## BUREAU OF INDIAN STANDARDS (MINUTES)

Name of the Committee	Number of Meeting	Date	Time	Venue
Sugar Industry Sectional Committee, FAD 2	18 <sup>th</sup> Meeting	23 <sup>rd</sup> September 2022	3:30 PM	National Sugar Institute, Kanpur, UP (Hybrid Mode)

ChairmanMember SecretaryProf. Narendra MohanRAJPALDirector, National Sugar Institute,Scientist-DKanpur, UPBIS, New Delhi

#### ITEM 0 GENERAL

#### 01. Welcome address by Member Secretary

Sh. Rajpal, Scientist-D & Member Secretary, Food and Agriculture department, welcomed the Chairperson and all the members to the 18th meeting of Sugar Industry Sectional Committee, FAD 02 and thanked them for sparing their valuable time for supporting BIS in its pursuit of standardization.

#### 0.2 Opening Remarks by the Chairman, FAD 02

Prof. Narendra Mohan, Chairperson, FAD 02 welcomed the members to the 18th meeting of FAD 02 and thanked them for participation and requested all the members to extend active participation in the proceedings of the meeting. He also advised the members to express their views freely and contribute their expertise for up gradation of standards. He desired that the meeting should be held more frequently and expressed concerned over lean attendance in meeting. He requested the esteemed committee members to be more pro-active in responding to the Indian Standards drafts circulated as their inputs and feedbacks are critical for BIS specially standards which are to be revised such as Test methods-sugar and sugar product, factory layout and Hygiene in Sugar factory.

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

**1.1** The minutes of the seventeenth meeting of Sugar Industry Sectional Committee, FAD 2 confirmed by the committee which held on Tuesday 25th January 2022 circulated vide circulated vide email dated 16<sup>th</sup> February 2022. However, no comments received.

#### ITEM 2 SCOPE, ACTIVITIES & COMPOSITION OF THE SECTIONAL COMMITTEE

- 2.1 The Committee considered the agenda item and noted the scope of FAD 2 given in Annex I of agenda.
- 2.2 The Committee considered the agenda item and examined the composition of FAD 2 given in Annex II of agenda. Committee directed BIS Secretariat to prepare the list of member organizations which has not attended last three meetings. Annexure-II A is attached herewith as per the decision of committee.

ITEM 3 ACTIONS ARISING OUT OF PREVIOUS MEETING

Sl	Ref. Clause of agenda of 17th meeting	Action taken/Status	<b>Decision of the Committee</b>
No	of sugar Industry		
1	of Sectional Committee 2. 2 Following organizations/Individual were recommended for withdraw due to lack	a) National Co-operative Development	Committee noted the same for information
2	Committee decided to co-opt the following organizations a) Central Food Technological Research Institute (CFTRI). Mysore b) National Research Development Corporation, New Delhi c) Dr Sushil Solomon- Personal Capacity d) National Institute Sugar, Kanpur	18.08.2022 seeking nomination of following organization a) Central Food Technological Research Institute (CFTRI). Mysore b) National Research Development	Committee decided to seek afresh nominations from National Research Development Corporation, New Delhi. However, Central Food Technological Research Institute (CFTRI), Mysore has provided the nominations of principal and alternate members, hence composition updated accordingly.

Item 3, Review of Indian Standards: Panel 1 Committee constituted the Panel and assigned the following Indian Standards to review a) Shri Ashok Garg (Convener) National Sugar Institute, Kanpur b) Shri Deep Malik- Indian Sugar Mills Association, New Delhi c) Shri S Somasundaram- National Fed. of Co-op. Sugar Factories Ltd, New Delhi d) Shri Rajesh Singh- Trivini Engineering & Industries Ltd, Muzaffarnagar e) Prof. S K Gupta- Personal Capacity 1. IS 5527:1969 Layout plan for Sugar factory laboratories 2. IS 11102:1984 Specification for glass bottles for sugar standards 3. IS 14350:1996 Committee decided to send the locument was 31.08.2022  Third Panel Meeting held on 17 June 2022 wherein Panel deliberated on IS 14350:1996 Code for hygienic for sugar factory. Further, no progress could not be made on IS 5527 by the expert Panel. Beside, 11102:1984 Specification for glass bottles for sugar standards has been committee members for 21 the committee members for 21 the comments received, to be placed before the committee in the next meeting. Furthermore, committee decided to send the locument to be received by 15th of December 2022. Then document to be circulated among the committee members as preliminary draft for a period of 21 days. thereafter two months for wide circulation. The last date of comment was 31.08.2022  Third Panel Meeting held on IS 14350:1996 Code for hygienic for sugar factory. Further, decided to send the document as preliminary draft among the committee members for 21 the committee in the next meeting.  Further, no progress could not be made on IS 5527 by the expert Panel.  Beside, 11102:1984 Specification for woments for upon the committee decided to send the IS 5527:1969 Layout plan for Sugar factory laboratories to Shri K Jagadeesh from Balrampur Chini Mills Ltd. Further, document to be received by 15th of December 2022. Then document to be circulated among the committee members for 21 the committee decided to send the IS 5527:1969 Layout plan for Sugar factory laboratories to Shri K Jagadeesh f	3	<u> </u>	Communication was sent to ISGEC Heavy Industry Engineering, Noida seeking their nomination of Principal and Alternate Member, Nomination received and Composition updated accordingly.	Committee Noted the information
		Panel 1 Committee constituted the Panel and assigned the following Indian Standards to review a) Shri Ashok Garg (Convener)-National Sugar Institute, Kanpur b) Shri Deep Malik- Indian Sugar Mills Association, New Delhi c) Shri S Somasundaram- National Fed. of Co-op. Sugar Factories Ltd, New Delhi d) Shri Rajesh Singh- Trivini Engineering & Industries Ltd, Muzaffarnagar e) Prof. S K Gupta- Personal Capacity 1. IS 5527:1969 Layout plan for Sugar factory laboratories 2. IS 11102:1984 Specification for glass bottles for sugar standards 3. IS 14350:1996 Committee decided to refer back the IS 5527:1969 Layout plan for Sugar factory laboratories. Panel needs to review as per the suggestion of committee. Further, changes need to be	2022 wherein Panel deliberated on IS 14350:1996. Copy of Panel Meeting attached as ANNEXURE- 3. Further, no progress could not be made on IS 5527 by the expert Panel. Beside, 11102:1984 Specification for glass bottles for sugar standards has been sent among committee members for 21 days as preliminary draft, thereafter two months for wide circulation. The last date	by panel to be incorporated into IS 14350:1996 Code for hygienic for sugar factory. Further, decided to send the document as preliminary draft among the committee members for a period of 21 days, thereafter two months for wide circulation. If comments received, to be placed before the committee in the next meeting. Furthermore, committee decided to send the IS 5527:1969 Layout plan for Sugar factory laboratories to Shri K Jagadeesh from Balrampur Chini Mills Ltd. Further, document to be received by 15 <sup>th</sup> of December 2022. Then document to be circulated among the committee members as preliminary draft for a period of 21 days. If comments received, to be incorporated and placed before the committee in the next meeting.  Besides, committee decided after due deliberation to finalize the FAD2 (19237) F Specification for glass bottles for sugar

14350:1996 Code for hygienic conditions for sugar factories. Besides, committee decided that preliminary draft of Indian Standards 11102:1984 Specification for glass bottles for sugar standards may be sent among committee members for 21 days, thereafter two months for wide circulation. comments received to be placed before the committee in the next meeting.

## Panel 2

Committee constituted the Panel and assigned the following Indian Standards to review

- 1. Shri J P Srivastava (Convener)-National Sugar Institute, Kanpur
- 2. Shri Anurag Goel- ISGEC Heavy Industry Engineering, Noida
- 3. Shri Sachin Agarwal-Shrijee Process Engineering Works Ltd, Mumbai Shri
- 4. S Somasundaram- National Fed. of Coop. Sugar Factories Ltd, New Delhi
- 5. Shri Rajeev Gupta- Jindal Stainless Steel, Hissar
- 1.IS 11238:1985 Specification for hubs for cane knives
- 2.IS 11492:1985 Rotary Vacuum Filter Screens for Sugar Industry
- 3. IS 12198:1987 Specification for sprockets for sugar industry Committee

Item3, Review of Indian Standards: As per the decision of committee, IS 11238:1985 Specification for hubs for cane knives and IS 12198:1987 Specification for sprockets for sugar industry are sent among the committee members for a period 21 days whereas the Wide circulation (WC) of IS 11492:1985 Rotary Vacuum Filter Screens for Sugar Industry has been completed. Last of comment for WC was 31.08.2022, No comment received on WC document.

Committee decided that IS 11238:1985 Specification for hubs for cane knives and IS 12198:1987 Specification for sprockets for sugar industry to be sent for wide circulation for a period of two months, if comments received, to be placed before the committee. In case no comments received after the wide circulation period is over, to be sent for publication.

Further, committee decided to finalize FAD2 (19242) Rotary Vacuum Filter Screens for Sugar Industry (Revision of 11492) for sending it to publication.

	decided after due deliberation that referred Indian Standards to be sent as preliminary draft among committee members for a period 21 days. If comments received to be incorporated into drafts. Further, documents to be sent for wide circulation for a period of two months, if comments received to be placed before the committee in ne		
6	deliberation to finalize the following Indian Standards for send them to publication.	publication: a) IS 12935:1990 Recommended Industrial Screens for Grading Sugar b) IS 13316:1992 Welded Austenitic Stainless-Steel Tubes for Heat Exchanges	Committee noted the Information
7	National Sugar Institute shared the draft document of Palm Sugar, Bura and Misri. Committee decided to send the as preliminary draft for 21 days among the committee members.  Then, wide circulation for a period of two months. If comments received, to be placed before the committee for deliberation in next meeting.  Further, Deep Malik from ISMA and Dr Vasudha Keskar are requested to provide the liquid gur/Jaggary to NSI, Kanpur for analysis purpose.	Specification (First Revision of IS 14400)  2. FAD2 (19226) C BURA- Specification (First Revision of IS 12924)	Specification (First Revision of IS 14400) 2. FAD2 (19226) C BURA- Specification

- After due deliberation Committee decided that the decision on this subject will be taken after the panel meeting and its recommendations. The panel to give to recommendations by February 2022. Expert panel as under will provide the working draft for Brown and Low Sulphur Sugar
  - a) Dr Vasudha Keskar (Convener)
  - b) Shri Ashok Garg-NSI
  - c) Deep Malik- ISMA d) Mr Vijay Singh- DCM

A panel meeting was held on 25th April 2022 and recommended the changes which are incorporated into working drafts. Copy of Minutes and Working Draft are attached Brown Sugar and Low Sulphur Sugar.

Committee A panel meeting was held on 25th April Committee decided after due deliberation for working draft of Low Sulphur Sugar as meeting and which are incorporated into working follows:

Colour Value- 65 IU

Loss on drying- 0.05, Max

Polarization – 99.7, Min

Above changes to be incorporated into Low Sulphur Sugar and to be send the document as a preliminary draft among the committee members for a period of 21 days and then for wide circulation for a period of two months. If comments received, to be placed before the committee.

Further, Committee decided to incorporate the changes as follows into working draft of brown Sugar

Characteristics	Requirement	
	Light	Dark
	Brown	Brown
Polarization, Min	97.5	96.6
Colour, Max	2500	4000
Loss on drying, Max	1.0	1.5
Reducing Sugar, Max	1.0	1.25

			Conductivity Ash, Max	0.35	0.40
			Sulphur, (SO <sub>2</sub> ), Max	20	20
			Further, committee to be circulated as a the committee men days and then for period of two month to be placed before	preliming the preliming the precious of the precious of the precious of the precious of the preliming the prelimination of the p	nary draft among r a period of 21 circulation for a nments received,
9	Committee decided to constitute the panel to examine the presentation shared by Ramco Industry Limited and provide the recommendation to committee.  a) Prof. Doctor Swain - NSI, Kanpur b) Shri Deep Malik - ISMA  c) Shri Sachin Aggarwal — Shrijee Engineering d) Representative of National Federation of cooperative Sugar Factories Limited	Communication sent to experts along with the PPT received from M/s Ramco Industry Inputs are awaited.	Expert Panel a representation rece industry decided that experts required parameters such specialized product, and safety concern draw the scientific material in construct as of now.	for tensile of material conclusions	ck of specialized assessment of e strength of al of construction erial, unable to sion for use of
10	Item 5: comments on Indian standards: Committee decided to reconstitute the panel for revision of Indian Standard 1. Dr. Vasudha Keskar (Convener) 2. Deep Malik- ISMA, New Delhi 3.Shri Rajesh Singh – Triveni Engineering & Industry 4. Shri V P Srivastava- NSI, Kanpur	Draft document is under compilation and as discussed with convener. It will be placed before the committee on 23.09.2022.	The working draft received from land (Convener) after coof all the requisite will be send as prelicommittee member circulation for a present the control of	Dr. Vampilation wethods iminary s for 21	asudha Keskar on and re-written s. The document draft among the days and wide

11	5. Dr M Mandal- NSI, Kanpur Committee requested to Panel Convener to compile all the test methods from all the members within 15 days. Thereafter, preliminary draft to be circulated among the committee members for 21 days. If comments received to be incorporated into document. Further, document to be sent for wide circulation for a period of two months. If comments received, to be placed before the committee for deliberation. Committee constituted the Panel for	Panel could not meet during the period.	Comments received, if any to be placed before the committee in the next meeting.  Committee opined that an early panel
	taking up the following subject after duly approved by FADC. a) Juice Screen b) Membrane Filters 1.Shri Sanjay Chauhan – (Convener), NSI Kanpur 2. Shri Anurag Goel – ISGEC Heavy Industry Engineering, Noida 3. Shri Sachin Agrawal – Shrijee Process Engineering Works Ltd, Mumbai 4. Shri Deep Malik – Indian Sugar Mills Association, New Delhi 5. Representative from Suviron Equipments Pvt. Ltd.	Hence, No progress could be made in this case.	meeting to be convened. Further, progress made to be placed before the committee in the next meeting.
12	New Work Item Subjects: Jindal Stainless Steel has submitted the proposal for formulation of Indian Standards on following subject: 1. Pipes	Panel could not meet during the period. Hence, No progress could be made in this case.	To be discussed in future meeting

for Corrosive Fluids in Sugar Industry.		
2. Plates for Troughs and Chutes for		
Carriers. Tanks and Vessels used for	•	
Juice, Syrups and Molasses Committee		
decide to refer these subjects to panel		
meant for Juice Screen and Membrane		
Filters. Panel will examine the		
suitability and priority for taking up the		
subject. Recommendation of panel to be		
placed before the committee for final	ĺ	
deliberation and recommendation to		
Food and Agriculture Division Council		
if any.		

ANNEURE IIB
SUGAR AD SUGAR INDUSTRIES SECTIONAL COMMITTEE, FAD 2

Sl No.	Meeting Number	Date	Place
i)	Sixteenth	12 March 2021	Virtual (Online)
ii)	Seventeenth	25 January 2022	Virtual (Online)
iii)	Eighteenth	23 September	Hybrid Mode

Sl. No.	Organization Represented	Principal Member	Alternate Member	Attendance
1.	National Sugar Institute, Kanpur	Prof. Narendr CHAIRMAN	a Mohan –	3/3
		Sh. Ashok Garg	-	2/3
2.	Army Service Core (ASC), New Delhi	Lt. Col BB Sahu	-	0/3
3.	CONCERT, Chennai	Shri R Santhanam	-	2/3
4.	Consumer Guidance Society of India, Mumbai	Dr Sitaram Dixit	Dr M S Kamat	2/3
5.	Food Safety Standards Authority of India, New Delhi	Ms Apoorva Srivsatva (Technical Officer)	-	0/3
6.	Global Cane Sugar Ltd, New Delhi	Dr G S C Rao	Shri Anil Srivastava	0/3
7.	Indian Institute of Sugarcane Research, Lucknow	Dr A D Pathak	Dr A K Sharma	2/3
8.	Indian Sugar Exim Corporation, New Delhi	Shri Rajiv Aggarwal	Shri Rajeev Kurup	0/3
9.	Indian Sugar Mills Association, New Delhi	Shri G K Thakur	Shri Deep Malik	3/3
10.	ISGEC Heavy Industry Engineering, Noida	Shri Sanjay Awasthi	Shri Anurag Goyal	2/3
11.	Jindal Stainless Steel Ltd., Gurgaon	Shri Rajeev Gupta	Smt Nisha Goel	2/3

12.	Manas Industry, Pune	Shri Jeevan Vasant Jadhav	-	0/3
13.	Ministry of Consumer Affairs, Food & Public Distribution, New Delhi	Shri Suresh Chandra	-	2/3
14.	National Fed. Of Co-op. Sugar Factories Ltd., New Delhi	Shri Prakash P Naiknavare	Shri S Somasundaram	2/3
15.	The Sugar Technologists Association of India, New Delhi	Shri Sanjay Awasthi	Shri Anurag Goyal	2/3
16.	Shrijee Process Engineering Works Ltd, Mumbai	Shri Sachin Agarwal	Shri Sudeep Agarwal	0/3
17.	Vasantdada Sugar Institute, Pune	Dr Rajeev Dani	Dr Sanjay V Dani	1/3
18.	Tamil Nadu Sugar Corp. Ltd (TASCO), Chennai	Shri E Muthuvelappan	-	0/3
19.	Triveni Engineering & Industries Ltd, Muzaffarnagar	Shri Rajesh Singh	Shri P K Khandelwal	3/3
20.	Walchandnagar Industries	Shri D R Sardeshmukh	Shri P V Kawade	0/3
21.	National Sugar Institute, Kanpur	S.K Trivedi	Vivek Pratap Singh	1/1
22.	Central Food Technological Research Institute, Mysore	Dr Nandini C D	Dr Siva Sankara Reddy Singam	
23.	Personal Capacity	Dr Sushil Solomon		

### ATTENDANCE OF SUGAR INDUSTRY SECTIONAL COMMITTEE, FAD 02

# CHAIRPERSON: Prof. Narendra Mohan, Director National Sugar Institute, Kanpur

Dated: 23-Sep-2022 Venue: NSI, Kanpur (Hybrid)

Sl. No.	Organization Represented	Principal Member	
<b>51.</b> 1 (0.	organization represented	Timelpui Weimer	
1.	National Sugar Institute, Kanpur	Prof. Narendra Mohan,	
		(CHAIRPERSON)	
		,	
2.	CONCERT, Chennai	Shri M. Somasundaram	
3.	Indian Institute of Sugarcane Research, Lucknow	Dr. A. D. Pathak	
4.	Indian Institute of Toxicology Research, Lucknow	Dr. Yogeshwer Shukla	
5.	Indian Sugar Mills Association, New Delhi	Shri Deep Malik	
6.	National Fed. Of Co-op. Sugar Factories Ltd., New Delhi	Shri S. Somasundaram	
	Demi	Shri Sanjay Agarwal	
7	Directorate of Sugar, Ministry of Consumer Affairs, Food and Public distribution	Shri Aditya Sachan	
8	MAARC LABS, Pune	Dr. Vasudha Keskar	
9	Sugar Technology Association of India, New Delhi	Shri Amit Khatter	
10	Triveni Engineering & Industries Ltd, Muzaffarnagar	Shri Rajesh Singh	
11	National Sugar Institute, Kanpur	Vivek Pratap Singh	
12	Bureau of Indian Standards	Shri Rajpal	