

BUREAU OF INDIAN STANDARDS

MINUTES

NAME OF THE COMMITTEE	NO. OF MEETING	DATE AND TIME	DAY	VENUE : Hybrid
Transport Packaging and Pallets Sectional Committee, TED 24	Thirty First (31 st)	9 th January 2024 from 10:30 AM onwards	Tuesday	Physical Venue: Green Room (Samwad), Manak Bhawan, BIS (HQ), New Delhi Virtual Venue: Webex

CHAIRMAN: Dr. N.C. SAHA MEMBER SECRETARY: Mr. GAURAV JAYASWAL
HEAD (TED): Mr. P V SRIKANTH

MEMBERS PRESENT:

Sl. No.	NAME OF MEMBER	NAME OF ORGANIZATION
1.	Dr. N.C. Saha	In Personal Capacity
2.	Shri Haresh Lalwani	M/s AMTOI
3.	Shri PRADEEP KUMAR VERMA	M/s Bagpoly
4.	Shri Anurag Tripathi	M/s Central Warehousing Corporation (CWC)
5.	Shri Shubam Gupta	M/s Central Warehousing Corporation (CWC)
6.	Shri Naval kedia	M/s Deekay Pine Board Ltd.
7.	Shri K P Singh	M/s Federation of corrugated box manufacturers
8.	Shri S Vijay Kumar	M/s Food Corporation of India
9.	Shri Amit	M/s Futuristic Pvt Ltd.
10.	Dr. Babu Rao Guduri, Joint Director	M/s Indian Institute of Packaging (IIP)
11.	Shri Ajith Kumar	M/s ITC
12.	Shri Surinder Singh	M/s Nilkamal Ltd.
13.	Shri Siddharth Gupta	M/s Ojas Agro Pack
14.	Shri Jitendra shah	M/s Omega Industries
15.	Shri Kunal	M/s Shipping Corporation of India (SCI)
16.	Shri Shyam Jha	M/s Supreme Industries
17.	Shri Sanjay Mishra	M/s Supreme Industries
18.	Shri B. Rai - Time Technoplast	M/s Time Technoplast
19.	Shri A K Kharbanda	M/s Vishakha Industries
20.	Shri Devang Mehta	M/s Vishakha Industries

ITEM 0 WELCOME ADDRESS

0.1 Welcome Remarks by Head (TED)

Shri P V Srikanth, Head (TED), greeted all the members present in the meeting and thanked them for their active participation in the committee. He emphasized the need for more frequent meetings to ensure timely formulation and revision of standards. He also highlighted the importance of raising awareness among students about BIS Standards to enrich their knowledge base for the industry. He also highlighted the importance of creation of standardization cells in industry association and their proper functioning.

0.2 Opening Remarks by the Chairman

Dr. N.C. SAHA, Chairman, TED 24 welcomed all the members present in the 31st Meeting and requested all members to complete the work allotted to them within stipulated time frame so that the work of TED 24 is completed as per the plans made from time to time. He requested all the members to take active part in the deliberations on various issues going to be discussed as per the agenda.

ITEM 1 CONFIRMATION OF THE MINUTES OF LAST MEETING

The Minutes of the 30th Meeting of Transport Packaging and Pallets Sectional Committee, TED 24 held in online mode through Webex Video Conferencing Platform, on 11th July 2023, were circulated through BIS Portal. No comments with regards to decision of committee had been received.

Hence the committee approved the minutes of the last meeting formally.

ITEM 2 SCOPE & COMPOSITION OF THE SECTIONAL COMMITTEE

2.1 The committee noted the Scope of Transport Packaging and Pallets Sectional Committee, and after thorough deliberations, it was decided that a proposal would be made in the next meeting of Transport Engineering Division Council (TEDC) to modify the scope of SC TED 24 as follows :

"Standardization of Transport packages, Rigid Intermediate Bulk Containers excluding freight containers, Pallets, their testing, intensities of tests, along with standardization of Palletization and packaging codes for Transport Packages and their components."

2.2 The committee reviewed its composition. After the review, the committee decided to withdraw membership of following organizations due to failing to attend the consecutive meetings of SC TED 24 as per latest BIS Guidelines :

1. M/s Indian Oil Corporation Limited, New Delhi
2. M/s Larsen and Toubro Limited, Mumbai
3. M/s Shyamal Chaterjee, Kolkata
4. M/s Sun Pharmaceutical Industries Limited, Mumbai

2.3 New Membership request received from Shri Amber Jayna from M/s Ojas Agropack P Ltd. was discussed by the committee and it was decided to co-opt M/s Ojas Agropack P Ltd. as a member of SC TED 24.

2.4 The committee noted the details of sub-committees formed before bifurcation of SC TED 24. It was decided to dissolve the previously created sub-committees and to establish new working panels and working groups as necessary in the future.

ITEM 3 PROCESS REFORMS AT BIS

3.1 Member secretary presented Process Reforms at BIS. The committee Noted.

ITEM 4 ISSUES ARISING OUT OF THE MINUTES OF THE LAST MEETING

The summary of actions taken on the Minutes of previous meeting and the decisions taken by the committee during the current meeting are given below:

Item No.	Subject	Decision of committee in Previous meetings	Proceedings in Last (30th) Meeting	Status in 31st Meeting	Decision in 31st Meeting
1.	Amendment 2 to IS 17427	Clause wise comments comparing IS 13714 with IS 17427 were received from Mr. Ashish Singla from Naman Enterprises. (IS 13714 has been superseded by IS 17427) The committee deliberated the comments received from Mr. Ashish Singla from Naman Enterprises in its	Status in 30th Meeting : The draft Amendment was sent for wide circulation 60 days as TED 24(22374) W. No comments have been received on the circulated draft amendment.	Amendment 2 to IS 17427 has been published. The committee may please note.	The committee noted.

		<p>28th meeting and decided to issue an amendment to IS 17427 based on accepted comments.</p>	<p>However some more comments have been from Mr. Ashish Singla from M/s Naman Enterprises and the same is attached at Annexure-2 of the agenda of 30th Meeting.</p> <p>The committee may deliberate and decide.</p> <p>Decision in 30th Meeting :</p> <p>The draft amendment was discussed by the committee. Mrs. Vemula Sridevi from FCI apprised the committee that Pallets of 120 mm height is not used by FCI or other prominent users and told that there is no Meaning of mentioning this specific size {1500 mm * 600 mm * 120 mm} in the standard.</p> <p>Moreover It has been mentioned in Clause 10 of the standard that <i>“In Addition, Any other dimensions</i></p>		
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			<p><i>can be finalized between the buyer and the seller for domestic and export market”.</i></p> <p>Considering the above comments from FCI, The committee decided to Hold the inclusion of new size i.e. {1500 mm * 600 mm * 120 mm}.</p> <p>The committee also discussed the re-inclusion of Box Pallet and Dunnage Pallet Classification in the standard under Clause 4.1.</p> <p>Being No comment/objection for re-inclusion of Box Pallet and Dunnage Pallet Classification, it was decided by the committee to restore the clause 4.1 as it was before amendment -1.</p> <p>Amendment 2 to IS 17427 was approved for the same and is attached as Annexure – 2 of the agenda of 30th Meeting..</p>		
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			<p>The committee also discussed the fresh comments received from M/s Naman Enterprises and concluded its decision as per Annexure – 3</p>	
2.	<p>Revision of IS 8005 : 1976 - Classification of unit loads</p>	<p>During 30th Meeting of SC TED 24, The committee noted that While preparing this standard Reference was taken from ISO/TC 101 (Sec-186) 290 'Draft ISO proposal for continuous mechanical handling equipment - Classification of unit loads. This draft later got published as ISO 3569:1976 "Continuous mechanical handling equipment — Classification of unit loads This".</p> <p>In view of the above, The committee decided to adopt latest ISO Standard i.e. ISO 3569:1976 to revise IS 8005.</p>	<p>The National Foreword Corresponding to ISO 3569:1976 was sent for wide circulation for 60 days as Doc. TED 24 (23326) after approval from chairperson, TED 24. The draft has completed its circulation period and No comments have been received. The committee may deliberate and decide.</p>	<p>The committee decided to send the document for printing.</p>
3.	<p>Revision of IS 6219 : 1989 - Methods of test for general purpose flat pallets for</p>	<p>During 30th Meeting of SC TED 24, The committee noted that this standard was first published in 1971 covering test code for non-expendable flat timber pallets only. First revision of this standard was made in 1977 incorporating bending strength test. In the first revision, the tests for metal pallets were also incorporated.</p>	<p>The National Foreword Corresponding to ISO 8611-1 : 2021 was sent for wide circulation</p>	<p>The committee decided to send the document for printing.</p>

	<p>through transit of goods</p>	<p>The second revision of this standard was taken up to align it with ISO/DIS 8611 ‘General purpose flat pallets for through transit of goods - Test methods’ issued by the International Organization for Standardization (ISO). ISO DIS 8611 later got published as ISO 8611 : 1991 and later was splitted into three parts by ISO TC 51. The latest versions of ISO 8611-1,2,3 are as follows :</p> <p>1. ISO 8611-1:2021 <i>Pallets for materials handling — Flat pallets — Part 1: Test methods</i></p> <p>2.ISO 8611-2:2021 <i>Pallets for materials handling — Flat pallets — Part 2: Performance requirements and selection of tests</i></p> <p>3. ISO 8611-3:2011 <i>Pallets for materials handling — Flat pallets — Part 3: Maximum working loads.</i></p> <p>In view of the above, The Committee decided to revise IS 6219 by adopting ISO 8611-1 : 2021.</p>	<p>for 60 days as Doc. TED 24 (23325) after approval from chairperson, TED 24. The draft has completed its circulation period and No comments have been received. The committee may deliberate and decide.</p>	
<p>4.</p>	<p>Revision of IS 16961 : 2018 - Packaging - Vocabulary</p>	<p>During 30th Meeting of SC TED 24, The committee noted that in the formulation of this standard, considerable assistance has been derived from the ISO 21067 : 2007 ‘Packaging — Vocabulary’ issued by the International Organization for Standardization (ISO). ISO 21067 : 2007 later on was revised by ISO and was splitted into two parts as follows : 1. ISO 21067-1:2016 Packaging — Vocabulary — Part 1: General terms, and 2. ISO 21067-2:2015 Packaging — Vocabulary — Part 2: Packaging and the environment terms.</p> <p>In view of the above, the committee decided to revise IS 16961 by adopting latest version of ISO Standards i.e.</p>	<p>The National Forewords Corresponding to ISO 21067-1:2016, and ISO 21067-2:2015 were sent for wide circulation for 60 days as doc. TED 24 (23323) and doc. TED 24 (23324) respectively after</p>	<p>The committee decided to send the documents for printing.</p>

		ISO 21067-1:2016, and ISO 21067-2:2015.	approval from chairperson, TED 24. The drafts have completed their circulation period and No comments have been received. The committee may deliberate and decide.	
5.	Revision of IS/ISO 16495 : 2013 - Packaging Transport packaging for dangerous goods Test methods	<p>During 30th Meeting of SC TED 24, The committee noted that this standard is identical adoption of ISO 16495 : 2013. ISO Standard has been revised in 2022 as ISO 16495:2022.</p> <p>In view of the above, the committee decided to adopt the latest version of ISO Standard i.e. ISO 16495 : 2022.</p>	The National Foreword Corresponding to ISO 16495:2022 was sent for wide circulation for 60 days as Doc. TED 24 (23275) after approval from chairperson, TED 24. The draft has completed its circulation period and No comments have been received. The committee may deliberate and decide.	The committee decided to send the document for printing.

6.	<p>Revision of IS 9733 : 2015 - Packaging - Complete, filled transport packages - General rules for the compilation of performance test schedules</p>	<p>During 30th Meeting of SC TED 24, The committee noted that this standard is identical adoption of ISO 4180:2009. The ISO Standard has been revised in 2019 as ISO 4180:2019.</p> <p>In view of the above, the committee decided to adopt the latest version of ISO Standard i.e. ISO 4180 : 2019.</p>	<p>The National Foreword Corresponding to ISO 4180 : 2019 was sent for wide circulation for 60 days as Doc. TED 24 (23276) after approval from chairperson, TED 24. The draft has completed its circulation period and No comments have been received. The committee may deliberate and decide.</p>	<p>The committee decided to send the document for printing.</p>	
7.	<p>Revision of IS 13664 : 1993 “Poly Pallets for Bag Storage Godowns – Specification”</p>	<p>Inputs are required for passing criteria of various tests prescribed in the draft. The committee may please discuss.</p> <p>Decision in 26th Meeting:</p> <p>After detailed deliberations on the comments received from M/s Nilkamal Industries, the committee decided that a minimum</p>	<p>Status in 30th Meeting: The inputs received from Mr. Pradeep Kumar Verma from Bag Poly International Pvt Ltd have been attached at Annexure-3 of the Agenda of 30th Meeting.</p> <p>Inputs have also been received from Mr. V K Singh and the</p>	<p>In accordance with decision in the last meeting, the Copies of ISO 12777-1,2 and 3 have been sent to Mr. Pradeep from Bagpoly International Pvt. Ltd for study purposes.</p>	<p>The committee decided to form a panel with M/s Ojas Agropack P Ltd. as its convener to study the ISO 12777-1,2 and 3 along with the draft prepared by the committee</p>

		<p>passing criteria for all tests shall be provided along with the agreement clause between buyer and purchaser so that a minimum quality can be recommended by the national standard.</p> <p>It was further decided that a meeting of Plastic Pallets Panel shall be convened by Mr. A.K. Kharbanda on a suitable date in September where the minimum passing criteria will be finalized for all the tests.</p> <p><i>{Decision taken on the comments discussed during the meeting was attached with the minutes. A copy of IS 8611 (All Parts) and IS 17427 (Wooden Pallets) was also attached with the minutes in order to study the references for passing criteria of the tests.}</i></p> <p>Status in 27th Meeting: To be discussed for Minimum Passing Criteria.</p>	<p>draft incorporating the inputs is attached at Annexure-4 of the Agenda of 30th Meeting.</p> <p>Some comments on IS 13664 : 1993 have also been received from M/s Futuristic Industries Pvt. Ltd. and the same are attached at Annexure-5 of the Agenda of 30th Meeting.</p> <p>The committee may examine the draft, deliberate the comments and decide accordingly.</p> <p>Decision in 30th Meeting:</p> <p>The draft document was discussed in the meeting. The committee noted that a new category of pallets (Type E) has been introduced in the draft for Rotomolded Pallets as decided by the committee in the last meeting. During</p>	<p>The inputs on test methods to ensure sufficient strength of pallet joints are however awaited.</p> <p>Line diagram for Fig.1 has also been received from Mr. Amit Vashisht from M/s Futuristic Industries Pvt. Ltd. and is attached as Annexure-2.</p> <p>The committee may please note.</p> <p>Line diagram for Type C, Type D and Type E Pallets along with outer dimensions are also awaited from Shri V K Singh.</p> <p>The committee</p>	<p>and come up with a draft test method to ensure sufficient strength of pallet joints.</p> <p>The composition of the panel would be as follows :</p> <ol style="list-style-type: none"> 1. M/s Ojas Agropack (Panel Convener) 2. M/s Bagpoly 3. M/s Futuristic 4. M/s CWC 5. M/s FCI <p>The committee requested the panel convener to conduct the panel meeting and come up with new draft test method to ensure sufficient strength of pallet joints</p>
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		<p>A mail was received from Haryana Branch office, BIS to resolve query on IS 13664. The Copy of Letter was attached as Annexure – 1 of the agenda of 27th Meeting.</p> <p>Decision in 27th Meeting: The committee discussed the comments received from HRBO.</p> <p>Mr. Pradeep Kumar Verma from Bag poly Limited explained the comments and requested committee members for timely revision of IS 13664.</p> <p>The committee formed a panel to draft and discuss the document to revise IS 13664.</p> <p>The composition of the panel is as follows :</p> <ol style="list-style-type: none"> 1. Mr. Sanjay Mishra, Supreme Industries Limited (Panel Convener) 2. Mr. Surinder Singh, 	<p>the discussion it was reported by M/s CWC that fasteners of assembled Plastic and Wooden pallets get loose and they make the pallets unusable after some time. CWC requested BIS to Introduce test methods to ensure sufficient strength of Pallet Joints in Assembled Wooden and Poly Pallets standards. In continuation to this, Mr. Pradeep from Bagpoly International Pvt. Ltd. was requested to Go through ISO 12777-1,2 and 3 along with IS 17427 and IS 13664 to come up with test methods to ensure that pallet joints are sufficiently strong. The comments received from M/s Futuristic International Pvt. Ltd. were also discussed in detail and decisions as per Annexure-1 of the minutes of 30th meeting were</p>	<p>may deliberate and decide.</p>	<p>for Assembled Plastic Pallets in a month's time.</p>
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		<p>Nilkamal Industries Limited</p> <p>3. Mr. Siddharth Rath , Central Warehousing Corporation (CWC)</p> <p>4. Mrs. Vemula Sridevi, Food Corporation of India (FCI)</p> <p>5. Mr Madhab Chakraborty, Indian Institute of Packaging (IIP), Delhi</p> <p>6. Mr. Jignesh Shah, Delux Recycling India Private Limited</p> <p>7. Mr. Pradeep Kumar Verma, Bagpoly Industries Limited</p> <p>8. Newgen Speciality Plastic Limited</p> <p>9. Vishakha Industries</p> <p>The committee requested Mr. Sanjay Mishra to</p>	<p>taken. During the discussion, it was also decided to clearly specify in the draft standard that Type A and Type B are meant for Only Stationary Storage and They are not meant for Racking Application as well as these pallets cannot be used for handling purposes through Forklift. It was also discussed and agreed by the committee that performance tests are to be conducted for the Complete Pallets of Type A and B and it is not necessary to carry out the testing of any individual components of the pallets. Mr. Amit Vashisht from M/s Futuristic Industries Pvt. Ltd. was requested to provide the clear line diagram for Fig.1. During the discussion it was also requested to Shri V K Singh to provide line diagram for Type C, Type D and</p>		
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		<p>redraft the existing document and circulate among the panel members with a copy to BIS. The panel convener also promised to conduct the panel meeting in the first week of September 2022.</p> <p>Status in 28th Meeting: A panel meeting was conducted on 06/09/2022 under the convenorship of shri Sanjay Mishra from Supreme Industries Limited.</p> <p>The minutes of the panel meeting is attached as Annexure – 2 of the agenda of 28th Meeting.</p> <p>In line with the discussions held, the member secretary has prepared a draft incorporating all the amendments to the standard with editorial modifications and circulated the same to all the committee members through email dt. 09/02/2023.</p>	<p>Type E Pallets along with outer dimensions. The committee requested the member secretary to compile the test methods given in ISO 12777-1,2 and 3 along with IS 17427 and IS 13664 for pallet joints strength and Fasteners and also by considering the inputs from Mr. Pradeep of Bag poly and to do all editorial modification of the Draft. It was also decided to send the document for Wide Circulation for 60 days after taking the approval from chairman, TED 24.</p>		
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		<p>The draft is also attached as Annexure – 3 of the agenda.</p> <p>The committee may review the draft.</p> <p>Decision in the 28th Meeting:</p> <p>The committee discussed the draft attached at Annexure-3 of the agenda in detail.</p> <p>It was proposed by the members to include a new category of ‘Steel and PU reinforced rotational moulded plastic pallets’ as Type E. {Type E1 for <i>Heavy Duty</i> and Type E2 for <i>Normal Operation</i> similar to Type C1 and C2}</p> <p>The committee requested shri V.K. Singh from Newgen speciality plastic limited to Provide the specifications for Type E Pallets including Dimensions, Load Bearing Capacity, Material specification (PU/LDPE/Steel/A</p>			
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	<p><i>ny other material including conforming Relevant Indian Standards) along with Minimum weight requirement to the Member Secretary in 20 days' time.</i></p> <p>Shri Pradeep Kumar Verma from Bag Poly International Pvt Ltd was requested to provide Detailed Test Methods to perform tests on Top and Bottom members of Assembled Plastic Pallets.</p> <p>The committee also requested the member secretary to examine the inputs received from the members for the draft and incorporate them suitably to the draft.</p> <p>It was also decided to send the modified draft for wide circulation for 60 days after the approval of chairman, TED 24.</p> <p>Status and decision in 29th Meeting : The Working Draft is</p>			
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		under preparation. The committee noted.			
8.	Revision of IS 16058: 2013 Pallets made from recycled packaging wastes for warehousing application – Specification	<p>The standard is under publication after it has been finalized and approved by the chairman for publication. The committee may please Note.</p> <p>Decision in 26th Meeting:</p> <p>The committee noted that the standard is under publication after it has been finalized and approved by the chairman for publication.</p> <p>Status in 27th Meeting:</p> <p>To be discussed for Passing Criteria.</p> <p>Some Comments were received on IS 16058: 2013 from Central Warehousing Corporation through email dt. 28/04/2022. The Comments were circulated to all the committee members vide email dt. 28/04/2022.</p>	Status and Decision of 30th meeting : The document has been sent for printing. The committee noted.	As per the information available on BIS Portal, the document is shown in ‘ <i>Ready for Gazette</i> ’ stage and is expected to be published soon.	The committee noted.

	<p>The comments were attached at Annexure – 2 of the agenda of 27th Meeting.</p> <p>Draft to Revise IS 16058 : 2013 was also received from Mr. Jignesh shah and the same was attached as Annexure – 4 of the agenda of 27th Meeting.</p> <p>Decision in 27th Meeting:</p> <p>The committee discussed the comments received from the Central Warehousing Corporation and concluded that the modified draft (Attached as Annexure – 4 of the Agenda of 27th meeting) Addresses all the comments given by CWC.</p> <p>The member secretary also apprised the committee that the document {TED 24 (17000)} has been dropped on BIS Portal owing to the corrections in clause 19.4 at the time of finalization.</p> <p>The committee asked the member</p>			
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	<p>secretary to create a fresh document and send the modified version (Attached as annexure – 4 of the agenda of 27th meeting) for Wide Circulation for a period of 30 days.</p> <p>In case NO Comments are received on the document, the committee decided to send the draft directly for printing after chairman’s approval, As the document has been discussed multiple times in the sectional committee meetings.</p> <p>If comments are received, the draft can further be discussed in the next meeting.</p> <p>Status in 28th Meeting: The draft was thoroughly examined by the member secretary and the same was redrafted as per IS 12.</p> <p>In the process of examination, a number of practical difficulties were found out to implement the</p>			
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	<p>standard and the same were discussed with the proposer of the original draft shri Jignesh Shah and The chairman of SC TED 24 Dr. N.C. SAHA.</p> <p>After due deliberations, some modifications were incorporated to the draft.</p> <p>The modified draft indicating major changes was circulated to all the committee members dt. 12/12/2022 for comments.</p> <p>Since No comments were received, The draft was sent for wide circulation of 60 days on 11/01/2023 as TED 24 (21700) W.</p> <p>The committee may please note.</p> <p>Decision in 28th Meeting:</p> <p>The committee noted.</p> <p>Status in 29th Meeting :</p> <p>The draft has completed its Wide</p>			
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		<p>Circulation Period on 11/03/2023.</p> <p>No comments have been received on the draft.</p> <p>However some technical/editorial corrections had been suggested by BIS Secretariat and the same were attached as Error! Reference source not found.Of the Agenda of 29th Meeting.</p> <p>Decision in 29th Meeting :</p> <p>The committee discussed the comments and decided to incorporate the suggestions given by BIS Secretariate at Annexure 2 of the agenda.</p> <p>The committee also decided to send the document for printing after incorporating the accepted changes as mentioned in Annexure 2 of the Agenda.</p>			
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ITEM 5 NEW WORK ITEM PROPOSAL

Proceedings of Previous Meetings	Decision/ Discussion in the 30th meeting	Status in 31st Meeting	Decision in the 31st Meeting
<p>The New Work Item Proposal, received from Smt. Priya Prakash from M/s Eco Pallets Private limited to formulate a new standard on the subject ‘Sustainable dunnage pallet’ was discussed in detail in the meeting.</p> <p>During the deliberations, The committee noted that Pallets introduced by Smt. Priya Prakash are made up of scrap wood with an outside coating of Poly Urea. It also noted that another standard IS 17427 <i>Wooden (Timber) Pallets for Packaging, Storage and Transportation — Specification</i> already exists for wooden Pallets.</p> <p>After discussion, the committee felt the need to gather more data with regards to the material of production of these pallets i.e. Poly Urea and Primer coatings along with standards which can be referred for these materials.</p> <p>Smt. Priya Prakash, hence was requested to provide the committee with the data pertaining to material of production and performance requirements (In addition to the requirements mentioned in IS 17427) and was also requested to study the feasibility to introduce an amendment to existing IS 17427 to include the aforementioned category of pallets. It was also decided</p>	<p>The member secretary informed the committee that Inputs from Smt. Priya Prakash are awaited despite reminder.</p> <p>The committee requested Member secretary to follow up again with Smt. Priya Prakash so that the NWIP can be discussed after receipt of her inputs in the next meeting.</p>	<p>The inputs are still awaited despite reminders. The committee may discuss and decide</p>	<p>The committee decided to drop the proposal.</p>

to discuss the subject in next SC Meeting after receipt of data from Smt. Priya Prakash.			
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ITEM 6 COMMENTS RECEIVED ON INDIAN STANDARDS

6.1 Following comments were received on IS 17427 from Central Marks Department (CMD-III) through email dt. 17/11/2023. The committee discussed the comments and decided as follows :

Comments received from CMD-III	Decision of the committee
<p>1. Cl. 4.1- Pallets have been classified into following 4 categories : Expandable, Non-expandable, Box and Dunnage Pallet. However, it is observed that Box or Dunnage Pallet can also be expandable or Non-expandable. Further, in addition to Box and Dunnage pallets, there may be other types of Pallets. It is requested to review this classification and cover all other types of Pallets as well in the Standard.</p>	<p>The committee discussed the matter and concluded that the dunnage pallets may be expendable or Non-expendable types. Furthermore Specifications and Methods of tests for Box Pallets have been mentioned in IS 4300 and IS 5325 respectively.</p> <p>In view of the above, The committee prepared a draft amendment to IS 17427 and the same is attached as Annexure-1.</p> <p>It was also decided to send this draft amendment for wide circulation of 60 days.</p>
<p>2. Cl. 2 and Cl. 3.5- Box Pallet has been defined at Cl. 3.5 of the Standard. IS 4300 is mentioned in Cl. 2 (List of referred Standards) for Box pallet for through transit of goods. However, IS 4300 has not been referred anywhere else in the Standard. It is requested to review this aspect as to what aspects of IS 4300 are applicable for Pallets as per IS 17427.</p>	<p>The committee discussed the matter and decided to remove all incorrect reference entries that have not been cited anywhere within the standard.</p> <p>In view of the above, The committee prepared a draft amendment to IS 17427 and the same is attached as Annexure-1.</p> <p>It was also decided to send this draft amendment for wide circulation of 60 days.</p>

ITEM 7 PRESENT PROGRAM OF WORK

7.1 The committee noted the present program of work of the committee.

7.2 The committee went through its program of work of SC TED 24 and decided to transfer following subjects to other relevant departments / SCs as mentioned below :

Sl. No.	IS No.	Title	Discussion/Decision of the committee	Transfer to
1.	IS 14233 : 1995	Packaging - Pharmaceutical products - Child resistant tamper - proof packaging for solid dosage forms - Code of practice	<p>This Indian Standard gives recommendations for properties of materials used for non-reclosable packaging and guidance about design features which are thought important for child resistance for packaging of pharmaceutical products.</p> <p>The committee noted that Medical Equipment and Hospital Planning Department (MHD), has a dedicated sectional committee MHD 12 for Hospital Equipment and Surgical Disposable Products which has published standards for packaging of Medical devices and instruments including following :</p> <ol style="list-style-type: none"> 1. IS 18245 : 2023 - Packaging for terminally sterilized medical devices Guidance on the application of ISO 11607-1 and ISO 11607- 2 2. IS/ISO 11607 : 2019 - Packaging for terminally sterilized medical devices - Part 1: Requirements for materials sterile barrier systems and packaging systems 3. IS/ISO 15378 : 2017 - Primary Packaging Materials for Medicinal Products - Particular Requirements for the Application of ISO 9001 : 2015, with Reference to Good Manufacturing Practice (GMP) <p>Considering the expertise of MHD 12 in medical devices packaging, the committee decided to transfer the subject to SC MHD 12.</p>	MHD {SC MHD 12 - Hospital Equipment and Surgical Disposable Products}
2.	IS 10106 (Part 1/Sec 1) : 1990	Packaging code: Part 1 product packaging . section 1 foodstuffs and perishables	<p>This Standard prescribes the requirements and code of practice for safe packaging of</p> <ol style="list-style-type: none"> 1. Milk Products (Flavoured Milk, Dahi, Khoa, Ice cream etc.) 2. Sugar and Honey 3. Edible Starches (Maize, Makhana etc.) 4. Food Grains 5. Bakery Products (Bread, Biscuit etc.) 6. Protein Rich Foods (Fish Protein Concentrates, Sunflower seed, Peanut butter etc.) 7. Spices, Fruits 8. Other Perishable Items <p>The committee noted that None of the sectional committees working under Transport Engineering Department (TED) have expertise regarding foodstuffs and perishables and hence decided to transfer this subject to Food and Agriculture department (FAD).</p>	FAD

3.	IS 10106 (Part 1/Sec 2) : 1986	Packaging code: Part 1 product packaging section 2 tobacco and tobacco products	<p>This Standard prescribes the requirements and code of practice for packaging of tobacco and tobacco products like Cigarettes, Cigars, Bidis, Tendu leaves etc.</p> <p>The committee also noted that SC FAD 4 - Tobacco and Tobacco Products Sectional Committee working under Food and Agriculture department (FAD) have developed sampling and specification standards for these tobacco products i.e. Cigarettes (IS 1577, IS 12942 etc.), Cigars (IS 1769-1,2), Bidis (IS 1925, IS 17778)</p> <p>Considering the expertise of SC FAD 04 in the subject matter, the committee decided to transfer this subject to SC FAD 04.</p>	FAD {FAD 4 (Tobacco and Tobacco Products Sectional Committee)}
4.	IS 10106 (Part 1/Sec 3) : 1986	Packaging code: Part 1 product packaging section 3 textiles, fabrics and allied products	<p>This standard provides the guidelines for packaging textiles, fabrics, and related products, covering various categories such as jute, cotton, wool, man-made fabrics, and miscellaneous items.</p> <p>The committee noted that the Textiles Department (TXD) has dedicated sectional committees for these specific product categories, namely SC TXD 03 (<i>Jute and Jute Products Sectional Committee</i>) and SC TXD 31 (<i>Man-made Fibres, Cotton, and their Products Sectional Committee</i>).</p> <p>These sectional committees have formulated standards for packaging textile rolls, yarns, garments, and associated items, including:</p> <p>TXD 03 :</p> <ul style="list-style-type: none"> - IS 4744: Textiles – Packaging of jute products in rolls – Specification - IS 14342: Textiles - Jute yarn/twine - Packaging code - IS 2873: Textiles – Packaging of jute products in bales – Specification <p>TXD 31 :</p> <ul style="list-style-type: none"> - IS 1347: Specification for inland packaging of cotton cloth and yarn - IS 14463: Textiles - Packaging of cotton yarn and cloth for transportation in freight containers – Code - IS 2194: Code for seaworthy packaging of man-made fibre fabrics - IS 2195: Code for inland packaging of man-made fibre fabrics and man-made fibre yarns - IS 293: Code for seaworthy packaging of cotton yarn and cloth <p>Considering the expertise held by the Textiles Department in this domain, the committee decided to transfer this subject to the Textiles Department.</p>	TXD
5.	IS 10106 (Part 2/Sec 1) : 1985	Packaging code: Part 2 packaging materials section 1 metals	<p>This standard describes the characteristics and properties of the various metals and lays down guidelines for the selection of material for various types of metal containers.</p> <p>The committee noted that Production and General Engineering Department (PGD) has a dedicated sectional committee for Metal Containers working under its purview. (SC PGD 32 - <i>Metal Containers Sectional Committee</i>)</p>	PGD {PGD 38 (Metal Containers Sectional Committee)}

			<p>The committee noted that PGD 38 has published various standards related to Glossary (IS 1394), Method of Test (IS 2471), Method of Sampling (IS 3259) of Metal Containers.</p> <p>Considering the expertise of SC PGD 38 in Metal Containers Domain, The committee decided to transfer this subject to Production and General Engineering Department (PGD).</p>	
6.	IS 10106 (Part 2/Sec 2) : 1983	Packaging code: Part 2 packaging materials section 2 paper and paper board	<p>This standard lays down guidelines on the selection of various types of paper and paper board as packaging materials.</p> <p>The committee noted that Chemicals Department (CHD) has a dedicated sectional committee for Paper based packaging materials working under its purview. (CHD 16 - <i>Paper based packaging materials Sectional Committee</i>)</p> <p>The committee noted that CHD 16 has published various standards on paper based packaging including Methods of test for paper and pulp based packaging materials (IS 4006), Waxed paper for general packaging (IS 3962), Glossary of Terms Relating to Paper- and Pulp-based Packaging Materials (IS 4261), Code Of Practice For Storage Of Paper And Board (IS 4645), Paper, Board, Pulps And Related Terms-Vocabulary (IS 4661), Methods of test for corrugated fibreboard (IS 7063), Glossary of terms relating to paper and flexible packaging (IS 7186) etc.</p> <p>Considering the expertise of SC CHD 16 in Paper Based packaging Domain, The committee decided to transfer this subject to Chemicals Department (CHD).</p>	CHD {CHD 16 (<i>Paper based packaging materials Sectional Committee</i>)}
7.	IS 10106 (Part 2/Sec 3) : 1984	Packaging code: Part 2 packaging materials section 3 plastics materials	<p>This standard describes the properties and characteristics of plastic materials and lays down guidelines for the choice of plastics suitable for different uses.</p> <p>The committee noted that Petroleum, Coal and Related Products Department (PCD) has a dedicated sectional committee for Plastic based packaging materials working under its purview. (PCD 21 <i>Plastics Packaging Sectional Committee</i>)</p> <p>The committee noted that PCD 21 has published various standards on plastic based packaging including :</p> <ol style="list-style-type: none"> 1. IS 7019 : 1998 - Glossary of terms in plastics and flexible packaging, excluding paper 2. IS 10171 : 1999 - Guide on suitability of plastics for food packaging 3. IS 2798 : 1998 - Methods of test for plastics containers 4. IS 7792 : 2023 - Code of practice for handling plastics containers 5. IS 15473 : 2004 - Blow moulded HDPE containers for packaging of edible oils – Specification 6. IS 17480 : 2020 - High Density Polyethylene Multi Squeezable Tube for Packaging - Specification 7. IS 14625 : 2015 - Plastics Feeding Bottles 8. IS 15532 : 2004 - Plastics crates for fruits and vegetables - Specification 9. IS 6312 : 1994 - Polyethylene containers for the transport of materials – Specification 	PCD {PCD 21 (<i>Plastics Packaging Sectional Committee</i>)}

			<p>10. IS 9738 : 2003 - Polyethylene bags for general purposes – Specification</p> <p>Considering the expertise of SC PCD 21 in Plastic packaging Domain, The committee decided to transfer this subject to Petroleum, Coal and Related Products Department (PCD).</p>	
8.	IS 10106 (Part 2/Sec 4) : 1986	<p>Packaging code: Part 2 packaging materials section 4 fabrics</p>	<p>This standard gives details and lays down guidelines for the selection of various types of textile/fabric materials (Jute/Cotton/Man Made Fabrics) used for packaging.</p> <p>The committee noted that the Textiles Department (TXD) has dedicated sectional committees for these specific product categories, namely SC TXD 03 (<i>Jute and Jute Products Sectional Committee</i>) and SC TXD 31 (<i>Man-made Fibres, Cotton, and their Products Sectional Committee</i>).</p> <p>These sectional committees have formulated standards for packaging textile rolls, yarns, garments, and associated items, including:</p> <p>TXD 03 :</p> <ol style="list-style-type: none"> IS 4744: Textiles – Packaging of jute products in rolls – Specification IS 14342: Textiles - Jute yarn/twine - Packaging code IS 2873: Textiles – Packaging of jute products in bales – Specification <p>TXD 31 :</p> <ol style="list-style-type: none"> IS 1347: Specification for inland packaging of cotton cloth and yarn IS 14463: Textiles - Packaging of cotton yarn and cloth for transportation in freight containers – Code IS 2194: Code for seaworthy packaging of man-made fibre fabrics IS 2195: Code for inland packaging of man-made fibre fabrics and man-made fibre yarns IS 293: Code for seaworthy packaging of cotton yarn and cloth <p>Considering the expertise held by the Textiles Department in this domain, the committee decided to transfer this subject to the Textiles Department.</p>	<p>TXD {TXD 03 (<i>Jute and Jute Products Sectional Committee</i>) / TXD 31 (<i>Man-made Fibres, Cotton and their Products Sectional Committee</i>)}</p>
9.	IS 10106 (Part 2/Sec 5) : 1990	<p>Packaging code: Part 2 packaging materials section 5 wood and plywood</p>	<p>This standard lays down general guidelines for the selection of various types of wood and plywood as packaging materials other than forest based cushioning materials.</p> <p>The committee noted that Civil Engineering Department (CED) has a dedicated sectional committee for Timber and related products working under its purview. (CED 09 - <i>Timber And Timber Stores Sectional Committee</i>)</p> <p>The committee noted that CED 09 has published various standards on wood/Timber based packaging including following:</p>	<p>CED {CED 09 (<i>Timber And Timber Stores Sectional Committee</i>)}</p>

			<ol style="list-style-type: none"> 1. Timber species suitable for wooden packaging (IS 6662), 2. wood wool for general packaging purposes (IS 1707), 3. Wooden Boxes For Packaging of Apples (IS 3728), 4. Glossary of wooden packaging terms (IS 6703), 5. wooden crates (IS 3071), 6. Permissible Moisture Content For Timber Used For Different Purposes – Recommendations (IS 287), 7. Methods for field testing of preservatives in wood (IS 4833) among others. <p>Considering the expertise of SC CED 09 in Wood/Timber Based Packaging Domain, The committee decided to transfer this subject to Civil Engineering Department (CED).</p>	
10.	IS 10106 (Part 2/Sec 6) : 1990	Packaging code: Part 2 packaging materials section 6 flexible laminates	<p>This standard gives a general description and guidelines for selection of the materials that are used in the manufacture of laminates and also lists typical applications in packaging for some of those in widest use.</p> <p>The committee noted that Petroleum, Coal and Related Products Department (PCD) has a dedicated sectional committee for Plastic based packaging materials working under its purview. (PCD 21 <i>Plastics Packaging Sectional Committee</i>)</p> <p>The committee noted that SC PCD 21 have formulated various standards related to flexible laminate packaging including:</p> <ol style="list-style-type: none"> 1. IS 7019 : 1998 - Glossary of terms in plastics and flexible packaging, excluding paper 2. IS 11352 : 2018 - Flexible pouches for the packing of vanaspati up to 2 kg or 2 litres - Specification 3. IS 12007 : 1987 - Specification for laminated collapsible tubes 4. IS 12724 : 2004 - Flexible pouches for packing of refined edible oils up to 5 kg or 5 litre – Specification 5. IS 14129 : 1994 - Flexible packaging materials for the packing of vanaspati in 10 kg and 15 kg packs - Specification 6. IS 14636 : 1998 - Flexible packaging materials for packaging of edible oils, ghee and vanaspati 7. IS 15609 : 2005 - Polyethylene flexible pouches for the packing of natural mineral water and packaged drinking water - Specification <p>Considering the expertise of SC PCD 21 in Plastic packaging Domain, The committee decided to transfer this subject to Petroleum, Coal and Related Products Department (PCD).</p>	PCD 21 (<i>Plastics Packaging Sectional Committee</i>)
11.	IS 10106 (Part 4/Sec 1) : 1982	Packaging code: Part 4 packages section 1 metal containers	<p>This standard lays down guidelines on the types, materials, construction and selection of various types of metal containers used as unit packs and bulk packs for materials.</p> <p>The types of metal containers covered in this code have been classified as under :</p> <ol style="list-style-type: none"> a. Tins and cans; b. Drums; c. Metal crates, hampers and trays; and 	PGD {PGD 38 (<i>Metal Containers Sectional Committee</i>)}

d. Metal collapsible tubes and rigid tubes.

The committee noted that Production and General Engineering Department (PGD) has a dedicated sectional committee for Metal Containers working under its purview. (SC PGD 38 - *Metal Containers Sectional Committee*)

The committee noted that PGD 38 has published various standards related to Glossary (IS 1394), Method of Test (IS 2471), Method of Sampling (IS 3259) of Metal Containers among others as follows :

Tins :

1. IS 10325 : 2000 - Square tins -- 15 kg/litre for ghee, vanaspati, edible oils and bakery shortenings -- Specification (Second Revision)
2. IS 10339 : 2000 - Ghee, vanaspati, edible oil tins up to 10 kg/litre capacity -- Specification (Second Revision)
3. IS 1406 : 1995 - Rectangular tins for liquids -- Specification (Fourth Revision)
4. IS 1407 : 1980 - Specification for round paint tins (Second Revision)
5. IS 2087 : 1988 - Specification for square tins for general purposes (Third Revision)
6. IS 2134 : 1981 - Specification for round tins for general purposes (Second Revision)
7. IS 3286 : 1980 - Specification for round grease tins (First Revision)
8. IS 8933 : 1978 - Specification for mess tins
9. IS 916 : 2000 - Square tins for solid products -- Specification (Fourth Revision)

Cans :

1. IS 11078 : 2012 - Round open top sanitary cans for milk powder -- Specification (Second Revision)
2. IS 11079 : 1984 - Specification for metal cans for pan masala and zarda
3. IS 11104 : 2012 - Glossary of terms relating to open top sanitary cans (First Revision)
4. IS 12219 : 1987 - Methods of determination of gross - Lidded capacity of open top sanitary cans
5. IS 14407 : 2023 - Aluminium cans for beverages -- Specification (first revision)
6. IS 18285 : 2023 - Aluminium cans for packaged natural mineral water and packaged drinking water -- Specification
7. IS 2034 : 2012 - Round open top sanitary cans for butter and cheese -- Specification (Second Revision)
8. IS 4638 : 1981 - Specification for seamless rectangular fish cans (First Revision)
9. IS 9396 (Part 1) : 1987 - Specification for round open top sanitary cans for foods and drinks: Part 1 Tinplate (First Revision)
10. IS 9396 (Part 2) : 2012 - Round open top sanitary cans for foods and drinks -- Specification: Part 2 Sizes and general requirements (Second Revision)

			<p>11. IS 9976 : 1981 - Method of sampling of open top sanitary (OTS) cans 12. IS 9991 : 1981 - Specification for condensed milk cans 13. IS 9992 : 1991 - Round and rectangular tins for liquid pesticides -- Specification (First Revision)</p> <p>Tubes :</p> <p>1. IS 3101 : 1995 - Aluminium collapsible tubes -- Specification (Second Revision) 2. IS 7182 : 1973 - Methods of tests for aluminium collapsible tubes 3. IS 7852 : 1975 - Specification for eye ointment tubes, small</p> <p>Drums :</p> <p>1. IS 13997 : 2014 - Drums, large open top -- Specification (First Revision) 2. IS 1783 (Part 1) : 2014 - Drums large, fixed ends -- Specification: Part 1 Grade A drums (Fourth Revision) 3. IS 1783 (Part 2) : 2014 - Drums large, fixed ends -- Specification: Part 2 Grade B drums (Fourth Revision) 4. IS 1784 : 2020 - Screwed Closures for Drums — Specification (Fourth Revision) 5. IS 2474 : 1982 - Specification for metal closures for drums (First Revision) 6. IS 2552 : 1989 - Steel drums (galvanized and ungalvanized) - - Specification (Third Revision) 7. IS 3575 : 1993 - Bitumen drums -- Specification (Third Revision) 8. IS 5682 : 1991 - Open top drums and kegs -- Specification (Second Revision)</p> <p>Considering the expertise of SC PGD 38 in Metal Containers Domain, The committee decided to transfer this subject to Production and General Engineering Department (PGD).</p>	
12.	IS 10106 (Part 4/Sec 2) : 1984	Packaging code: Part 4 packages section 2 paper and paper based packages	<p>This standard lays down guidelines on the construction and selection of various types of paper and paper based packages for various uses.</p> <p>The committee noted that Chemicals Department (CHD) has a dedicated sectional committee for Paper based packaging materials working under its purview. (CHD 16 - <i>Paper based packaging materials Sectional Committee</i>)</p> <p>The committee noted that CHD 16 has published various standards on paper based packaging including Methods of test for paper and pulp based packaging materials (IS 4006), Waxed paper for general packaging (IS 3962), Glossary of Terms Relating to Paper- and Pulp-based Packaging Materials (IS 4261), Code Of Practice For Storage Of Paper And Board (IS 4645), Paper, Board, Pulps And Related Terms-Vocabulary (IS 4661), Methods of test for corrugated fibreboard (IS 7063), Glossary of terms relating to paper and flexible packaging (IS 7186) etc.</p>	CHD {CHD 16 (<i>Paper based packaging materials Sectional Committee</i>)}

			<p>Considering the expertise of SC CHD 16 in Paper Based packaging Domain, The committee decided to transfer this subject to Chemicals Department (CHD).</p>	
13.	IS 10106 (Part 4/Sec 3) : 1984	Packaging code: Part 4 packages section 3 plastics	<p>This standard lays down general guidelines on the use of packaging containers made of plastics materials.</p> <p>The committee noted that Petroleum, Coal and Related Products Department (PCD) has a dedicated sectional committee for Plastic based packaging materials working under its purview. (PCD 21 <i>Plastics Packaging Sectional Committee</i>)</p> <p>The committee noted that PCD 21 has published various standards on plastic based packaging including :</p> <ol style="list-style-type: none"> 1. IS 7019 : 1998 - Glossary of terms in plastics and flexible packaging, excluding paper 2. IS 10171 : 1999 - Guide on suitability of plastics for food packaging 3. IS 2798 : 1998 - Methods of test for plastics containers 4. IS 7792 : 2023 - Code of practice for handling plastics containers 5. IS 15473 : 2004 - Blow moulded HDPE containers for packaging of edible oils – Specification 6. IS 17480 : 2020 - High Density Polyethylene Multi Squeezable Tube for Packaging - Specification 7. IS 14625 : 2015 - Plastics Feeding Bottles 8. IS 15532 : 2004 - Plastics crates for fruits and vegetables - Specification 9. IS 6312 : 1994 - Polyethylene containers for the transport of materials – Specification 10. IS 9738 : 2003 - Polyethylene bags for general purposes – Specification <p>Considering the expertise of SC PCD 21 in Plastic packaging Domain, The committee decided to transfer this subject to Petroleum, Coal and Related Products Department (PCD).</p>	PCD 21 (<i>Plastics Packaging Sectional Committee</i>)
14.	IS 10106 (Part 4/Sec 4) : 1984	Packaging code: Part 4 packages section 4 glass containers	<p>This standard gives guidance on the types of glass containers available for packaging purposes and describe factors for their selection.</p> <p>The committee noted that Chemicals Department (CHD) has a dedicated sectional committee for Glassware Applications working under its purview. (CHD 10 - <i>Glass, Glassware and Laboratoryware Sectional Committee</i>)</p> <p>The committee noted that CHD 10 has published various standards on glass and glass based packaging including :</p> <ol style="list-style-type: none"> 1. IS 6945 : 1973 - Code of practice for packaging glass and glassware 2. IS 8697 : 1977 - Code of practice for export packaging of glass container ware 3. IS 6654 : 1992 - Glass containers - Glossary of terms 	CHD 10 (<i>Glass, Glassware and Laboratoryware Sectional Committee</i>)

			<ol style="list-style-type: none"> 4. IS 11930 : 2018 - Glass containers - Thermal shock resistance and thermal shock endurance - Test methods 5. IS 10516 : 2018 - Method of test for internal pressure resistance of glass containers 6. IS 11539 : 2018 - Method of vertical load test for glass containers 7. IS 12581 : 1989 - Glass containers for domestic fruit preserving - Specification 8. IS 12868 : 1989 - Glass aerosol containers - Specification 9. IS 13650 : 1993 - Glass containers for proteinized food 10. IS 18223 : 2023 - Glass containers - Height and non-parallelism of finish with reference to container base - Test methods <p>Considering the expertise of SC CHD 10 in glass and glass Based packaging Domain, The committee decided to transfer this subject to Chemicals Department (CHD).</p>	
15.	IS 10106 (Part 4/Sec 5) : 1986	Packaging code: Part 4 packages section 5 wood based containers	<p>This standard gives general guidance on use and design of crates and cases made of wood, plywood and wood based material.</p> <p>The committee noted that Civil Engineering Department (CED) has a dedicated sectional committee for Timber and related products working under its purview. (CED 09 - <i>Timber And Timber Stores Sectional Committee</i>)</p> <p>The committee noted that CED 09 has published various standards on wood/Timber based packaging including following:</p> <ol style="list-style-type: none"> a. Timber species suitable for wooden packaging (IS 6662), b. wood wool for general packaging purposes (IS 1707), c. Wooden Boxes For Packaging of Apples (IS 3728), d. Glossary of wooden packaging terms (IS 6703), e. wooden crates (IS 3071), f. Permissible Moisture Content For Timber Used For Different Purposes – Recommendations (IS 287), g. Methods for field testing of preservatives in wood (IS 4833) among others. <p>Considering the expertise of SC CED 09 in Wood/Timber Based Packaging Domain, The committee decided to transfer this subject to Civil Engineering Department (CED).</p>	CED 09 (Timber And Timber Stores Sectional Committee)
16.	IS 10106 (Part 4/Sec 6) : 1986	Packaging code: Part 4 packages section 6 fabrics/textiles	<p>This standard deals with packages, namely, bags, sacks and wrappings made of fabric/textile materials.</p> <p>The committee noted that the Textiles Department (TXD) has dedicated sectional committees for these specific product categories, namely SC TXD 03 (<i>Jute and Jute Products Sectional Committee</i>) and SC TXD 31 (<i>Man-made Fibres, Cotton, and their Products Sectional Committee</i>).</p> <p>These sectional committees have formulated standards for packaging textile rolls, yarns, garments, and associated items, including:</p> <p>TXD 03 :</p>	TXD {TXD 03 (<i>Jute and Jute Products Sectional Committee</i>) / TXD 31 (<i>Man-made Fibres, Cotton and their Products Sectional</i>

			<p>d. IS 4744: Textiles – Packaging of jute products in rolls – Specification</p> <p>e. IS 14342: Textiles - Jute yarn/twine - Packaging code</p> <p>f. IS 2873: Textiles – Packaging of jute products in bales – Specification</p> <p>TXD 31 :</p> <p>f. IS 1347: Specification for inland packaging of cotton cloth and yarn</p> <p>g. IS 14463: Textiles - Packaging of cotton yarn and cloth for transportation in freight containers – Code</p> <p>h. IS 2194: Code for seaworthy packaging of man-made fibre fabrics</p> <p>i. IS 2195: Code for inland packaging of man-made fibre fabrics and man-made fibre yarns</p> <p>j. IS 293: Code for seaworthy packaging of cotton yarn and cloth</p> <p>Considering the expertise held by the Textiles Department in this domain, the committee decided to transfer this subject to the Textiles Department.</p>	Committee }}
17.	IS 10222 : 1982	Code of practice for the packaging of nails	<p>This standard lays down the requirements for packaging of nails for transportation, handling and storage.</p> <p>The committee noted that the Production and General Engineering Department (PGD) has a dedicated sectional committee for Fasteners working under its purview. (SC PGD 37 - <i>General Engineering and Fasteners Standards Sectional Committee</i>)</p> <p>The committee noted that SC PGD 37 has already published a number of standards of Fastener packaging and Nail Specifications including :</p> <ol style="list-style-type: none"> 1. IS 1367 (Part 18) : 1996 - Industrial fasteners - Threaded steel fasteners - Technical supply conditions: Part 18 packaging 2. IS 6730 : 1972 - Specification for felt nails 3. IS 6732 : 1972 - Specification for double point nails 4. IS 6733 : 1972 - Specification for wall and roofing nails 5. IS 6734 : 1972 - Specification for cut lath and lath nails 6. IS 6738 : 1972 - Specification for panel pins and lost head nails 7. IS 723 : 1972 - Specification for steel countersunk head wire nails 8. IS 723 : 2023 - Steel Countersunk Head Wire Nails - Specification 9. IS 725 : 1961 - Specification for copper wire nails <p>As SC TED 24 lacks expertise in terms of Fastener Manufacturers and Users, The committee decided to transfer the subject to SC PGD 37.</p>	PGD 37 (<i>General Engineering and Fasteners Standards Sectional Committee</i>)
18.	IS 11430 : 1985	Code of practice for the packaging of ball and roller bearings	<p>This standard lays down guidelines for the packaging of rolling bearings.</p> <p>The committee noted that it lacks the expertise related to bearings, their constituent parts, as well as the manufacturers and users involved in the bearing industry.</p>	PGD 13 (<i>Bearing Sectional Committee</i>)

			<p>It also noted that Production and General Engineering Department (PGD) has a dedicated sectional committee for Bearings working under its purview. (SC PGD 13 – <i>Bearings Sectional Committee</i>)</p> <p>Considering the expertise of SC PGD 13 related to Bearings, It was decided by the committee to transfer the subject to SC PGD 13.</p>	
19.	IS 12426 : 1988	Code of practice - For wrapping and packing of bicycle components and spare parts	<p>The standard prescribes the code of practice for wrapping and packing of bicycle components.</p> <p>Considering the expertise of SC TED 16 (<i>Bicycles Sectional Committee</i>) on this subject, The committee decided to transfer this subject to SC TED 16.</p>	TED 16 {(<i>Bicycles Sectional Committee</i>)}
20.	IS 12452 : 1988	Code of practice for packaging of microscopes for export	<p>The standard prescribes the code of practice for packaging of microscopes for export.</p> <p>The committee noted that SC PGD 22 (<i>Educational Instruments And Equipment Sectional Committee</i>) working under Production and General Engineering Department (PGD) has published various standards on Microscopes and its mode of packaging including :</p> <ol style="list-style-type: none"> 1. IS 3081 : 1994 - Microscopes - General purposes - Dimensions and marking 2. IS 3099 (Part 12) : 1992 - Microscopes - Slips and slides specification: Part 1 microscope slips: Part 2 microscope slides 3. IS 3686 : 1966 - Specification for student - Type microscope 4. IS 4328 : 1967 - Specification for monocular dissecting microscope 5. IS 4329 : 1967 - Specification for measuring (Travelling) microscope 6. IS 5204 : 1969 - Specification for research microscope 7. IS 8275 : 1976 - Specification for binocular eyepication for microscope 8. IS 15268 (Part 2) : 2002 - Optics and Optical Instruments - Microscopes - Slides - Part 2 Quality of Material Standards of Finish and Mode of Packaging 9. IS 15270 (Part 2) : 2002 - Optics and Optical Instruments - Microscopes - Cover Glasses - Part 2 Quality of Materials Standards of Finish and Mode of Packaging <p>Considering the expertise of SC PGD 22 in the domain of microscopes, The committee decided to transfer the subject to SC PGD 22.</p>	PGD 22 (<i>Educational Instruments And Equipment Sectional Committee</i>)
21.	IS 10097 : 1982	Code of practice for the packaging of metal cutting tools	<p>The code of practice outlines guidelines for packaging metal cutting tools. Requirements include rust prevention treatments before packing, use of common containers for tools of the same type, cushioning to prevent damage during transportation, and waterproof lining.</p> <p>The committee noted that SC PGD 32 - <i>Metal Cutting Sectional Committee</i> working under Production and General Engineering Department (PGD) has published a number of standards on metal</p>	PGD {PGD 32 (<i>Metal Cutting Sectional Committee</i>)}

			cutting tools and have expertise regarding these products and hence decided to transfer this subject to Production and General Engineering Department (PGD).	
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ITEM 8 REVIEW OF PUBLISHED INDIAN STANDARDS

8.1 The committee noted the information given in the agenda.

8.2 The committee noted the standards due for review during 2023-24 and decided as follows :

Sl. No.	IS Number	Year of Publication	IS Title	Remarks	Decision of the committee in 30 th meeting	Status and Decision in 31 st Meeting
1.	IS 6865	1973	Specification for pallets for use in ISO series 1 freight containers	The committee may deliberate and decide.	The committee decided to discuss the standard in next meeting.	The committee decided to reaffirm the standard. The committee also decided to carry on the review work for potential revision of the document.
2.	IS 8005	1976	Classification of unit loads	While preparing this standard Reference was taken from ISO/TC 101 (Sec-186) 290 'Draft ISO proposal for continuous mechanical handling equipment - Classification	The committee decided to adopt latest ISO Standard i.e. ISO 3569:1976 to revise IS 8005.	The committee noted that the revision process for this standard is going on.

				of unit loads. This draft later got published as ISO 3569:1976 "Continuous mechanical handling equipment — Classification of unit loads This". The Committee may deliberate and decide.		
3.	IS 9111	1979	Glossary of terms and classification pertaining to transport packaging	The committee may deliberate and decide.	The committee decided to discuss the standard in next meeting.	The committee decided to reaffirm the document. The committee also decided to carry on the review work for potential revision of the document.
4.	IS 7804	1983	Guide for palletization of tea - Chests (First Revision)	The committee may deliberate and decide.	The committee decided to discuss the standard in next meeting.	The committee decided to reaffirm the standard.
5.	IS 11076	1984	Guide for palletization of cashew kernels for export	The committee may deliberate and decide.	The committee decided to discuss the standard	The committee decided to reaffirm the standard.

					in next meeting.	
6.	IS 7030	1988	Identification of parts for complete, filled transport packages when testing (First Revision)	This standard is aligned with ISO 2206:1987, which is the latest version from ISO. Hence the committee may reaffirm/archive the document.	The committee decided to discuss the standard in next meeting.	The committee decided to reaffirm the document.
7.	IS 8006	1988	Recommendations for handling of timber pallets (First Revision)	The committee may deliberate and decide.	The committee decided to discuss the standard in next meeting.	The committee decided to reaffirm the document.
8.	IS 5325	1989	Box pallets for through transit of goods - Methods (First Revision)	The committee may deliberate and decide.	The committee decided to discuss the standard in next meeting.	The committee decided to reaffirm the document. The committee also decided to carry on the review work for potential revision of the document.
9.	IS 4300	1989	Box pallets for through transit of goods - Specification (First Revision)	The committee may deliberate and decide.	The committee decided to discuss the standard	The committee decided to reaffirm the document.

					in next meeting.	The committee also decided to carry on the review work for potential revision of the document.
10.	IS 6219	1989	Methods of test for general purpose flat pallets for through transit of goods (Second Revision)	<p>This standard was first published in 1971 covering test code for non-expendable flat timber pallets only. First revision of this standard was made in 1977 incorporating bending strength test. In the first revision, the tests for metal pallets were also incorporated. The second revision of this standard was taken up to align it with ISO/DIS 8611 'General purpose flat pallets for through transit of goods - Test methods' issued by the International Organization</p>	The committee decided to revise IS 6219 by adopting ISO 8611-1 : 2021.	The committee noted that the revision process for this standard is going on.

for Standardization (ISO). ISO DIS 8611 later got published as ISO 8611 : 1991 and later was splitted into three parts by ISO TC 51. The latest versions of ISO 8611-1,2,3 are as follows :

1. ISO 8611-1:2021 *Pallets for materials handling — Flat pallets — Part 1: Test methods*

2. ISO 8611-2:2021 *Pallets for materials handling — Flat pallets — Part 2: Performance requirements and selection of tests*

3. ISO 8611-3:2011 *Pallets for materials handling — Flat pallets — Part 3: Maximum working loads.*

				In view of the above, The committee may consider revision of IS 6219 by adopting latest ISO Standards.		
11.	IS 13609	1992	Pallets - Quality of timber - Guidelines	The committee may deliberate and decide.	The committee decided to discuss the standard in next meeting.	The committee decided to reaffirm the document. The committee also decided to carry out comparative study between this standard and IS 17427 : 2020 as IS 17427 also covers the quality requirements of Timber for wooden pallets.
12.	IS 13608	1993	Sheet pallets - Specification	New standards IS/ISO 12776 : 2008 has been published for Slip-Sheets. The committee may deliberate and decide.	The committee decided to discuss the standard in next meeting.	The committee decided to reaffirm the document. The committee also decided to carry out comparative study between

						<p>this standard and the ISO Standard for slip sheets i.e. ISO 12776 : 2008 which has already been adopted as IS/ISO 12776:2008 .</p>
13.	IS 13664	1993	Poly - Pallets for bag storage godowns - Specification	The standard is already under the process of revision. The committee may please note.	The committee Noted.	The committee noted that the revision process for this standard is going on.
14.	IS 13714	1993	Dunnage pallets - Warehousing - Specification	The standard has been superseded by IS 17427 : 2020. The committee may note.	The committee noted.	The committee decided to withdraw this standard.
15.	IS 13823	1993	Guidelines for palletization - General cargo	The committee may deliberate and decide.	The committee decided to discuss the standard in next meeting.	<p>The committee decided to reaffirm the document.</p> <p>The committee also decided to carry on the review work for potential revision of the document.</p>

16.	IS 10106 (Part 1/Sec 4)	1995	Packaging code: Part 1 product pack - Aging section 4 package cushioning design	The committee may deliberate and decide.	The committe e decided to discuss the standard in next meeting.	The committee decided to reaffirm the document. The committee also decided to carry on the review work for potential revision of the document.
17.	IS 16058	2013	Dunnage pallets made from recycled plastic wastes for warehousing applications - Specification	The standard is already under the process of revision. The committee may please note.	The committe e noted.	The committee noted that the revision process for this standard is going on.
18.	IS 16961	2018	Packaging - Vocabulary	In the formulation of this standard, considerable assistance has been derived from the ISO 21067 : 2007 'Packaging — Vocabulary' issued by the International Organization for Standardizatio n (ISO). ISO 21067 : 2007 later on was revised by ISO and was splitted into	The committe e decided to revise IS 16961 by adopting latest version of ISO Standards i.e. ISO 21067- 1:2016, and ISO 21067- 2:2015.	The committee noted that the revision process for this standard is going on.

				<p>two parts as follows : 1. ISO 21067-1:2016 Packaging — Vocabulary — Part 1: General terms, and 2. ISO 21067-2:2015 Packaging — Vocabulary — Part 2: Packaging and the environment terms. In view of the above, the committee may consider revising IS 16961 by adopting the latest versions of ISO 21067-1,2.</p>		
19.	IS 13191	2019	Child - Resistant packaging - Requirements and testing procedures for re-closable packages (First Revision)	<p>This standard is an identical adoption of ISO 8317 : 2015. The 2015 version of ISO 8317 remains current and hence the committee may reaffirm the document.</p>	The committee decided to discuss the standard in next meeting.	The committee decided to reaffirm the document.
20.	IS 3971	2019	Pallets for materials handling - Vocabulary (Third Revision)	<p>This standard is an identical adoption of ISO 445 : 2013. The 2013 version of ISO 445</p>	The committee decided to discuss the standard	The committee decided to reaffirm the document.

				remains current and hence the committee may reaffirm the document.	in next meeting.	
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8.3 The committee deliberated the subjects mentioned in the agenda and transfer the subjects which do not fall under the scope of SC TED 24 to other relevant sectional committees as per **7.2**. The committee also decided to take up the remaining subjects in the Annual Action Plan of TED 24 for 2024-25.

ITEM 9 RESEARCH PROJECTS TO BE TAKEN UP

9.1 The committee noted the guidelines for research project.

9.2 Committee members were requested to suggest subjects which could be taken up as research projects.

ITEM 10 INTERNATIONAL ACTIVITIES

10.1 The committee noted the information given in the agenda.

10.2 The committee noted the information given in the agenda.

ITEM 11 DATE AND PLACE FOR THE NEXT MEETING

11.1 It was decided to fix up the date and place for the next meeting of SC TED 24 in consultation with the chairman, TED 24.

ITEM 12 ANY OTHER BUSINESS

There being no other comments, the meeting ended with a vote of thanks from the Member Secretary to the Chairman and the members.

Annexure – 1

***Draft* AMENDMENT NO. 3 TO IS 17427: 2020 WOODEN (TIMBER) PALLETS FOR PACKAGING, STORAGE AND TRANSPORTATION — SPECIFICATION**

(Page 1, *clause 2*) — Substitute the following for the existing:

‘2 REFERENCES

The following standard contains provisions, which, through reference in this text, constitute provision of this standard. At the time of publication, the edition indicated was valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below:

<i>IS No.</i>	<i>Title</i>
401: 2001	Preservation of timber — Code of Practice (<i>fourth revision</i>)
1141: 1993	Seasoning of timber — Code of Practice (<i>second revision</i>)
3971: 2019	Pallets for materials handling — Vocabulary (<i>third revision</i>)
11215: 1991	Method of determination of moisture content of timber and timber products (<i>first revision</i>)

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[Page 2, *clause 4.1*, (*see* Amendment 1 and 2 also)] — Substitute the following for the existing:

‘4 CLASSIFICATION OF PALLETS

4.1 Depending upon the applications, the pallets are broadly classified into two categories:

- a) Non-expandable Pallets, and
- b) Expandable Pallets.’

(TED 24)