



भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

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MINUTES

MEETING	DAY & DATE	TIME	VENUE
Thirty-Eighth meeting of Refrigeration and Air Conditioning Sectional Committee, MED 03	Monday 17 July 2023	1030-1600 hr	WebEx

CHAIRPERSON: Prof. (Dr.) Ravi Kumar, Department of Mechanical & Industrial Engineering, Indian Institute of Technology (IIT), Roorkee, Uttarakhand.

MEMBER SECRETARY: Miss Khushbu Jyotsna Kindo, Scientist 'C'/Deputy Director (MED), BIS, New Delhi.

MEMBERS PRESENT: *See Annex 1*

Item 0 WELCOME AND OPENING REMARKS

0.1 Welcome & Opening remarks by Head (MED), BIS

Shri Navindra Gautam, Sc. E/Director and H(MED) welcomed the Chairperson and members of the technical Committee in the 38th meeting of Refrigeration and Air Conditioning Sectional Committee, MED 03. He acknowledged that Refrigeration and Air Conditioning Sectional Committee is one of the most important and active committee of Mechanical Engineering Department with several pertinent ongoing standard development work. He apprised the members of some of the latest initiatives taken by BIS such as the new standardization portal to access all committee related documents and also regarding standardization activity of other departments of BIS, research-based empirical data for standardization that will be reflected in the foreword/annex of the standard, closer examination of new work item proposals received from ISO/IEC, effective participation of Indian experts in ISO/IEC by submitting comments and participating in the meetings, etc. With this he hoped for fruitful deliberation.

0.2 Welcome & Opening remarks by Chairperson.

Prof. (Dr) Ravi Kumar, Chairperson, of MED 03 welcomed the Committee members to the 38th sectional committee meeting of MED 03. He appreciated that the committee is very active and acknowledged the contributions of the members. He apprised that RAC is a very dynamic area and rules and regulation are being updated in a fast pace that require standards to be updated from time to time. With this the Chairperson hoped for fruitful deliberation.

At present subscription has been taken for Air Conditioning and Refrigeration Journal of the Indian Society Heating, Refrigerating and Air Conditioning Engineers (ISHRAE). The Committee requested the members to suggest important journals and magazines that may benefit this committee.

ix) Creation of pool of experts

The Committee decided to keep experts from various academia like IIT Delhi, IIT Bombay, IISC Bangalore, etc in the mailing list and circulate various documents for their expert opinion. Shri Chethan Tholpady and Shri V Manjunath will share the details to be added in the mailing list.

Item 4 ACTION ARISING OUT OF THE PREVIOUS MEETING(S)

4.1 The summary of actions taken on the minutes of the last meeting and present status are given below:

Sl No.	Item no.	Decision of 37 th meeting	Present Status	Decision of 38 th meeting
<u>REFRIGERATION</u>				
1	3.1 (1)	<p>Household refrigerating appliances</p> <p>The Committee noted the information and decided to add LG to the Panel. It requested the panel to consider sound requirement in the standard.</p> <p>The present composition of the Panel on household refrigerators is as follows:</p> <p>i) Shri P K Mukherjee (Convener), ii) Ms. P Samal, BEE iii) Dr. P Chandrashekhar, CPRI iv) Shri B K Mukhopadhyay, VOICE v) Shri C M Pathak, Intertek vi) Shri Satish Kumar, UL vii) Shri Rakesh Patel, ERDA viii) Shri Vijay Kumar, BSH ix) Shri Kali Charan Sahu, Samsung</p>	<p>The following documents were wide circulated (<i>See</i> Item 6.6 to 6.8):</p> <p>i) MED/03/22235 ‘Household Refrigerating Appliances Characteristics and Test Methods Part 1 General Requirements [<i>First revision</i> of IS 17550 (Part 1): 2021]’</p> <p>ii) MED/03/22236 ‘Household Refrigerating Appliances Characteristics and Test Methods Part 2 Performance Requirements [<i>First revision</i> of IS 17550 (Part 2): 2021]’</p> <p>iii) MED/03/22237 Household Refrigerating Appliances Characteristics and Test</p>	<p>MS informed that Shri Mohinder Singh of M/s Whirlpool had confirmed regarding the adoption of IEC TR 63061:2017 ‘Adjusted volume calculation for refrigerating appliances’.</p> <p>Shri Satish Kumar of UL requested the Committee for 10 more days to review IEC TR 63061:2017.</p> <p>Shri P K Mukherjee informed that at present in IEC 62552 series the concept of adjusted volume is still not present. He further added that BEE star labelling program is still based on adjusted volume. So having an Indian Standard on the subject will be very useful. However, it needs to be further deliberated on how the standard can be used in IS 17550 series.</p> <p>The Committee requested the Panel to provide recommendation in the next meeting and also requested the</p>

		<p>x) Shri Mohinder Singh BC, M/s Whirlpool of India Limited</p> <p>xi) Shri Sunderamoorthy, M/s Panasonic India Pvt. Ltd.</p> <p>xii) Dr. J Mathur of ISHRAE,</p> <p>xiii) Representative of CEAMA, and</p> <p>xiv) Shri Mr. Viral Shah of M/s Voltas Beko</p> <p>xv) Shri Aditya Anil of M/s LG.</p> <p>The Committee noted the information. It approved the proposal of adopting IEC TR 63061:2017 ‘Adjusted volume calculation for refrigerating appliances’ received from Shri P K Mukherjee.</p> <p>It was decided that a copy of the IEC TR will be circulated to the Panel and Committee for 1 week for feedback. If no response is received the document shall be wide circulated for 1 month.</p> <p>It further decided to make a reference to IEC TR 63061 in the relevant part of IS 17550 (Part 1 to 3).</p>	<p>Methods Part 3 Energy Consumption and Volume [<i>First revision of IS 17550 (Part 3): 2021</i>]</p> <p>Comment has been received.</p> <p>IEC TR 63061:2017 ‘Adjusted volume calculation for refrigerating appliances’ was circulated to the Panel on 26th May 2023. Shri Mohinder Singh of M/s Whirlpool, Shri Ajit Deshmukh of M/s Godrej, and Shri Biswaranjan Jena of M/s Haier India have requested for more time to study the document.</p> <p>The Committee may CONSIDER and DECIDE.</p>	<p>panel to dispose of the comments on WC drafts.</p> <p>The Committee decided that the final draft received from the Panel shall be sent for printing.</p>
2	3.1 (2)	<p>IS 17773 : 2022 Closed-Circuit Ammonia Refrigeration System — Code of Practice for Design and Installation (ANSI/IIAR 2 : 2014, NEQ)</p> <p>The Committee requested the Panel to provide recommendations on</p>	<p>Update is awaited from the Panel.</p> <p>The Committee may ADVISE.</p>	<p>The Committee requested Shri Kiran Kumar, Danfoss India (Co-convenor) to Convene the Panel meeting in case the Convenor is not available. It requested the Panel to provide recommendations on comments by the next meeting.</p>