

BUREAU OF INDIAN STANDARDS**Minutes**

<i>Name of the Committee</i>	<i>No. of Meeting</i>	<i>Day</i>	<i>Date</i>	<i>Time</i>	<i>Venue</i>
Transmitting and Receiving Equipment for Radio Communications Sectional Committee, LITD 12	8th	Friday	27th May 2022	1100 h To 1330 h	Webex https://bisindia.webex.com/bisindia/j.php?MTID=m45063d08274194f30c4823142350579b Meeting number: 2516 449 6791 Password: 8@12

List of participants is given in **Annex 1**.

CHAIRPERSON: Shri Ajaya Gupta, E-in-C, AIR

MEMBER SECRETARY: Shri Kshitij Bathla

ITEM 0 GENERAL

- 0.1** Member Secretary extended a warm welcome to the members present in the meeting and enquired about their well-being.
- 0.2** Shri Ajaya Gupta, E-in-C, AIR, Chairperson LITD 12 “Transmitting Equipment for Radio Communications” welcomed all the members and enquired about their well-being.

ITEM 1 FORMAL CONFIRMATION OF THE MINUTES OF THE LAST MEETING

- 1.1** Member secretary informed that the minutes of the last meeting of “Transmitting Equipment for Radio Communication” Sectional Committee, LITD 12 held on 17th September 2021 were circulated to all its members vide mail dated 29th Sep 2021. No comments have been received. The committee **formally confirmed** the minutes.

ITEM 2 SCOPE & COMPOSITION OF SECTIONAL COMMITTEE

- 2.1** The committee noted the information as given at item 2.1, 2.2 and 2.3 of the agenda.
- 2.2** The committee reviewed the composition as given in Annex 1 of the agenda. Decision and discussion are as follows:
- Member secretary requested AROI representative to provide revised nominations as there is delivery failure for Mr. Ved Prakash Gupta. AROI representative confirmed to provide revised nominations.
 - Mr. Rupesh informed that Ms. Priyanka Meena has left BECIL so she should be removed from the composition.
 - CEAMA representative was requested to confirm their interest to contribute and to share CEAMA nominations for LITD 12. CEAMA representative confirmed to provide response.
 - Member secretary informed that MeitY representative informed him that his division has been changed so new nominations should be sought from MeitY.

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- e) Mr. Rabindra Nath Bhandari enquired that TRAI is regulatory body and this committee is for standardization so he would like to understand TRAI's role. He informed that he has gone through all the documents circulated however, these were not found to be relevant. Member secretary informed that standardization is collaborative process which involves all relevant stakeholders and regulators are the one of the major stakeholders, further many a times regulatory aspects are very important for standardization.

Mr. Rabindra Nath Bhandari agreed to Member secretary's observations and emphasized to send relevant document highlighting the part for which inputs are required that may be related to regulations. Member secretary informed that as per procedure each draft standard/document pertaining to the committee is circulated to all committee members and the stakeholders are the best Judge to convey if the document is relevant to them or not. Chairperson expressed that TRAI has been suggesting various standards for development of proper ecosystem like in the case for digital terrestrial transmission of TV so TRAI's presence is essential.

Member secretary informed that now with each Preliminary and WC draft a synopsis is being sent to members which could help stakeholders in identifying the relevance of the document. Chairperson and Mr. Rabindra Nath Bhandari conveyed that synopsis is a good option. Member secretary suggested that based on the further feedback, committee may discuss again in subsequent meetings and all agreed to the suggestion.

- f) To approach the organizations where participation is 0/3 and 1/3.

ITEM 3 ACTIONS ARISING OUT OF PREVIOUS MEETING

3.1 The committee considered the information as given at item 3.1. Member secretary informed about the background of this item. Dr. Rupesh M Das Convener, LITD 12/Panel 1 informed that in last meeting it was conveyed to co-opt new members as apart from Dr. Basu no other member had provided inputs. He informed that some of members who are present in this meeting seems to be dealing with research activity related to ionization radiation so they would be relevant to the Panel's work. He suggested to change composition of Panel.

Dr. Ananjan Basu, IIT Delhi informed that he feels there is lack of clarity of goal. He also suggested that for this topic Prof. Girish Kumar is probably the most appropriate expert and he may be approached.

Member secretary informed that in last meeting Panel was authorized to co-opt/withdraw as per requirement, but it seems there was no progress in this regard.

Mr. Uday Chawla informed that AIR and private radio operators function in the perimeters outside the city. He suggested the proposed work might not be relevant for AIR and private radio operators, it may be relevant for community radio stations who may operate out of universities. He suggested to look into this aspect as well. He asked if it's just theoretical exercise then why are we doing this?

Chairperson expressed that this is not just theoretical exercise as there are researchs undergoing all over the world related to effect of radiations of cell tower, radios etc. Panel is not expected to do research, panel is expected to study the existing research work and to suggest if standard for safe limits for radiations need to be developed and if required, then is the exiting research work sufficient to develop standard. He requested Dr. Basu for his views.

Dr. Ananjan Basu conveyed that unfortunately as on today there is no clear method to scientifically and objectively establish that at which power radiation which problem would occur. There are some indirect methods but there is no clear method to scientifically and objectively establish that at which power radiation which problem would occur. He asked if the goal is to specify guidelines which specifies acceptable power radiation level.

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Dr. Venkata Ratnam conveyed that Electromagnetic bio interaction is one of the important issues and emission and specific absorption levels are very much required. He conveyed his interest to contribute to Panel work.

Dr. Niranjana Prasad also conveyed his interest to contribute to Panel work.

Regarding ultimate objective member secretary suggested that this could be decided only based on the deliberation of Panel. Panel's deliberation should be related to following aspects:

- a) Is there any requirement for any standard for requirement or guidelines in area of "Non-ionizing radiation hazards in the frequency range from 10 MHz to 300 000 MHz" or existing available documentation is sufficient?
- b) Is it possible to develop any standard for requirement or guidelines in this area?

The committee deliberated and decided as follows:

- a) Co-opted KL University and IETE in LITD 12/Panel 1.
- b) Panel 1 may co-opt/ withdraw members as per requirement.
- c) Panel to study existing research work, regulations related to this area and deliberations held in today's LITD 12 meeting and to provide Panel recommendation at the earliest for further course of action to be taken by the committee.

3.2 Status report of action taken on documents based on the last meeting decision

3.2.1 The committee noted the information as given at item 3.2.1 of the agenda.

3.2.2 The committee noted the information as given at item 3.2.2 of the agenda.

3.2.3 The committee considered the information as given at item 3.2.3 of the agenda. The committee decided that based on the inputs received, the decision for publication of these documents would be taken subsequently.

3.2.4 **IS 13409: 1992 "High frequency Trans receivers"**

The committee considered the information as given at item 3.2.4 of the agenda.

Member secretary informed that no input has been received from 'The Amateur Radio Society of India (ARSI)' and 'The National Institute of Amateur Radio (NIAR)'. Member secretary informed that he has also requested TEMA to provide information whether these Transreceivers are manufactured in India or these Transreceivers are being used by the Industry however, inputs are awaited.

Member secretary informed that he has discussed this standard with Head (LITD) and while discussing this we came across a specification (issued in January 2013) issued by Directorate of Coordination Police Wireless (DCPW), Ministry Of Home Affairs This specification indicates that Transreceivers are being used by DCPW.

Member secretary informed that DCPW is member of LITD 12 and he tried to contact DCPW representative however, he was unable to get response from DCPW representative.

It was informed that these types of receivers might be in use by HAM radio operators as well. The committee was of the view that IS 13409 need revision for use in the present context however, we need to ascertain whether there is need for such Indian standard or not?

It was also informed that BEL manufactures Equipment in HF band for use of Defense forces and they refer military standards (MIL-STD) and Joint Services Specifications (JSS).Further It was informed that these types

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of equipment are mainly for use by defense and HAM radio operators and these are not to be used by general public. Member secretary informed that based on the requirement and proposal, standards could also be developed for products which are primarily used by a specific sector like defense forces etc. Member secretary informed about recently developed Indian standards for 'Bullet resistant jackets' and 'Bullet resistant Morcha' which are primarily meant for defense and paramilitary forces.

The committee deliberated and decided as follows:

- i) To approach DCPW, DGQA and BEL and to seek their view whether there is need for latest Indian standard for High Frequency Transreceivers.
- ii) In case of there is no requirement for latest Indian standards for High Frequency Transreceivers then IS 13409 would be recommended for withdrawal.

3.2.5 The committee noted the information as given at item 3.2.5 of the agenda.

ITEM 4 PRESENT POSITION OF WORK

4.1 The committee noted the information as given at item 4.1 of the agenda.

ITEM 5 REVIEW/REAFFIRMATION OF PUBLISHED INDIAN STANDARDS

5.1 The committee considered the information as given at item 5.1 and decision of committee is given in **Annex 3**.

ITEM 6 INTERNATIONAL ACTIVITIES

6.1 The committee considered the information as given at item 6.1. Members were requested to consider the list of standards published by IEC/TC 103 and to inform the standards to be considered for adoption as Indian standard.

ITEM 7 INFORMATION ON E-SALE OF STANDARDS BY BIS

7.1 The committee noted the information as given at item 7 of the agenda.

ITEM 8 MANAKONLINE

8.1 The committee noted the information as given at item 8.1 of the agenda.

ITEM 9 NATIONAL INSTITUTE FOR TRAINING IN STANDARDISATION (NITS)

9.1 The committee noted the information as given at item 9.1 of the agenda.

ITEM 10 DATE AND PLACE FOR THE NEXT MEETING

10.1 It was decided that next meeting may be held in December 2022. Final date and location will be decided in consultation with the chairperson.

ITEM 11 ANY OTHER BUSINESS

11.1 There being no other points for discussion, meeting ended with a vote of thanks to the Chair and to the members. The committee also appreciated the members who had provided inputs and hoped all members would contribute and provide their inputs in time-bound manner.