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**BUREAU OF INDIAN STANDARDS**

**Minutes**

**Man-Made Fibres, Cotton and their Products**

**Sectional Committee, TXD 31**   **33rd Meeting**

|  |  |  |
| --- | --- | --- |
| **Date and Day** | **Time** | **Venue** |
| 19 July 2024 | 11:00 AM | Through Video Conferencing |

**PRESENT:**

|  |  |  |
| --- | --- | --- |
|  | **Shri Kartikay Dhanda** | **Textile Committee, Mumbai (Chairman)** |
|  | Shri Arnab Samanta | AYM Syntex Ltd., Silvassa |
|  | Shri Vinay Kotak | Cotton Association of India, Mumbai |
|  | Shri Anmol Gupta | Confederation of Indian Textile Industry, New Delhi |
|  | Shri O P Sharma | Department of Chemicals and Petrochemicals, New Delhi |
|  | Dr. Biswa Ranjan Das | Defence Materials and Stores Research and Development Establishment, Kanpur |
|  | Shri Dilip Thakare Akola | Farmer Representative, Akola |
|  | Shri P Mandal | Garden Silk Mills Pvt Ltds., Surat |
|  | Shri Soumyen Kumar Pal | -do- |
|  | Dr. S Manickam | ICAR-Central Institute for Cotton Research, Nagpur |
|  | Dr G T Behre | -do- |
|  | Shri Meril Jenson | Madura Coats, Madurai |
|  | Shri KS Balasubramaniam | -do- |
|  | Shri Ramasubramanian S | -do- |
|  | Shri Sanjeev Shukla | Northern India Textile Research Association, Ghaziabad |
|  | Shri Sourabh Kulkarni | Office of the Textile Commissioner, Mumbai |
|  | Shri Ajay Gupta | Reliance Industries Limited, Mumbai |
|  | Shri Vijay Garg | -do- |
|  | Shri Tushar Rinke | -do- |
|  | Shri Shyam Prakash Fatehpuria | Shakti Cords Pvt. Ltd., Madurai  |
|  | Shri Vasudev | -do- |
|  | Shri Brijesh Gondaliya | South Gujarat Warp Knitters Association, Surat |
|  | Shri Ashish Gujarati | SGCCI, Surat |
|  | Shri R Chandran | Textile Committee, Mumbai |
|  | Shri R A Shaikh | The Bombay Textile Research Association, Mumbai |
|  | Shri Pranjal Joshi | The Cotton Corporation of India Ltd, Navi Mumbai |
|  | Dr. K Selvaraju | The Southern India Mills’ Association, Coimbatore |
|  | Shri Nagarajan Esakkimuthu | -do- |
|  | Dr Manisha Mathur | The Synthetic and Art Silk Mills Research Association, Mumbai |
|  | Dr. Neha Mehra | Veermata Jijabai Technological Institute, Mumbai |

**BIS DIRECTORATE GENERAL**

1 Shri J. K. Gupta Head (Textiles), Bureau of Indian Standards, New Delhi

2 Shri Mayur Katiyar Member Secretary, Bureau of Indian Standards, New Delhi

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# **Item 0 WELCOME & INTRODUCTORY REMARKS**

**0.1** Shri J K Gupta, HTXD, extended a warm welcome to the chairman and esteemed committee members. He urged everyone to contribute their valuable insights on the agenda items.

**0.2** The Chairman extended a warm welcome to all the members of TXD 31 who were present at the meeting. He appreciated the members for participating in frequent meetings and urged them to stick to the agenda and provide comments based on technical backing and data.

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

* 1. In view of no comments, the committee CONFIRMED the minutes of the 32nd meeting of the committee held on 23 April 2024 as circulated vide BIS Directorate General letter No. TXD 31/A2.32 dated 03 May 2024 without any change.

# **Item 2 SCOPE AND COMPOSITION OF TXD 31**

# **2.1** The Committee noted the present scope and composition of the TXD 31 Committee as given in **Annex 1** to the agenda.

# **2.2** The Committee scrutinised the co-option request received from the following organizations/person as given in **Annex 2** to the agenda:

#  **i)**  Northern Railways

**ii)** Karnataka Cotton Association

**iii)**  Saurashtra Ginners Association

**iv)**  Cotton Association of Orissa

**v)** Shri Akhtarul Islam Amjad

After detailed deliberations, the committee decided as follows:

# **i)** The Committee decided to not accept the co-option requests from Karnataka Cotton Association, Saurashtra Ginners Association, Cotton Association of Orissa and Shri Akhtarul Islam Amjad as the committee is appropriately represented by the relevant stakeholders. However, the committee decided to include the above stakeholders on the BIS mailing list for circulation of draft documents for their comments.

# **ii)** However**,** the committee decided to accept the request of the M/s Northern Railways for co-option on TXD 31 sectional committee as they are important public sector consumer organization of various textiles product under the domain of TXD 31 like bedsheets, pillow covers, blanket covers, towels etc. Northern Railways shall be represented by Shri Rajesh Kumar as principal member and Shri Sandeep Kumar Singh as alternate member.

# **Item 3 ISSUES ARISING OUT OF THE PREVIOUSMEETING**

**3.1** The Committee NOTED the summary of actions taken on the various decisions of the 32nd meeting as given in **Annex 3** of the agenda.

**Item 4 DRAFT STANDARDS/AMENDMENTS FOR FINALIZATION**

**4.1** The committee scrutinized the draft amendment for IS 3566:2023 ‘Textiles — Viscose Rayon Cut Staple (Spun) Yarn — Specification (Second Revision) [TXD/31/25551]’as given in **Annex 4** to the agenda which was wide circulated for a period of 1 month for eliciting technical comments. No comments were received on the draft amendment. After the detailed deliberation, the committee decided to finalize the draft amendment for publication without any change. BIS may carry out editorial changes, if any.

**4.2** The committee scrutinised the wide circulation draft for ‘Textile — Continuous Filament Polypropylene Yarns — Specification [TXD/31/25547]’ as given in **Annex 5** to the agenda. The committee also noted the comments received from M/s Techfab India that they agree with the provisions of above draft standard. After detailed deliberations, the committee decided to finalise the draft for publication after incorporating the following changes:

(*English* *Title*) — Substitute the following for existing:

‘Textiles — Continuous multifilament polypropylene yarns — Specifications’

(*Hindi* *Title*) — Substitute the following for existing:

 ‘वस्त्रादि — सतत बहुतंतु पॉलीप्रोपाइलीन के धागे — विशिष्टि’

(*Clause* 3.5) — Insert the following clause after clause 3.5:

**‘3.6** **Twisted Yarn** — Man-made continuous filaments yarn that have been formed by twisting together two or more filaments are known astwisted yarns.’

BIS may carry out editorial changes, if any

**Item 5 COMMENTS RECEIVED ON PUBLISHED STANDARDS**

**5.1** The committee scrutinised the comments received from the following organisations on IS 17261 : 2022 as given in **Annex 6** to the agenda.

i) Office of the Commissioner of Customs, Navi Mumbai

ii) Sancheti Impex LLP.

iii) Welspun India Ltd.

iv) SGCCI, Surat

v) Pandesara Weavers Co Op Society Ltd.

vi) Recron (Malaysia) Sdn Bhd

After detailed deliberations, the committee decided as follows:

1. The committee decided to incorporate the following changes in the IS 17261 : 2022.

i) (*Page* 1, *clause* **1.1**) — Substitute the following for existing:

**‘1.1** This standard specifies requirements for all types of virgin and recycled polyester continuous single multifilament or monofilament flat fully drawn yarns (FDY) for various end usages. It also covers the requirements for single multifilament twisted fully drawn yarns (FDY) for various end uses.’

ii) [*Page* 2, *clause*3.13 (*see Amendment 3*)] — Insert the following clause after clause 3.13:

**‘3.14** **Twisted Yarn** — Man-made continuous filaments that have been formed by twisting together two or more filaments are known astwisted yarns.’

iii) (*Page* 6, *Table* 3) — Insert the following note after note 3:

**‘4** For polyester twisted yarns, the twist shall be declared by the manufacturer subject to the tolerance of ± 5 % on the declared value when tested as per the method prescribed in IS 832 (Part 1).’

iv) (*Page* 11, *Annex A*) — Insert the following reference:

‘*IS No. Title*

IS 832 (Part 1) : 2021 Textiles — Determination of twist in yarns: Part 1 — Direct Counting Method’

The committee also decided that a draft amendment shall be prepared by BIS after incorporating the above changes and the same shall be issued under wide circulation for a period of 1 month for eliciting technical comments. BIS may carry out editorial changes, if any.

1. Regarding the comments from Welspun India Ltd. on Solucell, the committee decided/noted as follows:
	1. Solucell is a polymer of Terephthalic Acid, Ethylene Glycol and Polyethylene Glycol which is different in chemical composition from polyester filament fully drawn yarn as specified in IS 17261 : 2022. The committee also noted that the test report from SGS-CSTC Standards Technical Services Co. Ltd. as given in Annex 6 to the agenda states that the major composition of the sample is not poly (ethylene terephthalate) (PET).
	2. M/s SIMA informed that, the product Solucell is a patented technology developed by M/s BYR International Co., Ltd., Italy and this exclusivity ensures that only BYR International Co., Ltd. can supply Solucell, preventing any misrepresentation of polyester as Solucell.
	3. Solucell also get dissolved when exposed to alkaline conditions unlike polyester.
	4. There is also significant variation in test results of parameters like breaking strength and elongation at break of PET & Solucell.
	5. The price of Solucell is also higher than the price of polyester in the market which is an indication of the unique attributes/quality of solucell which is not found in polyester.
	6. In view of the above, the committee decided that Solucell does not fall under the scope of IS 17261 : 2022.
2. The committee also decided to constitute the following working group to decide on all the technical specifications and requirements of special varieties of polyester yarn which are not currently manufactured in India within 6 months.

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| --- | --- | --- |
|  | Dr P Ravichandran  Textiles Committee, Mumbai | *Convenor* |
|  | Shri Ajay Gupta Reliance Industries Limited, Mumbai | Member |
|  | Dr. K Selvaraju The Southern India Mills’ Association, Coimbatore | Member |
|  | Shri Ashish P Gujarati SGCCI, Surat | Member |
|  | Dr. Anup Rakshit ITTA, Mumbai | Member |
|  | Shri Arnab Samanta AYM Syntex Limited, Silvassa | Member |
|  | Representatives from MATEXIL | Member |
|  | Representative from ASFI, Delhi | Member |
|  | Mr. Prasenjit Mandal Garden Silk Mills Pvt Ltd., Surat | Member |
|  | Shri Mayur Katiyar BIS, New Delhi | Member Secretary |

The working group may co-opt other members if need arises.

1. M/s SGCCI, Surat raised the issue regarding the unavailability of the Polyester mechanical stretch yarn. M/s Reliance Industries Ltd informed the committee that M/s Reliance Industries Ltd. is manufacturing Mechanical Stretch Yarns (80 denier/36 filaments) and the sample for the same will be provided to M/s SGCCI.

**5.2** The committee scrutinised the comments received from M/s Redstone Ventures LLP on IS 18739 : 2024 for Bedsheet, pillow cover and blanket cover as given in **Annex 7** to the agenda. The committee also scrutinized the comments received from M/s Redstone Ventures LLP vide mail dated 17 July 2024 as placed during the meeting. After detailed deliberations, the committee decided/noted as follows:

a) The fabric with the specified thread density can be manufactured using combed yarns as specified in IS 18739 : 2024. The committee also noted that there is no error in the GSM of the different varieties of fabrics as mentioned in IS 18739 : 2024. Accordingly, the committee decided that no changes are required to be incorporated in the existing published standard IS 18739 : 2024 for Bedsheet, pillow cover and blanket cover.

**5.3** The committee scrutinised the comments received on IS 17264 : 2022 for Polyester IDY from M/s Omega QMS Pvt Ltd. as given in **Annex 8** to the agenda. The committee also scrutinised the inputs received from M/s Reliance Industries Ltd. as given in **Annex 9** to the agenda.

The member secretary informed the committee that the Writ Petitions was filed by M/s. Shakti Cords Pvt Ltd. [Writ Petitions (MD) No. 7204 of 2024 and No. 7208 of 2024] before the Hon’ble Madras High Court at Madurai Bench as placed during the meeting. Hon’ble Madras High Court at Madurai Bench has passed a Common Order dated 22 May 2024 directing BIS and Department of chemical and petrochemicals to grant personal hearing to the petitioner (M/s. Shakti Cords Pvt Ltd) as well as the representatives of M/s. Mehler Engineered Products India Pvt. Ltd. as placed during the meeting. The court also directed that final order shall be passed in accordance with the procedure laid down in Central Act 11 of 2016 and the Technical Committee shall be involved in the process.

It was also informed that the joint personal hearing was granted by BIS and DCPC to M/s Shakti Cords Pvt Ltd and M/s. Mehler Engineered Products India Pvt. Ltd dated 18 July 2024. After detailed deliberations, the committee noted/decided as follows:

* 1. The physical properties for Polyester HMLS and HMLS-AA yarns as specified in IS 17264 are similar except for the chemical finish application. A coating of epoxy finish is applied on the yarn surface of HMLS-AA yarn to impart the adhesive property to the HMLS-AA polyester industrial yarn distinguishing between Polyester HMLS and HMLS-AA yarn.
	2. The committee decided that the requirement for the amount of epoxy finish specifying the range shall be incorporated in the standard along with the test method for the same. The committee also decided that requirement and test method for identifying the presence of the epoxy finish shall also be incorporated into the standard.
	3. The committee further decided that M/s Reliance Industries Ltd., Mumbai, M/s Mehler Engineered products India Pvt Ltd. and M/s Shakti Cords shall provide their specific inputs on requirement for the amount of epoxy finish for HMLS-AA polyester industrial yarn specifying the range which is required to be incorporated in IS 17264 : 2022. The inputs regarding the test method for identifying the presence of the epoxy finish shall also be provided by them. All the inputs shall be provided within 7 days so as to enable the committee to take timely actions. The technical inputs so received will be placed in the technical committee meeting.
	4. The committee also noted that BIS has already requested M/s Shakti Cords Pvt. Ltd. for their technical inputs on HMLS-AA polyester industrial yarn vide mail dated 03 July 2024. Additionally, M/s Shakti Cords had requested two weeks to provide the required inputs for the same.
	5. The committee also noted that the adhesion of HMLS-AA yarn with the rubber not only depends on the epoxy content on the yarn, but also on the various subsequent processing at customer's end such as formulation of RFL solution which is mixture of various chemicals, type of rubber compound, and other process parameters
	6. The committee decided to incorporate the following changes in IS 17264 : 2022.

a) (*Page* 1, *clause* **3.10**) — Insert the following clause after clause 3.10:

**‘3.11** **Twisted Yarn** — Man-made continuous filaments that have been formed by twisting together two or more filaments are known astwisted yarns.’

b) [*Page* 5, *Table* 3, *Note* 4 (*see Amendment 1*)] — Insert the following notes after note 4:

**‘5** For polyester twisted industrial yarns, the twist shall be declared by the manufacturer subject to the tolerance of ± 5 % on the declared value when tested as per the method prescribed in IS 832 (Part 1).

**6** For serial numbers (ii), (iii), (v), (vii), (ix), (x), (xi), (xii), and (xiii), the specified linear density range corresponds to the most common varieties prevalent in the market. However, the manufacturers may declare a linear density value beyond this range also.’

(*Page* 9, *Annex A*) — Insert the following reference:

‘*IS No. Title*

IS 832 (Part 1) : 2021 Textiles — Determination of twist in yarns: Part 1 — Direct Counting Method’

The committee also decided that a draft amendment shall be prepared by BIS after incorporating the above changes and the same shall be issued under wide circulation for a period of one month for eliciting technical comments. BIS may carry out editorial changes, if any. The inputs so received shall be discussed during the next meeting of the TXD 31.

**Item 6 REVIEW OF INDIAN STANDARDS**

**6.1** The committee considered the following standards due for review in 2024-25:

|  |  |  |
| --- | --- | --- |
|  | IS 2422 : 2015 | Textiles – Fabric, water repellent for capes and rain coats – Specification (third revision) |
|  | IS 9543 : 2015 | Textiles – Spun polyester sewing threads – Specification (first revision) |
|  | IS 16369 : 2015 | Textiles – Saris made of cotton, man-made fibres filaments and their blends – Specification |
|  | IS 16374 : 2015 | Textiles – Woven suitings made of cotton man-made fibres filaments and their blends – Specification |
|  | IS 16394 : 2015 | Textiles – Woven shirtings made of cotton man-made fibres filaments and their blends – Specification |

**6.1.1** The committee decided to allocate the standard to member secretary TXD 31 for review within the next 15 days.

**Item 7 ANY OTHER BUSINESS**

**7.1** The committee noted that in the 31st meeting of TXD 31, M/s SIMA and M/s NITMA were requested for inputs regarding the requirements for 100 Percent Polyester Ring Spun Dyed Yarn as per IS 17265 : 2023. No inputs have been received in spite of multiple reminders. The committee also noted that the parameters like average single yarn tenacity (RKM), elongation, average CSP, yarn hairiness, and whiteness index gets deteriorated by approximately 10% due to dyeing. The committee again requested M/s SIMA and M/s NITMA to provide the inputs for the same. The inputs so received shall be discussed during the next meeting of the TXD 31.

**7.2** The meeting ended with a hearty vote of thanks to and from the chair.