

**BUREAU OF INDIAN STANDARDS**

**MINUTES**

**Wood and Other Lignocellulosic Products** : **Thirtieth Meeting**  
**Sectional Committee, CED 20**

**In Joint Session with:**

**Plywood, Veneers and Adhesives for Wood Products** : **Thirty-first Meeting**  
**Subcommittee, CED 20:1; and**

**Wood, Other Lignocellulosic Based Building Boards** : **Thirty-first Meeting**  
**&Specialty Wood Products Subcommittee, CED 20:6**

**Tuesday, 7<sup>th</sup>November 2023, 1030 h**

**PRESENT**

**Chairperson:** Dr. M. P. Singh, Director, Institute of Wood Science and Technology, Bengaluru

**Member Secretary:** Shri Pradeep Singh Shekhawat, Scientist-D/Joint Director, Bureau of Indian Standards

**Members:**

- 1) Shri Rajeshwar Nair, Balaji Action Buildwell, New Delhi
- 2) Shri S.R. Shukla, Bamboo Society of India, Bengaluru
- 3) Shri Jagannath Das, Century Plyboard India Ltd, Kolkata
- 4) Vinay Chaturvedi, Rep. of Century Plyboard India Ltd, Kolkata
- 5) Shri Dinesh Kumar Ujjainia, Central Public Works Department, New Delhi
- 6) Shri Asokan Pappu, CSIR- Advance Materials and Processes Research Institute (AMPRI)
- 7) Mrs. Hemlata, CSIR-Central Building Research Institute, Roorkee
- 8) Shri Jeeshan Khan, CSIR-Central Building Research Institute, Roorkee
- 9) Shri Prasanta Kar, CSIR-Central Building Research Institute, Roorkee
- 10) Shri Jaydeep Chitlangia, Federation of Indian Plywood & Panel Industry, New Delhi
- 11) Shri Abhishek Chitlangia, Rep. of Federation of Indian Plywood & Panel Industry, New Delhi
- 12) Shri Purshottam Sharma, Greenpanel Industries Limited, Srikalahasti
- 13) Dr R. N. Kumar (In Personal Capacity & Rep. The Western India Plywood Ltd, Kerala)

- 14) Shri Moiz S Vagh, Hunsur Plywood Works Private Limited
- 15) Ms. Sujatha D., Institute of Wood Science and Technology, Bengaluru
- 16) Shri Anand Nandanwar, Institute of Wood Science and Technology, Bengaluru
- 17) Dr Narsimha Murthy, Rep. of Institute of Wood Science and Technology, Bengaluru
- 18) Shri Somit Neogi, National Test House, Kolkata
- 19) Shri Subhash Chandra Jolly, Wood Technologist Association

**Invitees:**

- 1) Shri Nitin Vaze, Sleek Boards Marketing Services LLP

**Item 0 OPENING REMARKS BY THE ACTING CHAIRPERSON**

The Chairperson extended a hearty welcome to all the members of Sectional Committee CED 20 and its Sub-Committees present in this 30<sup>th</sup> meeting of Wood and Other Lignocellulosic Products Sectional Committee, CED 20 in joint session with its Subcommittees.

He mentioned that this Committee is very important, as it deals with the development/ revision of Indian Standards related to wood and other lignocellulosic panel products which provide quality aspects/ guidelines to a major part of the Indian wood/lignocellulosic product industry. He emphasizes that the revision of Indian Standards needs to be taken-up to align with industrial practices, avoid hindrances to the innovations and as the requirements in the standards must be defined in a manner that it meets the demand of the consumers. He also added that BIS and industry associations must support or take projects at R&D institutes for validation of the innovations that further may be included in the standards after R&D work. In the last, he requested to the Committee members to work in an effective and constructive way along with the inputs from different stakeholders for the revision/ development of the Indian Standards.

With the above remarks, the Chairman suggested to go ahead with other items of the Agenda.

**Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING**

There being no comments, the Committee confirmed the minutes of the 29<sup>th</sup> meeting of Wood and Other Lignocellulosic Products Sectional Committee CED 20 held on 04<sup>th</sup> July, 2023 in joint session with Plywood, Veneers and Adhesives for Wood Products Subcommittee CED 20:1 and Wood, Other Lignocellulosic Based Building Boards & Specialty Wood Products Subcommittee CED 20:6, as circulated.



## Item 2 DRAFT INDIAN STANDARDS/ AMENDMENTS FOR FINALIZATION

### 2.1 IS 303 - Plywood for General Purposes — Specification

The Committee considered the draft [CED20(22829)WC] along with the comments received. The comments were discussed in depth, and the decision against each comment has been given in **Annex 1**. After the discussion, the Committee finalized the draft for adoption and publication with the suitable modifications in the required clauses of the draft as per the decisions on the comments.

The Committee also authorized BIS Secretariat to take care of any consequential changes and other modifications/improvements required; and any other changes that may be required in consultation with the Chairperson.

During the meeting, the representative of FIPPI informed the committee about the availability of plywood that does not meet the requirements specified in IS 303, even in its revised draft. This plywood is utilized in low-end applications, including single-use scenarios. The representative requested the committee to prepare a separate standard for plywood used in such utilities.

As the proposal from IWST vide email dated 06/11/2023 (copy of email is given at Annex 6) received just one day before the Meeting for inclusion of rejection in IS 303, IS 710 and IS 4990 as Reject, the proposal was tabled during the meeting for discussion.

During the discussion, BIS Secretariate informed to the Committee that ISI mark scheme is a “Conformity assessment scheme for Grant of license to use or apply Standard Mark (ISI Mark) on goods and articles conforming to Indian Standard”, so it will not be possible to mark any non-conforming product as ISI mark under ISI mark scheme of BIS. However, plywood that is not conforming to IS 303 or IS 710 or IS 4990 but can be utilized for temporary applications such as packaging, temporary frame works or single use scenarios may be considered under separate new Indian Standard on plywood of low-end applications and single use scenarios. The new Indian Standard may have different grades like CWR grade and any other grade with minimum bare requirements that even required for plywood with single use applications.

After discussion, the Committee decided to finalize the draft standards for revision of IS 303, IS 710 and IS 4990, and to formulate a separate new Indian Standard on plywood for low-end and single use applications. Consequently, the Committee requested FIPPI and other members to provide inputs for preparation of the new draft standard, also provide the information on international practices and standardization related to plywood for low-end and single use applications.

The Committee also requested IWST to provide updated list of Agro forestry timber species for Annexure to IS 303.

## **2.2 IS 710 - Marine Plywood — Specification**

The Committee considered the draft [CED20 (22828)WC] along with the comments received. The comments were discussed in depth, and the decision against each comment has been given in **Annex 2**. After the discussion, the Committee finalized the draft for adoption and publication with the suitable modifications in the required clauses of the draft as per the decisions on the comments.

The Committee also authorized BIS Secretariat to take care of any consequential changes and other modifications/improvements required; and any other changes that may be required in consultation with the Chairperson.

## **2.3 IS 4990 - Plywood for Concrete Shuttering Works — Specification**

The Committee considered the draft [CED20 (22830)WC] along with the comments received. The comments were discussed in depth, and the decision against each comment has been given in **Annex 3**. After the discussion, the Committee finalized the draft for adoption and publication with the suitable modifications in the required clauses of the draft as per the decisions on the comments.

The Committee also authorized BIS Secretariat to take care of any consequential changes and other modifications/improvements required; and any other changes that may be required in consultation with the Chairperson.

## **2.4 Amendment No. - 4 to IS 1734 (Part 4) - Methods of Tests for Plywood - Part 4 - Determination of Glue Shear Strength (second revision)**

The Committee considered the draft amendment [CED20 (22886)WC]. The draft amendment was discussed again and then finalized for adoption and publication.

The Committee also authorized BIS Secretariat to take care of any consequential changes and other modifications/improvements required; and any other changes that may be required in consultation with the Chairperson.

## **Item 3 DRAFTS FOR REVISION OF INDIAN STANDARDS UNDER PREPERATION**

**3.1 IS 3087: 2005 Particle Boards of Wood and Other Lignocellulosic Materials (Medium Density) for General Purposes — Specification (second revision); AND**

**3.2 IS 12823: 2015 Prelaminated Particle Boards from Wood and Other Lignocellulosic Material — Specification (first revision)**

The Committee considered the working drafts prepared by FIPPI for revision of IS 3087 (given in Annex 9 of the Agenda) & IS 12823 (given in Annex 10 of the Agenda), along-with the comments received from Balaji Action Buildwell Pvt Ltd. and Century Plyboards India Ltd. on these working drafts and also the comments received from Shri Nitin Vaze, Sleekborads Marketing Services LLP.

As these drafts were never discussed in any of the meeting, the Committee decided to constitute an expert group for discussion on these drafts as well as the comments received and provide recommendation to the Committee for further discussion. The composition of the expert group for standards related to Particle Boards will be as follows:

- 2) Dr. S. K. Nath, In-Personal Capacity (*Convener*)
- 3) Shri Anand Nandanwar, IWST, Bengaluru
- 4) Dr C. N. Pandey, Rep. Federation of Indian Plywood & Panel Industry
- 5) Shri Rajeshwar Nair, Balaji Action Buildwell
- 6) Shri Jagannath, Century Plyboards India Limited
- 7) Dr. Purshottam, Greenpanel Industries Limited
- 8) Dr. Asokan Pappu, CSIR- AMPRI
- 9) Shri Nitin Vaze, Sleek Boards Marketing Services LLP

#### **Item 4 COMMENTS ON INDIAN STANDARDS**

##### **4.1 IS 14616: 1999 Laminated Veneer Lumber – Specification**

The Committee considered the comments received from Shri Nitin Vaze, Sleek borads Marketing Services LLP on IS 14616. These comments were placed in the Agenda now only, so the Committee requested to members to examine these comments and provide their inputs by the end of January, 2024. So that the same can be discussed in the next meeting for further discussion and decision to be taken.

##### **4.2 Hybrid Composite Wood and Wood Substitute**

The Committee again requested Dr. Asokan Pappu, CSIR- AMPRI to provide the working draft on Hybrid Pre-Laminated Particle Board, and the same will be first discussed in the expert group constituted in *item 3* of the MoM.

#### **Item 5 DRAFTS FOR NEW INDIAN STANDARDS UNDER PREPERATION**

##### **5.1Standards on Bamboo Based Wood/Log/Lumber and Bamboo Floorings**



The Committee considered the report and initial draft submitted by BIS intern Ms. Hizana D S from NIT Calicut. For discussion on the report and initial draft, and further drafting of standard on Bamboo Wood/Log/Lumber based on the report, an expert group has been constituted by the Committee. The composition of the expert group for Bamboo Wood/Log/Lumber will be as follows:

- 1) Dr. S. K. Nath, In-Personal Capacity (*Convener*)
- 2) Shri Anand Nandanwar, IWST, Bengaluru
- 3) Dr C. N. Pandey, Rep. Federation of Indian Plywood & Panel Industry
- 4) Shri S.R. Shukla, Bamboo Society of India, Bangalore
- 5) Shri Anil Mutha, Mutha Industries Pvt. Ltd.
- 6) Shri Somit Neogi, National Test House, Kolkata
- 7) Shri Arjan Bhusri, Timpack Pvt. Limited, Byrnihat

## **5.2 New Standard for Medium Density Fibre Board Flooring Specification & Requirements**

The Committee noted that since last one year there has been no progress in R&D proposal from the industry and its association side. In view of the same, the Committee requested BIS to consider this as a R&D project as per their present R&D guidelines.

### **Item 6 RESEARCH AND DEVELOPMENT TO BE TAKEN UP – Fire MDF, Desiccator method, Particle Board Standards, MDF Flooring, IS 848.**

Member Secretary explained the latest Research and Development Guidelines of BIS to the Committee Members in-detail. He also informed about the latest directive of BIS which were shared by BIS to all the technical committee members. As per these directives “no new standard should be formulated or existing standard reviewed without an ARP or R&D project, unless the Sectional Committee (SC) takes a conscious call, which is to be recorded in the minutes of the SC meeting, stating that the data and information available is sufficient and does not warrant any further research”.

In view the above, after discussion it has been proposed to take following items/topics under R&D projects (as per BIS R&D guidelines):

- 1) R&D for development of test methodology and requirements for fire retardant particle boards/ MDF boards. - (Input already received from IWST)
- 2) R&D for development of test methodology for assessing formaldehyde emission by desiccator method. - (Input already received from IWST)
- 3) R&D for varieties of Bamboo Wood flooring available/used in India, and testing for the desired properties. The output may be used for formulation of new Indian Standard on Bamboo Wood Flooring Specification,

- 4) R&D for varieties of Medium Density Fibre Board Flooring available/used in India, and testing for the desired properties. The output may be used for formulation of new Indian Standard on Medium Density Fibre Board Flooring Specification,
- 5) R&D for revaluation of physical properties of Block Board made with short rotation **plantation** timber, and other utility of block boards in Indian Scenario which may not be covered in the existing Indian Standard. This R&D output may support the revision of IS 1659: 2004 "Block Boards - Specification",
- 6) R&D for varieties and thicknesses of Decorative plywood available/used, their construction and desired properties. This R&D output may support the revision of IS 1328: 1996 "Veneered Decorative Plywood -Specification",
- 7) R&D for revaluation of physical properties of different types of Particle Boards made with short rotation **plantation** timber, properties with respect to manufacturing process, and other utility of particle boards in Indian Scenario which may not be covered in the existing Indian Standard. This R&D output may support the revision of Indian Standard Specifications on different type of Particle Boards,
- 8) R&D for varieties of Synthetic Resin adhesives available/used in manufacturing of different types of Plywood and testing for the desired properties. This R&D output may support the revision of IS 848: 2006 "Synthetic resin adhesives for plywood (Phenolic and Aminoplastic) - Specification".
- 9) R&D for identification of varieties of different type of plywood as per their utility, their construction and testing for desired properties, which are not covered in any of the existing Indian Standard on Plywood.

The Committee requested all the members to provide inputs for the preparation of Terms of References (ToR)s for the above mentioned topics in the attached format (please see the attachment template for ToR) in-line with the BIS R&D guidelines. So that, after getting inputs, draft ToRs may be prepared for discussion and finalization in the next meeting of CED 20 Sectional Committee please. Copy of R&D guidelines and Template for ToR are given in **Annex 4 & Annex 5** respectively.

#### **Item 7 PROGRAME OF WORK**

The Committee noted the POW details given in the Agenda.

#### **Item 8 INTERNATIONAL STANDARDIZATION**

The Committee noted the details of ISO Ballots casted and other information as given in the Agenda.



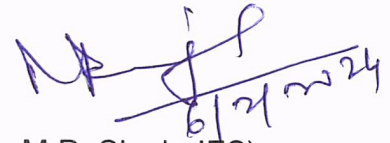
**Item 9 COMPOSITION OF SECTIONAL COMMITTEE AND SUB-COMMITTEES**

The Committee noted and reviewed the present composition of the Sectional Committee and the Sub-Committees as given at Annex 18 of the Agenda respectively and once again requested the members to participate and contribute in the work of the Committee, CED 20. The Committee requested all the member organizations to review their nominations and send the updated nomination details to BIS Secretariat (email – ced20@bis.gov.in) as per Annex A of the Minutes of the Meeting.

**Item 11 ANY OTHER BUSINESS**

The members joined the Member-Secretary in thanking the Chairman for guidance and smooth conduct of the meeting leading to fruitful discussions and decisions. The Member Secretary also thanked all the members for their keen interest and valuable inputs during the deliberations in the meeting.

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(Dr. M.P. Singh, IFS)  
Chairperson, CED-20