

TERMS OF REFERENCE FOR THE R&D PROJECT
(LITD 07 “Audio, Video and Multimedia Systems and Equipment, Sectional Committee”)

1. Title of the Project: Validation of ‘Operating life test’ for Television (TV) as given in IS 18112

Duration: 4 Months

2. Background:

- a) LITD 07 “Audio, Video and Multimedia Systems and Equipment, Sectional Committee” is the committee for development of Indian Standards including safety requirements relating to:
 - i) Audio, video and multimedia systems and equipment
 - ii) Acoustics, electroacoustics and related instruments
- b) IS 18112 ‘Digital Television Receiver (DTV) for Satellite Broadcast Transmission - Specification’ is Indian standard for Television. IS 18112 has a test requirement ‘OPERATING LIFE TEST’. This requirement is like endurance test requirement and as per this requirement, test needs to be conducted for 48 hours.
- c) This test was incorporated based on the existing standards and further data gathered during formulation of IS 18112. There is a need to further validate this test requirement and to recommend changes.
- d) Based on the outcome of study, the operating life test requirement of IS 18112 would be considered for modification.

3. Objective: To review ‘OPERATING LIFE TEST’ requirement of IS 18112.

4. Scope:

- a) Examine, validate, recommend changes required in the ‘OPERATING LIFE TEST’ requirement of IS 18112.

5. Deliverables:

- a) Study report covering all the aspects mentioned in the scope, including following:
 - i. Compilation, comparative analysis and summary of requirements mentioned in various documents, standards, research papers;
 - ii. Response to questionnaires of discussions;
 - iii. Validation, changes required, if any in the ‘OPERATING LIFE TEST’ requirement.

6. Research Methodology:

- a) Literature survey:
 - i. research papers, existing studies carried out in this area
 - ii. standards developed, referred by other countries

- b) Discussions with TV manufacturers (at least five), Testing labs (at least five) and collect feedback, information through structured questionnaires.
- c) Testing of samples.
- d) Visits to the relevant Institutes/Industries.

7. Requirement for the CVs:

The individuals, organizations engaged in this project should have working knowledge, experience related to the development, maintenance, testing of Television Sets.

8. Timeline and Method of Progress Review:

Timeline starts from the day of award of R&D project

Project Initiation (Month 1): The project officially begins with a detailed review of existing literature in this area.

Data Collection and Mid Term review (Month 2): Discussion with Testing Labs, Manufacturers and Testing of samples. Draft report is submitted for mid-term review by end of 2nd month to assess progress and adjust methodologies as necessary.

Report Submission (Month 3-4): Final project report is submitted.

9. Support BIS will Provide:

BIS will offer guidance and access to existing relevant Indian and ISO/IEC standards, details of BIS licensees, BIS recognized labs. Additionally, BIS may facilitate exchange with TV manufacturers.

Contact Details:

Sh. Kshitij Bathla, Sc-C, LITD (litd7@bis.gov.in)