

**BUREAU OF INDIAN STANDARDS**

**MINUTES**

**Physical Methods of Tests Sectional Committee, TXD 01**

**27<sup>th</sup> Meeting**

<b>Date/Day</b>	<b>Time</b>	<b>Venue</b>
10 April 2024 (Wednesday)	1100 h	Through Video Conferencing

**ATTENDEES:**

<b>Sl No.</b>	<b>Representative</b>	<b>Organization</b>
1.	Dr. A. S. M. Raja ( <i>Chairperson</i> )	ICAR - Central Institute for Research on Cotton Technology (CIRCOT) Mumbai
2.	Shri Anand Majaria	Delta Ropes Mfg. Co., Kolkata
3.	Shri Sachin Kulkarni	Garware Technical Fibres Limited, Pune
4.	Dr. Surajit Sengupta	ICAR - National Institute of Natural Fibre Engineering and Technology (NINFET), Kolkata
5.	Dr. Nagesh Kumar	-do-
6.	Shri Girish T. Masand	Imposub Solutions, Vadodara
7.	Smt. Soumita Chowdhury	Indian Jute Industries Research Association, Kolkata
8.	Shri Bhudipta Saha	Indian Jute Mills Association, Kolkata
9.	Dr. M. K. Talukdar	Kusumgar Corporates, Mumbai
10.	Dr. Sanjeev Shukla	North India Textile Research Association, Ghaziabad
11.	Shri Somyadipta Datta	Office of the Jute Commissioner, Kolkata
12.	Shri Mahadeb Dutta	-do-
13.	Dr Karthikeyan K.	SGS India Pvt. Ltd, Chennai
14.	Smt. Anitha Jeyaraj	-do-
15.	Shri Ajay Sharma	Testing Centre & Testing State Division, Ministry MSME, New Delhi
16.	Shri Vivek Patil	Texanlab Laboratories Pvt. Ltd, Mumbai
17.	Dr. P. Ravichandran	Textiles Committee, Mumbai
18.	Shri Hemal Thanawala	Thanawala & Co., Mumbai

19.	Shri R. A. Sheikh	The Bombay Textile Research Association, Mumbai
20.	Shri Vishal Masand	Tirupati Technik, Mumbai
21.	Dr. Suranjana Gangopadhyay	VJTI, Mumbai
22.	Smt. Seema Patel	Wool Research Association, Thane
23.	Shri Mayur Basuk	-do-
24.	Shri Varun Gupta	World Traders Manufacturing Co., Mumbai
25.	Shri Asif	-
26.	Dr. Neha Mehra	-
27.	Shri Rajendra Tripathi	-

#### **BIS DIRECTORATE GENERAL:**

1.	Shri Amit Kumar Pandey (Scientist-B, Textiles)	Bureau of Indian Standards, New Delhi
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#### **Item 0 WELCOME AND INTRODUCTORY REMARKS BY THE CHAIRPERSON**

**0.1** Dr A. S. M. Raja, Chairperson of TXD 01 welcomed all the members present in the meeting. He also introduced the new Member secretary Shri Amit Kumar Pandey before the committee and appreciated the work done by earlier Member Secretary Shri Ashwani Kumar for his contribution in TXD 01. He also highlighted the agenda items of the meeting and specially mentioned the long pending issues which are to be resolved in this meeting.

**0.2** Shri Amit Kumar Pandey, Member Secretary, extended a warm welcome to the Chairperson and committee members. He also urged the committee members to provide their precise inputs over the agenda items.

#### **Item 1 CONFIRMATION OF THE MINUTES OF THE PREVIOUS MEETING**

**1.1** The committee scrutinized the comment received from Shri Varun Gupta, representing M/s World Traders Manufacturing Co. on the minutes of 26<sup>th</sup> meeting of TXD 01 held on 23 Nov 2023.

**1.2** After detailed deliberations, the committee **CONFIRMED** the minutes of the 26<sup>th</sup> meeting of the TXD 01 as circulated vide BIS Directorate General Letter No. TXD 01/A2.26 dated 28 Nov 2023 without any changes.

#### **Item 2 COMPOSITION AND SCOPE OF TXD 01**

**2.1** The committee reviewed the present scope and composition of TXD 01 as given in **Annex 1** to the agenda and decided as follows:

- i) A termination notice shall be sent to M/s Uster Technologies India Marketing Pvt. Ltd., Ahmedabad, to provide the explanation for their non-participation in the last two meetings of TXD 01.

### **Item 3 ISSUES ARISING OUT OF THE PREVIOUS MEETING**

**3.1** The committee noted the actions taken on the various decisions in the last meeting as given in **Annex 2** to the agenda.

### **Item 4 DRAFT STANDARDS FOR FINALIZATION**

**4.1** The Committee scrutinized the following draft Indian Standards as given in **Annex 3** to the agenda:

- i) **[Doc. : TXD 01 (24585)]**, *Second revision* of IS 570, Textiles – Methods for determination of universal count of jute yarn
- ii) **[Doc. : TXD 01 (24586)]**, *Second revision* of IS 2387, Textile – Methods for determination of mass of jute fabrics
- iii) **[Doc. : TXD 01 (24587)]**, *First revision* of IS 13035, Textiles – Jute and jute-based bags – Method for drop test

**4.1.1** After detailed deliberation, the committee decided to finalize the above drafts as no comments has been received on the same. BIS may carry out the editorial changes in the draft if required.

### **Item 5 COMMENTS ON PUBLISHED INDIAN STANDARDS**

#### **5.1 Issue of rate of extension of 200 mm/min instead of 20 mm/min for testing jute fabric strength [IS 1969 (Pt. 1) : 2018]**

**5.1.1** The committee scrutinized the minutes of the panel meeting held on 23 February 2024 as given in **Annex 4** to the agenda.

**5.1.2** After detailed deliberation, the committee decided that the draft amendment 2 to IS 1969 (Part 1) : 2018 as given in **Annex 5** to the agenda shall be issued under wide circulation for a period of two months to elicit the technical comments from relevant stakeholders.

#### **5.2 Issue of Tolerance for relative humidity as $\pm 4\%$ instead of $\pm 2\%$ for atmospheric conditioning of Textiles in IS 6359 : 2023**

**5.2.1** Shri Amit Kumar Pandey, member secretary, informed the committee about the long pending proposed study /test report analysis on ‘The effect of conditioning on different textile fibres/yarn/fabric/garment and their blends at relative humidity (RH) of  $(65 \pm 2) \%$  and  $(65 \pm 4) \%$ ’ as decided by the committee in the 23<sup>rd</sup> meeting of TXD 01, held on 22 September 2022. He

also informed the committee about the directions from the competent authority of Bureau for harmonizing the Indian Standards with the International standards.

**5.2.2** Due to absence of the allocated experts for the proposed study in the meeting, the committee did not make any decision on the same. Further, the committee decided that the above issue shall be discussed in the next meeting.

## **ITEM 6 NEW SUBJECTS FOR STANDARDIZATION**

**6.1** Shri Amit Kumar Pandey, member secretary, informed the committee about the proposal received under SNAP 2022 -27 for the formulation of standard on “Smoothness test for fabrics”. He also informed the committee about the research work carried out by NITRA on the relevant field.

**6.1.1** Shri Sanjeev Shukla representing NITRA, Ghaziabad, informed the committee that NITRA had developed a test equipment for determination of smoothness characteristics of fabric under the guidance of Dr. M.S. Parmar, Director (Labs), NITRA, Ghaziabad.

**6.1.2** After detailed deliberations, the committee decided to constitute a panel under the convenorship of Dr. M.S. Parmar, NITRA, Ghaziabad for the formulation of Indian standard on “Smoothness test for fabrics”. The composition of the panel is –

- i. Dr. M.S. Parmar, NITRA, Ghaziabad (*Convenor*)
- ii. Shri Sanjeev Shukla, NITRA, Ghaziabad
- iii. Representatives from WRA, Thane
- iv. Representatives from CIRCOT, Mumbai

## **Item 7 INTERNATIONAL ACTIVITY**

**7.1** The committee scrutinized the scope of the following ISO standards for harmonization with Indian standards:

- i) **ISO 5688:2024**, Textiles — Synthetic filament yarns — Test method for crimp properties of textured yarns.
- ii) **ISO 24180:2023**, Textiles — Synthetic filament yarns — Electrostatic propensity evaluation by measuring electrical resistance

**7.1.1** The committee decided that the international standards **ISO 5688:2024** and **ISO 24180:2023** shall be adopted and a draft Indian Standard for the same shall be issued under wide circulation for a period of two months to elicit technical comments.

## **Item 8 REVIEW OF PUBLISHED STANDARDS**

**8.1** The committee scrutinized the following Indian Standards and their proformas as given in **Annex 6** to the agenda:

- i) **IS 1969 (Part 1) : 2018** Textiles – Tensile properties of fabrics – Part 1 Determination of maximum force and elongation at maximum force using the strip method (*fourth revision*)
- ii) **IS 232 : 2020** Glossary of textile terms - Natural fibres (third revision)
- iii) **IS 3674 : 2020** Textiles - Cotton Fibres - Determination of micronaire value (*first revision*)
- iv) **IS 3675 : 2020** Textiles – Cotton Fibres – Determination of breaking tenacity of flat bundles (*first revision*)
- v) **IS 681 : 2015** Textiles – Methods for determination of universal count of woollen and worsted yarn (*first revision*)
- vi) **IS 6919 : 2020** Wool – Determination of mean diameter of fibres – Air-permeability method (*first revision*)

**8.1.1** After detailed deliberations, the committee has taken the decision to reaffirm IS 1969 (Part 1) : 2018 with amendment for further period of five years. The committee also decided to reaffirm the Indian standards, from serial no. (ii) to (vi), for a further period of five years.

**8.2** The committee scrutinized the list of pre-2000 standards as given in **Annex 7(a)** to the agenda for reviewing and decided to make the changes in the allocation of experts for revision as mentioned in the table below.

Sl. No.	IS Number	IS Title	Related International Standards	Allocated experts for Revision of Indian Standards
1.	IS 10014 (Part 1): 1984 Reviewed In : 2023	Methods of tests for man-made staple fibres Part 1 Determination of length	<b>ISO 6989:1981</b> Textile fibres — Determination of length and length distribution of staple fibres (by measurement of single fibres)  <b>ASTM D5103-07:2018</b> Standard Test Method for Length and Length Distribution of Manufactured Staple Fibers (Single-Fiber Test)	a) Shri Varun Gupta, World Traders Manufacturing co., Mumbai b) Shri Rajeev Chauhan, Welspun India Ltd., Mumbai c) Shri Vishal Masand, Tirupati Technik, Mumbai
2.	IS 10014 (Part 2) : 1981 Reviewed In : 2023	Methods of tests for man-made staple fibres Part 2 Determination of linear density	<b>ISO 1973:2021</b> Textile Fibres – Determination of Linear Density – gravimetric and vibroscope method  <b>ASTM D1577-07:2018</b> Standard Test Methods for	

			Linear Density of Textile Fibers	
3.	IS 1377 : 1971 Reviewed In : 2023	Method for determination of mean fibre length of wool (first revision)	<b>ISO 2648:2020</b> Wool – Determination of fibre length distribution parameters	a) Smt Seema Patel, WRA, Thane
4.	IS 4902 : 1981 Reviewed In : 2023	Method for determination of correct invoice weight of all wool materials (first revision)	-	b) Shri Mayur Basuk, WRA, Thane c) Dr. Surajit Sengupta, NINFET, Kolkata
5.	IS 6637 : 1972 Reviewed In : 2023	Methods for determination of moisture in wool	<b>ASTM D1576-2:2022</b> Standard test Method for moisture in Wool by Oven-Drying	d) Dr. Nagesh Kumar, NINFET, Kolkata
6.	IS 6653 : 1972 Reviewed In : 2023	Method for determination of staple length of greasy wool	<b>ASTM D1234-85:2008</b> Standard Test Method for Sampling and Testing Staple Length of Grease Wool	e) Shri Varun Gupta, World Traders Manufacturing co., Mumbai ( <b>only for IS 6124 :1971</b> )
7.	IS 8387 : 1977 Reviewed In : 2023	Method of test for wool fibre length (Barbe and Hauteur) using a comb sorter	<b>ISO 920:1976</b> Wool — Determination of fibre length (barbe and hauteur) using a comb sorter	f) Shri Girish Masand, Imposub Solutions, Vadodara ( <b>Only for IS 8387: 1977 and IS 6124 : 1971</b> )
8.	IS 6124 : 1971 Reviewed In : 2023	Method for determination of crimp in wool	-	
9.	IS 1963 : 1981 Reviewed In : 2023	Methods for determination of threads per unit length in woven fabrics (second revision)	<b>ISO 7211-2:1984</b> Textiles – Woven Fabrics — Construction — Methods of analysis — Part 2: Determination of number of threads per unit length  <b>ASTM D3775-17:2023</b> Standard test Method for End(warp) and Pick (Filling) Count of Woven Fabrics	a) Prof. R S Rengasamy, Department of Textile & Fibre Engg., IIT Delhi b) Prof. Apurba Das, Department of Textile & Fibre Engg., IIT Delhi c) Dr. Suranjana Gangopadhyay, VJTI, Mumbai.
10.	IS 8357 : 1977 Reviewed In : 2023	Method for assessment of fabric drape	<b>ISO 9073-9:2008</b> Test methods for nonwovens – Part 9: Determination of	d) Shri R.A. Sheikh, BTIRA, Mumbai

			drapability including drape coefficient	
<b>11.</b>	IS 6490 : 1971 Reviewed In : 2023	Method for determination of stiffness of fabrics - Cantilever test	<b>ISO 9073-7:1995</b> Textiles — Test methods for nonwovens — Part 7: Determination of bending length	
<b>12.</b>	IS 3689 : 1966 Reviewed In : 2023	Conversion factors and conversion tables for yarn counts	<b>ASTM D2260-03:2018</b> Standard Tables of Conversion Factors and Equivalent Yarn Numbers Measured in Various Numbering Systems	a) Smt. Meeta Shingala, Testtex India Laboratories Pvt. Ltd., Noida b) Shri Harit Sardana, Texanlab Laboratories Pvt. Limited, Mumbai c) Dr. Suranjana Gangopadhyay, VJTI, Mumbai
<b>13.</b>	IS 4807 : 1968 Reviewed In : 2023	Methods of testing viscose rayon staple fibres	-	a) Shri Girish Masand, Imposub Solutions, Vadodara b) Shri Vishal Masand, Tirupati Technik, Mumbai c) Dr. Suranjana Gangopadhyay, VJTI, Mumbai d) Dr. M. K. Talukdar, Kusumgar Corporates Private Limited, Vapi e) Shri Varun Gupta, World Traders Manufacturing co., Mumbai

8.2.1 The committee scrutinized the list of pre-2000 standards as listed in **Annex 7(b)** to the agenda and decided to archive these Indian standards with reaffirmation as they become obsolete/redundant and irrelevant in the present context and is not fit to be taken for revision except IS 4807 : 1968 which is to be taken up for revision.

#### **Item 9 DATE AND PLACE OF NEXT MEETING**

The Committee DECIDED to hold the next meeting after all the actions arising out of this meeting are completed. The date and place of the meeting will be finalized in consultation with the Chairman, TXD 01, in due course.

**Item 8 ANY OTHER BUSINESS**

**8.1** There being no other business, the meeting ended with a hearty vote of thanks to the *Chair* and all the members.