

TEMPLATE FOR THE TERMS OF REFERENCE FOR THE R&D PROJECTS

(Refer to the Guidelines on R&D Projects issued vide note SCMD/R&D dated xx-09-23)

Duration : 6 Months

1. Title of the Project: Study for determination of Operating life of Television Sets

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 of Artificial Intelligence and Big Data.

b) TVs for their safety requirements are already covered under Compulsory Registration scheme under per IS 616. IS 18112 ‘Digital Television Receiver for Satellite Broadcast Transmission Specification’ has been also mandated under Compulsory Registration scheme. A detailed R&D Project is proposed to find out optimal life of Television sets as well as test methods for such a requirement. This requirement may be considered in future revisions of IS 18112.

3. Scope: Scope is to study and find out the optimal life of a Television set as well as to standardize test method to validate such requirement.

4. Expected Deliverables:

a) to quantify the optimal life of Television set in terms of hours of operation or year as may come out based on the study

b) to standardize test method to validate the optimal life of TV

c) To make changes in IS 18112 based on the outcome of study.

5. Research Methodology:

- Study of Research papers in this area,
- Testing of samples,
- Visits to the relevant Institutes/Industries

6. Requirement for the CVs:

The individuals/organizations engaged in this project should have working knowledge/experience related to Development/Maintenance/Testing of Television Sets.

7. Timeline and Method of Progress Review:

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

Data Collection and Testing (Month 2-5): Discussion with Testing Labs, Manufacturers, Testing of samples etc.

Submission of progress report by end of 3rd month.

First Draft Submission (Month 6): The first draft of the project report is submitted.

8. Support BIS will Provide:

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