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BUREAU OF INDIAN STANDARDS

Draft Minutes

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

26th Meeting

Date	Time	Venue
15 April 2024 (Monday)	1030 h	Video Conference through CISCO Webex

Attendance

SI No.	Name of Member	Organization
1.	Dr. Prakash Vasudevan (Chairman)	Director, SITRA, Coimbatore
2.	Shri Kulveen Singh Bali	3 M India Limited, Bangalore
3.	Smt. Prabha Hegde	-do-
4.	Shri Saurabh	Axio Biosolutions Private Limited, Bangalore
5.	Shri Animesh	-do-
6.	Shri Apurva Ranka	Alpha Foam Ltd., Pune
7.	Prof. Sidhartha Sathpathy	All India Institute of Medical Sciences, Delhi
8.	Shri Amit Kumar	Association of Indian Medical Device Industry (AiMeD), New Delhi
9.	Smt. Rama Venugopal	-do-
10.	Dr. Michael Rodrigues	Care Now Medical Pvt Ltd., Coimbatore
11.	Dr. B.S Charan	Director General of Health Services, New Delhi
12.	Dr. Naresh Panchal	-do-
13.	Shri Sumit Marwah	Dispoline India Private Limited, Bangalore
14.	Shri S. S Kashyap	DGQA (Ministry of Defence), New Delhi
15.	Shri Nirav Mehta	Dima Products, Mumbai
16.	Shri Raghavan Adiyodi	-do-
17.	Dr. Manish Sabharwal	Dr. Sabharwals Manufacturing Labs Pvt Ltd, Panchkula
18.	Dr. Sanjiv Rehlan	Federation of Indian Chambers of Commerce & Industry (Shalex Medtech), New Delhi
19.	Shri Gurmeet Singh	Ginni Filaments Limited, Noida
20.	Dr. Sadhana Srivastav	Indian Council of Medical Research, New Delhi
21.	Prof. Bipin Kumar	Indian Institute of Technology, New Delhi
22.	Shri Bhuwan Singla	Johnson & Johnson Ltd., Mumbai
23.	Shri Vilas Khade	-do-
24.	Shri Arvind Watts	-do-
25.	Shri Puneet Kanodia	Kansons Overseas Ltd. Noida
26.	Smt. Komal Sharma	Kimberly-Clark Corporation, Mumbai

27.	Shri T. Balaji	KOB Medical Textiles Pvt Ltd, Palladam, Coimbatore
28.	Smt. Roocha Khedkar	Kenvue, Mumbai
29.	Ms. Shivani Swamy	Livinguard Technologies Pvt. Ltd., Mumbai
30.	Shri Ajay Pandit	Ministry of Textiles, New Delhi
31.	Dr. Kirti N Saxena	Maulana Azad Medical College, New Delhi
32.	Shri Joy Devassy	Nobel Hygiene, Mumbai
33.	Shri Kamal Johari	-do-
34.	Shri Kaushik Johari	-do-
35.	Shri Hardev	-do-
36.	Smt. Sneha Gupta	-do-
37.	Shri Pankaj Arora	PGIMER, Chandigarh
38.	Shri Girish Parhate	Procter and Gamble, Mumbai
39.	Shri Prajwal	-do-
40.	Shri Prashant Jadhav	-do-
41.	Smt. Leda Uy	-do-
42.	Smt. Paridhi	Soothe Healthcare, Noida
43.	Shri Kavinder Kumar	Solis Hygiene Pvt. Ltd., Madhya Pradesh
44.	Dr. E. Santhini	South India Textile Research Association, Coimbatore
45.	Shri Veerasubramanian	-do-
46.	Shri Khalil Khan	Surya Textech, Chandigarh
47.	Shri Ashish Naik	Swara Baby Products Pvt Ltd., Madhya Pradesh
48.	Dr. P. Ravichandran	Textiles Committee Mumbai
49.	Smt. Tanya Mahajan	The Pad Project (NGO), New Delhi
50.	Dr Manisha Mathur	The Synthetics & Art Silk Mills Research Association, Mumbai
51.	Smt. S. S. Dongre	-do-
52.	Shri Rohit Shrivastava	Unicharm India Pvt Ltd., Gurugram
53.	Shri Harshal Patil	Venus Safety and Health Pvt Limited, Navi Mumbai
54.	Shri Ravindra Shinde	-do-
55.	Shri Jayant Kulkarni	Through VC

BIS DIRECTORATE GENERAL

56.	Shri Dharmbeer, Scientist D/Joint Director (Textiles) & (Member Secretary TXD 36)	Bureau of Indian Standards, New Delhi
57.	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

In view of no comments, the Committee **CONFIRMED** the minutes of the 25th meeting of the TXD 36 committee held on 05 January, 2024 through CISCO Webex Videoconferencing as circulated vide email dated 20 January 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 recommended the following revised scope:

‘To formulate Indian Standards for terminology, testing and specifications for technical textiles for medtech applications (**including medical devices made of textile material**) such as healthcare and hygiene textile products, implantable and non-implantable and extra corporeal textile products.

It was further clarified that the products such as barrier face covering, hydrocolloid dressing, bandage plaster of paris, zinc oxide self-adhesive plaster, medical respirator are used for medical application such as infection control, wound healing, wound dressing, orthopedic support and bone repair etc. These products are covered under Medical Textile/Medical Device and falls under Scope of TXD 36.

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

- i) Shri Abhijit Mondal, Bisonlife India Private Limited, Bengaluru
- ii) Shri Venkatesh A, Viridian Testing Laboratories LLP, Tirupur

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 25th meeting of TXD 36 as given in **Annex 2** of the agenda.

Item 4 DRAFT STANDARD FOR APPROVAL FOR WIDE CIRCULATION

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

The committee considered the updated draft document as given in **Annex 3** of the agenda. After deliberation, the committee decided the following: -

- i) The requirement of resistance to dry and wet bacterial penetration test may be included in level 2 and level 3. It was requested that following stakeholders shall send samples to SITRA for testing of dry and wet bacterial penetration test within 15 days: -
 - a) Dr. Sanjiiv Rehlan, FICCI (Shalex Medtech), New Delhi
 - b) Shri Sumit Marwah, Dispoline India Private Limited, Bengaluru
 - c) Shri Khalil Khan, Surya Textech, Chandigarh
 - d) Shri Apurva Ranka, Alpha Foam Private Limited, Pune

The committee further requested SITRA to suggest the optimum value based on testing of samples/practical significance of protection to user/International Practice.

- ii) All the changes agreed for revision of IS 17334 during the 23rd meeting of TXD 36 shall be incorporated in the draft revision.
- iii) Impact penetration test shall be excluded for Level 3 of surgical gown/drape.
- iv) Clarification note shall be provided while selecting the different performance level 'if any of the anticipate risk exposure condition met then select that particular level.'

Based on the above changes, BIS shall prepare the revised draft of IS 17334 and the same shall be issued in wide circulation for a period of **30 days** for eliciting technical comments from stakeholders. BIS may carry out the editorial changes in the draft if required.

4.2 IS 16111: 2013, Elastic Bandage

The committee considered the technical inputs received from KOB Medical Textiles Pvt. Ltd. as given in **Annex 4** and updated draft document as given in **Annex 5** of the agenda. After deliberation, the committee decided the following: -

- i) To categorize elastic bandages into short, medium and long stretch bandage.
- ii) KOB Medical Textiles and Dr. Sabharwal Wound Care shall provide technical inputs regarding range and uses of short, medium and long stretch bandage.
- iii) All the comments and amendment shall be incorporated in the draft revision of IS 16111. In case of any clarification, BIS may approach KOB Medical Textiles and Dr. Sabharwal Wound Care.

The committee further decided that the draft standard so prepared shall be issued in **wide circulation** for **30 days** for eliciting technical comments from stakeholders. BIS may carry out the editorial changes in the draft if required.

4.3 Medical Textiles – Nonwoven Gauze Swab (Sterile and Non-Sterile) – Specification

The committee considered the technical inputs received from M/s Ginni Filaments and M/s Welspun India as given in **Annex 6** and updated draft document as given in **Annex 7** of the agenda. After deliberation, the committee decided the following: -

- i) To restrict the scope of non-woven gauze swab for external use and cleaning of outer surface of wound/skin post surgery.
- ii) M/s Alpha Foam Pvt. Ltd. shall share their inhouse test report for non-woven gauze swab on all the applicable performance parameter.

- iii) M/s Ginni filaments shall share the comparative testing results (5 domestic samples and 5 International samples of different lots, each from 2 different NABL approved lab) for tensile strength (N/5 cm) as per IS 15891 (Part 3) : 2024/ISO 9073-3:2023] in machine direction and cross direction. The cost of testing sample shall be borne by M/s Ginni filament.
- iv) The requirement of bioburden (sterile and non-sterile gauze swab) shall be included as mandatory requirement. For sterile, 'No viable microorganism shall be present' and for non-sterile (CFU/100 cm²) it shall be <300 CFU.
- v) The requirement of biocompatibility evaluation – cytotoxicity, skin irritation and sensitization test shall be included at raw material stage.
- vi) In case of any additional clarification and technical information for preparation of preliminary draft, BIS may co-ordinate with
 - a) Shri Gurmeet Singh, M/s Ginni Filaments, Noida.
 - b) Shri Apurva Ranka, M/s Alpha Foam Pvt. Ltd., Pune

The committee further decided that the draft standard so prepared shall be issued in **wide circulation** for **30 days** for eliciting technical comments from stakeholders. BIS may carry out the editorial changes in the draft if required.

4.4 Medical Textiles -Scrub Suit – Specification

The committee considered the technical inputs received from Ms. Shivani Swamy, Livinguard Mumbai as given in **Annex 8** and updated draft document as given in **Annex 9** of the agenda. After deliberation, the committee decided the following: -

- i) To exclude blood resistance and viral blood resistance test from the existing draft standard.
- ii) Patient gown is to be excluded from existing draft standard of scrub suit.
- iii) The minimum performance requirement of both single use and multiple use scrub suit shall be included in the draft standard. In case of multiple use, additional requirement of fabric may be specified.
- iv) The requirement of bioburden (sterile and non-sterile gauze swab) shall be included as mandatory requirement. For sterile, 'No viable microorganism shall be present' and for non-sterile (CFU/100 cm²) it shall be <300 CFU.
- v) Assistance may be taken from International standard on the similar subject.
- vi) The members were requested to share their comments (if any) with specific proposal within 07 days
- vii) In case of any additional clarification and technical information for preparation of preliminary draft, BIS may co-ordinate with
 - a) Ms. Shivani Swamy, Livinguard Mumbai
 - b) Dr. Sanjiv Rehlan, FICCI, New Delhi
 - c) Mr. Apurva Ranka, Alpha Foam Ltd, Pune
 - d) Shri Khalil Khan, Surya Textech, Chandigarh

The committee further decided that the draft standard so prepared shall be issued in **wide circulation** for **30 days** for eliciting technical comments from stakeholders. BIS may carry out the editorial changes in the draft if required.

4.5 Medical Textile — Sterilization Wraps — Specifications

The committee considered the technical inputs received from Shri D. Veerasubramanian, SITRA as given in **Annex 10** and updated draft document as given in **Annex 11** of the agenda. After deliberation, the committee decided the following:-

- i) The minimum performance requirement of sterilization wrap shall be included in the draft standard. In case of additional requirement applicable for sterilization wrap for a specific textile raw material, it may be specified separately.
- ii) Assistance may be taken from International standard/International Practice on the similar subject.
- iii) The members were requested to share their comments (if any) with specific proposal within 07 days.
- iv) BIS shall prepare the preliminary draft after including scope, performance parameter, test method, sampling, packing, labelling and marking requirement. In case of any additional clarification and technical information for preparation of preliminary draft, BIS may co-ordinate with
 - a) Shri D. Veerasubramanian, SITRA
 - b) Shri Sumit Marwah, Dispoline India Pvt. Ltd., Bengaluru

The committee also requested Shri Sumit Marwah to share the contact details of manufacturers of sterilization wrap for their technical inputs and comments.

The committee further decided that the draft standard so prepared shall be issued in **wide circulation** for **30 days** for eliciting technical comments from stakeholders. BIS may carry out the editorial changes in the draft if required.

Item 5 COMMENTS ON PUBLISHED STANDARDS

5.1 IS 17509: 2021, Disposable Baby Diaper — Specification

The committee considered the comments received from Unicharm India, Soother Healthcare, P & G, Mumbai, Bella premium and SITRA as given in **Annex 12** of the agenda. After deliberation, the committee decided the following: -

- i) It was clarified that dimension/design given in IS 17509 Disposable baby diaper are for reference only. The standard covers the performance parameters of baby diaper; and does not restrict manufacturing process and design aspects. The test method for rate of absorption given in Annex B is for uniform practice in testing method.
- ii) M/s Nobel Hygiene, Mumbai will share inhouse data, scientific data and NABL approved test report results for requirement of –
 - a) Rate of absorption per gush (s) for new born, small, medium, large, extra-large.
 - b) Weight (kg), Dimension (mm), Minimum Absorption Capacity (ml), Rate of absorption per gush (s), Rewet under load, (g), Max for addition of new variety - double extra large

- c) Any changes required in existing test method (Annex B) for testing apparatus, reagents, weight of rigid cover plate and test method/procedure.
- iii) M/s Swara Baby Products Pvt Ltd., Madhya Pradesh will share Inhouse data, Scientific data and NABL Approved test report results for –
 - a) Any changes required in existing test method (Annex B) for testing apparatus, reagents, weight of rigid cover plate and test method/procedure.
 - b) Weight (kg), Dimension (mm), Minimum Absorption Capacity (ml), Rate of absorption per gush (s), Rewet under load, (g), Max for addition of new variety- Triple extra-large.
 - iv) M/s Bella Premier Happy Hygiene Care Pvt. Ltd., Tamilnadu will share Inhouse data, Scientific data and NABL Approved test report results for requirement of –
 - a) Weight (kg), Dimension (mm), Minimum Absorption Capacity (ml), Rate of absorption per gush (s), Rewet under load, (g), Max for addition of new variety for pre-mature baby.
 - b) Any changes required in existing test method (Annex B) for testing apparatus, reagents, weight of rigid cover plate and test method/procedure.
 - c) Rational for addition of nonabsorbent fibres in middle layer/absorbent core.
 - v) It was suggested to include the Rate of absorption per gush (s), Max for three consecutive gushes as 40, 60 and 90 seconds in all varieties.
 - vi) To include the new varieties of baby diaper - premature baby (up to 2 kg), double extra-large and triple extra-large in the existing standard.
 - vii) It was requested to M/s Nobel Hygiene, M/s Swara Baby Products Pvt Ltd. and M/s Bella Premier Happy Hygiene Care Pvt. Ltd. to share inhouse data, scientific data and NABL Approved test report results within 07 days.

The committee further decided that based on the above technical inputs, BIS shall prepare the draft amendment and the same shall be issued in **wide circulation** for **30 days** for eliciting technical comments from stakeholders. BIS may carry out the editorial changes in the draft if required.

5.2 IS 18266: 2023, Textiles — Medical Respirator — Specification

The committee considered the comments received from Shri N.K. Kansara, Ex-DDG, BIS as given in **Annex 13** of the agenda. Member secretary placed the feedback/technical inputs received from M/s Venus Safety and Health Pvt Limited, Mumbai during the meeting of TXD 36. After deliberation, the committee decided the following: -

- i) The comments are related to elaboration on use and application of medical respirator which are important from user point of view.
- ii) An amendment shall be issued in the existing standard.

- iii) BIS shall prepare the draft amendment in consultation with M/s Venus Safety and Health Pvt Limited, Mumbai.

The committee further decided that the draft amendment so prepared shall be issued in **wide circulation** for **30 days** for eliciting technical comments from stakeholders. BIS may carry out the editorial changes in the draft if required.

5.3

- i) **IS 863: 2023, Medical Textiles - Cotton bandage cloth - Specification (third revision)**
- ii) **IS 758: 2023, Medical Textiles — Absorbent Cotton Gauze — Specification (Fifth Revision)**

The committee considered the comments received from CMD-2 of BIS on above standards and technical inputs received from Dr. Manish Sabharwal, Dr. Sabharwals Manufacturing Labs Pvt Ltd, Panchkula and other stakeholders during the meeting of TXD 36.

After the deliberation, the committee decided that the requirement of bioburden (sterile and non-sterile) shall be included as mandatory requirement. For sterile, 'No viable microorganism shall be present' and for non-sterile (CFU/100 cm²) it shall be < 300 CFU.

The committee further decided that the draft amendment so prepared shall be issued in **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 NEW SUBJECTS FOR FORMULATION OF INDIAN STANDARD

6.1 Chitosan Haemostatic Dressings

The committee considered the request received from M/s Axio Bio-Solutions Private Limited, Ahmedabad for formulation of a new standard on Chitosan Haemostatic Dressings.

After the deliberation, the committee decided that Shri Saurabh, Axio Bio-Solutions Private Limited shall share the working draft on Chitosan Haemostatic Dressings based on inhouse technical data, scientific data and International Practice and share the same with BIS in 15 days. The committed requested member secretary to share the 3-4 standards published on wound dressing with Axio Bio-Solutions Private Limited for reference and guidance on drafting of the document.

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

Item 7 REVIEW OF PUBLISHED STANDARDS

7.1 The committee considered the standards due for review as given in **Annex 14** of the agenda.

After deliberation, the committee decided the following: -

- a) The committee requested experts/committee member (**refer Pages 10-13 Annex 1 to the minutes**) to send their comments and suggestion for standards due for review within 15 days.
- b) BIS should approach other stakeholder who are not represented in TXD 36 committee/working groups/panel for their feedback and suggestion for changes required in the above standards.
- c) Adopted ISO Standards on Test Method which are based on latest version of ISO shall be allocated to member secretary TXD 36. These standards shall be circulated to committee members for 15 days through BIS Standards Portal. If no comments received after 15 days, the standards shall be reaffirmed for a further period of 5 years.
- d) If there are no comments on indigenous standards or the indigenous standards are as per the requirement of trade and practice. The standards may be reaffirmed for a further period of 5 years.
- e) Based on the suggestion/comments of experts where amendment and revision is required in the published standard, BIS shall fill the Performa for review and prepare the draft amendment/draft revision. The draft amendment/draft revision standard so prepared shall be issued in **wide circulation** for **30 days** for eliciting technical comments from stakeholders. BIS may carry out the editorial changes in the draft if required.

7.2 The committee considered the list of pre-2000 standards as given in **Annex 15** of the agenda.

After deliberation, the committee decided the following: -

- a) The committee requested experts/committee member (**refer page 14 Annex 2 to the minutes**) to send their comments and suggestion on pre-2000 standards within 15 days.
- b) BIS should approach other stakeholder who are not represented in TXD 36 committee/working groups/panel for their feedback and suggestion for changes required in the above standards.
- c) If the standards are not in use/limited use, it shall be archived for the time being.
- d) Based on the suggestion/comments of experts for revision of published pre-2000 standard, BIS shall fill the Performa for review and prepare the draft revision standard. The draft standard so prepared shall be issued in **wide circulation** for **30 days** for eliciting technical comments from stakeholders. BIS may carry out the editorial changes in the draft if required.

Item 8 DATE AND PLACE OF NEXT MEETING

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

Item 9 ANY OTHER BUSINESS

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

**Annex 1 to Minutes
(Item 7.1)
List of Standards Due for Review**

S.No.	IS Number	IS Title	Allotted to committee members/experts to review/comments
1	IS 10829 : 1993	X-Ray detectable gauze swabs and laparotomy sponges – Specification (first revision)	Dr. Manish Sabharwal, Dr. Sabharwal Wound Care
2	IS 14944 : 2020	Surgical Dressings — Methods of Test (First Revision)	-do-
3	IS 1681 : 1998	Textiles – Hospital blankets, woollen, dyed – Specification (third revision)	Dr. Sanjiiv Rehlan, FICCI (Shalex Medtech)
4	IS 4717 : 2020	Medical Textiles - Zinc Oxide Self-Adhesive Plaster - Specification (Second Revision)	Dr. Manish Sabharwal, Dr. Sabharwal Wound Care
5	IS 4738 : 2020	Medical Textiles - Bandage, Plaster of Paris - Specification (Third Revision)	-do-
6	IS/ISO 20645 : 2004	Textile fabrics – Determination of antibacterial activity - Agar diffusing plate test	Member Secretary TXD 36
7	IS 16288 : 2014	Medical textiles - Method for evaluation of the bacterial filtration efficiency of surgical face masks	Shri D. Veerasubramaniam, SITRA
8	IS 16289 : 2014	Medical textiles - Surgical face masks - Specification	Shri Mahesh Kudhav, VENUS Safety & Health Pvt Ltd. Shri Anand Singh, Thea - Tex Healthcare (India) Private Limited Representative of Magnum Health and Safety Pvt. Ltd.

9	IS 16290 : 2014	Medical textiles - Knitted viscose primary dressings - Specification	Shri D. Veerasubramaniam, SITRA Shri T. Balaji, KOB Medical Textiles Pvt Ltd, Dr. Manish Sabharwal, Dr. Sabharwal Wound Care
10	IS 16291 : 2014	Medical textiles - Paraffin gauze dressings - Specification	-do-
11	IS 16302 : 2020	Medical Textiles — Orthopedic Stockinet — Specification (First Revision)	-do-
12	IS 16303 : 2014	Medical textiles - Cast padding for orthopaedic plaster - Specification	-do-
13	IS 16466 : 2020	Medical Textiles - Povidone Iodine Ointment Based Knitted Dressing - Specification (First Revision)	-do-
14	IS 16549 : 2020/ISO 22610 : 2018	Surgical drapes, gowns and clean air suits, used as medical devices, for patients, clinical staff and equipment – Test method to determine the resistance to wet bacterial penetration (first revision)	Member Secretary TXD 36
15	IS 16671 : 2020	Medical Textiles — Belladonna Adhesive Plaster — Specification (First Revision)	Shri D. Veerasubramaniam, SITRA Dr. Manish Sabharwal, Dr. Sabharwal Wound Care
16	IS 17349 : 2020	Medical textiles – Shoe covers – Specification	Shri Anand Singh, Thea - Tex Healthcare (India) Private Limited Representative of Magnum Health and Safety Pvt. Ltd. Shri Sumit Marwah, Dispoline India Private Limited

17	IS 17348 : 2020	Medical textiles – Adhesive incise drape – Specification	Dr. Prabha Hegde, 3 M India Shri Sumit Marwah, Dispoline India Private Limited Dr. Sanjiiv Rehlan, FICCI (Shalex Medtech)
18	IS 17350 : 2020	Medical textiles – Abdominal binder – Specification	Dr. Manish Sabharwal, Dr. Sabharwal Wound Care
19	IS 17351 : 2020	Medical textiles – Dressing, shell compressed – Specification	Dr. Manish Sabharwal, Dr. Sabharwal Wound Care
20	IS 17352 : 2020	Medical textiles – Foam dressing – Specification	Dr. Prabha Hegde, 3 M India
21	IS 17353 : 2020	Medical textiles – Pressure garment – Specification	Shri D. Veerasubramaniam, SITRA Shri T. Balaji, KOB Medical Textiles Pvt Ltd, Dr. Manish Sabharwal, Dr. Sabharwal Wound Care
22	IS 17354 : 2020	Medical textiles – Dental bib/Napkins – Specification	Shri Sumit Marwah, Dispoline India Private Limited Dr. Sanjiiv Rehlan, FICCI (Shalex Medtech)
23	IS 17359 : 2020	Medical textiles – Anti-embolic stocking for Post op use upto thigh medium – Specification	Shri D. Veerasubramaniam, SITRA Shri T. Balaji, KOB Medical Textiles Pvt Ltd,

			Dr. Manish Sabharwal, Dr. Sabharwal Wound Care
24	IS 17333 (Part 1) : 2020ISO 13629-1:2012	Textiles – Determination of antifungal activity of textile products Part 1 Luminescence method	Member Secretary TXD 36
25	IS 17333 (Part 2) : 2020ISO 13629-2 : 2014	Textiles – Determination of antifungal activity of textile products Part 2 Plate count method	-do-
26	IS 17347 : 2020ISO 18184 : 2019	Textiles – Determination of antiviral activity of textile products	-do-
27	IS 17506 : 2020	Medical Textiles - Hydrocolloid Dressing - Specification	Dr. Prabha Hegde, 3 M India
28	IS 17507 : 2020	Medical Textiles - Cellulose Wading - Specification	Dr. Manish Sabharwal, Dr. Sabharwal Wound Care
29	IS 17508 : 2020	Disposable Adult Incontinence Diaper - Specification	Dr. E. Santhini, SITRA Shri Kamal Jauhari, Nobel Hygiene
30	IS 4605 : 2020	Crepe Bandage - Specification (Second Revision)	Shri D. Veerasubramaniam, SITRA Shri T. Balaji, KOB Medical Textiles Pvt Ltd, Dr. Manish Sabharwal, Dr. Sabharwal Wound Care

**Annex 1 to Minutes
(Item 7.2)
List of Pre-2000 standards**

Sl No.	IS Number	IS Title	Allotted to committee members/experts to review/comments
1	IS 10829 : 1993	X-Ray detectable gauze swabs and laparotomy sponges – Specification (first revision)	Dr. Manish Sabharwal, Dr Sabharwal Medicals Pvt Ltd, Chandigarh
2	IS 11046 : 1984	Specification for towel, operating	-do-
3	IS 12839 : 1989	Wool/polyamide blended flannel, hospital, grey - Specification	Dr. Sanjiiv, FICCI (Shalex Medtech)
4	IS 14316 : 1995	Swabs, small, in bag of 50 - Specification	Dr. Manish Sabharwal, Dr Sabharwal Medicals Pvt Ltd, Chandigarh
5	IS 1681 : 1998	Textiles – Hospital blankets, woollen, dyed – Specification (third revision)	Dr. Sanjiiv, FICCI/PWMAI
6	IS 6237 : 1971	Specification for handloom cotton cloth for plaster of Paris bandages and cut bandages	Representative of M/s Bella Premier Happy Hygiene Care Pvt. Ltd.
7	IS 757 : 1971	Specification for handloom cotton lint, absorbent, bleached, non-sterilized (first revision)	Dr. Manish Sabharwal, Dr Sabharwal Medicals Pvt Ltd, Chandigarh