, Shri Puran Lal meena, IREDA, New Delhi
- 5) Shri Anil Pruthi,, Ministry of Ports, Shipping and waterways, New Delhi
- 6) Shri N.K. Ram, The Energy and Resources institute, New Delhi
- 7) Shri Atam Kumar, In person Capacity

Prof Anagha Pathak informed that she has left RTC Pune and requested to be included in-person capacity. *The Committee agreed to it.*

## 2.3 Programme of Work

2.3.1 *The Committee Noted the information.*

2.3.2 *The Committee Noted the information.*

## ITEM 3 ROLLING ANNUAL ACTION PLAN FOR THE YEAR 2025-26

3.1 *The Committee Noted the information.*

3.2 *The Committee Noted the information.*

## ITEM 4 ACTION TAKEN ON MINUTES OF THE LAST MEETING

4.1 The Actions taken on decision of last meeting of Renewable Energy Sources Sectional Committee, MED 04:

Sl No.	Decision of 30 <sup>th</sup> Meeting	Action Status since the last Meeting	Remarks	Decision of the Committee in 31 <sup>st</sup> Meeting
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1)	<p>The Committee decided that a joint Panel is to be formed for discussion on issues pertaining to IS 16544 and IS 12933 (Part 1, 2 and 5).</p> <p>The members of the Panel, as decided by the committee, are as follows</p> <ol style="list-style-type: none"> <li>1. Prof. S.K Samdarshi (Convenor)</li> <li>2. Prof Anish Modi (IIT Bombay)</li> <li>3. Shri Vikrant Yadav (NISE)</li> <li>4. Shri Rajkumar (MNRE)</li> <li>5. Shri Manjunath Ullur (Emmvee photovoltaic)</li> <li>6. Shri Jaideep Malviya (STFI)</li> <li>7. A representative from V-Guard</li> <li>8. A representative from Reckon Solar</li> </ol> <p>The panel informed the committee that it will hold a meeting on 26th March.</p>	<p><i>The Panel meeting was held on 26th March 2025.</i></p> <p><a href="#">MoM BIS meeting (4).docx</a>  <a href="#">Email Draft MoM BIS meeting on March 26, 2025.pdf</a></p> <p><i>The panel made its recommendations regarding revision of IS 12933 (Part 1, 2 and 5) and Amendment No. 3 to IS 16544. Also, the panel recommended certain modifications in IS 16542 and amendments to be issued.</i></p> <p><a href="#">Email from BIS reagrding Panel meeting minutes.pdf</a></p> <p><i>The recommendations of the panel for revision of IS 12933 (Part 1, 2 and 5) were circulated to the Committee .</i></p> <p><i>Amendments for IS 16542 and IS 16544 were also put up for circulation in the Committee.</i></p> <p><a href="#">[MED 04] Status of documents for revision amendment in MED 04.pdf</a></p> <p><i>Inputs from Committee members were received regarding modifications for Amdt 2 of IS 16544 and IS 12933 (Part 2).</i></p> <p><a href="#">Modification in Amdt 2 of IS 16542.pdf</a>  <a href="#">Modification in IS 12933 part 2.pdf</a></p> <p><i>Final drafts for WC of Amendments to IS 16544 and IS 16542 are as-</i></p> <p><a href="#">IS 16544_WC_Amendment No. 3.docx</a></p>	<p><i>The Committee may deliberate and accord their approval for</i></p> <ol style="list-style-type: none"> <li>1) Circulation of F-draft as per IS 12933 (Part 1).</li> <li>2) Circulation of F-draft as per IS 12933 (Part 2), incorporating the suggestions made in the WC draft, subject to no other suggestions received at the end of WC period.</li> <li>3) Circulation of F-draft as per IS 12933 (Part 5), subject to no other suggestions received at the end of the WC period.</li> <li>4) Circulation of</li> </ol>	<p><i>The Committee accorded their approval for circulation of the documents as per Points 1, 2, 3 and 4.</i></p>
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		<a href="#">IS 16542 final amdt 2 for WC.docx</a>  Final draft after incorporation of suggestion as per IS 12933 (Part 2) is as -  <a href="#">MED04 WC IS 12933-2 10.06.2025.docx</a>	<i>WC draft of Amendment 2 of IS 16542 and IS 16544.</i>	
	<p><b><u>Background</u></b></p> <p>1) Comments were received regarding Amd 2 to IS 16544 from CMD 1 and Manak Manthan held by Bangalore Branch Office.</p> <p><a href="#">Email 20 sep 2023.pdf</a>  <a href="#">Report on Manak Manthan .xlsx</a>  <a href="#">Email for panel meeting IS 16544 04 OCT 2023.pdf</a>  <a href="#">Email_AMD_IS 16544 19 DEC 2023.pdf</a>  <a href="#">Email_AMD_IS 16544 20 FEB 2024.pdf</a>  <a href="#">Email_Proposal for concurrent running of IS 16544 2016 with and without Amendment No 2.pdf</a></p> <p>2) Discussion of the panel during the meeting held on 10 October 2023 could not be done as majority of the members were not present during the meeting.</p> <p>3) Panel Meeting reminder was sent to the members by MS vide email dated 08.08.2024.  <a href="#">EMAIL 08-08-2024 PANEL MEETING MED04 REMINDER.pdf</a></p> <p>4) The Panel meeting was organised by Shri Vikrant Yadav, NISE on 14.08.2024.  <a href="#">EMAIL_VIKRANT_YADAV_PANEL_MEETING_16-08-2024.pdf</a></p> <p>However, no actions could be taken in the meeting due to absence of the other members.</p> <p>Subsequently, comments from the members were invited by Shri Vikrant Yadav. Comments were received from Shri Asim Joshi via email dated <b>22.08.2024</b>.  <a href="#">Email Asim Joshi 22-08-2024.pdf</a></p> <p>The constitution of the panel is as-</p> <ul style="list-style-type: none"> <li>a) Dr. Avadhesh Yadav, DDG NISE (<b>Convenor</b>).</li> <li>b) Prof. Santanu Bandopadhyay of IIT Mumbai.</li> <li>c) Prof Anagha Pathak of RTC Pune.</li> <li>d) Shri Vikrant Yadav from NISE.</li> <li>e) Shri Asim Kumar Joshi, SPRERI.</li> <li>f) Shri Vikram Dhaka, MNRE.</li> <li>g) Prof K. Srinivas Reddy, IIT Chennai.</li> </ul> <p>5) A panel meeting for discussion related to comments received on Amdt 2 to IS 16544 was held on 01.10.2024. The Committee accepted the recommendation of the panel for IS 16544 during the 29th Meeting.</p>			

2)	MED/04/27549 [IS 12933 : Part 1: 2003]	Solar Flat Plate Collector - Specification Part 1 Requirements (Third Revision)	In WC-Draft Stage	The Committee accepted the working draft of the panel & agreed they can be widely circulated for comments in the Technical Committee.	The document Submitted for comments in the Committee at WC-stage .  <b>Remarks:</b> Last date for sharing the comments is: <b>14 March 2025</b>  No comments have been received in the WC draft. The committee may approve the draft for <b>printing</b> .  <a href="#">WC_27549_12-02-2025_copy.pdf</a> <a href="#">Cover letter_27549_18022025_1.pdf</a>	<i>Circulation of the document was approved by the committee as already mentioned per Cl 4.1(1).</i>
3)	MED/04/27551 [IS 12933 : Part 2: 2003]	Solar Flat Plate Collector - Specification Part 2 Components (Third Revision)	WC stage	Document in WC stage. The last date for comments is 08 June 2025.	Please see SI No. 1 of Cl 4.1.	<i>Circulation of the document was approved by the Committee as already mentioned per Cl 4.1(1).</i>
4)	MED/04/27552 [IS 12933 : Part 5: 2003]	Solar Flat Plate Collector - Specification Part 5 Test Methods (Third Revision)	WC stage	Document in WC stage. The last date for comments is 08 June 2025.	Pl see SI No. 1 of Cl 4.1.	<i>Circulation of the document was approved by the committee as already mentioned per Cl 4.1(1).</i>

### 4.3 Standards Under Publication

*The Committee Noted the information.*

### 4.4 Comments on Published/Draft Indian Standard

*The Committee Noted the information.*

## ITEM 5 REVIEW OF PUBLISHED INDIAN STANDARD

### 5.1 Status of Review/Re-affirmation of Standards in 2024-25.