

BUREAU OF INDIAN STANDARDS

(New Delhi)

MINUTES

**Textile Materials for Aeronautical and Related Products
Sectional Committee, TXD 13**

17th Meeting

Date and Day	Time	Venue
03 January 2024 (Wednesday)	1500 h	Through Video Conferencing

ATTENDEES:

1. **Dr. Manoj Kumar**
(Chairperson) **Aerial Delivery Research and Development Establishment (ADRDE), Agra**
2. Shri Puneet Gupta **Aerial Delivery Research and Development Establishment (ADRDE), Agra**
3. Shri Prasanta Kr Mallik **-do-**
4. Shri Manoj Pandey **DGQA, New Delhi**
5. Shri Nitin Narkhede **Garware Technical Fibres Limited, Pune**
6. Dr Santhosh B **Indian Space Research Organization - Vikram Sarabhai Space Centre, Thiruvananthapuram**
7. Shri Anil Painuly **-do-**
8. Shri M K Talukdar **Kusumgar Corporates Private Limited, Vapi**
9. Shri Shailendra Mishra **Motilal Dulichand Private Limited, Kanpur**
10. Shri K K Toppo **Ordnance Parachute Factory, Kanpur**
11. Shri Sachin Khoria **-do-**
12. Smt Smita Yeole **Oriental Weaving & Processing Mills and Pvt Ltd, Navi Mumbai**
13. Shri Saurabh Phadtare **-do-**
14. MsVarshini **SRF Limited, Chennai**
15. Dr. Manisha Mathur **Synthetic and Art Silk Mills Research Association, Mumbai**
16. Shri Hemal M Thanawala **Thanawala and Company, Mumbai**
17. Prof. Mukesh Kumar Singh **Uttar Pradesh Textile Technology Institute, Kanpur**

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| 18. | Shri Anshul Nanavaty | Urja Products Private Limited, Ahmedabad |
| 19. | Shri Tarun Jadav | -do- |
| 20. | Shri Ronak Bhagat | -do- |

BIS DIRECTORATE GENERAL

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| 21. | Shri Ranga Banothu | Scientist B (Textiles) & Member Secretary |
| 22. | Ms. Shelly Sirohi | Executive Assistance (Textiles) |

Item 0 WELCOME & INTRODUCTORY REMARKS OF CHAIRPERSON

0.1 Dr. Manoj Kumar, Chairperson of TXD 13, welcomed all the attendees of the meeting and stressed the significance of regular Technical Committee meetings. He underscored the crucial role played by manufacturers, users, research associations, and academic institutions in these meetings. He also highlighted the importance of undertaking R&D projects within TXD 13 and advised members to engage in detailed discussions on the Terms of Reference (ToR) prepared by BIS.

0.2 Shri Ranga Banothu, member secretary has also welcomed chairperson and all members present in the meeting.

Item 1 CONFIRMATION OF THE MINUTES OF THE PREVIOUS MEETING

1.1 In absence of any comments, the committee confirmed the minutes of the 16th meeting of TXD 13 held on 14 July 2023 and as circulated vide BIS DG letter no. TXD 13/A2.16 dated 14 August 2023.

Item 2 SCOPE AND COMPOSITION OF TXD 13

2.1 The committee reviewed the present scope and composition of TXD 13 as given in **Annex 1** to the agenda and **DECIDED** as follows:

a) M/s Oriental Synthetic & Rayon Mills Pvt Ltd, Navi Mumbai shall be renamed as M/s Oriental Weaving and Processing Mills Pvt. Ltd.

b) The Committee decided to co-opt the following organizations in TXD 13 Sectional Committee:

- ii) Swadeshi Niwar Mills, Kanpur
- iii) Northern Indian Textile Research Association, Ghaziabad
- iv) Ratanmoti Textfab (India) Pvt Ltd, Ichalkaranji
- v) Shingora Textiles Limited, Ludhiana

Item 3 ISSUES ARISING OUT OF THE PREVIOUS MEETING

3.1 The Committee **NOTED** the summary of actions taken on the various decisions of the 16th meeting as given in **Annex 2** to the agenda.

Item 4 DRAFT STANDARDS FOR FINALIZATION

4.1 The Committee deliberated the comments from Ordinance parachute factory, Kanpur as given in addendum on WC draft of **IS 4229 : 1998 Textiles — Nylon sewing threads for aerospace purposes Specification (second revision)** as given at **Annex 3 (a)** to agenda and **DECIDED** to **FINALIZE** for publication as Indian standards after incorporating the below changes along with editorial changes, if any:

- i) [Page 7, Table 1, column (3)] — To substitute IS 4910 (Part 2) for 7071.

4.2 The Committee deliberated on the comments from Ordinance parachute factory, Kanpur as given in addendum on WC draft of **IS 4227 : 1992 Textiles — Braided nylon cords for aerospace purposes Specification (second revision)** as given at **Annex 3 (b)** to agenda and **DECIDED** to **FINALIZE** for publication as Indian standards after incorporating the below changes along with editorial changes, if any:

- i) [Page 15, Clause 3.1.2, col (2), Variety no. (11) & (12)]— Substitute the following table for existing under the **3.1.2**:

<i>Sl No.</i>	<i>Nominal Count, dtex</i>	<i>tpm (Final)</i>	<i>Tolerance, percent</i>
(1)	(2)	(3)	(4)
i)	70 × 6	280	± 15
ii)	235 × 1	100	Min
iii)	235 × 2	320	± 15
iv)	235 × 3	340	± 15
v)	235 × 4	220	± 15
vi)	235 × 3 × 3	200	± 15
vii)	235 × 5 × 3	280	± 15
viii)	235 × 6	340	± 15
ix)	235 × 6 × 3	200	± 15
x)	940 × 2	160	± 15
xi)	940 × 3	160	± 15
xii)	1400 × 1	340	± 15
xiii)	1175	520	± 15
xiv)	1400 × 3	200	± 15

iii) [Page 18 to agenda, Table 1, Note 2] — Substitute the following for existing:

‘In case of dyed cords, 5 percent relaxation shall be allowed in mass and elongation at break’

Item 5 RESEARCH AND DEVELOPMENT PROJECT

5.1The Committee has **NOTED** the BIS guidelines for R& D project as given in **Annex 4** to the agenda. The Committee approved the ToR for the R & D Project on ‘Cotton Tapes for Aeronautical Applications’ with minor changes as following to the ToR as given in **Annex 5** to the Agenda:

[Page 47 to Agenda, Title] — Title to be modified as ‘Study on effect of constructional parameters on performance of cotton tapes for Aeronautical Applications’

[Page 49 to Agenda, Clause 4.7 to the ToR] — Substitute the following for the existing:

4.7Collection of 2 samples each from (small, medium and large-scale manufacturer) of each varieties and generation of test data for various parameters but not restricted to the following requirements for Cotton Tapes after getting the samples tested from 2 NABL accredited labs:

- a) Total no. of ends;
- b) Picks/dm;
- c) Width
- d) Mass;
- e) Weave Pattern
- f) Breaking load on full width;
- g) Extension at break
- h) Thickness;
- i) Scouring loss,;
- j) pH value;
- k) Colour fastness to light and washing,;
- l) GSM; and
- m) Rot-proofness:
- n) Tex of yarn

Item 6 REVIEW OF PUBLISHED STANDARDS

6.1 The committee scrutinized the proforma prepared by BIS on the following standards as given in **Annex 6 (a)** and **Annex 6 (b)** to the agenda and **DECIDED** to archive the following standards due to the absence of significant users and manufacturers for the associated products, and indicating a lack of necessity for further revisions to the standards:

- a) IS 11326 : 1985 Specification for nylon fabrics for coating with natural or synthetic elastomers
- b) IS 4719 : 1984 Specification for wire-woven rayon fabric for aerospace purposes (second revision)

Item 7 DATE AND PLACE OF NEXT MEETING

7.1The Committee **DECIDED** to hold the next meeting of TXD 13 in March 2024 after all the actions are completed. The date and place of the meeting would be finalized in consultation with the Chairman, TXD 13, in due course.

Item 8 ANY OTHER BUSINESS

8.1The Committee has scrutinized the comments received from OPF Kanpur on IS 2196 : 1985 as given on addendum to the agenda and **DECIDED** as below :

[Page 7, Clause 9.1] —Substitute the following for the existing:

‘Linen sewing thread shall be compactly wound in the form of reels, cheeses, etc, as agreed to between the buyer and the seller in lengths of 500 metres’

[Page 7, Table 2, col (2)] — The tolerance for all the three varieties shall be modified \pm 10 percent

The committee reviewed the above standard and **DECIDED** that there no need of R & D on the above standard and further **DECIDED** that BIS shall prepare the draft standard of IS 2196 incorporating the changes and Wide circulate the same for the period 60 days for stakeholders comments on the same.

8.2 There being no other business, the meeting ended with a hearty vote of thanks to the Chair.