



**A G E N D A**

TECHNICAL COMMITTEE: LITD 14

**DOCUMENT DESPATCH ADVICE**

Ref	Date
LITD 14/A-2.27	18 Sep 2024

All Members of LITD 14

**TWENTY SEVENTH MEETING OF SOFTWARE AND SYSTEMS ENGINEERING SECTIONAL COMMITTEE, LITD 14 AND ITS PANELS**

Conference Room, ADCPS, IIT Bombay, Powai, Mumbai

Time	1030h-1330h Thursday, April 23, 2024
Meeting link	<a href="https://bismanak.webex.com/bismanak/j.php?MTID=mabf38d380e90dd565f19e14b23ca73b4">https://bismanak.webex.com/bismanak/j.php?MTID=mabf38d380e90dd565f19e14b23ca73b4</a>
Meeting ID	<b>2510 613 0224</b>
Password	<b>litd22M27</b>

Dear Sir(s),

Further to our meeting notice of dated 02 Sep 2024, please find enclosed the AGENDA for the Twenty Seventh Meeting of above referred Committee and its Panels, LITD 14.

Kindly make it convenient to attend this meeting. We shall be thankful to have your confirmation in this respect.

Thanking you,

Yours Sincerely,

Sd/-

Encl: As above

(Ashish Tiwari)  
Scientist-D(Electronics & IT)  
Email: litd@bis.org.in  
Telefax:01123608501

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**BUREAU OF INDIAN STANDARDS**  
**AGENDA**

**TWENTY SEVENTH MEETING OF SOFTWARE AND SYSTEMS ENGINEERING  
SECTIONAL COMMITTEE, LITD 14  
IN JOINT SESSION WITH THE PANELS**

Conference Room, ADCPS, IIT Bombay, Powai, Mumbai

Time	1030h-1330h Thursday, April 23, 2024
Meeting link	<a href="https://bismanak.webex.com/bismanak/j.php?MTID=mabf38d380e90dd565f19e14b23ca73b4">https://bismanak.webex.com/bismanak/j.php?MTID=mabf38d380e90dd565f19e14b23ca73b4</a>
Meeting ID	<b>2510 613 0224</b>
Password	<b>litd22M27</b>

CHAIRMAN: Dr Sundeep Oberoi, IIT Bombay    MEMBER SECRETARY: Shri Ashish Tiwari

**ITEM 0 GENERAL**

**0.1** Welcome

**0.2** Address by the chairman.

**ITEM 1 FORMAL CONFIRMATION OF THE MINUTES OF THE LAST MEETING**

**1.1** The minutes of the last meeting of LITD 14 held on 23 Apr 2024 were circulated on 11 June 2024. No comments have been received.

**The committee may confirm the minutes.**

**ITEM 2 DRAFT INDIAN STANDARD IN WIDE CIRCULATION**

**2.1** Following Standards have been circulated in wide circulation:

Sl No.	Doc No.	ISO/IEC No.	Title	Last Date of comments
1	LITD/14/25192	ISO/IEC 38500:2024	Information technology Governance of IT for the organization	08 September 2024
2	LITD/14/25193	ISO/IEC TS 30105-6:2021	Information technology IT Enabled Services-Business Process Outsourcing ITES-BPO lifecycle processes Part 6: Guidelines on risk management	08 September 2024
3	LITD/14/25194	ISO/IEC TR 30105-7:2019	Information technology IT Enabled Services-Business Process Outsourcing ITES-BPO lifecycle processes Part 7: Exemplar for maturity assessment	08 September 2024
4	LITD/14/25197	ISO/IEC 30105-	Information technology -IT Enabled	08 September

		:2022	Services-Business Process Outsourcing ITES-BPO lifecycle processes Part 8: Continual performance improvement CPI of ITES-BPO	2024
5	LITD/14/25198	ISO/IEC TS 30105-9:2023	IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes Part 9: Guidelines on extending process capability assessment for digital transformation	08 September 2024
6	LITD/14/26055 IS/ISO/IEC 30105 : Part 4: 2016	ISO/IEC 30105-4: 2022	IT Enabled Services - Business Process Outsourcing (ITES-BPO) Part 4 Key concepts (First Revision)	08 September 2024
7	LITD/14/26057 IS 13394: 2021	ISO/IEC 26514 : 2022	Systems and software engineering Requirements for designers and developers of user documentation (Second Revision)	08 September 2024

So far, no comments have been received.

**The committee may consider.**

### **ITEM 3 NEW WORK ITEM PROPOSALS**

#### **2.1 Following new proposals were received from the stakeholders:**

##### **a) DRDO proposal for Software development and testing standard for defence sector**

Software is an integral part of most modern defence systems. Many of the missions and safety critical systems throughout the world have failed due to the bug in the software. Employing the right Software development processes and set of SDLC activities based on the criticality of the software is absolute necessity, in order to provide the high degree of assurance.

A need was felt to streamline the software engineering activities in various domains of development carried out by Design & Development Agency for Defence products which require the software as embedded systems, analytical systems, GUI systems, firmware, simulation systems and desktop applications.

Dr Sushma Verma, DRDO sent a proposal to develop an Indian standard for Software development and testing so as to bring uniformity in the software design and development practises for outsourcing of software development by industry partners. This proposal is based on JSG 1042.

During the last meeting, the committee discussed the proposal and finds JSG 1042 is at a mature level but there is also a need to understand industry position on the proposed standard. The committee decided to organize a workshop to discuss the given proposal. The workshop was organized by Defence Standardization Cell on 30 July 2024 at BEL, Bangalore. More than 80 members from Industry participated in the workshop and provided suggestions towards the draft.

Dr Sushma Verma is requested to brief the committee about the workshop.

The committee may consider.

**b) DevOps Standard (Panel 12)**

LITD 14 created a Panel 12 ‘DevOps’ to develop an Indian standard for DeVops. LITD 14 had its multiple discussion and submitted the 1<sup>st</sup> draft of the DevOps standard providing principles, practices and maturity. The proposed standard provides the practices and maturity model for implementing DevOps to deliver secure and quality products and increase the speed to market with frequent/on demand releases. The proposed standard covers the following practices:

- i. Continuous Planning
- ii. Configuration Management
- iii. Continuous Integration
- iv. Continuous Testing
- v. Continuous Delivery
- vi. Continuous Deployment
- vii. Continuous Monitoring
- viii. Continuous Experimentation

As was decided during the last meeting, the draft has been circulated as P Draft to all committee members for comments.

SI. No.	Doc No	TITLE
1	LITD 14 (26406)	Software and Systems Engineering DevOps - Principles and Practices

**The last date of comments is 23 Sep 2024. The committee may consider.**

**c) Single MSS Standard for ITeS-BPO**

During the last meeting, Sh Sridhar Sukumar gave a presentation on the need and benefits for Single MSS standard for ITeS-BPO. This need arises from non-adoption, prescriptive nature and extremely detailed of current Standards for example ESEM, CMMI for Services. It was proposed to develop an integration and harmonization of a Management systems standards in the field of ITeS-BPO. This proposal outlines the prevalence of ISO standards, particularly Management System Standards (MSS), in ITES-BPO entities and the associated challenges. The study done by Sh Sridhar Sukumar identifies ISO 9001, ISO 20000, ISO 14001, ISO 45001, and ISO 22301 as commonly used standards. A clause-wise analysis reveals significant potential for harmonization, especially in common clauses from 4 to 10.

During the last meeting, the committee suggested to propose this project in JTC 1/SC 40. Sh Sridhar Sukumar is requested to update the committee about the discussions held in SC 40.

**The committee may consider.**

## ITEM 4 ACTIVITIES OF PANELS OF LITD 14 VIS-À-VIS PLENARY MEETINGS OF SC 7 and SC 40

4.1 Following LITD 14 Panel Conveners are requested to brief the committee about the discussions of the corresponding SC 7 WGs.

Sl No.	New Panel No.	Title	Convener
1	LITD14/Panel 1	System software documentation	Ms. Usha Mohan
2	LITD14/ Panel 2	Tools and Environment	Dr Sridhar Chimalakonda
3	LITD14/ Panel 3	Evaluation and Metrics of Software Products and Processes	Mr. Vijay Krishnamoorthy
4	LITD14/ Panel 4	Life cycle management	Ms. Nayana Pandit
5	LITD14/ Panel 5	Software Asset Management	Mr. Ramesh Jain
6	LITD14/ Panel 6	Architecture	Dr Anand Kumar
7	LITD14/ Panel 7	IT Governance	Mr. Sanjiv Kumar Agarwala
8	LITD14/ Panel 8	IT Service Management	Mr Kulpreet Nanda
9	LITD14/ Panel 9	ITeS-BPO	Mr. Sridhar Sukumar
10	LITD14/ Panel 10	Agile	Ms. Gayathri Ekambaram
11	LITD14/ Panel 12	DevOps	Ms Sharmila Mookherjee
12	LITD14/ Panel 13	Data Management Panel	Dr Sundeep Oberoi
13	LITD14/ Panel 14	Think-Tank and Communication	Ms. Nayana Pandit

In addition, following experts have been nominated to review the following work

- 14. JTC 1/SC 7/WG 10 Process Assessment – Mr Anirban Bhattacharya, TCS
- 15. JTC 1/SC 7/WG 26 Software Testing – Ms Mary Parveena, TCS

The conveners may brief the work of their panels.

## ITEM 5 PRESENT POSITION OF WORK OF LITD 14

5.1 The present position of work of LITD 14 is given in **Annex 3 (Page 19-24)**. In accordance with BIS procedure, Indian Standards which are in existence for more than 3 years are to be reviewed for reaffirmation/revision/withdrawal.

5.2 Some of the Indian standards base ISO/IEC standards have been changed. Latest status of such standards along with the status of the standards, on which these are based, is given below.

Sl No.	IS Number and Title	Equivalent International Standard	Latest position of corresponding Int. Standards	Remarks
1	IS/ISO/IEC 30105-5 : 2016 Information Technology - IT Enabled Services Business Process Outsourcing (ITES - BPO) Lifecycle Processes Part 5 Guidelines	ISO/IEC 30105-5 : 2016	ISO/IEC 30105-5 : 2024	Committee may consider revision

2	IS/ISO/IEC 30105-3 : 2016 Information Technology - IT Enabled Services - Business Process Outsourcing ( ITES -BPO) Lifecycle Processes Part 3 Measurement Framework (MF) and Organization Maturity Model (OMM)	ISO/IEC 30105-3 : 2016	ISO/IEC 30105-3 : 2024	Committee may consider revision
3	IS/ISO/IEC 30105-2 : 2016 Information Technology - IT Enabled Services - Business Process Outsourcing (ITES - BPO) Lifecycle Process Part 2 Process Assessment Model (PAM)	ISO/IEC 30105-2 : 2016	ISO/IEC 30105-2 : 2024	Committee may consider revision
4	IS/ISO/IEC 30105-1 : 2016 Information Technology - IT Enabled Services - Business Process outsourcing (ITES-BPO) Lifecycle Processes Part 1 Process Reference Model (PRM)	ISO/IEC 30105-1 : 2016	ISO/IEC 30105-1 : 2024	Committee may consider revision

*The Committee may examine and decide to revise/withdraw these Indian standards.*

**The Committee may consider.**

#### **ITEM 6 COMPOSITION OF LITD 14**

- 5 The present composition of Software and Systems Engineering Sectional Committee, LITD 14 and its Panels is given in **Annex 1(Page 8-14)**. The consolidated list of Indian experts nominated in JTC 1/SC 7 and SC 40 is mentioned at **Annex 2(Page 15-18)**.

**The committee members may let us know if there are any changes in the composition.**

#### **ITEM 7 INTERNATIONAL WORK**

- 7.1** A List of standards published by ISO/IEC/JTC 1/SC 7 and SC 40 are mentioned on the given link:

**JTC 1/SC 7:** <https://www.iso.org/committee/45086/x/catalogue/p/1/u/0/w/0/d/0>

**JTC 1/SC 40:** <https://www.iso.org/committee/5013818/x/catalogue/p/1/u/0/w/0/d/0>

**The Committee may identify the other International Standards to be adopted as Indian Standards.**

#### **7.2 NEXT PLENARY/INTERIM MEETINGS OF JTC 1/SC 7 and SC 40**

The next plenary meetings of SC 7 and SC 40 are scheduled as per the details given below. Both the meetings will be held in hybrid mode:

scheduled to be held as per the following schedule:

Committee	English title	Type	Start local date	End local date	Country	City
ISO/IEC JTC 1/SC 7	Software and systems engineering	Virtual	02 Dec 2024 00:00 IST	06 Dec 2024 23:59 IST		
ISO/IEC JTC 1/SC 40/CAG 1	Chair's Advisory Group	Virtual	21 Nov 2024 02:30 IST	21 Nov 2024 04:30 IST		
ISO/IEC JTC 1/SC 7/WG 42	Architecture	Hybrid	11 Nov 2024 05:30 IST	16 Nov 2024 05:29 IST	United Kingdom	London
ISO/IEC JTC 1/SC 7/WG 6	Software Product and System Quality	Hybrid	10 Nov 2024 04:30 IST	16 Nov 2024 04:29 IST	Italy	Roma
ISO/IEC JTC 1/SC 40/WG 2	Service management – Information technology	Hybrid	04 Nov 2024 04:30 IST	09 Nov 2024 04:29 IST	Netherlands	Delft
ISO/IEC JTC 1/SC 7/WG 26	Software testing	Face-to-Face	04 Nov 2024 04:30 IST	09 Nov 2024 04:29 IST	Belgium	Brussel
ISO/IEC JTC 1/SC 40/WG 3	IT-enabled services / Business process outsourcing	Face-to-Face	04 Nov 2024 04:30 IST	09 Nov 2024 04:29 IST	Netherlands	Delft
ISO/IEC JTC 1/SC 40/WG 1	Governance of InformationTechnology	Hybrid	04 Nov 2024 04:30 IST	09 Nov 2024 04:29 IST	Netherlands	Delft
ISO/IEC JTC 1/SC 7/AHG 9	AI-based software development	Virtual	01 Nov 2024 11:00 IST	01 Nov 2024 15:30 IST		
ISO/IEC JTC 1/SC 7/WG 2	System software documentation	Hybrid	22 Oct 2024 03:30 IST	25 Oct 2024 03:29 IST	Italy	Roma
ISO/IEC JTC 1/SC 40/WG 3	IT-enabled services / Business process outsourcing	Virtual	15 Oct 2024 18:30 IST	15 Oct 2024 20:30 IST		
ISO/IEC JTC 1/SC 40/CAG 1	Chair's Advisory Group	Virtual	09 Oct 2024 10:30 IST	09 Oct 2024 12:30 IST		
ISO/IEC JTC 1/SC 7/AG 3	Communications and outreach	Virtual	08 Oct 2024 18:30 IST	08 Oct 2024 19:30 IST		
ISO/IEC JTC 1/SC 7/AHG 10	Green software	Virtual	25 Sep 2024 18:30 IST	25 Sep 2024 20:00 IST		
ISO/IEC JTC 1/SC 7/AHG 9	AI-based software development	Virtual	17 Sep 2024 10:30 IST	17 Sep 2024 12:30 IST		
ISO/IEC JTC 1/SC 7/AG 2	Business planning group	Virtual	05 Sep 2024 18:30 IST	05 Sep 2024 20:00 IST		
ISO/IEC JTC 1/SC 7/AHG 10	Green software	Virtual	04 Sep 2024 18:30 IST	04 Sep 2024 19:30 IST		
ISO/IEC JTC 1/SC 7/AG 3	Communications and outreach	Virtual	03 Sep 2024 18:30 IST	03 Sep 2024 19:30 IST		

Following Indian delegates are expected to attend this meeting:

JTC 1/SC 7 'Software and System Engineering' Interim meetings

- a. Dr Sundeep Oberoi, Individual Capacity - SC 7 Chair (Virtually)
- b. Sh Anupam Agrawal, TCS - SC 7/AG 3 Convener(virtually)
- c. Dr Deva Henry, Individual Capacity – SC 7 (virtually)
- d. Ms Reena Garg, BIS - SC 7 Committee Manager(virtually)
- e. Dr Anand Kumar, TCS - SC 7 Plenary (virtually), WG 7, 29 (virtually)and WG 42(F2F)
- f. Ms Stueti Gupta (SC 7 Plenary, SC 7/WG 42 Virtually)

- g. Sh Ashish Tiwari, BIS - SC 7 Plenary (Virtually)
- h. Dr Sridhar Chimalakonda (SC 7/WG 4 and SC 7/AHG 9 virtually)

JTC 1/SC 40 'IT Service management and IT Governane' Interim meetings

- a. Sh Sanjiv Agarwala, Individual Capacity (SC 40/WG 1 Convener)
- b. Dr Devi Nair, TCS (SC 40/WG 2 Virtually)
- c. Sh Kulpreet Nanda, Capgemini (SC 40/WG 2 virtually)
- d. Ms Chitra Natarakan, TCS (SC 40/WG 3 virtually)

#### **ITEM 8 R&D PROJECTS FROM BIS**

**8.1** Following R&D projects is approved by LITD 14 which is currently under consideration at BIS:

- a) Data Management Practices at Panchayat Level

**The committee may consider submitting new R&D proposal for consideration.**

#### **ITEM 9 DATE AND PLACE FOR THE NEXT MEETING**

#### **ITEM 10 ANY OTHER BUSINESS**



**Annex 1**  
*(Item 7.1)*

**COMPOSITION OF LITD 14 SOFTWARE AND SYSTEMS ENGINEERING**

<b>1</b>	<b>In Individual Capacity</b>	
	Dr Sundeep Oberoi	Chairperson
<b>2</b>	<b>Accenture</b>	
	Shri Sridhar Sukumar	Principal
<b>3</b>	<b>BlueKei Solutions Private Limited</b>	
	Smt Stueti Gupta	Representative
<b>4</b>	<b>Capgemini Technologies</b>	
	Smt Sonali Khopkar	Principal
	Shri Ajay Shastry	Alternate
<b>5</b>	<b>Centre for Development of Advanced Computing</b>	
	Shri Jasjit Singh	Principal
	Shri Sanjay Wandhekar	Alternate
	Shri Praveen K. Srivastava	Alternate
<b>6</b>	<b>Centre for Development of Telematics(C-DOT)</b>	
	Smt. Manisha Litoria	Principal
	Shri Umakanth	Alternate
	Shri Vinod Kumar Gupta	Alternate
<b>7</b>	<b>Indian Institute of Technology Tirupati, Tirupati</b>	
	Dr Sridhar Chimalakonda	Principal
<b>8</b>	<b>Ministry of Communication and Information Technology</b>	
	Shri Manoj kumar Saxena	Alternate
<b>9</b>	<b>National Association of Software and Service Companies (NASSCOM)</b>	
	Shri K.S. Viswanathan	Principal
	Shri Varun	Alternate
<b>10</b>	<b>National Informatics Centre (NIC)</b>	
	Shri G. Mayil Muthu Kumaran	Principal

	Smt Pooja Singh	Alternate
<b>11</b>	<b>Standardization Testing and Quality Certification (STQC)</b>	
	Shri Sanjeev Kumar	Principal
	Shri Nitish Kumar	Alternate
	Shri H. Roy	Alternate
<b>12</b>	<b>Tata Consultancy Services Limited</b>	
	Shri Anupam Agrawal	Alternate
	Smt Nayana Pandit	Principal
<b>13</b>	<b>The Institution of Electronics and Telecommunication Engineer</b>	
	Prof (Col) S L Kapoor (Retd)	Principal
	Shri R D Kharadar	Alternate
	Prof Nilesh N Kasat	Alternate
<b>14</b>	<b>In Personal Capacity</b>	
	Dr Gargi Keeni	
	Smt Usha Mohan	
	Dr Deva Henry	
<b>15</b>	<b>Cognizant technologies Ltd</b>	Principal
	Sh Amit Baranwal	

**Composition of Panels under LITD 14**

<b>LITD 14 : P1 - System software documentation Panel</b>			
<b>S.No.</b>	<b>Member Name</b>	<b>Organization</b>	<b>Member Email</b>
1	Ms Usha Mohan (Convenor)	Individual Capacity	ushamohan@gmail.com
2	Mr. Mallilarjun Kandkuru	KPMG	mkandkuru@kpmg.com
<b>LITD 14 : P2 - Tools and Environment Panel</b>			
<b>S.No.</b>	<b>Member Name</b>	<b>Organization</b>	<b>Member Email</b>
1	Dr Sridhar Chimalakonda (Convenor)	IIT , Tirupati	ch@iittp.ac.in
2	Mr. Vinod Kumar Gupta	CDOT	vkgupta@cdot.in
3	Ms Sailaja Parthasarathy	Intel	sailaja.parthasarathy@intel.com
4	Vijay Krishnamoorthy(Convenor)	TCS	vijay.krishnamoorthy@tcs.com
5	Ms. Shital Engineer	TCS	shital.engineer@tcs.com
<b>LITD 14 : P3 - Evaluation and Metrics of Software Products and Processes Panel</b>			
<b>S.No.</b>	<b>Member Name</b>	<b>Organization</b>	<b>Member Email</b>
1	Vijay Krishnamoorthy (Convenor)	TCS	vijay.krishnamoorthy@tcs.com
2	Natarajan Swaminathan	TCS	natarajan.Swaminathan@tcs.com
3	Dr. Anand Kumar	TCS	anand.ar@tcs.com
4	Shri Nikhil Zope	TCS	nikhil.zope@tcs.com
5	Dr Jayakumar	In Personal Capacity	jayakumar@amitysoft.com
<b>LITD 14 : P4 - Life Cycle Management Panel</b>			
<b>S.No.</b>	<b>Member Name</b>	<b>Organization</b>	<b>Member Email</b>
1	Ms Nayana Pandit (Convenor)	TCS	nayana.pandit@tcs.com
2	Ms Pooja Singh	NIC	singhpooja@nic.in
3	Natarajan Swaminathan	TCS	swami.n@tcs.com
4	Dr Anand Kumar	TCS	Anand.ar@tcs.com
<b>LITD 14 : P5 - Software Asset Management Process Panel</b>			
<b>S.No.</b>	<b>Member Name</b>	<b>Organization</b>	<b>Member Email</b>
1	Mr. Ramesh Jain (Convenor)	Paras Training	ramesh@paras-training.com
2	Abhilash Varghese	In Personal Capacity	abhilashvarg@yahoo.co.in
3	Mr .Supratik Gupta	In Personal Capacity	supratikgupta@icloud.com
4	Mr. Ashwath Patil	In Personal Capacity	ashwath.patil@gmail.com
5	Mr. Ritesh Dhingra	In Personal Capacity	riteshdhingra@hotmail.com
6	Shri. Kishore Gopinath	In Personal Capacity	kishoregopinath@gmail.com
7	Shri. P Saravanan	In Personal Capacity	saravanan.palani@aol.com

8	Mr. Sunil Reddy	In Personal Capacity	sunilreddy.d@gmail.com
9	Sh. Onkar Adwal	In Personal Capacity	omkaradval@gmail.com
<b>LITD 14 : P6 - Architecture Panel</b>			
<b>S.No.</b>	<b>Member Name</b>	<b>Organization</b>	<b>Member Email</b>
1	Dr. Anand Kumar (Convenor)	TCS	anand.ar@tcs.com
2	Mr. Vinod Kumar Gupta	CDOT	vkgupta@cdot.in
3	Dr Sridhar Chimalakonda	IIT , Tirupati	ch@iittp.ac.in
4	Narang N Kishore	Narnix	kishor@narnix.com
5	Natarajan Swaminathan	TCS	natarajan.Swaminathan@tcs.com
6	Mr. Navdeep Agarwal	TCS	navigupta@gmail.com
7	Mr. Padmavathy Ramesh	TCS	padma.r@tcs.com
8	Mr. JVRS Prasad	TCS	jammalamadaka.prasad@tcs.com
<b>LITD 14 : P7 - IT Governance Panel</b>			
<b>S.No.</b>	<b>Member Name</b>	<b>Organization</b>	<b>Member Email</b>
1	Sanjiv Kumar Agarwala (Convenor)	Oxygen Consulting Services Private Limited, Pune	ska262001@yahoo.co.in
2	Gargi Keeni	In Personal Capacity	gargi@keenis.com
<b>LITD 14 : P8 - IT Services Management Panel</b>			
<b>S.No.</b>	<b>Member Name</b>	<b>Organization</b>	<b>Member Email</b>
1	Mr. Kulpreet nanda (Convener)	Capgemini	kulpreet.nanda@capgemini.com
2	Ms Sonali Khopkar	Capgemini	sonali.khopkar@capgemini.com
3	Ajay Shastry	Capgemini	ajay.shastry@capgemini.com
5	Ms. Leena Sagar	Capgemini	leena.sagar@capgemini.com
6	Mr. Vishnu Varthanan	Capgemini	vishnu.varthanan@capgemini.com
7	Mr. M V Padmanabhayya	STQC	mvp@stqc.gov.in
8	Mr. Sandeep Khopkar	TCS	Sandeep.Khopkar@tcs.com
9	Mr. Devi Muraleedharan Nair	TCS	d.nair1@tcs.com
10	Mr. Amit Shah	Wipro, Bengaluru	amit.shah@wipro.com
11	Gargi Keeni	In Personal Capacity	gargi@keenis.com
12	Abhilash Varghese	In Personal Capacity	abhilashvarg@yahoo.co.in
13	Ms. Sujatha Kumaraswamy	In Personal Capacity	sujatha_kumaraswamy@yahoo.com
14	Mr. Sumit Jha	In Personal Capacity	sumitkjha@gmail.com
<b>LITD 14 : P9 - IT Enabled Services/ITeS (BPO) Panel</b>			
<b>S.No.</b>	<b>Member Name</b>	<b>Organization</b>	<b>Member Email</b>
1	Shri Sridhar Sukumar (Convenor)	In Personal Capacity	sridhar.sukumar@gmail.com
2	Shri Ajith Thomas	TCS	ajith.thomas@tcs.com
3	Mrs. Chitra Natarajan	TCS	chitra.natarajan@tcs.com

4	Mr Sougata Bhattacharya	TCS	sougata.b@tcs.com
5	Ms Varsha Suresh	Wipro, Bengaluru	varsha.suresh@wipro.com
6	Mr. Ravi Veeraraghavan	In Personal Capacity	9540ravi@icmim.in
<b>LITD 14 : P10 - Agile Practices Panel</b>			
S.No.	Member Name	Organization	Member Email
1	Ms. Gayathri Ekambaram (Convenor)	TCS	gayathri.e@tcs.com
2	Shri Kulbir Raina	Capgemini	kulbir.raina@capgemini.com
3	Mr. Vinod Kumar Gupta	CDOT	vkgupta@cdot.in
4	Dr Sridhar Chimalakonda	IIT , Tirupati	ch@iittp.ac.in
5	Anupam Agrawal	TCS	Anupam.Agrawal@tcs.com
6	Dr. Anand Kumar	TCS	anand.ar@tcs.com
7	Ms Nayana Pandit	TCS	nayana.pandit@tcs.com
8	Vijay Krishnamoorthy	TCS	vijay.krishnamoorthy@tcs.com
9	Mr. Jaisankar Ts	TCS	jaisankar.ts@tcs.com
10	Ms. Sushanta Sinha	TCS	sushanta.sinha@tcs.com
11	Mr. Manikandan Balasubramanian	TCS	manikandan.b@tcs.com
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19	Mr. Rajesh Rajagopalan	TCS	rajesh.rajagopalan@tcs.com
20	Mr. Venkata Kotta	TCS	venkata.kotta@tcs.com
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**Annex 2**  
( Item 7.1)

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JTC 1/SC 7/WG 26 Software testing	<b>Mr Deepu Chandra, LDRA</b> Dr. Gargi Keeni, Individual capacity Rajesh Punjabi, TCS Mr G. Mayil Muthu Kumaran , NIC Ms Mary Praveena , TCS
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**Annex 3**  
*(Item 6.1)*

**LITD 14 SOFTWARE AND SYSTEM ENGINEERING**

**SCOPE -** To prepare Indian standards relating to:

- a) Processes, supporting tools and supporting technologies for the Engineering of software products and systems.
- b) IT service management and IT governance

LIAISON WITH ISO/IEC/JTC 1 SUBCOMMITTEES

ISO/IEC/JTC1/SC 7 Software and System Engineering (P)

ISO/IEC/JTC1/SC 40 IT Service Management and IT Governance (P)

Sl. No.	IS No.	Title	Degree of Equivalence
1.	<a href="#">IS 11289 : 2023</a> <a href="#">ISO/IEC 14756 : 1999</a>	Information technology Measurement and rating of performance of computer-based software systems	Identical under dual numbering
2.	<a href="#">IS 11291 (Part 1) : 2023</a> <a href="#">ISO/IEC 29119-1 : 2022</a>	Software and systems engineering Software testing Part 1: General concepts	Identical under dual numbering
3.	<a href="#">IS 11291 (Part 2) : 2023</a> <a href="#">ISO/IEC 29119-2 : 2021</a>	Software and systems engineering Software testing Part 2: Test processes	Identical under dual numbering
4.	<a href="#">IS 11291 (Part 3) : 2023</a> <a href="#">ISO/IEC 29119-3 : 2021</a>	Software and systems engineering Software testing Part 3: Test documentation	Identical under dual numbering
5.	<a href="#">IS 11291 (Part 4) : 2023</a> <a href="#">ISO/IEC 29119-4 : 2021</a>	Software and systems engineering Software testing Part 4: Test techniques	Identical under dual numbering
6.	<a href="#">IS 12372 : 1987</a> <a href="#">ISO 5806: 1987[E]</a> <a href="#">Reviewed In : 2021</a>	Presentation of single - Hit decision tables	Identical under dual numbering
7.	<a href="#">IS 12373 (Part 1) : 2018</a> <a href="#">ISO/IEC 7498-1 : 1994</a> <a href="#">Reviewed In : 2021</a>	Information technology - Open systems interconnection - Basic reference model: Part 1 the basic model (First Revision)	Identical under dual numbering
8.	<a href="#">IS 12373 (Part 2) : 1992</a> <a href="#">ISO 7498-2</a> <a href="#">Reviewed In : 2023</a>	Basic reference model of open systems interconnection for information processing systems: Part 2 Security architecture	Identical under dual numbering
9.	<a href="#">IS 12373 (Part 3) : 2018</a> <a href="#">ISO/IEC 7498-3 : 1997</a> <a href="#">Reviewed In : 2021</a>	Information technology - Open systems interconnection - Basic reference model: Part 3 naming and addressing (First Revision)	Identical under dual numbering
10.	<a href="#">IS 12373 (Part 4) : 1993</a> <a href="#">ISO/IEC 7498-4</a> <a href="#">Reviewed In : 2023</a>	Basic reference model of open systems interconnection for information processing systems: Part 4 management framework	Identical under dual numbering
11.	<a href="#">IS 13394 : 2021</a> <a href="#">ISO/IEC 26514 : 2008</a>	Systems and software engineering Requirements for designers and developers of user documentation(First Revision)	Identical under dual numbering
12.	<a href="#">IS 13587 : 1992</a>	Computer system configuration diagram symbols and	Identical under

Sl. No.	IS No.	Title	Degree of Equivalence
	<a href="#">ISO 8790</a> <a href="#">Reviewed In : 2022</a>	conventions for information processing systems	dual numbering
13.	<a href="#">IS 13615 : 2020</a> <a href="#">ISO/IEC 15953 : 1999</a> <a href="#">Reviewed In : 2023</a>	Information Technology - Open Systems Interconnection - Service Definition for the Application Service Object Association Control Service Element ( First Revision )	Identical under dual numbering
14.	<a href="#">IS 13672 : 2018</a> <a href="#">ISO/IEC 9545 : 1994</a> <a href="#">Reviewed In : 2021</a>	Information technology - Open systems interconnection - Application layer structure (First Revision)	Identical under dual numbering
15.	<a href="#">IS 13675 (Part 1/Sec 1) : 1993</a> <a href="#">ISO/IEC 9072-1</a> <a href="#">Reviewed In : 2022</a>	Remote operations in text communication for information processing systems: Part 1 model, notation and service definition	Identical under dual numbering
16.	<a href="#">IS 13675 (Part 1) : 2023</a> <a href="#">ISO/IEC 13712-1 : 1995</a>	Information Technology Remote Operations Part 1 Section 1 Concepts Model and Notation	Identical under dual numbering
17.	<a href="#">IS 13675 (Part 1/Sec 2) : 2023</a> <a href="#">ISO/IEC 13712-2 : 1995</a>	Information Technology $\dot{\imath}$ <sub>1/2</sub> Remote Operations: OSI Realizations Part 1 Section 2 Remote Operations Service Element (ROSE) Service Definition	Identical under dual numbering
18.	<a href="#">IS 13675 (Part 2) : 2022</a> <a href="#">ISO/IEC 13712-3 : 1995</a>	Information technology -Remote Operations: OSI realizations- Part 2 Remote Operations service Element (ROSE) $\dot{\imath}$ <sub>1/2</sub> Protocol specification	Identical under dual numbering
19.	<a href="#">IS 13706 : 2020</a> <a href="#">ISO/IEC 8650</a> <a href="#">Reviewed In : 2023</a>	Information Technology - Open Systems Interconnection - Connection-mode Protocol for the Application Service Object Association Control Service Element ( First Revision )	Identical under dual numbering
20.	<a href="#">IS 13706 (Part 2) : 2016</a> <a href="#">ISO/IEC 8650-2 : 1997</a> <a href="#">Reviewed In : 2022</a>	Information technology - Open systems interconnection - Protocol specification for the association control service element: protocol implementation conformance statement (PICS) performa	Identical under dual numbering
21.	<a href="#">IS 13707 (Part 1) : 1993</a> <a href="#">ISO/IEC 9066-1</a> <a href="#">Reviewed In : 2023</a> <a href="#">Reaffirmed but not taken up for revision</a>	ReliABLE transfer in text communication for information processing systems: Part 1 model and service definition	Identical under dual numbering
22.	<a href="#">IS 13707 (Part 2) : 1993</a> <a href="#">ISO/IEC 9066-2</a> <a href="#">Reviewed In : 2023</a>	ReliABLE transfer in text communication for information processing systems: Part 2 protocol specification	Identical under dual numbering
23.	<a href="#">IS 14639 : 2021</a> <a href="#">ISO/IEC 25051 : 2014</a>	Software engineering Systems and software Quality Requirements and Evaluation SQuaRE Requirements for quality of Ready to Use Software Product RUSP and instructions for Testing First Revision	Identical under dual numbering

Sl. No.	IS No.	Title	Degree of Equivalence
24.	<a href="#">IS 14653 : 2014</a> <a href="#">ISO/IEC 14102</a> <a href="#">Reviewed In : 2023</a>	Information technology - Guideline for the evaluation and selection of case tools (First Revision)	Identical under dual numbering
25.	<a href="#">IS 16124 : 2020</a> <a href="#">ISO/IEC/IEEE 12207 : 2017</a> <a href="#">Reviewed In : 2023</a>	Systems and Software Engineering - Software Life Cycle Processes ( First Revision )	Identical under dual numbering
26.	<a href="#">IS 16417 : 2015</a> <a href="#">ISO/IEC 25001:2014</a> <a href="#">Reviewed In : 2021</a>	Software engineering - Software product quality requirements and evaluation (Square) - Planning and management	Identical under dual numbering
27.	<a href="#">IS 16419 (Part 1) : 2020</a> <a href="#">ISO/IEC 19770-1 : 2017</a> <a href="#">Reviewed In : 2023</a>	Information Technology — IT Asset Management Part 1 IT Asset Management Systems - Requirements ( First Revision )	Identical under dual numbering
28.	<a href="#">IS 16419 (Part 2) : 2022</a> <a href="#">ISO/IEC 19770-2 : 2015</a>	Information technology Software asset management Part 2: Software identification tag	Identical under dual numbering
29.	<a href="#">IS 16419 (Part 3) : 2021</a> <a href="#">ISO/IEC 19770-3 : 2016</a>	Information technology IT asset management Part 3: Entitlement schema	Identical under dual numbering
30.	<a href="#">IS 16443 : 2024</a> <a href="#">ISO/IEC 25010</a>	Systems and Software Engineering “ Systems and Software Quality Requirements and Evaluation (Square) “ Product Quality Model (First Revision)	Identical under dual numbering
31.	<a href="#">IS 16445 : 2016</a> <a href="#">Reviewed In : 2022</a>	Software engineering - Software product quality requirements and evaluation (Square) - Data quality model	Identical under dual numbering
32.	<a href="#">IS 16446 : 2021</a> <a href="#">ISO/IEC 25020 : 2019</a>	Systems and software engineering Systems and software Quality Requirements and Evaluation SQuaRE Quality measurement framework First Revision	Identical under dual numbering
33.	<a href="#">IS 16447 : 2016</a> <a href="#">ISO/IEC 25021 : 2012</a> <a href="#">Reviewed In : 2022</a>	Systems and software engineering - Systems and software quality requirements and evaluation (Square) - Quality measure elements	Identical under dual numbering
34.	<a href="#">IS 16448 : 2021</a> <a href="#">ISO/IEC 25030 : 2019</a>	Systems and software engineering — Systems and software quality requirements and evaluation (SQuaRE) — Quality requirements framework (First Revision)	Identical under dual numbering
35.	<a href="#">IS 16456 : 2024</a> <a href="#">ISO/IEC 14764:2022</a>	Software engineering - Software life cycle processes Maintenance (First Revision)	Identical under dual numbering
36.	<a href="#">IS 16457 : 2024</a> <a href="#">ISO/IEC/IEEE 15288: 2023</a>	Systems and software engineering- System life cycle processes (Second Revision)	Identical under dual numbering
37.	<a href="#">IS 16458 : 2023</a> <a href="#">ISO/IEC/IEEE 16085 : 2021</a>	Systems and software engineering Life cycle processes Risk management	Identical under dual numbering

Sl. No.	IS No.	Title	Degree of Equivalence
38.	<a href="#">IS 16458 : 2015</a> <a href="#">ISO/IEC 16085 : 2006</a> <a href="#">Reviewed In : 2021</a>	Systems and software engineering - Life cycle processes - Risk management	Identical under dual numbering
39.	<a href="#">IS 16845 : 2019</a> <a href="#">ISO/IEC 25000 : 2014</a> <a href="#">Reviewed In : 2022</a>	Systems and software engineering - Systems and software quality requirements and evaluation (Square) - Guide to square	Identical under dual numbering
40.	<a href="#">IS 17041 : 2018</a> <a href="#">Reviewed In : 2021</a>	Software Quality Engineering “ Development Process “ Software Development Management System ( SDMS ) “ Requirements	Indigenous
41.	<a href="#">IS 17548 : 2021</a>	Software and Systems Engineering – Core Agile Practices	Indigenous
42.	<a href="#">IS 17743 (Part 1) : 2021</a> <a href="#">ISO/IEC 29110-1 : 2016</a>	Systems and software engineering Lifecycle profiles for Very Small Entities VSEs Part 1: Overview	Identical under dual numbering
43.	<a href="#">IS 17743 (Part 2/Sec 1) : 2021</a> <a href="#">ISO/IEC 29110-2-1 : 2015</a>	Software Engineering Lifecycle profiles for Very Small Entities VSEs Part 2: Framework and taxonomy	Identical under single numbering
44.	<a href="#">IS 18838 : 2024</a>	Information Technology - Adequacy of Organizational Data Governance and Management Practices	Indigenous
45.	<a href="#">IS/ISO/IEC 20000-1 : 2018</a> <a href="#">IS/ISO/IEC 20000-1 : 2018</a> <a href="#">Reviewed In : 2023</a>	Information Technology - Service Management Part 1 Service Management System Requirements ( Second Revision )	Identical under single numbering
46.	<a href="#">IS/ISO/IEC 20000-2 : 2019</a> <a href="#">ISO/IEC 20000 (PART</a>	Information technology - Service management - Part 2: Guidance on the application of service management systems (Second Revision)	Identical under single numbering
47.	<a href="#">IS/ISO/IEC 20000-3 : 2019</a> <a href="#">ISO/IEC 20000 (PART 3) : 2019</a>	Information technology - Service management - Part 3: Guidance on scope definition and applicability of ISO/IEC 20000-1 (First Revision)	Identical under single numbering
48.	<a href="#">IS/ISO/IEC/TR 20000-5 : 2022</a> <a href="#">ISO/IEC TS 20000-5: 2022</a>	Information technology Service management Part 5: Implementation guidance for IS/ISO/IEC 20000-1 (First Revision)	Identical under single numbering
49.	<a href="#">IS/ISO/IEC 20000-10 : 2018</a> <a href="#">ISO/IEC 20000 (PART</a>	Information Technology Service Management Part 10 Concepts and Vocabulary (First Revision)	Identical under single numbering
50.	<a href="#">IS/ISO/IEC/TS 30103 : 2015</a> <a href="#">ISO/IEC TS 30103 : 2015</a> <a href="#">Reviewed In : 2021</a>	Software and Systems Engineering - Lifecycle Processes - Framework for Product Quality Achievement	Identical under single numbering
51.	<a href="#">IS/ISO/IEC 30105-1 :</a>	Information Technology - IT Enabled Services - Business	Identical under

Sl. No.	IS No.	Title	Degree of Equivalence
	<a href="#">2016</a> <a href="#">ISO/IEC 30105-1 : 2016</a> <a href="#">Reviewed In : 2021</a>	Process outsourcing (ITES-BPO) Lifecycle Processes Part 1 Process Reference Model (PRM)	single numbering
52.	<a href="#">IS/ISO/IEC 30105-2 : 2016</a> <a href="#">ISO/IEC 30105-2 : 2016</a> <a href="#">Reviewed In : 2024</a>	Information Technology - IT Enabled Services - Business Process Outsourcing (ITES - BPO) Lifecycle Process Part 2 Process Assessment Model (PAM)	Identical under single numbering
53.	<a href="#">IS/ISO/IEC 30105-3 : 2016</a> <a href="#">ISO/IEC 30105-3 : 2016</a> <a href="#">Reviewed In : 2021</a>	Information Technology - IT Enabled Services - Business Process Outsourcing (ITES -BPO) Lifecycle Processes Part 3 Measurement Framework (MF) and Organization Maturity Model (OMM)	Identical under single numbering
54.	<a href="#">IS/ISO/IEC 30105-4 : 2016</a> <a href="#">ISO/IEC 30105-4 : 2016</a> <a href="#">Reviewed In : 2021</a>	Information Technology - IT Enabled Services - Business Process Outsourcing (ITES-BPO) Lifecycle Processes Part 4 Terms and Concepts	Identical under single numbering
55.	<a href="#">IS/ISO/IEC 30105-5 : 2016</a> <a href="#">ISO/IEC 30105-5 : 2016</a> <a href="#">Reviewed In : 2021</a>	Information Technology - IT Enabled Services Business Process Outsourcing (ITES - BPO) Lifecycle Processes Part 5 Guidelines	Identical under single numbering
56.	<a href="#">IS/ISO/IEC 30130 : 2016</a> <a href="#">ISO/IEC 30130:2016</a>	Software engineering Capabilities of software testing tools	Identical under dual numbering
57.	<a href="#">IS/ISO/IEC/IEEE 42010 : 2022</a>	Software, Systems and Enterprise - Architecture Description (First Revision)	Identical under single numbering
58.	<a href="#">IS/ISO/IEC/IEEE 42020 : 2019</a>	Software systems and enterprise Architecture processes	Identical under single numbering
59.	<a href="#">IS/ISO/IEC/IEEE 42030 : 2019</a>	Software systems and enterprise Architecture evaluation framework	Identical under single numbering
60.	<a href="#">IS/ISO/IEC 90003 : 2018</a> <a href="#">ISO/IEC 90003 : 2014</a> <a href="#">Reviewed In : 2023</a>	Software engineering Guidelines for the application of ISO 9001:2008 to computer software	Identical under single numbering



## Standards Under Development

### Preliminary Draft Standards

Sl. No.	Doc No	TITLE
1	LITD 14 (26406)	Software and Systems Engineering DevOps - Principles and Practices

### Draft Standards Completed WC Stage

Sl. No.	Doc No	TITLE
1	LITD 14 (25192)	Information technology Governance of IT for the organization
2	LITD 14 (25193)	Information technology IT Enabled Services-Business Process Outsourcing ITES-BPO lifecycle processes Part 6 Guidelines on risk management
3	LITD 14 (25194)	Information technology IT Enabled Services-Business Process Outsourcing ITES-BPO lifecycle processes Part 7 Exemplar for maturity assessment
4	LITD 14 (25197)	Information technology -IT Enabled Services-Business Process Outsourcing ITES-BPO lifecycle processes Part 8 Continual performance improvement CPI of ITES-BPO
5	LITD 14 (25198)	Information technology IT Enabled Services-Business Process Outsourcing ITES-BPO lifecycle processes Part 9 Guidelines on extending process capability assessment for digital transformation
6	LITD 14 (26055) Revision of: IS/ISO/IEC 30105:2016	Information Technology - IT Enabled Services - Business Process Outsourcing ITES-BPO Part 4 Part 4 Key concepts First Revision
7	LITD 14 (26057) Revision of: IS 13394:2021	Systems and software engineering Requirements for designers and developers of user documentation Second Revision

**Total Published Standards:60**

**Total Standards Under development : 8**