

टीएनएमडी

संदर्भ: टीएनएमडी/एसपी/4

07 जून 2024

विषय: इंजीनियरिंग और अन्य कॉलेजों के अंतर्गत मानक क्लबों के लिए पूरक दिशानिर्देशों में संशोधन संख्या 1 (जून 2024) दिनांक 07-03-2023

भारतीय मानक ब्यूरो के सभी विभागों/क्षेत्रीय कार्यालयों/शाखा कार्यालयों/प्रयोगशालाओं से अनुरोध है कि उपरोक्त विषय से सम्बंधित सलग्न प्रपत्र का अनुपालन हेतु अवलोकन करे।

(कुश शर्मा)
वैज्ञानिक डी (टीएनएमडी)

वैज्ञा.ई एवं प्रमुख(टीएनएमडी)

TN& MD

Ref: TNMD/SP/4

07 June 2024

Subject: Amendment No.1 (June 2024) to Supplementary Guidelines for Standard Clubs Under Engineering & Other Colleges dated 07 March 2023

All the Department at BIS HQs/Regional Offices/ Branch Offices/Labs may kindly see the attached circular on the subject mentioned above for compliance.

(Kush Sharma)
Sc 'D' (TNMD)

Sc-E & Head (TNMD)

Circulated to all Department at HQs/ROs/BOs/Labs(Through Intranet)

**Bureau of Indian Standards
Think, Nudge & Move Department**

Our Ref: TNMD/SP/4 June 2024

Subject: Amendment No.1, (June 2024) to Supplementary Guidelines for Standard Clubs under Engineering & Other colleges dt. 07 March 2023

Based on the experiences of Standard Clubs under Engineering & Other colleges and the inputs received from ROs/BOs, this supplementary guidelines introduce an expanded scope of activities for Standards Clubs in Engineering & Other colleges. This is in addition to the activities specified in clause 3.2 of circular reference no. TNMD/SP/4, dated 7 March 2023.

The Manak Challenge

This competition aims to inspire engineers to think critically and develop solutions that not only meet industrial requirements but also adhere to standardization principles. The Manak Challenge provides a unique learning experience for engineering students. It fosters critical thinking, problem-solving, and teamwork skills, while emphasizing the importance of sustainable practices in engineering design.

a. Scope of activity:

This activity encompasses scientific case studies of various products manufactured by Large Scale industries. The students are assigned critical areas related manufacturing, testing, quality and safety issues faced by the industries and where the industries seek solutions or desire some improvements. This exciting event will prepare the students with real world problems and also help industries tap the ideas of young and bright minds.

b. Exposure Visit to Industry:

The Standards Club will initially undergo an Exposure Visit to a Large-Scale industry related to the subject area.

During the visit, the industry shall give a detailed presentation of various aspects of manufacturing, testing, quality assurance, safety and new technologies etc. in the industry. As a part of the same presentation, the industry shall highlight the problem statements faced by them in the regular processes like bottlenecks in production, difficulties in testing, reducing cost, implementation of new technologies etc. Apart from the issues highlighted by the industry, the students may also identify their own areas of work related to their interest in improvements and suggestions.

Furthermore, BIS officials will deliver a comprehensive presentation on relevant standards. This presentation will cover the scope of each standard in detail, provide an in-depth overview of the raw materials used, and describe the various test methods employed to ensure the quality of the product. Additionally, they will explain the manufacturing processes involved, offering insights into each stage to ensure adherence to the prescribed standards.

The students shall form themselves into teams of about 5 members or as relevant to work on the above problems as case studies.

c. Case Study:

The team of students shall work on the various aspects related to their respective problem statements and identify the solutions as relevant to the industry and also adhering the requirements of Indian Standards specified for the product. The cost constraint shall also be kept in mind for interest of common consumer.

The process involved in the case study may be:

- i) Literature Survey from various technical papers, magazines, articles, various Indian and International Standards etc.
- ii) Survey of consumers (questionnaire may be prepared by the student members of Standards Clubs). Survey may be conducted among the other students of various institutes and common consumers alike.
- iii) Study of latest relevant technologies in the field.
- iv) Comparative analysis of the process of manufacture of the product followed by other industries.
- v) Any other aspects as deemed relevant by the students

The BIS Representative/Mentor/Resource Person shall support the students for identification of subjects, their case studies etc. and at each stage for effective conduct of whole activity.

d. Final Presentation:

The final presentation shall be organized at the institution after two weeks (but not later than 30 days) from the date of exposure visit. Each team of student members shall present the outcome of the case study carried out by them.

During the presentation, the following panel of judges may evaluate the presentations:

- i) BIS Official
- ii) Industry Representative
- iii) Mentor
- iv) Other invitees from the institute
- v) Resource Person or any other technically competent person as identified by the BOs

e. Prizes:

The teams will be ranked based on the evaluation and the following prize money may be distributed:

- First Prize: 10,000/-
- Second Prize: 7,500/-
- Third Prize: 5,000/-
- Consolation Prize: 2,500/-

Participation certificate may be provided to all student members.

The announcement of winners may be published in the institute website, notice boards, annual books, BIS BO Webpage, BIS Branch Annual Report.

f. Outcome

Any relevant development arising from the activity worth sharing with Technical Committee may be noted by BOs and forwarded to the relevant TC.