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# BUREAU OF INDIAN STANDARDS

***AGENDA***

**PAPER BASED PACKAGING MATERIALS SECTIONAL COMMITTEE*,* CHD 16**

**19th Meeting**

**Day & Date :** Saturday,07th December, 2024

**Time**  **:** 1200 h

**Mode of meeting** **:** Hybrid mode

**Venue : Chennai Trade Centre, Chennai**

**Email** **:** [chd16@bis.org.in](mailto:chd16@bis.org.in)

**Meeting Link:**

<https://us02web.zoom.us/j/88169427651?pwd=9T0w2AmZ00YqC2OhwD5hrz63ssDbOr.1>

**CHAIRPERSON: Prof. (Dr.) Tanweer Alam, Additional Director & R.O., Indian Institute of Packaging, New Delhi**

**MEMBER-SECRETARY: Virendra Singh,** Scientist ‘E’, Chemical Department, BIS

# WELCOME AND OPENING REMARKS

## Welcome by BIS

## Opening remarks by the Chairperson

# CONFIRMATION OF THE MINUTES OF THE *17th MEETING*

Minutes of the 17th and 18th meeting of Paper-based Packaging Materials Sectional Committee, CHD 16 held on ***06th September, 2024*** and held on ***29th October, 2024***, respectively, were approved by the chairperson and circulated to members on ***03rd October, 2024*** and 27th November, 2024 respectively, via the BIS Standards Portal. A copy of the minutes of the meetings is provided below for reference:

 

So far, no comments have received on the recording of the minutes.

The Committee may **CONSIDER** and **CONFIRM** the minutes, as placed above.

# SCOPE, COMPOSITION and POW of CHD 16

## Scope of “*PAPER BASED PACKAGING MATERIAL”* Sectional Committee, CHD 16

The current scope of CHD 16, “*PAPER BASED PACKAGING MATERIAL”* Sectional Committee is placed below:

1. *To formulate standards on terminology, methods of sampling and test, codes of practice and specifications for Paper & Paper board (coated and uncoated) used for Packaging and Serving application; Paper based packaging materials (converted and treated/coated) like cartons, trays, sacks, bags, boxes, paper based Intermediate Bulk Containers, Paper & Paper based Aluminium foil and/or multi-layered laminates, Paper based multilayer composite cartons paper-based food and beverage accessories.*
2. *To co-ordinate with the work of ISO/TC 6 Paper.*

It is relevant to mention that CHD 16 is also acting as the National Mirror Committee to ISO TC 6 and ISO TC 6/SC 2. The Scope of these committees are given below:

**ISO TC 6** — Paper, board and pulps

*“Standardization in the field of paper, board pulps cellulosic nanomaterials, and lignins, including terminology, sampling procedures, test methods, product and quality specifications, and the establishment and maintenance of appropriate calibration systems. This includes all types of paper, pulps and board as well as products thereof containing any portion of recycled material or material intended for recycling.”*

***Excluded:***

*Matters falling within the scopes of particular technical committees (e.g. ISO / TC 42, 46, 122, 130, 154) with which liaison should be maintained.*

**ISO TC 6/ SC 2** — Test methods and quality specifications for paper and board

In 16th meeting, the committee noted that considering need of more clarity in the title, scope and programme of work of CHD 15 and CHD 16, during the recent meeting of CHD 15, Paper and its Products Sectional Committee it was decided to establish an expert panel as given below involving organizations that are members of CHD 16 too:

***Scope:***

*To review the Title, Scope and Programme of Work of CHD 15 and CHD 16, and to provide recommendations for modifications in Title, Scope and Distribution of Standards for better clarity and management*

***Term:*** *3 months*

***Composition:***

1. *Dr Dharam Dutt – HoD IIT, Roorkee (As convenor)*
2. *Dr B P Thapliyal, IARPMA*
3. *Dr Sanjay Tyagi, CPPRI*
4. *Dr Tanweer Alam, IIP*
5. *Mr Sanjay Yadav, IPMA*
6. *Mr B Dash, IPMA*
7. *Dr Rajiv K Jha, Voice*
8. *Dr Vibhore Rastogi, IIT*

Considering the relevance of the subjects, the committee recommended that following representatives from FCBM and Nestle may also be co-opted on the Expert Panel.

In the 17th meeting, the committee took note that during the 34th meeting, CHD 15 has requested the working group, led by Prof (Dr.) Dharam Dutt, to convene and provide its recommendation for modifications in the title, scope and distribution of standards, preferably before the next meeting of CHD 15.

Considering the above, during the 17th meeting, CHD 16 requested the Group to share the recommendations with the committee for its consideration.

The committee also noted that considering the importance of the issue, during the last meeting, it had recommended that Shri K. P. Singh (FCBM) and Shri Ajay Rajvanshi (M/s Nestle) should also be co-opted on the Working Group to represent committee.

Accordingly, the revised composition is placed below:

***Revised Composition of the Working Group:***

1. *Dr Dharam Dutt – HoD IIT, Roorkee (As convenor)*
2. *Dr B P Thapliyal, IARPMA*
3. *Dr Sanjay Tyagi, CPPRI*
4. *Dr Tanweer Alam, IIP*
5. *Mr Sanjay Yadav, IPMA*
6. *Mr B Dash, IPMA*
7. *Dr Rajiv K Jha, Voice*
8. *Dr Vibhore Rastogi, IIT*
9. *Shri K. P. Singh (FCBM) S*
10. *Shri Ajay Rajvanshi (M/s Nestle*

The first meeting of the Working Group was held on **24th September 2024** in virtual mode. Minutes of the meeting are placed below:

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During 34th meeting of CHD 15 held on 23rd Oct 2024, the committee considered the minutes of the first meeting of Working Group and after detailed deliberation decided, recommended the given below to CHDC:

1. To change the title of CHD 15 to ‘Paper and Paper products Sectional Committee’;
2. To Modify the scope of committee as given below:
3. To formulate Indian Standards for:
4. *Terminology, methods of sampling and test, codes of practice and specifications for pulp, paper, paperboard, raw materials thereof, cellulosic and non-cellulosic products, including nanomaterials, lignin, etc.;*
5. *Paper sizes and grammage, sizes of periodicals and paper stationery materials.*
6. ***Excluding paper-based packaging materials***
7. To coordinate with the work of ISO/TC 6.
8. To transfer the following Indian Standards from CHD 16 to CHD 15 considering their relevance to the committee:

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **IS Number** | **Title** |
|  | IS 1763:2024 | Substances of paper and pulp board – Specification |
|  | IS 2991:1988 | Specification for base paper for waxed paper |
|  | IS 4645:2024 | Storage of paper and Board – Code of Practice |
|  | IS 4661 (Part 1): 2022 | Paper, board, pulps and related terms vocabulary Part 1: Alphabetical index |
|  | IS 4661 (Part 2): 2022 | Paper, board, pulps and related terms vocabulary Part 2: Pulping Terminology |
|  | IS 4661 (Part 3): 2022 | Paper, board, pulps and related terms vocabulary Part 3: Paper Making Terminology |
|  | IS 4661 (Part 4): 2022 | Paper, board, pulps and related terms vocabulary Part 4: Paper and Board grades and converted products |
|  | IS 4661 (Part 5): 2022 | Paper, board, pulps and related terms vocabulary Part 5: Properties of pulp paper and board |

The committee also thanked the Working Group for its inputs and decided to disband it.

The Committee may **CONSIDER** and **DISCUSS.**

## Composition of CHD 16

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### The current composition of CHD 16 as approved by CHDC in its meeting held on **13th September 2024** and Working Groups as finalized by the committee during meeting held on **06th September, 2024** and **29th October 2024** are given at [Annex 1](#_VOTE_OF_THANKS):

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### The Committee may **NOTE.**

### As per BIS guidelines for composition of sectional committees, the following is submitted for information:

1. It has been decided to regularly review composition of the sectional committee to remove/ replace organizations that had not participated in last **2** meetings. Further, **the optimum size of a Sectional Committee or its sub-committee, as recommended by BIS, is 30** and membership to individuals, in personal capacity or as representative of an organization, should be considered when they are widely acknowledged domain area expert and possesses expertise on the subjects covered by the scope of the Sectional Committee. Whenever an organization viz. Ministry, Industry Association or Research and Academic Institutions is co-opted in the Sectional Committee, the person representing the organization should be clearly specified and has the desired standing.
2. As far as possible, non-industry representation should not be less than two-third of the committee composition. The current representation of different stakeholder groups in CHD 16 is given below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Title** | **Category** | **Number** |
| 1. | Industry | Industry and commerce | 9 |
| 2. | Industry association | 4 |
| 3. | Government/ Regulatory bodies | Regulatory bodies | 1 |
| 4. | Consumer/ user group | Consumers/ users | 3 |
| 5. | R&D Organization | Academia and research bodies | 5 |
| 6. | Academic Institution | 1 |
| 7. | Testing, certification and accreditation bodies | Standards application | 0 |
|  | **Total** | | **23** |

It may be seen that the non-industry representation is less than two-third. We, therefore, require to look into the current composition to ensure that non-industry representation is not less than two-third of the committee. For this, we may also identify the relevant and interested non-industry stakeholders those could be co-opted in the committee.

1. Furthermore, whenever in case a representative fail to attend a meeting, a communication seeking his cooperation in the functioning of the sub-committee is sent and after failing to attend two consecutive meetings or more than 50% meetings in a year, their representation is liable to termination. As a consequence, if the member organization concerned fails to attend three consecutive meetings of the Sectional Committee meeting, their membership shall be liable to be terminated.

The Committee may **CONSIDER.**

### **Co-options**

#### Other identified institutes/ departments

In 17th meeting, the committee had decided to again follow-up with the identified departments/ institutes as given below to seek their willingness and nomination for membership on CHD 16:

1. **Government/ regulatory bodies:**
2. Central Pollution Control Board
3. FSSAI
4. **Testing, certification and accreditation bodies:**
5. NABCB
6. NABL

Accordingly, reminders were sent on 13th September, 2024 (copies placed below):



**It may be mentioned that CPCB vide email dated 23rd September, 2024 has shared nomination for representation of CPCB on the Committee:**



**CPCB may therefore be co-opted on the committee.**

Further, no response has been received from remaining organizations.

**The Committee may DISCUSS and DECIDE.**

#### **M/s Godrej Consumer Products Ltd**

During 17th meeting of CHD 16, considering the request received from M/s Godrej Consumer Products Ltd and that their co-option would enable user groups representation, the committee decided to co-opt them on CHD16.

BIS Secretariat was advised to obtain the necessary approvals from the Chemical Divisional Council for this co-option and the nominations.

M/s Godrej Consumer Products Ltd vide email dated 29th Nov 2024 has communicated the nomination of following experts and shared the brief bio of the nominated representatives:

1. Mr K A Peter (Principal Member)
2. Dr Manoj Gaur (Alternate member)

 

The Committee may **NOTE.**

### **Programme of Work (PoW):**

The PoW of the Committee in form of published standards and work under progress is given below:



The Committee may **NOTE.**

# DRAFT UNDER PREPARATION

## *E-commerce bags*

In 13th meeting, the committee noted that in light of ban imposed on single used plastics, the packaging industry is exploring possibilities of switching to paper-based materials for primary or secondary packaging and lots of vendors are using paper-based carry bags. The committee decided to develop Indian Standard for **“Paper based primary and secondary bags/ carry bags”**.

In 14th meeting, noting that **‘paper based primary and secondary bags/ carry bags’** is very vast subject, the committee decided to initially focus on **‘Courier bags’** as this product is being used by the e-commerce aggregators. M/s Prem Industries, a major manufacturer and supplier of such eCommerce Courier bags; and CHD 16 member, was requested to provide a working document on the subject latest by 31st Dec 2023.

During 16th meeting, M/s Prem Industries informed that a working draft, as given below, had been shared with BIS Secretariat just before the meeting:



The committee decided to circulate the working draft to members for 21 days seeking their comments/ inputs which was circulated on 24th May 2024.

Comment/ inputs received form M/s IIT Roorkee are given below:



During the 17th meeting, the committee reviewed the comments provided by Dr. Vibhore Rastogi, IIT Roorkee and noted that while e-Commerce agencies might have specified strict requirements, the values recommended by Dr. Vibhore Rastogi are sufficient enough to hold a material as well as these values are in line with the sustainability concept.

After detailed deliberation, the committee decided:

1. to **issue the document into Wide Circulation** for 2 months under priority II after incorporating the modifications suggested by Dr. Vibhore Rastogi, IIT Roorkee.
2. to consider results of testing during the finalization of document. IIP Delhi has volunteered to carry out testing on various E-commerce courier bags to confirm the requirements.

to explore possibilities of organizing a **national level seminar/ webinar on this document during the WC period**. Mr Raghav Goel from Prem Industries to share list of the interested parties which may include manufacturers/ convertors/ users/ testing laboratories/ other parties for the event.

Further, necessary actions are being initiated.

The committee may **NOTE.**

## Revision of IS 6481:1971 Guide for principal uses and styles of fibreboard containers

In 14th meeting, noting that member concerned was yet to provide inputs/ comments on review of the standard, the committee decided to take up this subject as an R&D Project and advised BIS Secretariat to prepare draft ToRs for consideration by the Committee.

During 15th meeting, considering that BIS Secretariat was yet to prepare ToRs for R&D project, the committee decided to allocate review of the document to the working group CHD 16: WG 1.

During 16th meeting, the committee decided to issue the document into WC for 2 months under priority II after:

1. modifying the Title of this standard to “Guide for principal uses & styles of fiberboard containers and fitments”, as many designs of inner fitments are given in the standard.
2. Incorporating a sketch diagram of Corner Pad made of Corrugated Fiberboard [to be provided by Mr. L. M. Gupta]. Corners pad made of thermocoal and EP foam are extensively used nowadays in many items and replacing them with eco-friendly corrugated fiberboard pad will be a good idea.

Noting that the sketch diagram is still awaited, the committee decided:

1. to send a reminder to Mr L. M. Gupta for the sketch diagram (as indicated by him earlier).
2. To issue the document into Wide Circulation for 2 months under priority II, upon receipt of the diagram.
3. to process the document further in case no comments or comments of editorial nature are only received. Technical comments, if any, will be referred to the CHD 16 for a decision.

Further, necessary actions are being initiated.

The committee may **NOTE.**

## Revision of IS 7963 (Part 3):1976 Methods of test for corrugated fibreboard: Part 3 water resistance of glue bond by immersion

During the 13th meeting, noting that ISO 3038:1975 is available on the same subject and as per ISO Website, this version remains current after review in 2023, the committee decided to examine this ISO standard for possible adoption.

In 14th meeting, FCBM agreed to provide comments, in consultation with CPPRI, by 31st Dec 2023 for further decision by the committee.

In 15th meeting, Shri Lalit Mohan Gupta, PDRTI commented that the standard deals with water resistance of glue bond by immersion. This was also developed in times when proper compression strength or Pin adhesion tests were not there. There does not seem any relevance of this test. We may consider ISO guide lines if there are any on it before taking any call. If there is no ISO standard, we may consider deleting it as obsolete.

The committee therefore decided to allocate review of the document to the working group CHD 16: WG 1.

In 16th meeting, the committee considered the recommendation of the working group, as given below:

1. add the following sentence after first line of 4.1:

*“Individual sample shall be large enough to permit the cutting of five pieces of 20± 1 mm by 150mm (i.e. at least 100mm x150mm board is required) with the flutes at right angles to the length of the test piece”.*

1. Shri Lalit Mohan Gupta also suggested that some other laboratories should also carry out the test to confirm the suitability of the test method.

Prof. (Dr.) Kirtiraj from IIT, Roorkee volunteered for conducting the test to find out suitability of the method. He was requested to report in next 15 days.

The committee decided that in case Dr Kirtiraj confirms the suitability of test method, the document shall be issued into WC for 2 months under priority II after incorporating the changes suggested by Shri Lalit Mohan Gupta. However, in case of adverse comments, the issue will be discussed in the next meeting for further decision on the matter including adoption of relevant ISO standard on the subject.

During the 17th meeting, the committee reviewed the status of IS IS 7963 (Part 3):1976 Methods of test for corrugated fibreboard: Part 3 water resistance of glue bond by immersion that Prof. (Dr.) Kirtiraj from IIT, Roorkee volunteered to conduct the test to find out suitability of the method. As inputs/comments from Prof. (Dr.) Kirtiraj were still awaited, the following decisions were made:

1. to send a reminder to Prof (Dr.) Kirtiraj, IIT Roorkee to confirm the feasibility of the test procedure (as allocated to him in 16th meeting)
2. to issue the document into Wide Circulation for 2 months under priority II after incorporating the suggestion of Prof (Dr.) Kirtiraj. In case, no confirmation is received by 25th Sept 2024, the current document will be issued into WC.
3. to process the document further in case no comments or comments of editorial nature are only received on the WC document. Technical comments received, if any, will be referred to the CHD 16 for a decision.

Further, necessary actions are being initiated.

The committee may **NOTE.**

## Adoption of ISO standards identified during 18th meeting

During 18th meeting, while reviewing comments on the revision of IS 4006 Series, CHD 16 identified the following ISO standards for identical adoption under dual numbering to align with internationally accepted test methods and facilitate mutual trade:

1. ISO 5633:1983 Paper and board — Determination of resistance to water penetration
2. ISO 16532-1:2008 Paper and board — Determination of grease resistance — Part 1: Permeability test
3. ISO 16532-2:2007 Paper and board — Determination of grease resistance — Part 2: Surface repellency test
4. ISO 16532-3:2010 Paper and board — Determination of grease resistance — Part 3: Turpentine test for voids in glassine and greaseproof papers
5. ISO 12192:2011 Paper and board — Determination of compressive strength — Ring crush method
6. ISO 5628:2019 Paper and board — Determination of bending stiffness — General principles for two-point, three-point and four-point methods
7. ISO 5629:2017 Paper and board — Determination of bending stiffness — Resonance method
8. ISO 3036:1975 Board — Determination of puncture (***Under DIS stage***)

Further, necessary actions are being initiated.

The committee may **NOTE.**

## Revision of IS 6211:1993 Code of practice for packaging of paper and board (First Revision)

In 15th meeting, the committee decided to allocate review of the standard to the working group CHD 16: WG 1.

**In 16th meeting, the working group suggested following modifications:**

1. **3.1.2** (c) Paper above 54kg per 500 sheets will be packed in packets of 144 (instead of 130 written at present)
2. **4.3.** Delete “similar reel end discs” by 55x75mm circular edge protector of 5mm thickness
3. **6.3.** Paste labels or write on both sides of reels indicating quality of paper (BF etc.), shade, Dia of reel, Deckle size, Reel no., GSM, weight of reel, DOM (Date of manufacturing factors).

The committee considered the suggestions and decided to reaffirm and revise the standard by incorporating the changes. The document shall be issued into WC for 2 months under priority II. It will be processed further if no comments or only editorial comments are received. Any technical comments will be referred to the Panel for review and recommendation.

During the 17th meeting, the committee decided to **issue the document into Wide Circulation** for 2 months under priority II in consultation with Shri K. P. Singh, FCBM.

Further, necessary actions are being initiated.

The committee may **NOTE.**

# DOCUMENTS UNDER WIDE CIRCULATION

## *Paper based packaging materials for food and beverages serving*

Earlier *‘****Paper based packaging materials for food packaging and food serving’*** was identified as one of the thrust areas.During 14th meeting, the committee noted that the draft document received from Shri Sridharr on *‘****Paper based packaging materials for food packaging and food serving’*** had been circulated amongst committee members as P-draft for comments by 20 May 2023 and the following comments were received.

 

During the meeting, referring to a Supreme Court ruling upholding the Tamil Nadu High Court order supporting the ban by the Tamil Nadu Govt on paper tea cups i.e. LDPE coated cups, Shri Sridharr mentioned that the Supreme Court in its judgment referred this as ‘reinforced paper cups”. Referring to the interaction with CPCB officials, he expressed that as per the existing waste management guidelines, LDPE coated paperboard cups for beverage may not be allowed.

During deliberation on inclusion of varieties that include LDPE Coated cups, the committee noted that FSSAI regulations also prohibit use of recycled paper materials for packaging food items. Members also opined that inclusion of such varieties may also be considered in contravention with the Supreme Court ruling. The committee, therefore, decided to drop such varieties from the proposed standard and requested Shri Sridharr to share modified document addressing comments on the P-draft.

During the 15th meeting, the committee considered the modified draft document shared by Shri P N Sridharr removing the LDPE, PE related provisions.

During 16th meeting, the committee further deliberated on the document and decided to issue the document into **Wide Circulation (WC)** for 2 months under priority 2, after incorporating the following changes:

1. Clarification that the products covered under this standard are essentially serving items and not intended for packaging or as storing materials.
2. Indicating duration during which the food items or beverages in such containers are expected to be served (within 8 hours).
3. Incorporate references drawn in the foreword
4. Incorporate requirements for paper/ paper board, coating/ barrier materials, migration requirements for packaging materials, etc. should be incorporated before issuing into WC.

During the 17th meeting, the committee reviewed the modified document prepared by BIS Secretariat in consultation with ITC and decided:

1. to **issue this document into Wide Circulation** for 2 months under priority II.
2. to process the document further in case no comments or comments of editorial nature are only received. Technical comments, if any, will be referred to the CHD 16 for a decision.
3. **to explore possibilities of organizing a national level seminar**/ webinar on this document during the WC period (preferably in the 2nd week of October 2024). Dr Mohammad Gouse from ITC to share list of the interested parties which may include manufacturers/ convertors/ users/ testing laboratories/ other parties for inviting in the event.

Accordingly, the draft document on "*Paper-based packaging materials for food packaging and food serving*" has been issued into WC on **25th October, 2024** for a period of 2 months. The document is provided below for the committee’s reference:

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**A national level stakeholder consultation on the document was held on 14th November 2024 in Hybrid mode. More than 30 participants participated in the consultation.**

**The Committee may REQUEST members to review the document and provide their comments on the draft document through BIS Standards Portal.**

## Revision of IS 9028:1978 ‘Glossary of terms relating to paper sacks’

During 14th meeting, noting that member concerned was yet to provide inputs/ comments on review of the standard, the committee decided to take up this subject as an R&D Project and advised BIS Secretariat to prepare draft ToRs for consideration by the Committee.

During 15th meeting, considering that BIS Secretariat was yet to prepare ToRs for R&D project, the committee decided to allocate review of the document to the working group CHD 16: WG 1.

During 16th meeting, the committee considered the recommendation of the working group, as given below:

1. Add ‘*like aluminum, plastic film or coated materials*’ in 2.1 after phrase “other flexible materials”
2. Add ‘*like aluminum, plastic film or coated materials*’ in 2.2 after phrase “other flexible materials”

The committee accepted the recommendation and decided to issue the document into Wide Circulation for 2 months under priority II after incorporating the above modifications.

The document shall be processed further in case no comments or comments of editorial nature are only received. Technical committee received, if any shall be referred to the Panel for its review and recommendation.

The draft document for issuance into WC is placed below:



During the 17th meeting, the committee decided to issue the document into WC for 2 months under priority II. The committee also decided to process the document further in case no comments or comments of editorial nature are only received. Technical comments, if any, will be referred to the CHD 16 for a decision.

Accordingly as decided in the 17th meeting of CHD 16, the draft document for the revision of IS 9028:1978 ‘*Glossary of terms relating to paper sacks*’ was issued for WC on ….. for a period of 2 months. The document is provided below for the committee’s reference:

**The Committee may REQUEST members to review the document and provide their comments on the draft document through BIS Standards Portal.**

**The committee may DISCUSS and DEICIDE**

## CHD 16 (26946) Revision of IS 9588:1990 ‘Kraft liner and corrugating medium- Specification’

During 16th meeting, the committee accepted the modifications in the WC document and considering that technical modifications have been suggested, decided to withdraw the document from publications and reissue it into WC for two months under priority II.

Modified draft document is placed below:



The committee also decided to process the document further in case no comments or comments of editorial nature are only recived during WC period. Technical committee received, if any shall be referred to the CHD 16 for a decision.

The document prepared for WC is placed below:



During the 17th meeting, the committee decided to **issue the document into WC** for 2 months under priority II. The committee also decided to process the document further in case no comments or comments of editorial nature are only received. Technical comments, if any, will be referred to the CHD 16 for a decision.

Accordingly, as decided in the 17th meeting of CHD 16, the draft document for the revision of IS 9588:1990, ‘*Kraft liner and corrugating medium- Specification’* was issued for WC on 05th December, 2024 for a period of 2 months. The document is provided below for the committee’s reference:



**The Committee may REQUEST members to review the document and provide their comments on the draft document through BIS Standards Portal.**

**The committee may DISCUSS and DEICIDE.**

## Revision of [IS 7063 : Part 4 : 1976](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/knowyourstandards/Indian_standards/isdetails_mnd/13975) ‘Method of test for corrugated fibreboard: Part 4 Determination of substance of the components papers after separation’

During 13th meeting, the committee noted that ISO 3039:2010 is available on the same subject and decided to examine this ISO standard for possible adoption. As per ISO Website, ISO 3039:2010 was last reviewed and confirmed in 2021 and therefore, this version remains current.

During 14th meeting, FCBM agreed to provide comments, in consultation with CPPRI, by 31st Dec 2023 for further decision by the committee.

Noting that inputs were still awaited, in 15th meeting, the committee decided to allocate review of the document to the working group CHD 16 : WG 1.

During 16th meeting, the committee considered the following modifications suggested by the Panel:

1. 7.4 should be made 7.3 and 7.3 should be made 7.4 as Drying is to be done after separation.
2. Further, following change in present 7.4 (which will become 7.3) following line will replace the existing one:

***‘after cleaning flatten the flute paper by stretching the paper while it is in moist form and recut it to give an area of 100cm2***.’

The committee considered the recommendations of the WG and decided to issue the document into WC for 2 months under priority II after incorporating the modifications suggested by the WG.

During 17th meeting, BIS Secretariat presented draft document to be issued under WC.



The committee requested Mr Ajith Kumar from ITC LST, R&D Centre, Bangalore to suggest modifications in the foreword to make it specific for the test method. Further, it was decided to **issue the document into WC** for 2 months under priority II after incorporating modifications suggested by Mr. Ajith.

The committee also decided to process the document further in case no comments or comments of editorial nature are only received on the WC document. Technical comments, if any, will be referred to the CHD 16 for a decision.

According, the document has been issued under WC on 17th Nov 2024 for a period of 2 months. The document is provided below for the committee’s reference:

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The Committee may **REQUEST** members to review the document and provide their comments on the draft document through BIS Standards Portal.

**Further,** as decided during the 17th meeting, **Mr. Ajith Kumar** from ITC LST, R&D Centre, Bangalore, provided a draft of the foreword, making it specific to the test method. The draft foreword was received via email dated **13th November 2024** and is placed below for the committee’s review.

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**The Committee may REQUEST members to review the document and provide their comments on the draft document through BIS Standards Portal.**

**The committee may DISCUSS and DEICIDE**

# Thrust Areas

Noting that SNAP 2022-2027 identifies the following subject areas in the field of ‘Sustainable Packaging’ for development of relevant Indian Standards with priority category ‘Medium’, the committee decided as given below:

1. **Safe, Secure and Sustainable Paper Packaging**
2. **Life Cycle Assessment of Packaging materials**

## Safe, Secure and Sustainable Paper Packaging:

In the 14th meeting, the committee constituted an expert panel as given below:

**Scope:**

*To examine the international best practices and provide insight as to what should be the approach to address “Safe, Secure and Sustainable Paper Packaging’*

**Duration:** 3 months

**Composition:**

1. Shri P N Sridharr, M/s ITC Ltd — **(Convenor)**
2. Shri Ajay Rajvansi, M/s Nestle India Ltd,
3. Shri B Dash, IPMA
4. Dr B P Thapliyal, Secretary General, IARPMA
5. Dr Kirtiraj Gaikawad, IIT Roorkee
6. Shri K P Singh, FCBM

Noting that no progress was made on the subject by the panel, in the 15th meeting, the Committee decided to organize a half-day workshop in conjunction with 17th meeting of CHD 16 on the subject “*Paper based packaging materials as an alternative to plastics*” to deliberate and determine the approach for developing standards related to “Safe, Secure and Sustainable Paper Packaging”.

Shri Rajendra Taapadia from M/s Safepack Industries Limited expressed interest in sharing their experience and expertise on the subject.

During the 16th meeting, the Panel informed that the first meeting was planned to be held in the first week of June 2024 in virtual mode.

During the half-day workshop planned prior to 17th meeting of CHD 16, the committee may discuss innovations and practices in the Industry for safe, secure, and sustainable paper packaging, and the panel will also be requested to share progress updates.

During the 17th meeting, reviewed the status of work on ‘Safe Secure and sustainable paper packaging’ After deliberation, the committee decided to extend the tenure of the Panel (now Working Group) for further period of 3 months w.e.f. 06th Sept 2024. The committee requested the Working Group to provide its recommendations, at the earliest.

Based on the interest expressed, the committee decided to co-opt Shri Sharad Sharma from M/s Tetra Pak on the Working Group. The modified ToRs of the Working Group are given below:

**Scope:**

*To examine the international best practices and provide insight as to what should be the approach to address “Safe, Secure and Sustainable Paper Packaging’*

**Duration:** 3 months **w.e.f. from 06th Sept 2024**

**Composition:**

1. Shri P N Sridharr, M/s ITC Ltd — **(Convenor)**
2. Shri Ajay Rajvansi, M/s Nestle India Ltd,
3. Shri B Dash, IPMA
4. Dr B P Thapliyal, Secretary General, IARPMA
5. Dr Kirtiraj Gaikawad, IIT Roorkee
6. Shri K P Singh, FCBM
7. Shri Sharad Sharma, M/s Tetra Pak

**The Working Group may share updates on the subject.**

## Life Cycle Assessment of Packaging materials

In 14th meeting, Shri P N Sridharr from ITC was requested to enquire with Confederation of Indian Industry (CII) regarding India specific data on the life cycle assessment of paper packaging materials.

In 15th meeting, members underscored the importance of comprehensively understanding the components and phases of life cycle assessment (LCA) to develop sector specific LCA criteria; and decided to organize a half-day workshop in conjunction with 16th meeting of CHD 16 to appraise members about the relevant ISO Standards.

Noting that ISO TC 207 “Environmental management” has a dedicated subcommittee on the subject i.e. ISO TC 207/SC 5 ‘Life Cycle Assessment’ which has formulated pertinent standards outlining the principles and framework for LCA, in consultation with the member secretary CHD 34, a presentation was arranged on the current standardization work at national and international levels on the subject.

Dr Anjali Taneja, Senior Policy Specialist and Group Head (Sustainability), Climate, Environment and Sustainability Sector, Center for Study of Science, Technology & Policy (CSTEP) made a presentation covering ISO framework and standards, examples of application of LCA, LCA in paper-based packaging industry, etc. She highlighted that CHD 34 is developing sector specific guideline standards including those for paper-based packaging materials. She offered their services for developing relevant standards by CHD 16.

Following a suggestion from the Chairperson that CHD 16 should await the outcome of the discussions on the sector specific guideline standards by CHD 34, the committee decided that further actions would be initiated only after receiving an update from CHD 34 on the matter.

Further updates from CHD 34 are awaited.

During the 17th meeting the committee considered the status of work on **‘Life Cycle Assessment of Packaging Materials’**. Shri Sharad Sharma mentioned that M/s Tetra Pak carries out life cycle assessment of the paper-based multilayer laminated composite cartons and similar products and volunteered to share this information with the committee.

Considering the above, the committee requested **Shri Sharad Sharma** from M/s Tetra Pak to make a presentation in the next meeting of CHD 16 sharing their understanding and experiences regarding the life cycle assessment of paper-based multilayer laminated composite cartons and similar products. The presentation may also include challenges and international best practices in the area.

The Committee may **NOTE.**

# COMMENTS ON PUBLISHED STANDARDS

## Comment on IS 17753: 2021 ‘Amendment to IS 17753: 2021 Paperbased Multilayer Laminated/Extruded Composite Cartons (Aseptic and Non-Aseptic) for Processed Liquid Food Products and Beverages — Specification’

BIS Ahmedabad Branch Office has received an application for grant of licence as per IS 17753:2021 and inquired the following:

1. Clause **4.1.1** – Whether declaration for OBA, anthraquinone and virgin material will be sufficient from the manufacturer or testing will be required.
2. Clause **4.1.2** – Whether conformity to LDPE may be assessed as per IS 7328?
3. Clause **4.1.4, 4.1.5, 4.2** and **4.3** – applicability of these clause for composite sheet manufacturers?
4. Applicability of Clause **5.2.1, 5.2.2, 5.2.3, 5.2.6** and **5.2.7** to composite sheets.
5. Test method for detecting antimony as per **A-4** of IS 5158 in table 2 is for phthalic acid detection

**The committee may DISCUS and DECIDE.**

## Comment on IS 16983:2024 “Solid Bleached Sulphate Board — Specification *(First Revision)”* and IS 16983:2024 “Coated Folding Box Board for General Consumer Product Packaging — Specification *(First Revision)*

We have received the following comments regarding **IS 16983:2024 (SBS Board)** and **IS 16984:2024 (FBB Board)**:

1. **Emami Paper Mills Limited**:  
   Feedback submitted via email dated 26th September 2024.



1. **IPMA**:  
   Comments received via email dated 25th September 2024.



1. **JK Paper**:  
   Comments provided on 26th September 2024, regarding amendments to **IS 16983:2024** and **IS 16984:2024**.

 

Additionally, clarifications have been requested concerning the **AIF applications A-63001842** and **A-63001836** submitted by M/s ITC Limited - PSPD, Divisional HQ, in compliance with the aforementioned standards



A clarification on Specific Requirements for items in contact with food Cl. 5.10 **of IS 16984: 2024**, has also been requested.



All the received comments and requested clarifications have been compiled and given below:

***Comment on IS 16983:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement’s given in Standard** | ***PROPOSED REQUIRED CHANGES by Emami Paper Mills Limited*** | ***PROPOSED REQUIRED CHANGES by IPMA*** | ***PROPOSED REQUIRED CHANGES by JK Paper*** | ***PROPOSED REQUIRED CHANGES by BIS*** |
| **Bulk Value:**  **Bulk, cc/g - 1.15 to 1.25**  **Refer to IS 1060 (Part 5/Sec 3)** | (Please refer Table 1):  The Bulk value as discussed and proposed was 1.10 cc/ gm minimum whereas the table shows thebulk requirement of 1.15 ?1.25 cc/g. This also contradicting to the requirement of caliper? 270 to 750 microns against specified gsm 200? 450. (Please refer clause 5.3 caliper and 5.4 grammage). The bulk range shows 1.35 to 1.66 cc/g.  The bulk may be revised to 1.15 cc/g minimum; as higher bulk is considered better for the product. | The Bulk value as discussed was 1.15 cc/gms minimum but the table shows 1.15 – 1.25 cc/gms. This also contradicting to the requirement of caliper – 270 to 750 micons against specified gsm 200 – 450 (Pl refer clause 5.3 caliper and 5.4 grammage). The bulk range shows 1.35 to 1.66 cc/gms. As per customer demand higher bulk is always preferred and all Indian manufacturers maintain the bulk as higher as possible without compromising other properties. (Sample specifications of prime grades attached for reference).  The bulk value may be marked as 1.15 cc/gm min or range may be revised from 1.15 - 1.75 cc/gms, as higher bulk is considered better for the product. | Value mentioned in the table-1 as a requirement of 1.15 to 1.25 cc/g  This is contradicting as mentioned in point no 5.3 (Thickness) & 5.4 (Grammage). As per this bulk will be 1.35 to 1.66 cc/g.  In this grade many mill manufacture with wide range of bulk as per the customer requirement. Hence, we propose to increase range of bulk from 1.15 to 1.70 cc/g or mention as 1.15 minimum. |  |
| **Wax Pick:**  **Wax Pick number – No Pick at 14 A**  **Refer to IS 1060 (Part 3)** | (Please refer Table 3):  The wax pick requirement is 14 A cannot be achieved for coated side. The uncoated side wax pick can be12A. Thus the table should be modified Wax pick 12A minimum for uncoated side. | The wax pick requirement is irrelevant for coated grades and the value 14A cannot be achieved for coated side. The uncoated side wax pick can be 12A. Thus the table should be modified Wax pick 12A minimum for uncoated side wherever applicable (GC2 grades). | The wax pick requirement is 14 A as per table -3.  As we understand, wax pick number is not tested for any coated board and the value cannot be achieved. Value may be revised to 12A minimum and can be kept as optional for uncoated side as applicable. |  |
| **4 Construction**  The construction of solid bleached sulphate board shall comprise of following layers:  a) Top coating — The coating grammage (combined pre-coat and post-coat) shall be  (20 ± 6) gsm;  b) Top layer — It shall be from virgin chemical pulp;  c) Fillers — It may be from 60 percent virgin  chemical pulp and 40 percent specialized customized pulp or as suitable for board  application;  d) Back layer — It shall be from virgin chemical pulp; and  e) Bottom coating — It may be of 6 gsm to 10 gsm, but it is optional based on customer requirements. | (Please refer clause 4):  Top coating grammage combined pre coat and post coat shall be (20 ± 6) gsm. With advanced technology the coat weight maintained higher side in some grades for better surface properties and printability to be revised as? Top coating grammage combined pre coat and post coat shall be (20 ± 6) gsm and can be higher based on Customer requirement? | Top coating grammage combined pre coat and post coat shall be (20 ± 6) gsm. With advanced technology the coat weight maintained higher side in some grades for better surface properties and printability.  The top coating may be revised to 24 ± 6 gsm. | In point No-4 a part it was mentioned that Top coating — The coating grammage (combined pre-coat and post-coat) shall be (20 ± 6) gsm.  In modern technology machines which are configured with three coaters on top side are doing higher coat weight to achieve required PPS value which results better surface property and printability. Hence, we propose a total top coating grammage should be 25 ± 6 gsm.      On behalf of JK paper we have reviewed the revised standards of FBB Board (IS16984-2024) published recently by BIS. On few points we want focus and request to change. |  |
| **Brightness:**  **Brightness, Indoor C/2o**  **, percent, Min — 88**  **Refer to IS 1060 (Part 4/Sec 13)** | (Please refer Table 1):  Brightness specification of SBS is 88% minimum needs to be corrected for SBS board without OBA usage? for Food Grade applications. |  |  |  |
| **5.6** **Print Resistance and Ink Adhesion of Printed Cartons**  The material shall pass for the print resistance and ink adhesion when tested in accordance with the Annex B and Annex C of this standard. |  |  |  | Is Cl 5.6 (Print Resistance and Ink Adhesion of printed cartons) applicable to all boards manufactured as per IS 16983 and IS 16984? |
| **5.10 Specific Requirements for Items in Contact with Food**  The paper and paper boards packaging materials shall be manufactured from the following raw materials: |  |  |  | Is Cl 5.10 (Specific Requirements for items in contact with food) applicable only to boards intended for packaging food items? |
| **5.10.1** In case of direct food contact usage, the paper board shall confirm to IS 16983 or IS 1776 or IS 12999 except for the requirement of grammage. In addition, the paper board shall be OBA (Optical brightening agent) free, and anthraquinone shall not be used in pulp which is used for making paper board. The paper board shall be of virgin material. |  |  |  | Ensuring Evidence of conformity that the paper board is OBA free as stipulated in cl 5.10.1 may please be clarified. |
| **Table 2 Limits of Contaminants in Paper** |  |  |  | The limits specified in Table 2 of the IS are min requirements or max requirements? |

***Comment on IS 16984:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement’s given in Standard** | ***PROPOSED REQUIRED CHANGES by Emami Paper Mills Limited*** | ***PROPOSED REQUIRED CHANGES by IPMA*** | ***PROPOSED REQUIRED CHANGES by JK Paper*** | ***PROPOSED REQUIRED CHANGES by BIS*** |
| **Bulk:**  **Bulk, cc/g — 1.5 to 1.6**  **Refer to IS 1060 (Part 5/Sec 3)** | (Please refer Table 1)  The Bulk value as discussed and proposed was 1.45 cc/g minimum whereas the table shows the bulk requirement of 1.50? 1.60 cc/g. This also contradicting to the requirement of caliper? 300 to 750 microns against specified gsm 200? 450 (Please refer clause 5.3 caliper and 5.4 grammage). The bulk range shows 1.50 to 1.66 cc/g.  The bulk may be revised to 1.50 cc/g minimum as higher bulk is considered better for the product. | The Bulk value as the table shows of 1.50 – 1.60 cc/gms.. This also contradicting to the requirement of caliper – 300 to 750 micons against specified gsm 200 – 450 (Pl refer clause 5.3 caliper & 5.4 grammage ). The bulk range shows 1.50 to 1.66 cc/gms.  Customers normally requires higher bulk but for some applications lower bulk is also preferred and acceptable. (Sample specifications of prime grades attached for reference). The bulk may be revised to **1.45 to 1.75** cc/gms as per product requirement and wide range of applications. | Value mentioned in the table-1 as a requirement of 1.5 to 1.6 cc/g  This is contradicting as mentioned in point no 5.3 (Thickness) & 5.4 (Grammage). As per this bulk will be 1.5 to 1.66 cc/g. In this grade in lower gsm it is difficult to maintain bulk of 1.5 cc/g . Higher bulk is always preferred by customers as per product application. Hence, we propose a range of bulk from 1.45 to 1.75 cc/g. |  |
| **Wax pick:**  **Wax Pick number — No Pick at 14 A**  **Refer to IS 1060 (Part 3)** | (Please refer Table 3)  The wax pick requirement is 14 A cannot be achieved for coated side. The uncoated side wax pick can be12A. Thus the table should be modified Wax pick 12A minimum for uncoated side. | The wax pick requirement is 14 A cannot be achieved for coated side. The uncoated side wax pick can be 12A. Thus the table should be modified Wax pick 12A minimum for uncoated side. | The wax pick requirement is 14 A as per table -3.  As we understand, wax pick number is not tested for any coated board and the value cannot be achieved. Value may be revised to 12A minimum and can be kept as optional for uncoated side as applicable. |  |
| **4 Construcation**  **The construction of folding box board for general**  **consumer product packaging shall comprise of**  **following layers:**  **a) Top coating — The coating grammage (combined pre-coat and post-coat) shall be (20 ± 6) gsm;**  **b) Top layer — It shall be from virgin chemical pulp;**  **c) Middle layer — It shall be from BCTMP (bleached chemical thermo mechanical pulp) and virgin pulp;**  **d) Back layer — It shall be from virgin chemical pulp; and**  **e) Bottom coating — It shall be of 6 gsm to 8 gsm, but it is optional based on customer**  **requirements.** | (Please refer cl 4)  Top coating grammage combined pre coat and post coat shall be (20 ± 6) gsm. With advancedtechnology the coat weight maintained on higher side in some grades for better surface properties andprintability, to be revised as? Top coating grammage combined pre coat and post coat shall be (20 ± 6)gsm and can be higher based on Customer requirement? | Top coating grammage combined pre coat and post coat shall be (20 ± 6) gsm. With advanced technology the coat weight maintained higher side in some grades for better surface properties and printability.  The top coating may be revised to (**24 ± 6)** gsm. | In point No-4 a part it was mentioned that Top coating — The coating grammage (combined pre-coat and post-coat) shall be (20 ± 6) gsm.  In modern technology machines which are configured with three coaters on top side are doing higher coat weight to achieve required PPS value which results better surface property and printability. Hence, we propose a total top coating grammage should be 25 ± 6 gsm. |  |
| **Brightness:**  **Brightness, indoor C/2°, percent,**  **Min — 85**  **Refer to IS 1060 (Part 4/Sec 13)** | (Please refer Table 1)  Brightness specification of FBB is 85% minimum needs to be corrected for FBB board without OBA usage? for Food Grade applications. |  |  |  |
| **Table 3**  **Burst Factor, *Min —* 20**  **Refer to IS 1060 (Part 7/Sec 1)** |  |  | The burst factor requirement is 20 min as per table -3. We propose it should be min 18. |  |
| **5.6 Print Resistance and Ink Adhesion of Printed Cartons**  The material shall pass for the print resistance and ink adhesion when tested in accordance with the Annex B and Annex C of this standard |  |  |  | Is Cl 5.6 (Print Resistance and Ink Adhesion of printed cartons) applicable to all boards manufactured as per IS 16983 and IS 16984? |
| **5.10 Specific Requirements for Items in Contact with Food**  The paper and paper boards packaging materials shall be manufactured from the following raw materials: |  |  |  | Is Cl 5.10 (Specific Requirements for items in contact with food) applicable only to boards intended for packaging food items? |
| **5.10.1** In case of direct food contact usage, the paper board shall confirm to IS 16983 or IS 1776 or IS 12999 except for the requirement of grammage. In addition, the paper board shall be OBA (optical brightening agent) free, and anthraquinone shall not be used in pulp which is used for making paper board. The paper board shall be of virgin material. |  |  |  | Ensuring Evidence of conformity that the paper board is OBA free as stipulated in cl 5.10.1 may please be clarified. |
| **Table 2 Limits of Contaminants in Paper** |  |  |  | The limits specified in Table 2 of the IS are min requirements or max requirements? |
| **5.10 Specific Requirements for Items in Contact with Food**  The paper and paper boards packaging materials shall be manufactured from the following raw materials:  **5.10.1** In case of direct food contact usage, the paper board shall confirm to IS 16983 or IS 1776 or IS 12999 except for the requirement of grammage. In addition, the paper board shall be OBA (optical brightening agent) free, and anthraquinone shall not be used in pulp which is used for making paper board. The paper board shall be of virgin material. |  |  |  | IS 16984: 2024 for the product COATED FOLDING BOX BOARD INTENDED FOR GENERAL CONSUMER PRODUCT PACKAGING. CHD is requested to kindly provide clarification on whether Clause 5.10 is obligatory for all paper and paperboard packaging materials as stipulated in IS 16984: 2024, particularly when considered alongside Clause 4 (Construction) of the same standard. |

# REVIEW OF INDIAN STANDARDS

## Review and reaffirmation

### In accordance with the BIS Rules, all established Indian Standards are to be reviewed periodically, at least once in five years from publication / last reaffirmation, to assess their continued suitability and determine whether they need to be reaffirmed, amended, revised or withdrawn.

### The committee may **NOTE.**

### As per BIS guidelines the review of each and every existing Indian standard shall follow the Action Research based approach. This implies that preparation of a Review Document to be put up to the committee for consideration must be preceded by the following activities:

1. Study and analysis of relevant international standards.
2. Literature survey on the subject.
3. Study of changes in the technologies, manufacturing processes or test methods.

The Action Research for the review of standards can be assigned to the members of the Sectional Committee, sub-committee or working panel, academic or research, institution, industry association, a specific industry or ministry and an organization, there under. The Sectional Committee shall decide the individuals or organizations to be assigned Action Research projects.

After proper review of standard as indicated above, if member/panel/member secretary whom the standard has been allocated felt that revision is required in the standard, the draft for revision of standard shall be submitted within given timeline. Any secretarial assistance, if required by the member shall be provided by BIS Secretariat.

**The Committee may NOTE.**

### Status of the Indian Standards relating to CHD 16 that were or are due for review and not reported anywhere else are given below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **IS No** | **Title** | **Review due date** | **Decision taken in the last meeting** |
|  | IS 7186 : 1973 | Glossary of terms relating to paper and flexible packaging | Feb 2023 | During 13th meeting, the committee requested member concerned to expedite the review and provide his recommendations latest by 30 June 2023.  During 14th meeting, considering that inputs were still awaited, the committee decided to take up this subject as an R&D Project and advised BIS Secretariat to prepare draft ToRs for the project.  During the 16th meeting, the committee decided to allocate review of the standard to CHD 16: WG 1 (established in the meeting).  During the 17th meeting, the committee reviewed the current status and requested CHD 16 : WG 1 to complete the review and provide recommendations in next 15 days.  Recommendations are still awaited. |
|  | IS 8970 : 1991 | Aluminium foil laminate for packaging - Specification (First Revision) | Oct, 2024 | Shri Tapan k Chand from M/s B&A Packaging suggested the following modifications in the standard:   1. Para 4.2 to be considered as Para 4.2.1 2. Para 4.2.2 Extrusion Coating.   Foil is laminated with Paper by Extrusion Coating with Extrusion Coating Grade LDPE with 15 to 20 micron thickness.  In adhesive Lamination there is a chance of bacteria formation but in Extrusion Coating there is no chance.  During 15th meeting, the committee decided to reaffirm and revise the standard by incorporating the changes suggested by Shri Tapan and to drop the document from the list of standards identified for R&D projects.  Accordingly, the standard was reaffirmed.  During 16th meeting, BIS Secretariat presented the draft document prepared for issuance into WC:    The committee reviewed the draft document and requested Mr Tushar Bandyopadhyay – IIP to provide his recommendation in next 15 days.  During the 17th meeting, the committee considered the current status and requested Shri Tushar Bandyopadhyay – IIP to provide his recommendations in next 15 days.  Thereafter, the document shall be issued into WC for 2 months under priority II (after incorporating comments of Shri Tushar, if received otherwise, the document prepared by BIS Secretariat).  Recommendations from IIP are still awaited. |
|  | IS 16985 : 2018 | Duplex board/coated duplex board - Specification | June, 2023 | During 13th meeting, Shri P. N. Sridharr was requested to complete the review latest by June 2023.  During 15th meeting, the committee decided to reaffirm and archive the document until review is not completed.  During 17th meeting, BIS Secretariat shared the following comments received from Shri P N Sridharr:    During the 17th meeting, the committee reviewed the comments and decided that ITC will provide a clean copy of the document incorporating the modifications agreed to in the meeting w.r.t. foreword, taber stiffness parameters and test methods, parameters for Surface pH, internal bond delamination, SOAT, etc.  Thereafter, BIS Secretariat will issue the document into Wide Circulation for 2 months under priority II upon receipt of the clean copy from ITC.  A clean copy of the document is still awaited from ITC. |
|  | IS 9042 : 1978 | Method of measurement and expression of the dimensions of paper sacks | Sept, 2023 | Before 15th meeting, Shri Tapan K Mohanty completed the review of the standards and recommended the following modifications:   1. 7.2.3 may be modified as 7.2.3.1 and 7.2.3.2 2. 7.2.4 may be modified as 7.2.4.1 and 7.2.4.2     During the meeting, the committee reviewed the comments and decided to revise the standard incorporating these changes.  During 16th meeting, BIS Secretariat presented the following draft document for issuance into WC:    The committee reviewed the document and requested Prof (Dr.) Kirtiraj Gaikwad from IIT, Roorkee to offer his comments/ inputs.  Further, the committee approved the draft document for issuance into WC for 2 months under priority II after incorporating comments/ inputs from Prof (Dr.) Kirtiraj.  Recommendations were still pending.  During the 17th meeting, the committee reviewed the current status and after deliberation decided:   * a reminder to be sent to Prof (Dr.) Kirtiraj, IIT Roorkee for expediting his recommendations latest by 25th Sept 2024 * IIP, Delhi Centre will also examine and provide comments/ inputs on the document latest by 25th Sept 2024.   to issue the document into Wide Circulation for 2 months under priority II after incorporating comments/ comments from IIP and IIT.  Recommendations from IIP and IIT are still awaited. |
|  | IS 1398 : 1982 | Specification for packing paper water proof, Bitumen-Laminated | Mar, 2024 | During 13th meeting, the committee allocated these standards to **Shri Mukesh Gupta, FPCA** for review.  During 15th meeting, the committee decided to reaffirm and archive these documents until review is not completed.  In 16th meeting, BIS Secretariat informed that standards had been reaffirmed and achieved.  During the 17th meeting, the committee reviewed the current status and requested **Shri Mukesh Gupta, FPCA** to complete the review **latest by 30th September 2024.**  Recommendations from Shri Mukesh Gupta are still awaited. |
|  | IS 3263 : 1981 | Specification for waxed paper for confectionery (First Revision) | Mar, 2024 |
|  | IS 3962 : 1967 | Specification for waxed paper for general packaging | Mar, 2024 | In 13th meeting, the committee allocated these standards to **Shri B. Dash, IPMA** for review.  During 15th meeting, the committee decided to reaffirm and archive these documents until review is not completed.  In 16th meeting, BIS Secretariat informed that standards had been reaffirmed and achieved.  During the 17th meeting, the committee reviewed the current status and requested **Shri B. Dash, IPMA** to complete the review **latest by 30th September 2024.**  Recommendations from **Shri B. Dash, IPMA** are still awaited. |
|  | IS 5134 : 1977 | Specification for bitumen impregnated paper (First Revision) | Mar, 2024 |
|  | IS 6715 : 1972 | Specification for master cartons for export of frozen sea foods and frog legs | Oct, 2024 | During 15th meeting, noting that specialized export promotion councils are providing necessary assistance to exporters and that exporters need to comply with requirements specified by the importing country, the committee decided to drop the document from the list of standards identified for R&D projects.  Further, the committee decided to reaffirm and archive these standards until comments/ inputs are received on the standard.  These standards will be reaffirmed and archived as and when these become due for review.  During the 17th meeting, the Chairperson mentioned that IIP will review these standards and provide comments latest by 31st October 2024.  Recommendations from **IIP** are still awaited. |
|  | IS 7149 : 1973 | Specification for fibreboard boxes for canned sea foods for export | Oct, 2024 |
|  | IS 9313 : 1979 | Specification for corrugated fibreboard boxes for the export packaging of glass jars and bottles filled with processed foods | Oct, 2024 |
|  | IS 10528 : 1983 | Method of sampling empty paper sacks for testing | Oct, 2024 | Based on the comments provided by Shri Tapan K Chand from B&A packaging that no change is required in the standard, during 15th meeting, the committee decided to reaffirm and revise the standard by incorporating format and style changes.  During 16th meeting, BIS Secretariat informed that the standard was formulated drawing reference from IS 2500 (Part 2): 1965 and the relevant IS 2500 (Part 2): 1965 has since been replaced by IS/ISO 3951-1:2022.  It is therefore required to study the latest IS/ ISO 3951-1 for revising the existing IS 10528.  The committee considered the comments and allocated the standard to IIP, Delhi for review and recommendations latest by 31st July 2024.  During the 17th meeting, the committee reviewed the current status and requested Mr. Tushar Bandyopadhyay – IIP to provide his recommendations latest by 30th Sept 2024.  Meanwhile the standard will be reaffirmed and archived.  Recommendations from IIP are still awaited. |
|  | IS 1397 : 2020 | Kraft Paper for Packing and Wrapping — Specification ( Third Revision ) | Mar, 2025 | ***During the 15th meeting,*** the committee allocated the standard to Mr Mukesh Gupta from FPCI for review and recommendation latest by July 2024.  During the 17th meeting, the committee reviewed the current status and requested **Shri Mukesh Gupta, FPCA** to complete the review **latest by 31st December 2024.**  Recommendations from **Shri Mukesh Gupta, FPCA** are still awaited. |

**The Committee may DISCUSS and DECIDE.**

### **Subjects identified for R&D Projects**

#### During 15th meeting, the committee approved ToRs for taking up R&D projects for gathering data for revision of the following standards:

1. Study on method of test for testing compression strength of composite cans, tubes and cores **[for Revision of IS 13975:1994 and IS 13976:1994]**
2. Study on performance characteristics of paper-based materials for primary packaging of ice cream (waxed cartons and cups & lids) [**for revision of IS 7162:1973 and IS 10177:1982]**
3. Study on performance characteristics of paper-based packaging materials for butter (vegetable parchment or greaseproof paper/ aluminium foils laminate for wrapping, primary cartons and corrugated fibreboard for transport packaging of butter packed in primary cartons) **[for revision of IS 7161:1973, IS 8113:1976 and IS 12212:1987]**
4. Study on performance characteristics of cartons for non-soapy detergents **[for revision of IS 9493:1980]**
5. Study on performance characteristics of corrugated fibreboard boxes for packing cigarettes **[for revision of IS 10066:1981]**
6. Study on performance characteristics of fibreboard boxes for packing of soaps [**for revision of IS 10176:1982]**
7. Study on performance characteristics of composite container for dry products **[for revision of IS 11357:1985]**
8. Study on performance characteristics of corrugated fibreboard boxes for transport packaging of apples **[for revision of IS 11844:1987]**
9. Study on performance characteristics of glassine paper **[for revision of IS 12490:1988]**
10. Study on performance characteristics of laminated paper board pack for vanaspati [**for revision of IS 14319:1995]**
11. Study on performance characteristics of corrugated fibreboard boxes for para-dropping of supplies **[for revision of IS 7151:1991]**
12. Study on performance characteristics of fibreboard drums for general purposes [**for revision of IS 7601:1975]**
13. Study On Performance Characteristics of Coated Folding Box Board **[for revision of IS 12999:1990]**

#### ToRs for the following R&D project approved in 16th meeting have also been shared with the department concerned in BIS for seeking applications from interested parties.

1. Study on performance characteristics of solid fibreboard boxes **[for revision of IS 2771 (Part 2):1975]**

#### During the 17th meeting the committee took note of the Revised Guidelines issued by BIS for R&D Projects, as given below:



The committee may **NOTE** the Guidelines**.**

# INTERNATIONAL ACTIVITIES

## General

International Organization for Standardization (ISO) formulates consensus-bases voluntary international standards with a view to facilitate cross border trade of goods and services. BIS being the national standards body represents India in the ISO. In accordance with the ISO procedures, a member can decide to be either a ‘Participating Member’ (P) or an ‘Observer Member’ (O). While both ‘P’ and ‘O’ members have access to all documents that are under development or already developed and can raise concerns on any of these documents, a ‘P’ Member has an obligation to vote on all the documents relating to New Proposals for formulation of International Standards, Committee Drafts, Draft International Standards, Finalized Draft International Standards and Systematic Review of International Standards, representing their national position.

The Committee may **NOTE** the information.

## India has opted to be a ‘P’ member on ISO/TC 6 *‘Paper, Board and Pulps’* & ISO/TC 6/SC 2 ‘*Test methods and quality specifications for paper and board’.* Both Paper and its products Sectional Committee, CHD 15 and Paper based Packaging Materials Sectional Committee, CHD 16 are also acting as the National Mirror Committee to ISO/ TC 6 and its subcommittees.

## The Committee may NOTE the information.

## India, as ‘P’ member of ISO/TC 6, receives all documents that are being discussed in the concerned ISO committee and it is obligatory on part of India to cast ballot on all such documents. The votes can be cast with or without comments within the stipulated time. As per the present practice, the documents are circulated to all members of CHD 15 and CHD 16 for their perusal and comments with a request to examine and provide their comments/ inputs on the documents keeping view of Indian stakes. It is expected that the documents received from the ISO are appropriately examined by all stake-holders to voice concerns of Indian stakeholders at the international for a. It is also expected that comments from members are received within stipulated time period to facilitate compilation and preparing viewpoints so that balloting be done by the due date.

## The Committee may NOTE the information.

## Ballots at ISO/TC 6 and ISO/TC 6/SC 2.

The status of the ballots launched under **ISO/TC 6** and **ISO/TC 6/SC 2** since the last meeting of CHD 16 is given below:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl. No** | **Type** | **Committee / Working Group** | **Reference** | **End date** | **Status &**  **Vote** | **Remarks** |
|  | DIS | ISO/TC 6/SC 2 | **ISO/DIS 16260 (Ed 2)**  Paper and board — Determination of internal bond strength | 2024-11-28 | Closed & Approved  Identified Mr. Subodh K Juikar from IIP, delhi and Prof. (Dr.) Kirtiraj from IIT Roorkee as Indian experts | The committee may endorse the Indian position on the ballot. |
|  | SR | ISO/TC 6 | ISO 11093-6:2005 (Ed 2, vers 4)  *Paper and board — Testing of cores — Part 6: Determination of bending strength by the three-point method* | 2024-12-02 | Closed & Abstain |
|  | SR | ISO/TC 6/SC 2 | ISO 16945:2014 (vers 2)  Corrugating medium — Determination of the edge crush resistance after laboratory fluting | 2024-12-02 | Closed & Abstain |
|  | SR | ISO/TC 6 | ISO 217:2013 (Ed 4, vers 2)  Paper — Untrimmed sizes — Designation and tolerances for primary and supplementary ranges, and indication of machine direction | 2025-03-04 | Open | The committee requested members to examine the documents and provide comments/ inputs. |
|  | CIB | ISO/TC 6/SC 2 | **CIB 2024-09, Call for convenor WG 25**  **CIB 2024-09, Call for convenor ISO/TC 6/SC 2/WG 25 Surface roughness** | 2024-12-24 | Open |
|  | SR | ISO/TC 6/SC 2 | ISO 536:2019 (Ed 4)  Paper and board — Determination of grammage | 2025-03-04 | Open |
|  | SR | ISO/TC 6/SC 2 | ISO 2759:2014 (Ed 4, vers 2)  Board — Determination of bursting strength | 2025-03-04 | Open |
|  | CIB | ISO/TC 6/SC 2 | CIB Resolution 2024-10 Re-appointment of WG 27 convenor | 2024-12-26 | Open |

BIS Top Management has directed active participation and contribution in standard development at ISO from the initial stages. It has instructed to nominate 1-2 experts for of the documents at the NWIP, CD of DIS stage of ISO. These experts will be responsible for examining the allocated documents and sharing their comments with the committee.

To facilitate the identification of experts, ISO documents need to be categorised into HIGH interest, MEDIUM interest and NO interest categories. It will be mandatory to nominate experts for HIGH priority and MEDIUM priority subjects. If a subject is identified as ‘NO interest’, the committee must provide reasons for this categorization.

Additionally, it will be mandatory for committee members to provide their comment on ISO ballots through the Ballot Portal.

The Committee may **CONSIDER and ADVISE** on the ballots.

## Meetings of ISO/TC 6 and ISO/TC 6/SC 2.

During the 17th meeting, the committee considered the information presented at the 16th meeting of CHD 16 that the next meetings of **ISO TC 6,** its subcommittee and WGs are provisionally scheduled to be held during **26-29 November 2024** in Beijing (China) and decided to participate in the next meetings of ISO TC 6 and its groups.

The committee also requested members to express their interest for participation in ISO/TC 6 and SC 2 and panels, thereof latest by **25th Sept 2024.**

During the 18th meeting, the committee noted that in the recent meetings of CHD 15 and CHD 16, participation in the upcoming meetings of ISO/TC 6, along with its subcommittee and working groups, have been discussed. ISO TC 6, Subcommittee 2 and its Working Group meetings are scheduled to take place during 26 to 29 November 2024 in Beijing, China in Hybrid mode.

Recognizing that India’s participation in these meetings would provide an excellent opportunity to represent Indian perspectives on key issues, the committee decided that an Indian delegation should attend the meetings in virtual mode. It was further decided that the Indian delegation will be finalized nearer to the meeting.

During the 34th meeting of CHD 15 held on 23rd Oct 2024, the committee reviewed the detailed agenda and working documents received for the ISO/TC 6 meeting, as provided below:

  

And, the agenda received for the ISO TC 6/ SC 2 meeting, given below:



Additionally, the committee noted that the following WGs have also planned meetings in near future or along with ISO TC 6 plenary meetings:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **Reference** | **Title** | **Type** | **Meetings dates** |
|  | ISO/TC 6/CAG | Chair’s Advisory Group | WG | **25th Nov – 29th Nov 2024** |
|  | ISO/TC 6/TG 2 | Identification of Organizations - Environmental issues | WG |
|  | ISO/TC 6/WG 3 | Optical properties | WG |
|  | ISO/TC 6/WG 14 | Recycling | WG |
|  | ISO/TC 6/SC 2/WG 25 | Surface roughness | WG |
|  | ISO/TC 6/SC 2/WG 27 | Tissue test methods | WG |
|  | ISO/TC 6/SC 2/WG 30 | Tensile properties | WG |
|  | ISO/TC 6/SC 2/WG 39 | Joint ISOTC 6/SC 2 - ISO/TC 130 WG: Printability testing | WG |
|  | ISO/TC 6/SC 2/WG 45 | Corrugated fibreboard test methods | WG |
|  | ISO/TC 6/SC 2/WG 49 | Barrier properties | WG |
|  | ISO/TC 6/SC 2/WG 50 | Sampling | WG |

The committee also noted that the following members are registered on the above-mentioned groups of ISO TC 6:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Reference** | **Title** | **Type** | **Nominated experts** | **Email address** |
|  | ISO/TC 6 | Paper, board and pulps | TC | Shri B. Dass, IPMA | [biswaranjan.dash@jkmail.com](mailto:biswaranjan.dash@jkmail.com) |
|  | ISO/TC 6/CAG | Chair’s Advisory Group | WG | Dr Mahendra Patel, In Personal Capacity | [industrypaper@yahoo.co.uk](mailto:industrypaper@yahoo.co.uk) |
|  | ISO/TC 6/TG 2 | Identification of Organizations - Environmental issues | WG | Shri B P Thapliyal, IARPMA | [sg@iarpma.org](mailto:sg@iarpma.org) |
| Shri Vijay Kumar, INMA | [sg@inma.org.in](mailto:sg@inma.org.in) |
| Mr Mohammed Gouse, ITC |  |
|  | ISO/TC 6/WG 3 | Optical properties | WG | Shri B P Thapliyal, IARPMA | [sg@iarpma.org](mailto:sg@iarpma.org) |
| Dr. Sanjay Tyagi, CPPRI | [styagi.cppri@gmail.com](mailto:styagi.cppri@gmail.com) |
| *Mr. Sanjay Kumar Yadav* | [sanjay.ky@adityabirla.com](mailto:sanjay.ky@adityabirla.com) |
|  | ISO/TC 6/WG 14 | Recycling | WG | Shri Vijay Kumar | [sg@inma.org.in](mailto:sg@inma.org.in) |
| Dr R C Rastogi | [rcr0309@gmail.com](mailto:rcr0309@gmail.com) |
| Mr Mohammed Gouse, ITC |  |
| Mr Avinash Talwar, Dr. Reddy’s Lab |  |
| Mr K. P. Singh, FCBM |  |
|  | ISO/TC 6/SC 2 | Test methods and quality specifications for paper and board | Sub committee | Shri B. Dass, IPMA | [biswaranjan.dash@jkmail.com](mailto:biswaranjan.dash@jkmail.com) |
|  | ISO/TC 6/SC 2/WG 25 | Surface roughness | Working group | Dr. Sanjay Tyagi, CPPRI | [styagi.cppri@gmail.com](mailto:styagi.cppri@gmail.com) |
| Dr Alok K Goel, CPPRI | [akgoel\_cppri@rediffmail.com](mailto:akgoel_cppri@rediffmail.com) |
|  | ISO/TC 6/SC 2/WG 27 | Tissue test methods | WG | *Mr. Sanjay Kumar Yadav* | [sanjay.ky@adityabirla.com](mailto:sanjay.ky@adityabirla.com) |
|  | ISO/TC 6/SC 2/WG 30 | Tensile properties | WG | -------- | -------- |
|  | ISO/TC 6/SC 2/WG 39 | Joint ISOTC 6/SC 2 - ISO/TC 130 WG: Printability testing | WG | Dr. Sanjay Tyagi, CPPRI | [styagi.cppri@gmail.com](mailto:styagi.cppri@gmail.com) |
|  | ISO/TC 6/SC 2/WG 45 | Corrugated fibreboard test methods | WG | Dr. Sanjay Tyagi, CPPRI | [styagi.cppri@gmail.com](mailto:styagi.cppri@gmail.com) |
| Dr R C Rastogi | [rcr0309@gmail.com](mailto:rcr0309@gmail.com) |
|  | ISO/TC 6/SC 2/WG 49 | Barrier properties | WG | *Mr. Sanjay Kumar Yadav* | [sanjay.ky@adityabirla.com](mailto:sanjay.ky@adityabirla.com) |
|  | ISO/TC 6/SC 2/WG 50 | Sampling | WG | -------- | -------- |

Current status of various ISO standards that are either in development or would require revision, is given below:



Considering the above, during 34th meeting of CHD 15, the committee *finalized the following Indian delegation for participation in the ISO TC 6 and SC 2 meeting, scheduled to be held from 26th to 29th November 2024 in Beijing, China through virtual mode:*

1. *Dr Ashish Kumar, Director, CPPRI &* ***Chairperson CHD 15 (HoD)***
2. *Dr. Bipin Prakash Thapliyal, Indian Agro and Recycled Paper Mills Association, New Delhi*
3. *Mr. Sanjay Kumar Yadav, Century Pulp and Paper Mills, Nainital*
4. *Dr. F. Amjath Khan, Tamil Nadu Newsprint and Papers Limited, Chennai*
5. *Dr. Rajiv Jha, Consumer Voice, New Delhi*
6. *Mr. Virendra Singh,* ***Member Secretary CHD 16***

As CHD 16 is also liaising with ISO TC 6 and ISO TC 6/SC, the committee considered the agenda, Indian delegation nominated by CHD 15 and finalized the following additional Indian delegation for participation in the ISO TC 6 and ISO TC 6/SC plenary meeting:

1. *Prof (Dr.) Tanweer Alam,* ***Chairperson CHD 16***
2. *Mr. Mukesh Gupta, Federation of Paper Converters of India, New Delhi*
3. *Shri L.M. Gupta, Package Design Research and Test Lab, Lucknow*
4. *Dr. Anil Naithani, Indian Agro and Recycled Paper Mills Association, New Delhi*
5. *Mr. K P Singh, Federation of Corrugated Box Manufacturers of India, Mumbai*
6. *Shri P.N. Sridharr, ITC Limited, Paperboards and Specialty Papers Division, Bhadrachalam*
7. *Shri Mohammed Gouse, ITC Limited, Paperboards and Specialty Papers Division, Bhadrachalam*

It was further decided that hold a briefing meeting on 20 November to discuss the main key points regarding the upcoming ISO/TC 6 and ISO/TC 6/SC meetings.

During the briefing meeting, considering the agenda for ISO TC 6 plenary and related meetings, the delegation decided to revise the Indian delegations, as given below:



Approval of the committee was sought through email. Around 14 members provided their consent/ comment. Chairperson CHD 15 and CHD 16 approved the delegation through email.

A report on contribution by the Indian delegation will be presented During the meeting.

**The committee may DISCUSS and APPROVE the Indian delegation and the participation report.**

## Participation in ISO Committees/ WGs

CHD 16 has nominated the following experts on ISO TC 6, ISO TC 6/SC 2 and its working groups:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **Reference** | **Title** | **Type** | **Remarks** |
|  | ISO/TC 6 | Paper, board and pulps | TC | HCHD and Member Secretary are registered on the TC. |
|  | ISO/TC 6/CAG | Chair’s Advisory Group | WG | 1. Dr. B.P. Thapliyal, Indian Agro and Recycled Paper Mills Association, New Delhi 2. Mr. Virendra Singh, BIS, Member Secretary **CHD 15 & CHD 16** |
|  | ISO/TC 6/TG 1 | Cellulosic Nanomaterials | WG | Mr Mohammed Gouse, ITC |
|  | ISO/TC 6/TG 2 | Identification of Organizations - Environmental issues | WG | Mr Mohammed Gouse, ITC |
|  | ISO/TC 6/WG 3 | Optical properties | WG | Mr Sanjay Yadav, Century Pulp and Paper Mills |
|  | ISO/TC 6/WG 6 | Terminology | WG | — |
|  | ISO/TC 6/WG 7 | Cores for reels of paper | WG | — |
|  | ISO/TC 6/WG 14 | Recycling | WG | 1. Shri Ajay Rajwanshi, M/s Nestle India Ltd 2. Mr Mohammed Gouse, ITC 3. Mr Avinash Talwar, Dr. Reddy’s Lab (17th meeting) 4. Mr K. P. Singh, FCBM 5. Dr. R C Rastogi, Indian Recycled Paper Mills Association, New Delhi 6. Shri Vijay Kumar, Indian Newsprint Manufacturers Association, New Delhi |
|  | ISO/TC 6/WG 15 | Pulp Methods | WG | — |
|  | ISO/TC 6/WG 16 | Lignin Analyses | WG | Mr Mohammed Gouse, ITC |
|  | ISO/TC 6/SC 2 | Test methods and quality specifications for paper and board | SC | — |
|  | ISO/TC 6/SC 2/WG 25 | Surface roughness | WG | 1. Mr. Alok Goel (Convenor), CPPRI 2. Dr. Sanjay Tyagi, CPPRI |
|  | ISO/TC 6/SC 2/WG 27 | Tissue test methods | WG | 1. Mr Sanjay Yadav, Century Pulp and Paper Mills (17th meeting) 2. Dr. Anil Naithani, Indian Agro and Recycled Paper Mills Association, New Delhi |
|  | TC 6/ SC 2/WG 30 | Tensile properties | WG | 1. Dr. B.P. Thapliyal, Indian Agro and Recycled Paper Mills Association, New Delhi 2. Dr. Sanjay Tyagi, CPPRI 3. Dr. Saakshy, KNHPI |
|  | ISO/TC 6/SC 2/WG 39 | Joint ISOTC 6/SC 2 - ISO/TC 130 WG: Printability testing | WG | Shri Ajay Rajwanshi, M/s Nestle India Ltd |
|  | ISO/TC 6/SC 2/WG 45 | Corrugated fibreboard test methods | WG | — |
|  | ISO/TC 6/SC 2/WG 47 | Water absorptiveness of paper and board | WG | — |
|  | ISO/TC 6/SC 2/WG 48 | Bond strength | WG | — |
|  | TC 6/ SC 2/WG 49 | Barrier properties | WG | 1. Mr. Sanjay Kumar Yadav, Century Pulp and Paper Mills 2. Prof. Dharam Dutt, IIT, Roorkee 3. Prof. Tanweer Alam, IIP Delhi 4. Mr. Mohammad Gouse, ITC |
|  | TC 6/ SC 2/WG 50 | Sampling | WG | 1. Prof. Dharam Dutt, IIT, Roorkee 2. Dr. Sanjay Tyagi, CPPRI 3. Mr. Virendra Singh, BIS, Member Secretary **CHD 15 & CHD 16** |

It is pertinent mention here that active participation in the standardization activities at international level enables us to remain updated on the latest work at the international level as well as project Indian view points during development of Indian standards from the initial stages.

**The above-mentioned experts from CHD 16 have been registered on ISO Global Directory for the groups. Members may like to share information/ updates on the work of the Working Groups.**

**It may further be mentioned that it has been decided that Sectional Committee will identify their interest against each of the ISO NWIP, CD and DIS document; and nominated experts for high and medium level interest documents.**

**BIS Secretariat has prepared a list of ISO standards indicating their adoption status and indigenous Indian standards for identification of Indian experts for each of the subjects/ standards for effective review of the documents and contributions.**

* [**https://docs.google.com/spreadsheets/d/1ysYLeJTP5-6S4E6UcwdZEJSF6IjuKTyLDcepMl6On-o/edit?gid=0#gid=0**](https://docs.google.com/spreadsheets/d/1ysYLeJTP5-6S4E6UcwdZEJSF6IjuKTyLDcepMl6On-o/edit?gid=0#gid=0)

BIS is open to loop-in the Indian experts that are not part of the committee or Working Group/ Panels as of now.

Further, the Committee may **REVIEW** and **CONSIDER NOMINATING** suitable experts in these committees/ WGs to present Indian viewpoints.

# Implementation of Strategic Roadmap for the Committee

During the 17th meeting, the committee recalled that in the 15th meeting, the given Strategic Roadmap for CHD 16 for the term 2024-2028 was finalized and approved by the CHD 16:



The Strategic Roadmap identifies the following subjects for formulation of Indian Standards:

1. Thrust areas identified in the Standards National Action Plan (SNAP):
2. ***‘Safe, secure and sustainable paper packaging’***
3. ***‘Life cycle assessment of packaging materials’***
4. Subject Identified by the committee:
5. **Paper based primary and secondary bags/ carry bags’**
6. P-draft under discussion:
7. ***‘Paper based packaging materials for food packaging and food serving’***
8. *Other areas that may also be considered are:*
9. ***Bio-based materials for barrier coatings on paper packaging***
10. ***Recylable and compostable packaging***
11. ***Biodegradable films and laminates***
12. ***Pulp moulded packaging products***

Following this, the committee recalled the status of new subjects identified in the Strategic Roadmap document and that during 16th meeting, the following new panels were created to initiate work on the specified subjects:

1. **Panel on Bio-based materials for barrier coatings for paper packaging —** Co-opted Shri Sanjay Yadav, M/s Century Paper and Pulp in the 17th meeting of CHD 16

***Scope:*** *To provide recommendation for development of Indian Standards for Bio-based materials for barrier coatings for paper packaging*

***Revised Composition:***

* *Prof. Kirtiraj, IIT, Roorkee —* ***(Convenor)***
* *Dr B P Thapliyal, IARPMA*
* *Shri Mukesh Gupta, FPCI*
* *Shri Sridharr, ITC*
* *Shri Sanjay Yadav, M/s Century Paper and Pulp*

1. **Panel on Recyclable and compostable packaging —** Changed the convenor for the Panel (Dr Sanjay Tyagi is new convenor) in the 17th meeting of CHD 16

***Scope:*** *To provide recommendation for development of Indian Standards for Recyclable and compostable paper-based packaging materials*

***Composition:***

* *Dr Sanjay Tyagi, CPPRI**—* ***(Convenor)***
* *Shri Sridharr, ITC*
* *Shri K P Singh, FCBM*
* *Shri Lalit Mohan Gupta, Package design Research and Test Lab*

1. **Panel on Pulp moulded packaging products —**

During 16th meeting, the committee constituted a Working Group for providing draft documents for formulation of Indian Standards for pulp-moulded packaging materials.

The current scope, tenure and composition of the Working Group are given below:

***Scope:*** *To provide recommendation for development of Indian Standards for pulp-moulded packaging materials*

**Tenure – 6 months (Starting from**

***Revised Composition:***

* *Shri Sridharr, ITC —* ***(Convenor)***
* *Dr TanweerAlam*
* *Eco-sure Pulp-molding technologies Limited*
* *Parason Machinery*
* *Shri Sanjay Yadav, M/s Century Paper and Pulp*

The panels were requested to provide initial working draft before the next meeting to initiate the work on the above subjects.

With respect to the following subjects, kindly refer relevant items of the Minutes:

# The Working Groups will be requested to share updates.

# DRAFT STANDARDS/ AMENDMENTS FINALIZED IN THE LAST/ PREVIOUS MEETING FOR PUBLICATION

# The current status of the documents which were finalized for publication in last/ previous meeting and not reported elsewhere, is given below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No.** | **Document number** | **Title** | **Current Status** |
|  | CHD 16 (24838) F  Revision of IS 16984: 2018 | Coated Folding Box Board for General Consumer Product Packaging — Specification (First Revision) | Published in September, 2024 |
|  | CHD 16 (24490) F Amendment No. 2 of IS 17753 : 2021 | Paperbased Multilayer Laminated/ Extruded Composite Cartons (Aseptic and Non-Aseptic) for Processed Liquid Food Products and Beverages — Specification | Published in September, 2024 |
|  | CHD 16 (19789) F  Revision of IS 2991: 1988 | Base Paper for Waxed Paper — Specification (Second Revision) | Published in October, 2024 |
|  | CHD 16 (25851) F  Revision of IS 13012: 1990 | Sack Kraft Paper and Extensible Kraft Paper — Specification (First Revision) | Published in October, 2024 |
|  | CHD 16 (20021) F  Revision of IS 11324: 1985 | Multi-Wall Paper Sacks for Carbon Black — Specification (First Revision) | Published in October, 2024 |
|  | CHD 16 (20530) F  Revision of IS 4006 : Part 1: 1985 | Methods of Test for Paper and Pulp Based Packaging Materials: Part 1 Flexural Resistance and Deflection, Waterproofness, Water Penetration, Grease Resistance, Abrasion Loss, Blocking Resistance, Compression Resistance and Rigidity, Stiffness and Softness *(Second Revision)* | Ready for gazette |
|  | CHD 16 (20531) F  Revision of IS 4006 : Part 2: 1985 | Methods of Test for Paper and Pulp Based Packaging Materials; Part 2 Odour, Ply Separation, Puncture, and Reducible Sulphur *(Second Revision)* | Ready for gazette |
|  | CHD 16 (20532) F  Revision of IS 4006 : Part 3: 1985 | Methods of Test for Paper and Pulp Based Packaging Materials: Part 3 Arsenic, Total Copper, Total Iron, Water Soluble Copper and Water-Soluble Iron *(Second Revision)* | Ready for gazette |
|  | CHD 16 (24830) F Revision of IS 1776:1989 | Folding Box Board, Uncoated — Specification (Second Revision) | Ready for gazette |
|  | CHD 16 (21039) F  Revision of IS 6622:1972 | Greaseproof Paper — Specification  (First Revision) | Under Print |
|  | CHD 16 (21768) F Revision of IS 5012 : 1987 | Cellulose Film � Specification ( Second Revision ) | Ready for gazette |

# The committee may NOTE.

# TRANSFER OF STANDARDS FROM ‘TRANSPORT PACKAGES, PACKAGING CODES AND PALLETS SECTIONAL COMMITTEE’ TED 24 TO CHD 16

‘Transport Packages, Packaging Codes and Pallets Sectional Committee’ (TED 24) communicated in June 2024 regarding transfer of the following Indian standards to 'Paper-based Packaging Materials Sectional Committee’ (CHD 16):

|  |  |  |
| --- | --- | --- |
| Sl. No. | IS No. | Title |
| 1. | IS 10106 (Part 2/Sec 2):1983 | Packaging code: Part 2 packaging materials section 2 paper and paper board |
| 2. | IS 10106 (Part 4/Sec 2):1983 | Packaging code: Part 4 packages section 2 paper and paper-based packages |

It was also indicted by TED that Transport Engineering Division Council (TEDC) in its meeting held on 18 March 2024, considered recommendation from TED 24 and decided to transfer the above-mentioned Indian Standards to CHD 16.

Accordingly, a communication was sent to CHD 16 members on 7th June 2024 seeking their comments/ inputs on the acceptance of this transfer by the latest 25th June 2024. Upon receipt of the consent, the proposal was to put up for consideration and a decision by CHDC in its next meeting.

Inputs/ comments were received from only 5 members namely Shri Lalit Mohan Gupta, Shri Subodh Juikar, Shri Anil Naithani, Shri P C Ajith Kumar and Shri Avinash Talwar indicating their consent for the transfer of the Standards.

**The Committee may DISCUSS and DECIDE on transfer of standards.**

# ISO STANDARDS THAT MAY BE INTEREST TO THE COMMITTEE

During the recent meeting of ISO TC 6 and SC 2 plenaries, the liaison organizations/ committees presented status report of the various ISO Projects/ standards that may be of interest to ISO TC 6 or SC 2. The list of such ISO standards/ Projects is given below for ready reference to the committee.

**The Google Sheet link is placed below:**

<https://docs.google.com/spreadsheets/d/1mYnQS602sXNjgN1Gjjj2y3hsomMVfsWjQ4E84Spm7fE/edit?usp=sharing>

**The committee may DISCUSS and DECIDE on these ISO standards for possible adoption.**

# ANNUAL CALENDAR FOR TECHNICAL COMMITTEE MEETINGS

Annual calendar of meetings for the year **2024-25** as given below may kindly be considered and approved:

1. 20th *14th February 2025 IIT, Roorkee*

It is also proposed to have a workshop/ seminar along with the meeting. We may identify the

topic for the workshop/ seminar and possible speakers.

The Committee may **CONSIDER and DECIDE.**

# ANY OTHER BUSINESS

## GUIDELINES FOR PRESENTING ‘BIS COMMITTEES OF THE YEAR’ AWARDS

The BIS Committees of the Year Awards recognize the significant contributions and outstanding performance of BIS Sectional Committees in the development of Indian Standards. The award is open to all Sectional Committees and Sub-Committees of BIS, with one award being given annually to a committee under each Divisional Council. Nominations for the award may be submitted by any Sectional Committee (by the Chairperson or a Member) to the Member Secretary by **30th April** of the year. The selection process involves a committee review by the respective Divisional Council, followed by approval by the Director General of BIS. The awardees will be selected based on the defined criteria, and the Selection Committee may choose not to recommend a committee if it deems necessary. The final recommendations should be submitted to the Director General by **31st August**.



The committee may **NOTE**

# VOTE OF THANKS

[**Annex 1**](#_The_current_composition)

**SCOPE and COMPOSITION of *PAPER BASED PACKAGING MATERIALS SECTIONAL COMMITTEE*, CHD 16**

**SCOPE:**

1. *To formulate standards on terminology, methods of sampling and test, codes of practice and specifications for Paper & Paper board (coated and uncoated) used for Packaging and Serving application; Paper based packaging materials (converted and treated/coated) like cartons, trays, sacks, bags, boxes, paper based Intermediate Bulk Containers, Paper & Paper based Aluminium foil and/or multi-layered laminates, Paper based multilayer composite cartons, Paper based food and beverage accessories.*

1. *To coordinate with the work of ISO/TC 6*

**Liaison:**

1. ISO TC 6 – Paper, Board and Pulp — Principle (P)

**Details of Last Three Meetings:**

|  |  |  |
| --- | --- | --- |
| **Meeting** | **Date** | **Place** |
| **16th** | 24-05-2024 | Physical Meeting (Delhi — BIS HQ) |
| **17th** | 06-09-2024 | Physical meeting (IIP Delhi) |
| **18th** | 29-10-2024 | Virtual Meeting (New Delhi, India) |

**Chairperson: Prof. (Dr.) Tanweer Alam,** Additional Director & R.O, Indian Institute of Packaging, New Delhi

**Mobile No.:** 9599190704

**Email Address:** [amtanweer@rediffmail.com](mailto:amtanweer@rediffmail.com)

***COMPOSITION***

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Name of the Organization** | **Principal/Alternate**  **Member** | **Member Email / Member Alternate Email** | **Mobile No.** | **Meetings attended** | | | |
| **16th** | **17th** | **18th** | **Total** |
|  | B&A Packaging India Limited, Kolkata **(I)** | Shri Amal Kumar Mohanty (P) | [akmohanty@bampl.in](mailto:akmohanty@bampl.in) | 7064455746 | A | A | P | **1/3** |
| Shri Tapan Kr. Chand (A) | [tapan@bampl.in](mailto:tapan@bampl.in) | 7064455754 |
| Mr. Pankaj Kumar Mohapatra | [Pankaj@bampl.com](mailto:Pankaj@bampl.com) | 7064455742 |
|  | Central Pulp and Paper Research Institute, Saharanpur **(R&D)** | Dr. Sanjay Tyagi (A) | [styagi.cppri@gmail.com](mailto:styagi.cppri@gmail.com) | 9412479054 | A | P | P | **2/3** |
| Mr. Alok Kumar Goel | [akgoel\_cppri@rediffmail.com](mailto:akgoel_cppri@rediffmail.com) | 9458296655 |
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|  | Department for Promotion of Industry and Internal Trade, New Delhi | Mr. Rajesh Rawat | [rajesh.rawat@nic.in](mailto:rajesh.rawat@nic.in) | 9953644844 | C | L | P | **1/2** |
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| Shri. Mohammed Gouse (A) | [mohammed.gouse@itc.in](mailto:mohammed.gouse@itc.in) | 9676186824 |
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| Shri. Sourabh Ghosh (YP) | [sourabhghsh14@gmail.com](mailto:sourabhghsh14@gmail.com) | 7292059185 |
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| Mr. Raghav Goel | [raghav.goel@premindustries.in](mailto:raghav.goel@premindustries.in) | 8750118780 |
|  | Rites Limited **(T)** | Ms Malini Saha (P) | [malinisaha@rites.com](mailto:malinisaha@rites.com) | 9830234920 | P | L | P | **2/2** |
| (Nomination awaited) |  |  |
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| Shri. Rakesh Sharma (A) | [rakesh.sharma@uflexltd.com](mailto:rakesh.sharma@uflexltd.com) | 7506523138 |

**NOTE: A -** Absent**, P -** Present**, C -** Co-opted**, WD -** Withdrawn

Name of alternate member is indicated in the ‘**(A)**’ whereas of YP with ‘**(YP)**’

***ALL Working Group* under *CHD 16***

**CHD 16: WG 01**

**Term of reference —** *For revision/development of standards on new subjects - IS 2771 (part 2), IS 2617, Fluting medium, corrugating medium and fibreboard related standards.*

***Tenure: 6 months***

***Composition:***

* Shri L M Gupta, Package design research & technology lab — **(Convenor)**
* Dr Tushar, IIP Delhi
* Shri K P Singh, FCBM
* Dr. Sanjay Tyagi, CPPRI
* Shri Virendra Singh **– BIS Secretariat (CHD 16)**

**CHD 16: WG 02 (Revision of Pre-2000 Standards)**

**Term of reference —** *Revision of Pre-2000 Standards*

**Tenure** *– 3 months*

***Composition:***

* Shri P N Shridharr, ITC, PSPD — **(Convenor)**
* Shri B Dash, IPMA
* Dr. Dhram Datt, IIT Roorkee
* Shri Sanjeev Khandelwal, Stora Enso
* Shri Sanjay Yadav, Century Pulp & Paper Limited
* Shri Avinash K. Talwar, Dr. Reddy’s Laboratories)
* Shri Lalit Mohan Gupta, Package Design Research and Test Lab)
* Shri Virendra Singh **– BIS Secretariat (CHD 16)**

**CHD 16: WG 03 (Review of IS 7161 & IS 2991)**

**Term of reference —** *For development of standard on paper based food packaging and food serving materials, Review of IS 7161 & IS 2991*

***Tenure: 6 months***

***Composition:***

* Dr B P Thapliyal, IARPMA — **(Convenor)**
* Shri P N Shridharr, ITC, PSPD
* Shri Barun Banerjee, M/s Nestle India Ltd.
* Mr. Srikanth Ramamurthy, M/s Parksons packaging Limited, Pune.
* Shri Rajendra Tapadia, M/s Safepack Industries Limited, Pune
* Shri Ajay Rajvansi, M/s Nestle India Ltd.
* Shri Ravindra Patil, M/s Parksons packaging Limited, Pune
* Shri Virendra Singh **– BIS Secretariat (CHD 16)**

**CHD 16: WG 04**

***Scope —*** *To review comments on IS 17753 and review other laminate related standards such as IS 14319, IS 8970*

***Tenure: 6 months***

***Composition:***

* Dr Tanweer Alam, Chairperson CHD 16 — **(Convenor)**
* Shri P N Sridharr, M/s ITC Limited
* Shri Ajay Rajvanshi, M/s Nestle India Limited
* Shri Sharad Sharma, M/s Tetrapak India Private Limited
* Shri Rakesh Sharam, M/s Uflex Limited
* Shri Sanjeev Khandelwal, M/s Stora Enso India Branch office
* Shri Srikanth Ramamurthy, M/s Parksons Packaging Limited

**CHD 16: WG 05 (Safe, Secure and Sustainable Paper Packaging)**

**Scope —** *To examine the international best practices and provide insight as to what should be the approach to address “Safe, Secure and Sustainable Paper Packaging’*

**Tenure:** 3 months ***(starting from 6th September 2024)***

***Composition:***

* Shri P N Sridharr, M/s ITC Ltd — **(Convenor)**
* Shri Ajay Rajvansi, M/s Nestle India Ltd,
* Shri B Dash, IPMA
* Dr B P Thapliyal, Secretary General, IARPMA
* Dr Kirtiraj Gaikawad, IIT Roorkee
* Shri K P Singh, FCBM
* Shri Lalit Mohan Gupta, Package Design Research and Test Lab
* Shri Sharad Sharma, M/s Tetra Pak India Private Limited, Gurugram

**CHD 16: WG 07**

***Scope —*** *To review comments on WC documents for revision of IS 1776, IS 16983 and IS 16984 and review other folding boxes related standard such as IS 12999*

***Tenure: 6 months (starting from 6th September 2024)***

***Composition:***

* Shri P N Sridharr, M/s ITC Limited — **(Convenor)**
* Shri B Dash, M/s J K Papers
* Pragati Pack India Private Limited

**CHD 16: WG 08 (Bio-based materials for barrier coatings for paper packaging)**

***Scope —*** *To provide recommendation for development of Indian Standards for Bio-based materials for barrier coatings for paper packaging*

***Tenure: 6 months (starting from 6th September 2024)***

***Composition:***

* Prof. Kirtiraj, IIT, Roorkee — **(Convenor)**
* Dr B P Thapliyal, IARPMA
* Shri Mukesh Gupta, FPCI
* *Mr Sanjay Yadav, M/s Century Pulp and Paper Mills*

**CHD 16: WG 09 (Recyclable and compostable packaging)**

***Scope —*** *To provide recommendation for development of Indian Standards for Recyclable and compostable paper based packaging materials*

***Tenure: 6 months (starting from 6th September 2024)***

***Composition:***

* *Dr Sanjay Tyagi,* CPPRI — **(Convenor)**
* Shri P. N Sridharr, ITC
* Shri K P Singh, FCBM
* Shri Lalit Mohan Gupta, Package design Research and Test Lab

**CHD 16: WG 10 (Pulp Moulded Packaging Products)**

***Scope —*** *To provide recommendation for development of Indian Standards for pulp moulded packaging materials*

***Tenure: 6 months (starting from 6th September 2024)***

***Composition:***

* Shri P. N Sridharr, ITC — **(Convenor)**
* Dr TanweerAlam
* Eco-sure Pulp-molding technologies Limited
* Parason Machinery
* *Mr Sanjay Yadav, M/s Century Pulp and Paper Mills*

**CHD 16: WG 12**

***Scope:***

*To review the following Standards and provide recommendations:*

1. *IS 6481:1971 Guide for principal uses and styles of fibreboard containers*
2. *IS 7186:1973 Glossary of terms relating to paper and flexible packaging*
3. *IS 9028:1978 Glossary of terms relating to paper sacks*
4. *IS 7063(Part 3):1976 Methods of test for corrugated fibreboard: Part 3 Water Resistance of glue bond by immersion*
5. *IS 7063(Part 4):1976 Methods of test for corrugated fibreboard: Part 4 determination of substance of the components paper after separation*
6. *IS 6211:1993 Code of Practice for packaging of paper and board*

***Tenure: 6 months (starting from 6th September 2024)***

***Composition****:*

* Shri Lalit Mohan Gupta (Package Design Research and Test Lab) — **(Convenor)**
* Shri K P Singh, FCBM
* Shri B Dash, JK Paper
* Shri Parikh, M/s Anoop Industries Private Limited, Mumbai