Bureau of Indian Standards

RECENT IMPORTANT INDIAN STANDARDS PUBLISHED BY BIS IN AREA OF ELECTRONICS

- **Indian Standard for digital television receivers with built in satellite tuners** At present, Television (TV) viewers in the country need to purchase set-top box for viewing various paid and free channels. The viewer is required to use set top boxeven for the reception of free to air channels (non-encrypted) transmitted byDoordarshan. Now Doordarshan is in the process of phasing out Analogtransmission. Free to air channels will continue to be broadcast using digital satellite transmission by Doordarshan.

To enable the reception of these free to air channels without use of set top box, there is a need for television receivers with inbuilt suitable satellite tuner.

Bureau of Indian standards, through its technical Committee has published an Indian Standard IS 18112:2022 Specification for television with built in satellite tuners. TVs manufactured as per this Indian standard would enable reception of Free-To-Air TV and Radio channels just by connecting a dish antenna with LNB mounted on a suitable place, at roof top/side wall of the building.

This would facilitate transmission of knowledge about government initiatives, schemes, educational content of Doordarshan and repository of Indian cultureprograms to reach and benefit wide segment of population in the country at large.

- **Indian Standard for USB Type C receptacles, plug and cables**
Consumers have to keep different chargers for various electronic devices they possess which leads to extra expenditure, increase in e-waste and a lot of inconvenience. Countries worldwide are working to address these issues.

In this context, Bureau of Indian standards, has published Indian standard IS/IEC 62680-1-3:2022 USB Type-C® Cable and Connector Specification. This Indian standard is adoption of existing International standard IEC 62680-1- 3:2022.

This standard provides requirements for USB Type-C port, plug and cables for use in various electronic devices like mobile phone, laptop, notebook etc. This standard would provide common charging solutions for the smartphones and other electronic devices sold in the country. This would facilitate in reduction in number of charger per consumer as consumers will no longer need to buy different

chargers every time they buy a new device. This would help in achieving Government of India's mission to reduce e-waste and move towards sustainable development.

- **<u>Indian Standards for Video Surveillance Systems</u>**

Video Surveillance System (VSS) is an essential security component that is used almost everywhere to capture any unwanted activity. Due to the multitude of video cameras offered for sale in the marketplace, and the seemingly infinite variety of camera features and options available, efforts to procure the right video surveillance system that produce images of suitable quality for the intended use have become confusing and technically challenging. Also, the owners and or installers do not have a clear idea of the purpose of each video surveillance system and the level of detail needed to achieve that purpose.

Bureau of Indian Standards, through its technical committee on Alarms and Electronic Security Systems has developed a series of Indian Standard (IS 16910) on Video Surveillance Systems for use in Security Applications. IS 16910 series of Standards is an adoption of the International Standard IEC 62676 series. The standard provides a detailed outline of all the aspects of a Video Surveillance System such as requirements for its components like camera devices, interfaces, system requirements and tests to ascertain the image quality of the camera devices and also specifies guidelines on efficient installation of the system.

Considering the constantly evolving technology in the security industry and the abundant options of VSS to choose from it has become cumbersome for the common person, be it the installers/ specifiers/ users, to pick the right set of VSS that exactly fits his intended use. This series of Standards would assist customers, installers and users in establishing their requirements, determining the appropriate equipment required for their intended application, and also provide means of evaluating objectively the performance of the VSS. This will also help in making the surveillance system more secure, robust and cost effective.

Public Relations Department