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BUREAU OF INDIAN STANDARDS

MINUTES

**Technical Textiles for Medtech Applications
Sectional Committee, TXD 36**

28th Meeting

Date	Time	Venue
13 September 2024 (Friday)	1430 h	Video Conference through CISCO Webex

Attendees :-

Sl No.	Name of Representative	Organization
1.	Dr. Prakash Vasudevan (Chairman)	Director, SITRA
2.	Smt. Prabha Hegde	3 M India Limited, New Delhi
3.	Shri Gopal Amrut Suryavanshi	Avgol India Pvt. Ltd, Gujarat
4.	Shri Amit Kumar	AIMED, New Delhi (Surgiene Healthcare)
5.	Shri Apurva Ranka	Alpha Foam Ltd., Pune
6.	Dr Ruchi Aradhana	Anabio Technologies Pvt Ltd., Bengaluru
7.	Dr. Sunil Khetarpal	Association of Healthcare Providers (India), New Delhi
8.	Smt. Aiswarya Sudhakar	Bella Premier Happy Hygiene Care Pvt Ltd., Tamil Nadu
9.	Shri Alok Kumar	-do-
10.	Shri Dayanidhi Jayabalu	-do-
11.	Shri R Krishana Kumar	Cologenesi Healthcare Pvt. Ltd, Salem
12.	Dr Vikas B Thakre	Defence Research & Development Establishment (DRDE), Gwalior
13.	Dr Mukesh Kumar Singh	Defence Research & Development Laboratory ,Hyderabad
14.	Surg Capt S.S Dalawayi	DGAFMS, Ministry of Defence, New Delhi
15.	Dr. B.S Charan	Director General of Health Services, New Delhi
16.	Shri Sumit Marwah	Dispoline India Private Limited, Bangalore
17.	Shri Arnab Das	DGQA (Ministry of Defence), New Delhi
18.	Shri Nirav Mehta	Dima Products, Mumbai
19.	Shri Raghavan Adiyodi	-do-

20.	Dr. Dhruv Sabharwal	Dr. Sabharwals Wound Care, Baddi Himachal Pradesh
21.	Ms Tulsi	Federation of Indian Chambers of Commerce & Industry(Shalex Medtech), New Delhi
22.	Shri Gurmeet Singh	Ginni Filaments Limited, Noida
23.	Shri Pronab Nandi	-do-
24.	Shri Ayan Chakraborty	-do-
25.	Shri Pramod Sharma	-do-
26.	Shri Arun Nag	-do-
27.	Dr. Sadhana Srivastava	Indian Council of Medical Research, New Delhi
28.	Prof. Bipin Kumar	Indian Institute of Technology Delhi (IIT Delhi), New Delhi
29.	Smt. Monika Sathe	Kenvue, Mumbai
30.	Smt. Roocha Khedkar	-do-
31.	Smt. Nor Hana	Kimberly-Clark Corporation, Mumbai
32.	Shri T. Balaji	KOB Medical Textiles Pvt Ltd, Palladam
33.	Ms. Shivani Swamy	Livinguard Technologies Pvt. Ltd., Mumbai
34.	Shri Lalit Gupta	Maulana Azad Medical College, New Delhi
35.	Shri Anthony D'Costa	Medline Healthcare Industries Pvt Ltd., Pune
36.	Shri Dhaval Ghuge	-do-
37.	Shri Ajay Pandit	Ministry of Textiles, New Delhi
38.	Smt. Sneha Gupta	Nobel Hygiene, Mumbai
39.	Shri Kaushik Johari	-do-
40.	Smt. Sushmita Kuswa	Piramal Pharma Limited, Mumbai
41.	Shri Ronak Dave	-do-
42.	Shri Harshad Kotian	-do-
43.	Shri Pankaj Arora	PGIMER, Chandigarh
44.	Shri Vijay Tadia	-do-
45.	Shri Aditya Daga	Plasti Surge Industries Pvt. Ltd., Amravati, Maharashtra
46.	Shri Prashant Jadhav	Procter and Gamble Co., Mumbai
47.	Shri Girish Parhate	-do-
48.	Shri Prajwal Shetty	-do-
49.	Shri Harsh Sethia	Sekhani Industries Private Limited, Ahmedabad
50.	Smt. Pardhi Mantri	Soothe Healthcare Pvt Ltd., New Delhi
51.	Shri Khalil Khan	Surya Textech, Chandigarh
52.	Shri Kavivnder Kumar	Solis Hygiene Pvt. Ltd., Madhya Pradesh
53.	Shri Ashish Naik	Swara Baby Products Pvt Ltd., Madhya Pradesh
54.	Shri Karthikay Danda	Textiles Committee Mumbai
55.	Dr P. Ravichandran	-do-
56.	Smt. Meeta Singhla	Testtex India Laboratories Pvt Ltd., Mumbai
57.	Shri Chanderkant	-do-
58.	Shri Neeraj Mehra	Tynor Orthotics Pvt Ltd., Mohali

59.	Smt. Tanya Mahajan	The Pad Project (NGO), India
60.	Dr. E. Santhini	The South India Textile Research Association, Coimbatore — 641014
61.	Shri Veerasubramanian	-do-
62.	Shri Harshal Patil	Venus Safety and Health Pvt Limited, Mumbai
63.	Smt. Dipti Sharma	Unicharm India Pvt Ltd., Gurugram
64.	Shri Sandeep Sharma	-do-
65.	Shri Tanuj Verma	-do-

BIS DIRECTORATE GENERAL

76.	Shri Dharmbeer, Scientist D/Joint Director (Textiles) and (Member Secretary)	Bureau of Indian Standards, New Delhi
77.	Ms. Shalini Shree, Executive Assistant	-do-

Item 0 WELCOME & INTRODUCTORY REMARKS

Dr. Prakash Vasudevan, Chairman extended a hearty welcome to the members of TXD 36. He emphasized for active participation from the members and requested for the precise inputs so as to arrive at consensus.

Member secretary also welcomed the Chairman and all other members.

Item 1 CONFIRMATION OF THE MINUTES OF THE PREVIOUS MEETING

1.1 In view of no comments, the Committee **CONFIRMED** the minutes of the 27th meeting of TXD 36 committee held on 16 July 2024 through CISCO Webex videoconferencing which were circulated vide our reference TXD 36/A 2.27 email dated 27 July 2024.

Item 2 SCOPE AND COMPOSITION OF TXD 36

2.1 The committee **REVIEWED** the present scope and composition of the Committee TXD 36 as given in **Annex 1** to the agenda. After deliberation, the committee decided the following:

- i) Defence Research & Development Organization (Advanced System Laboratory), Hyderabad will be represented by Dr. Mukesh Kumar Sinha.

2.2 to 2.3 The committee deliberated on the request received for membership from the following person/organization: -

- i) Shri Kulveen Singh Bali, M/s Solventum India, Bangalore
- ii) Shri Gopal Amrut Suryawanshi, M/s Avgol India Pvt. Ltd., Madhya Pradesh

The member secretary also placed the request of M/s Piramal Pharma Ltd, Mumbai for membership in TXD 36 during the meeting.

After deliberation, the committee decided not to accept the request as the manufacturers/stakeholders have already been adequately represented in the committee. They may be invited for future meeting of TXD 36 for discussion on new subjects of their domain/interest or in working groups/panel meeting. The email ID's of above organization should be included in the additional mailing list for giving comments on wide circulation drafts.

Item 3 ISSUES ARISING OUT OF PREVIOUS MEETING OF TXD 36

3.1 The committee noted the summary of actions taken on various decisions of the 27th meeting of TXD 36 as given in **Annex 2** of the agenda.

Item 4 DRAFT AMENDMENT FOR FINALIZATION

4.1 The committee considered the following draft amendment issued under wide circulation as given in **Annex 3** to the agenda.

- i) Amendment No. 1 to IS 18266 :2023, Textiles — Medical Respirator — Specification [Doc: TXD 36 (25703)]

The committee considered the comments received from Shri Kulveen Bali - Solventum India, Shri Arnab Das -DGQA, Dr Manish Sabharwal -Dr. Sabharwal Wound Care and Shri Yogesh Gohel – Global Non-woven on amendment No. 1 to IS 18266 : 2023 as given at **Annex 3** to the agenda.

After deliberation, the committee decided that the draft amendment as given in agenda is **FINALIZED** for publication as amendment to Indian Standard. BIS may carry out the editorial changes in the finalized draft, if required.

Item 5 DRAFT STANDARD/AMENDMENT FOR APPROVAL FOR WIDE CIRCULATION

5.1 IS 5405 : 2019, Sanitary Napkins — Specification (Second Revision)

The committee considered the agenda and minutes of panel meeting as given at **Annex 4** along with the proposed draft revision of IS 5405 as given at **Annex 5** to the agenda. The member secretary also placed the comments of Dr. Ruchi Aradhana, Anabio Technologies, Bengaluru during the meeting.

After deliberation, the committee accepted the recommendation of the panel and decided that the following changes shall be incorporated in the proposed revision of IS 5405: -

- i) Foreword, first paragraph, Insert the following at the end : -
'Sanitary napkins are also referred as sanitary pads or menstrual pads.'
- ii) The term 'sanitary pad' is to be updated as 'sanitary napkin' in the existing standard.

iii) The relevant definition from ISO document Menstrual Products – Terminology may be included in the proposed draft revision of IS 5405.

iv) (Page 2, clause 6) — Insert the following note at the end:

‘NOTE — The requirements given in 6.1 are for guidance of the manufacturer. The manufacture, workmanship and finish may vary between different design, types and sizes of the sanitary napkin/pantyliner/maternity pad/period panty or as per the agreement between buyer and seller. The manufacture should use elemental or total chlorine free bleached wood pulp in the absorbent core of the product.’

v) (Page 5, Annex B, clause B-1, fourth sentence) — Substitute ‘5-7 mm’ for ‘1-2 mm’.

After deliberation, the committee decided that BIS shall prepare the draft revision of IS 5405 after incorporating the above changes and send the same for **wide circulation for 30 days** for eliciting technical comments from stakeholders. BIS may carry out the editorial changes in the draft if required.

The committee also requested Dr. Ruchi Aradhana, Anabia Technologies, Bengaluru to share the requirement and test method for biodegradable sanitary napkin within 30 days.

5.2 IS 17334 : 2019, Medical Textiles — Surgical Gowns and Surgical Drapes — Specification

The committee considered the extract of minutes of 23rd meeting of TXD 36, the summary of test results received from SITRA and proposed amendment/revision of IS 17334 as given at **Annex 6/Annex 7/Annex 8** of the agenda.

After deliberation, the committee decided that the following changes shall be incorporated in the proposed revision of IS 17334: -

- i) Breathability test (water vapour transmission rate), [g/m²/day, Max] - 800 as per Annex F of IS 16390 is to be included in level 4 as an optional requirement.
- ii) Examples of Procedures with Anticipated Exposure Risks as given in Table 3 of IS 17334 : 2019 is to be included for user during revision of standard.
- iii) The requirement of Resistance to microbial penetration — Dry (CFU) (≤ 300) (for less critical zones) test is to be included in level 2 and level 3 gown and drape.
- iv) The requirement of Resistance to microbial penetration — Wet (I_B) (≥ 2.8) (for critical zones) test is to be included in level 3 of gown and drape.
- v) The committee also requested AIMED/ITTA and other stakeholders to suggest their feedback along with technical justification on proposed draft revision of IS 17334 in 15 days.

The committee further decided that BIS shall prepare the draft revision of IS 17334 after incorporating the above changes and send the same for **wide circulation for 30 days** for eliciting technical comments from stakeholders. BIS may carry out the editorial changes in the draft if required.

Item 6 COMMENTS ON PUBLISHED STANDARDS

6.1 IS 17509 : 2021 Disposable Baby Diaper — Specification

The committee considered the comments received from Shri Alok Birla, Swara Baby Products, Madhya Pradesh and BIS Rajkot Branch office as given at **Annex 9** along with proposed draft amendment no. 3 to IS 17509 as given at **Annex 10** of the agenda.

After deliberation, the committee decided that the following change shall be incorporated in proposed draft amendment 3 to IS 17509 :-

(Page 2, clause 6.2, Table 1, see amendment 2 also) — Substitute the following for the existing note :

‘NOTE —

1)The recommended dimension and tolerance (for reference) for premature baby and other variety not covered in Table 1 shall be declared by the manufacture.’

2) The actual dimension of baby diaper may differ as per the product design of manufacturer. If required, the manufacturer may also provide the figure/schematic diagram for measurement of dimension of baby diaper.’

After deliberation, the committee decided that draft amendment no. 3 to IS 17509 after incorporating above changes shall be issued under wide circulation **for 30 days** for eliciting technical comments from stakeholders. BIS may carry out the editorial changes in the draft if required.

6.2 IS 17514 : 2021, Reusable Sanitary Pad/Sanitary Napkin/Period Panties — Specification

The committee considered the comments received from Smt Tanya Mahajan, Menstrual Health Action for Impact (MHAI), New Delhi as given at **Annex 11** of the agenda.

After deliberation, the committee decided that the following changes shall be incorporated in draft amendment to IS 17514 :-

- i) The following note shall be included under clause 6, Table 1 :-

‘NOTE — 1) The actual dimension of absorbent core may differ as per the product design of manufacturer. If required, the manufacturer may also provide the figure/schematic diagram for measurement of dimension of absorbent core length and width of the product.

2) The recommended dimension (for reference and guidance only) of absorbent core length and width for other size class/type of reusable sanitary pad/sanitary napkin/period panties not covered in clause 6 shall be declared by the manufacture.’

- ii) Page 7, clause B-1) — Substitute ‘side edge’ for ‘side’.

- iii) (Page 6, clause B-1), The following note shall be included

- ‘NOTES — 1) The length and width of 1 kg weight should have dimension of 150 mm x 50 mm with a tolerance of ± 1 mm.
- iv) Other editorial changes/clarification note similar in line with IS 5405 may also be incorporated.

After deliberation, the committee decided that draft amendment no. 5 to IS 17514/Revision of IS 17514 after incorporating above changes shall be issued under wide circulation **for 30 days** for eliciting technical comments from stakeholders. BIS may carry out the editorial changes in the draft if required.

6.3 IS 17630 : 2021, Medical Textiles — Bedsheet and Pillow Cover — Specification

The committee considered the comments received from Shri Dhanaanjay D Joshi, Alok Industries Limited as given at **Annex 12** of the agenda.

After deliberation, the committee decided to review the requirement of particle release test for woven fabric and requested SITRA to share the results of particle release testing for woven fabric of last six months. The committee also requested M/s Alok Industries to share the test report of NABL approved lab/inhouse technical data to decide the appropriate value of particle release test for woven fabric.

Based on the technical input/working draft, the matter shall be discussed in next meeting of TXD 36.

Item 7 DATE AND PLACE OF NEXT MEETING

7.1 The Committee DECIDED to hold the next meeting in consultation with Chairman TXD 36 on Top Priority.

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 members present in the meeting.