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| **(PETROLEUM, COAL & RELATED PRODUCTS DEPTT.)** | | |
| **AGENDA** | | | |
| **Plastics Packaging Sectional Committee, PCD 21** | | | **37th Meeting** |
| **DATE & TIME** | | 31st January 2024, 1400 | |
| **VENUE** | | Manak Bhawan, BIS HQRS, New Delhi | |
| **MODE** | | Physical Mode | |
| **CHAIRPERSON** | | Dr Babu Rao Guduri, Joint Director, IIP | |
| **MEMBER SECRETARY** | | Ms. Anmol Agarwal, Scientist-B, PCD, BIS  E-mail: [pcd21@bis.gov.in](mailto:pcd21@bis.gov.in) | |

**Item 0 OPENING OF THE MEETING**

**0.1** **Welcome Address by Bureau of Indian Standards**

**0.2** **Opening Remarks by the Chairperson**

**Item 1 CONFIRMATION OF MINUTES OF THE 36th MEETING OF PCD 21**

**1.1** The minutes of the 36th meeting of Plastics Packaging Sectional Committee, PCD 21 held on 21st June 2023 (hybrid mode) were circulated via BIS portal on 7th July 2023. No comments have been received.

The Committee may **CONFIRM** the minutes as circulated.

**Item 2 THE PRESENT TITLE, SCOPE AND COMPOSITION OF PCD 21**

**2.1** The title, scope and updated composition of PCD 21 are attached as below:



**2.2** As per the latest guidelines of BIS, Panel under PCD 21 is renamed as Working group.The composition of various Working group (WG) under PCD 21 is attached as below:

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**2.3** As per the direction from DG, BIS, organizations that have not attended two consecutive meetings are to lose their representation in the Technical Committee. Regrettably, following a review, it has been observed that the organizations listed below have not adhered to this attendance requirement. Consequently, they have been removed from the Plastics Packaging Sectional Committee with the approval of the Chairperson, PCDC:

1. National Association for Feeders and Nipples Industries, Mumbai
2. Food Safety and Standards Authority of India, New Delhi
3. National Dairy Development Board
4. Federation of Indian Chambers of Commerce and Industry, New Delhi
5. Ministry of Food processing Industries, New Delhi
6. Nestle India Limited, Gurugram

The Committee may **NOTE**.

**2.4 Request for Representation in Plastic Packaging Sectional Committee, PCD 21.**

**2.4.1** *Presto Stantest Pvt. Ltd.*

A request has been received from *Presto Stantest Pvt. Ltd*. for representation in Plastics Packaging Sectional Committee, PCD 21. On behalf of their organization, they have nominated Shri Vishal Malhotra, Director (*Presto Stantest*)as the representing member. It is an organization which is actively engaged in manufacturing of testing instrument (by the brand PRESTO) for packaging and the automotive sector, for the last 28 years. Three decades ago, Presto pioneered Quality & Material Testing in India and today, it is a leading manufacturer and exporter of a large array of testing machines.



The Committee may **CONSIDER** theco-option in the Sectional Committee.

**ITEM 3 ISSUES ARISING OUT OF PREVIOUS MEETINGS**

**3.1 Review/Revision of Indian Standards**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No.** | **IS No. and Title** | **Decision during last meeting held on 21st June 2023** | **Current Status** |
|  | **IS 12395 : 1988 Disposable trash bags of plastics** | The Committee requested **WG 2** under the Convenorship of Shri Manish Khandelwal to provide the draft revision within 2 months for the consideration of the Committee. | Draft revision is still awaited from the WG 2. |
|  | **IS 12007 : 1987 Specification for laminated collapsible tubes** | The Committee requested **WG 5** under the Convenorship ofShri Vineet K Gupta to provide the recommendation on draft revision shared by BIS Sectt. within 1 month. | Inputs are awaited from the WG 5. |
| iii) | **IS 15749 : 2007 Fluorinated HDPE bottles and Containers-Specification** | The Committee requested BIS Sectt. to get the inputs that whether fluorinated HDPE bottles and containers are used by manufacturer of pesticides or not. | As requested by the Committee, BIS Sectt. sought confirmation from the Food and Agriculture department (FAD) of BIS regarding the usage of fluorinated HDPE bottles in pesticides industries. Subsequently, FAD confirmed that fluorinated HDPE bottles are still in use by the pesticides manufacturers. |
| iv) | **IS 13123 : 2000 Packing of liquid pesticides – Polyethylene terephthalate (PET) bottles (up to 5 litres capacity) (*first revision*)** | The Committee requested **WG 4** under the convenorship of Dr. Vijay Habbu to provide the draft revision within 2 months.  Further, the Committee requested BIS Sectt. to invite experts from pesticides industries in the WG 4. | Draft revision is awaited from the WG 4.  BIS Sectt. in consultation with the convenor of the WG 4, added Shri Vipin Saini, CEO OF BASAI in the WG 4 as a special invitee. |
| **v)** | **IS 14636 : 1998 Flexible Packaging materials for packaging of edible oils , ghee and vanaspati** | The Committee requested **WG 5** under the convenorship of Shri Vineet K Gupta to submit the draft revision within 2 months. | Draft revision is awaited from the WG 4.  Since, the standard is due for reaffirmation, the Committee may REAFFIRM and simultaneously take up the REVISION of the standard. |
| **vi)** | **IS 11352 : 2018 Flexible pouches for the packing of vanaspati upto 2 kg or 2 litres – Specification (*third revision*)** | The Committee requested **WG 5** under the convenorship of Shri Vineet K Gupta to submit the draft revision within 2 months. | Draft revision is awaited from the WG 4. |
| **vii)** | **IS 2798 :1998 Method of test for plastics container** | The Committee requested **WG 7** under the convenorship of Shri Rajeshwar Matche to provide the draft revision within 2 months. | Draft is still awaited from the WG 7.  Since, the standard is due for reaffirmation, the Committee may REAFFIRM and simultaneously take up the REVISION of the standard. |
| **viii)** | **IS 10171:1999 Guide on Suitability of Plastics for Food Packaging (*second revision*)** | The Committee requested the **WG** composed for the revision of IS 10171 to provide draft revision of IS 10171 within 2 months. The composition of WG is :   * Shri Dhananjay Sahoo, IOCL **(***Convener***)** * Ministry of Environment, Forests & Climate Change (MoEF&CC), New Delhi   FSSAI   * Dr. Smita Mohanty, CIPET * Dr R S Matche, CSIR-CFTRI * Shri Rajendra Dobriyal, Coca-Cola * Shri Shreeram Wadekar, RIL * Dr. Vijay Habbu, PACE * Shri Jeevraj Pillai, Uflex Limited, Noida * Dr. V P Sharma, CSIR-IITR * Shri Atin Chaudhuri, IFCA * Shri Mihir Banerjee * Shri Virendra Langde, Coco-cola | Draft is still awaited from the WG. |

The Committee may **NOTE** and **CONSIDER** requesting members to provide the inputs/revised drafts at the earliest as the subjects are long pending.

**3.2 Formulation of Indian Standard on ‘Flexible Packaging’ for snack food.**

Decision of last meeting –– The Committee requested BIS Sectt. to gather data relating to type of packaging generally used in snacks food standards .

Present Status –– BIS Sectt. has prepared a list containing packaging requirement of various snacks food items like ready to eat extruded snacks, fried jack fruit snacks , namkeen, etc, given in their respective Indian standards.

****

The Committee may **CONSIDER** reviewing the list attached and deliberate on the subjects.

**3.3 Formulation of Indian Standard for the packaging of dairy products made of HDPE/PP containers.**

Decision of last meeting –– The Committee requested BIS Sectt. to clarify the subject and make subject more specific to a particular type of packaging.

Present Status –– BIS Sectt. has prepared a list containing packaging requirement of various dairy products like ghee, curd, yoghurt, skimmed powder, ice-cream, etc. given in their respective Indian standards.

****

The Committee may **CONSIDER** reviewing the list attached and deliberate on the subjects.

**3.4 Manufacturing of coloured feeding bottles using pigments and colorants.**

During the special meeting held on 16.10.2023, a TOR on Study of Toxicological effect of colourants and pigments in plastics feeding bottle on infant health was prepared and same is now available for bidding in Research and Development tab in BIS portal with last date as 25/01/2024. TOR is attached as below:



The Committee may **NOTE**.

**3.5 Formulation of Indian Standard on test method for determination of Bisphenol A content in packaging material**

Decision of last meeting –– The Committee requested BIS Sectt. to send a mail clarifying the scope of the standard to be formulated. Further, requested WG 8 to provide the working draft within 3 months.

Present Status –– A mail regarding clarification of scope of the standard to be formulated was sent on 11th July 2023. The WG has submitted the recommendation attached as below:

****

The Committee may **DELIBERATE**.

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

**4.1 IS 8747 : 1977 Methods of test for environmental stress - Crack resistance of blow -**

**Moulded polyethylene containers**

Decision of last meeting –– The Committee finalised the draft for printing as no comments were received in Wide Circulation stage.

Present Status –– While going through the finalized document, Head (PCD) noticed that   ASTM D 2560-70, the Standard on which IS 8747 was based, has been withdrawn and replaced by ASTM D 2561-17 and requested WG 2 to review the standard. Subsequently, a WG meeting was organised on 11th Oct 2023 to deliberate on the observation of H (PCD). WG opined that pressure mentioned in method 3 of ASTM D 2561-17 is difficult to maintain as there are various sizes and designs of the containers and facilities used in the method to test Environmental stress-crack resistance is also not in use in India till now. In view of the above, WG 2 RECOMMENDED that method 3 can be put up before the Committee, PCD 21 for suggestions/ inputs of other members of the Committee regarding the use of method 3 mentioned in ASTM 2561-17 in India.



The Committee may **DELIBERATE**.

**4.2 IS 7803 (Part 1) : 1975 Specification for plastic containers for pharmaceutical use Part 1 Other than parenteral and ophthalmic preparations (*first revision*)**

Decision of last meeting –– During the meeting, Dr. Vijay Habbu requested the Committee to provide one week time to provide his comments / recommendations on the draft revision.



Present status –– Comments are still awaited.

**4.3 IS 7803 (Part 2) : 1975 Specification for plastic containers for pharmaceutical use Part 2 Parenteral and ophthalmic preparations**

Decision of last meeting –– During the meeting, Dr. Vijay Habbu requested the Committee to provide one week time to provide his comments / recommendations on the draft revision.



Present status –– Comments are still awaited.

**4.4 IS 14537: 1998 Polyethylene terephthalate (PET) bottles for packaging of alcoholic liquor.**

Decision of last meeting **––** The Committee decided to reissue the draft revision into Wide circulation for a period of 1 month after receiving necessary changes form WG 4.



Present status–– The draft revision was issued into wide circulation and last date of comment is 8th Feb 2024.

The Committee may **NOTE**.

**4.5 IS 14764: 2000 Polyethylene terephthalate (PET) containers for Packaging of Vanaspati Specification**

Decision of last meeting **––** The Committee decided to reissue the draft revision into Wide circulation for a period of 1 months.



Present status **––** The draft revision was issued into wide circulation and last date of comment was 17th February 2024.

The Committee may **NOTE**.

**4.6 IS 12887: 1989 Polyethylene terephthalate (PET) bottles for packaging of edible oils.**

Decision of last meeting **––** The Committee decided to reissue the draft revision into Wide circulation for a period of 1 month after receiving necessary changes form WG 4.



Present status–– The draft revision was issued into wide circulation and last date of comment is 9th Feb 2024. Following comments has been received:



**4.7** **IS 11584 : 1986 Specification for high density polyethylene (HDPE) crates for milk sachets.**

Decision of last meeting **––** The Committee decided to reissue the draft revision into Wide circulation for a period of 2 months.

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Present status **––** The draft revision was issued into wide circulation and last date of comment was 13th Aug 2023.

No comment has been received.

The Committee may **FINALISE.**

**4.8 IS 9754 : 1981 Specification for high density polyethylene containers for packing of liquid pesticides (Up to 1 litre Capacity).**

Decision of last meeting **––** The Committee decided to reissue the draft revision into Wide circulation for a period of 2 months.

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Present status **––** The draft revision was issued into wide circulation and last date of comment was 13th Aug 2023. Following comments has been received:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Clause/Sub-clause/ para/table/fig. No. commented** | **Commentator/**  **Organization/**  **Abbreviation** | **Type of Comments**  **(General/Editorial/ Technical)** | **Justification** | **Proposed change** |
| **(1)** | **(2)** | **(3)** | **(4)** | **(5)** |
| 4.4.5 | Mullackal Polymers Pvt Ltd. | Editorial | Shall be ± 1.15 percent or ± 0.20 percent, whichever is greater. | Shall be ± 1.15 percent or ± 0.20 mm, whichever is greater. |

The Committee may **FINALISE.**

**4.9 IS 11805 Polyethylene pouches for packaging liquid dairy products ― Specification (*second revision*)**

Decision of last meeting **––** The Committee decided to reissue the draft revision into Wide circulation for a period of 2 months.

****

Present status **––** The draft revision was issued into wide circulation and last date of comment was 13th Aug 2023.

No comment has been received.

The Committee may **FINALISE.**

**4.10** **IS 15410: 2003 Plastics bottles/ containers for packaged natural mineral water and packaged drinking water — Specification**

Decision of last meeting **––** The Committee decided to issue the draft revision into Wide circulation for a period of 2 months.

****

Present status **––** The draft revision was issued into wide circulation and last date of comment was 12th December 2023. Following comments has been received:



**4.11 Plastic Feeding and Drinking Containers, Accessories and Cutleries for infant and child use (*new standard*)**

Decision of last meeting **––** The Committee decided to reissue the draft revision into Wide circulation for a period of 2 months.

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Present status **––** The draft revision was issued into wide circulation and last date of comment was 16th October 2023.

No comment has been received.

The Committee may **FINALISE.**

**4.12 IS 7408 (Part 1) : 2000 Blow moulded polyolefin containers — Specification : Part 1 Up to 5 litres capacity (*second revision*)**

Decision of last meeting **––** The Committee decided to reissue the draft revision into Wide circulation for a period of 2 months.

****

Present status **––** The draft revision was issued into wide circulation and last date of comment was 1st October 2023.

No comment has been received.

The Committee may **FINALISE.**

**4.13 IS 7408 (Part 2) : 2000 Blow moulded polyolefin containers — Specification : Part 2 Over 5 litres up to and including 60 litres capacity (*first revision*)**

Decision of last meeting **––** The Committee decided to reissue the draft revision into Wide circulation for a period of 2 months.

****

Present status **––** The draft revision was issued into wide circulation and last date of comment was 1st October 2023.

No comment has been received.

The Committee may **FINALISE.**

**4.14 IS 7408 (Part 3) : 2000 Blow moulded polyolefin containers — Specification : Part 3 Closed head containers over 60 litres up to and including 250 litres capacity (*first revision*)**

Decision of last meeting **––** The Committee decided to reissue the draft revision into Wide circulation for a period of 2 months.

****

Present status **––** The draft revision was issued into wide circulation and last date of comment was 1st October 2023.

No comment has been received.

The Committee may **FINALISE.**

**4.15 IS 6312 : 1994 Polyethylene containers for the transport of materials — Specification** (***second revision***)

Decision of last meeting **––** The Committee decided to reissue the draft revision into Wide circulation for a period of 2 months.

****

Present status **––** The draft revision was issued into wide circulation and last date of comment was 8th October 2023.

No comment has been received.

The Committee may **FINALISE**.

**Item 5 DRAFT STANDARDS / AMENDMENTS FOR APPROVAL FOR WIDE CIRCULATION**

**5.1 IS 7019 : 1998 Glossary of terms in plastics and flexible packaging, excluding paper (*second revision*)**

Decision of last meeting **–-** The Committee requested BIS Sectt. to revise the standard by taking references from ISO 21067-1 Packaging- Vocabulary- Part 1:General terms and ISO 6590-2 Packaging – Sacks- Vocabulary and types –Part 2 : Sacks made from Thermoplastic Flexible Film and provide the draft into 2 months. Further, Committee requested to add the definition of “single use plastic” in IS 7019.

Present Status –– BIS Sectt has prepared the draft revision as attached :



Since, the standard is due for reaffirmation, the Committee may REAFFIRM and simultaneously take up the REVISION of the standard.

The Committee may **CONSIDER** to issue the draft revision into Wide Circulation.

**Item 6 NEW WORK ITEM PROPOSAL**

**6.1 Polyethylene flexible pouches for the packing of natural mineral water and packaged drinking water**

The New Work Item Proposal for formulation of Indian Standard on above cited item was received from Shri Ninad Kathe, Parle Agro Pvt. Ltd. Existing Indian Standard IS 15609:2005 is limited to pack size up to 500 ml, they intend to pack packaged drinking water and natural mineral water in pack sizes above 500 ml and thereafter multiple of 500ml up to 20 l.

Justification as received : Polyethylene flexible pouch has a high oxygen barrier . The pouches are filled through specialised filling machine in a hygienic environment and with utmost food safety conditions. As the water is dispensed from the polyethylene flexible pouches through the tap or spigot, the pack collapses which prevents any air from entering the package till the pouch is completely empty. Water in the polyethylene flexible pouch ensured that the water is safe till the last drop. Ease of transportation and storage during emergency situations arising during epidemic. Parle Agro recommends that the empty bag with tap and cartons are separated, crushed and put into the recycling stream as per the waste management requirements.

****

The Committee may **CONSIDER**.

**Item 7 PROGRAMME OF WORK**

**7.1** The programme of work of the Committee is given below.



The Committee may **NOTE**.

**7.2 Standards published after last meeting**

Based on the Committee decision in its 36th meeting, the following documents were finalized for printing:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Document No.** | **Title** | **Current Status** |
| i) | IS 7959 : 2023 | Polyethylene Containers for Foam Compounds — Specification | Published |
| ii) | IS 6604 : 2023 | Code for Packaging of Solid Pesticides up To 1 000 g | Published |
| iii) | IS 7792 : 2023 | Plastics Containers Handling Code of Practice | Published |
| iv) | IS 7394 : 1984 | Plastics containers for reserve fuel –– Specification | With publication depatment |

**7.3 Review / Reaffirmation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **IS No.** | **Title** | **Last Reaffirmation Details** | **Remarks** |
|  | IS 14636 : 1998 | Flexible packaging materials for packaging of edible oils, ghee and vanaspati | December, 2018 | Kindly refer item **3.1 (v)** |
|  | IS 2798 : 1998 | Methods of test for plastics containers (*first revision*) | December, 2018 | Kindly refer item **3.1 (vii)** |
|  | IS 7019 : 1998 | Glossary of terms in plastics and flexible packaging, excluding paper (*second revision*) | December, 2018 | Kindly refer item **5.1** |

**7.4 Review/Revision of Pre 2000 Standards**

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **IS No.** | **Title** |
| 1 | IS 12512 : 1989 | HDPE containers — For liquid pesticides — Capacity over 1 and up to 5 litres — Specification |
| 2 | IS 12787 : 1989 | Polyethylene air bubble film — Specification |
| 3 | IS 12883 : 1989 | Polyvinyl chloride PVC bottles for edible oils — Specification |
| 4 | IS 8688 : 1988 | Specification for plastics potable water bottles (*first revision*) |
| 5 | IS 10840 : 1994 | Blow moulded HDPE containers for Packing of Vanaspati — Specification (*second revision*) |

**8 COMMENTS ON STANDARDS**

**8.1 Comments on IS 14625 : 2015 Plastics Feeding Bottles**

The following comment has been received from **Shri Gopal Sharma** on the standard

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Clause/Sub-clause/ para/table/fig. No. commented** | **Commentator/**  **Organization/**  **Abbreviation** | **Type of Comments**  **(General/Editorial/ Technical)** | **Justification** | **Decision of the Commission** |
| **(1)** | **(2)** | **(3)** | **(4)** | **(5)** | **(6)** |
| i) | 5.3.6 | Pigeon | Technical | As per IS 14625, the feeding bottles shall not get deformed by more than 10 percentin diameter in compressive direction at the compressive load of 2 kgf (19.6 N) when tested in accordance with the method described in Annex E of IS 14625. However, in case of cleft palate squeezable bottle, it is deforming 15 to 16 percent. |  |

**8.2 IS 9738 : 2003 Polyethylene bags for general purposes - Specification** (***second revision*)**

A comment has been received from Smt. Deepika Shokeen, Director GeM SPV pertaining to IS 9738. As per Plastic Waste Management Rules, 2022, “minimum permitted thickness of 120 microns for carry bags with effect from Dec 31, 2022”. However, IS 9738 is not updated as per these guidelines.

**Item 9 DATE AND PLACE OF NEXT MEETING**

**Item 10 ANY OTHER BUSINESS**