SYNOPSIS OF Doc LITD 14 (10325)/ IS/ ISO/IEC 30130 : 2016 of LITD

Number and Title of the Indian Standard: IS/ ISO/IEC 30130 : 2016 Software engineering — Capabilities of software testing tools

a**) Scope:** This Indian Standard defines the framework to which capabilities of software testing tools are allocated in order to identify the capabilities of products being used by any project for software testing. Software testing processes are identified in ISO/IEC/IEEE 29119-2 and software verification processes are identified in ISO/IEC 12207. This Indian Standard is fully harmonized with these existing standards in terms of software testing processes.

This Indian Standard focuses on the following areas that the existing ISO/IEC standards do not deal with the following:

- categorization of software test entities and software testing tools (Clauses 4 and 5);
- characterization of each software testing tool category (Clauses 5 and 6);
- mapping of software testing tool capabilities and characteristics (Clauses 6 and 7).

b) Salient features of content:

This Indian Standard defines the framework to which capabilities of software testing tools are allocated in order to identify the capabilities of products being used by any project for software testing. To develop high-quality software with reasonable time and budget, the use of software testing tools is required. The increase in the size and complexity of software is complemented by an increase in the difficulty and complexity of software testing. This created a larger demand for the support of tools in order to test software effectively and efficiently.

c) Types/grades/classes, if any covered in the standard: NA

d) **Justification for publishing this standard :** Testing tools are highly diverse due to their contexts of use. The framework defined in this standard consists of objectives of testing, granularity of software to be tested and their capabilities. This standard is used by Software development and software testing IT companies like TCS, Infosys, etc in their software development process.

e) Disclaimer (to be automatically provided by the program/software)