BUREAU OF INDIAN STANDARDS

<table>
<tr><td>Program of Work</td></tr>
</table>

LITD 31 : Cloud Computing, IT & Data Centres

Scope: To establish Indian standards in the field of a) Cloud Computing and Distributed Platforms including Foundational concepts and technologies, Operational issues, and Interactions among Cloud Computing systems and with other distributed systems b) Assessment methods, design practices, operation and management aspects to support resource efficiency, resilience and environmental sustainability for and by information, data centres and other facilities and infrastructure necessary for service provisioning

Liaison: **ISO/IEC/JTC1 TC- SC-38 (P):** *Cloud Computing Fundamentals (CCF)* **ISO/IEC/JTC1 TC-SC-38 (P):** *Data in cloud computing and related technologies* **ISO/IEC/JTC1 TC-SC-39 (P):** *Sustainability, IT and data centres* **ISO/IEC/JTC1 TC- SC-39 (P):** *Resource Efficient Data Centres* **ISO/IEC/JTC1 TC- SC-39 (P):** *Sustainable facilities and infrastructures* **ISO/IEC/JTC1 TC- SC-39 (P):** *Eco-design of digital services* **ISO/IEC/JTC1 TC- SC-38 (P):** *Cloud computing and distributed platforms*

<table>
<tr><td>Published Standards</td></tr>
</table>

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS/ISO/IEC 17788:2014 17788 : 2014 17788 : 2014	Information technology Cloud computing Overview and vocabulary		-	Identical under single numbering
2	IS/ISO/IEC 19944-1:2020 19944 Part 1:2020 19944 Part 1:2020	Cloud computing and distributed platforms Data flow data categories and data use Part 1: Fundamentals		-	Identical under single numbering
3	IS/ISO/IEC 22123-1:2021 22123 Part 1:2021 22123 Part 1:2021	Information technology Cloud computing Part 1: Vocabulary		-	Identical under single numbering
4	IS/ISO/IEC 22237-1:2021 ISO/IEC 22237-1:2021 ISO/IEC 22237-1:2021	Information Technology Data Centre Facilities and Infrastructures Part 1: General Concepts		-	Identical under single numbering
5	IS/ISO/IEC 22237-3:2021 ISO/IEC 22237-3:2021 ISO/IEC 22237-3:2021	Information Technology Data Centre Facilities and Infrastructures Part 3: Power Distribution		-	Identical under single numbering
6	IS/ISO/IEC 22237-4:2021 ISO/IEC 22237-4:	Information Technology Data Centre Facilities and Infrastructures Part 4:		-	Identical under single numbering

	2021 ISO/IEC 22237-4: 2021	Environmental Control			
7	IS/ISO/IEC 30134-1:2016 ISO/IEC 30134-1 : 2016 Reviewed In : 2023 ISO/IEC 30134-1:2016	Information Technology Data Centers Key Performance Indicators Part 1 Overview and General Requirements	March, 2023	-	Identical under single numbering
8	IS/ISO/IEC 30134-2:2016 ISO/IEC 30134-2 : 2016 Reviewed In : 2023 ISO/IEC 30134-2 : 2016	Information Technology Data Centres Key Performance Indicators Part 2 Power Usage Effectiveness (PUE)	March, 2023	-	Identical under single numbering
9	IS/ISO/IEC 30134-3:2016 ISO/IEC 30134-3 : 2016 Reviewed In : 2023 ISO/IEC 30134-3 : 2016	Information Technology Data Centres Key Performance Indicators Part 3 Renewable Energy Factor (REF)	March, 2023	-	Identical under single numbering
10	IS/ISO/IEC 30134-4:2017 ISO/IEC 30134-4 : 2017 Reviewed In : 2023 ISO/IEC 30134-4 : 2017	Information Technology Data Centres Key Performance Indicators Part 4 IT Equipment Energy Efficiency for Servers (ITEEsv)	March, 2023	-	Identical under single numbering
11	IS/ISO/IEC 30134-5:2017 ISO/IEC 30134-5 : 2017 Reviewed In : 2023 ISO/IEC 30134-5 : 2017	Information Technology Data Centres Key Performance Indicators Part 5 IT Equipment Utilization for Servers (ITEUsv)	March, 2023	-	Identical under single numbering
12	IS/ISO/IEC 30134-6:2021 ISO/IEC 30134-6:2021 ISO/IEC 30134-6:2021	Information Technology Data Centres Key Performance Indicators Part 6: Energy Reuse Factor ERF		-	Identical under single numbering
13	IS/ISO/IEC 30134-8:2022 ISO/IEC 30134-8:2022 ISO/IEC 30134-8:2022	Information Technology Data Centres Key Performance Indicators Part 8: Carbon Usage Effectiveness CUE		-	Identical under single numbering
14	IS/ISO/IEC 30134-9:2022 ISO/IEC 30134-9:2022 ISO/IEC 30134-9:2022	Information Technology Data Centres Key Performance Indicators Part 9: Water Usage Effectiveness WUE		-	Identical under single numbering

Standards under Development

Projects Approved

SI. No.	Doc No.	Title
		No Records Found

Preliminary Draft Standards

SI. No.	Doc No.	Title
		No Records Found

Drafts Standards in WC Stage

SI. No.	Doc No.	Title
		No Records Found

Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
1	LITD 31 (27451)	Information technology Cloud computing Concepts for multi-cloud and the use of multiple cloud services
2	LITD 31 (27452)	Information technology Cloud computing Part 2 Concepts
3	LITD 31 (27453)	Information technology Cloud computing Part 3 Reference architecture
4	LITD 31 (28574)	Information Technology Cloud Computing Part 1 Vocabulary First Revision
5	LITD 31 (28575)	Information Technology- Data Centres -Key Performance Indicators Part 4 IT Equipment Energy Efficiency for Servers ITEEsv Amendment - 1
6	LITD 31 (28576)	Information Technology Data Centres Key Performance Indicators Part 5 IT Equipment Utilization for Servers ITEUsv Amendment - 1

Finalized Draft Indian Standard

SI. No.	Doc No.	Title
		No Records Found

Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
		No Records Found

Total Published Standards:8 Total Standards Under development:6

Aspect Wise Report

Product : 1
Code of Practices : 1
Methods of Test : 0
Terminology : 1
Dimensions : 0
System Standard : 0
Safety Standard : 0
Others : 11
Service Specification : 0
Process Specification : 0
Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title

1	IS 11713 (Part 1):1986 Reviewed In : 2019	Guide for physical planning of computer complexes Part 1 layout
2	IS 11713 (Part 2):1986 Reviewed In : 2019	Guide for physical planning of computer complexes Part 2 safety
3	IS 11713 (Part 3):1986 Reviewed In : 2019	Guide for physical planning of computer complexes Part 3 Security considerations
4	IS 11713 (Part 4):1986 Reviewed In : 2019	Guide for physical planning of computer complexes Part 4 services

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS/ISO/IEC 30134-1:2016 ISO/IEC 30134-1 : 2016 Reviewed In : 2023 ISO/IEC 30134-1:2016	Information Technology Data Centers Key Performance Indicators Part 1 Overview and General Requirements