# **Minutes**

MEETING	NO. OF MEETING	DAY & DATE	TIME	VENUE
Illumination Engineering and Luminaires Sectional Committee, ETD 49	10 <sup>th</sup>	18 <sup>th</sup> April 2024 Thursday	1400 Hrs	Hybrid

**CHAIRPERSON:** Prof. Saswati Mazumdar **MEMBER SECRETARY**: Ms Neha Agarwal

## **Member Present:**

SI. No	Organization	Member Name	Physical/online
1.	Jadhavpur University, Kolkata	Dr Saswati Mazumdar	Physical
2.	ETD, BIS	Ms Neha Agarwal	Physical
3.	Binay Opto Electronics Private Limited, Kolkata	Shri Vineet Rohatgi	online
4.	Consumer Voice, New Delhi	Shri Harbans Wadhwa	online
5.	Crompton Greaves, Mumbai	Ms Uma lanka	online
6.	CSIR - National Physical Laboratory, New Delhi	Dr. Parag Sharma	online
7.	CSIR - National Physical Laboratory, New Delhi	Shri V K Jaiswal	online
8.	Electric Lamp and Component Manufacturers Association of India, New Delhi	Shri Santosh Agnihotri	Physical
9.	Electric Lamp and Component Manufacturers Association of India, New Delhi	Shri Amal Sengupta	Physical
10.	Electrical Research and Development Association, Vadodara	Shri Nitin Patel	online
11.	Energy Efficiency Services Limited, New Delhi	Shri Anil K Choudhary	online

12.	Havells India Limited, Noida		Physical
		Ms Sudeshna	
		Mukhopadhyay	
13.	Havells India Limited, Noida	Shri Pankaj Mittal	Physical
14.	In Personal Capacity	Shri P K Mukherjee	online
15.	Indian Society of Lighting		Physical
	Engineers, New Delhi	Dr. Rajat Subhra Mandal	
16.	Luminaries Accessories		Physical
	Components Manufacturers		
	Association, Maharashtra	Shri Samkit Shah	
17.	Signify Innovations India Limited,		online
	Gurugram	Shri Nitish Poonia	
18.	Surya Roshni Limited, Delhi	Shri Amit Tyagi	online
19.	University of Engineering &		online
	Management, Jaipur	Dr Aniruddha Mukherjee	
20.	Dixon	Shri Sumit Rai Gambhir	online

#### Item 0 WELCOME ADDRESS BY THE CHAIRPERSON

Prof. Saswati Mazumdar welcomed all the members present during the meeting in-person or through virtual mode. She wished all the members for fruitful discussion on all the agenda items.

Ms Neha Agarwal. Member Secretary welcomed the members present during the meeting.

The meeting started with brief introduction of all the members present during the meeting.

### Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

1.1 In view of no comments received, the committee confirmed the minutes of the 09<sup>th</sup> meeting of Illumination Engineering and Luminaires Sectional Committee, ETD 49 held on 9<sup>th</sup> Nov 2023.

## 1.2 Annual Program for Standardization (APS), 2024-25 for ETD 49

Ms Neha Agarwal. Member Secretary explained the key elements of APS such as meeting calendar, NWIP (carried over & current), Standards under review (carried over & current), Standards under revision (carried over & current).

Members noted the Annual Program for Standardization (APS), 2024-25 for ETD 49.

#### 1.3 Process reforms in Standardization

Members noted the information.

## 1.4 Actions Arising Out of Previous Meetings

Sl. No.	Subject	Decision of the last meeting	Action/Remarks	Decision taken during the meeting
1.	7785 Elevated	requested to prepare the revised drafts and to review regarding adoption of IEC TS 61827 'Electrical installations for lighting and beaconing of aerodromes —Characteristics of inset and elevated	Vardhman Airports, IEC TS 61827 was wide circulated vide DGBIS letter dated 26 <sup>th</sup> Oct 2023 with last date of comments as 18 <sup>th</sup> Nov 2023.  Comments were received from Shri P K Mukherjee, VOICE and ISLE in favor of adoption of IEC TS	Vardhmar Airport regarding addition of other like surge protection, THD % etc which are missing in IEC TS 61827.  The members opined that specified values for THD and surge protection may be specified
2.	1944 (Part 1 & 2) 'Code of Practice for	through mail dated 02/05/2023 with last date of comments as 01/06/2023 for	on 14 September 2023 to discuss all the comments received from members.  Prof Suddhasatwa Chakraborty (Convenor) was requested to modify the document in consultation with Shri Madan Rawal inline with the changes as discussed during the meeting and	circulated amongst panel members vide email dated 15 April 2024 for seeking comments.  Further, the committee recommended to divide the draft in two sections consisting separate section for tunnel lighting.  It was decided to circulate the draft under wide circulation.

		Γ.		
		date.	submit the modified draft	
			to BIS.	
			The modified document	
			was received on	
			19/03/2024. The same will	
			be circulated amongst	
			members for seeking	
			comments shortly.	
3.	Specification	The revised draft for IS 7537/	The droft was recirculated	The committee discussed the
3.	for Road Traffic		vide email dated 6 <sup>th</sup> July	
	Signals		2023 with last date of	
	Signais	Traffic Signals first revision"		
		was wide circulated vide		
		DGBIS letter dated 31 March		a) To modify the scope as
		2023 with last date of	However, no comment	-
		comments as 27 May 2023.	was received.	'working voltages d.c. supplies
				up to 250 V or a.c. supplies up to
		No comments received so far.	3	1000 V at 50 Hz'.
		The committee decided to	consider.	
		The committee decided to recirculate the draft for		h) Cracific lamp cons on not
		seeking comments.		b) Specific lamp caps are not required.
		seeking comments.		required.
				c) Cl 4.14.3- Specify '10kV±3%
				for 50\mus\pm 20\%, with note as
				'applicable for a.c. luminaires
				only'.
				With the above mentioned
				With the above mentioned changes, the committee decided to
				send the draft for printing.
				send the draft for printing.
4.	Revision of	Shri Rajat Mandal, ISLE has	Part 1 'Lighting	The committee noted the
	National		•	information. Member Secretary
				urged members to review the
	SP 72	1 3		drafts and submit the comments.
		identify technical gaps, if any,		
			March 2024 with last date	
		chapter, editorial errors, language part errors, missing	of comments as 20 <sup>th</sup> April	
		content etc.	404 <del>1</del> .	
		Content etc.	Other parts of revised	
		University of Engineering	*	
		and Management, Jaipur has		

	kindly agreed to review the revised chapters of NLC.  Shri Anirudhha Mukherjee, Dean Academics and his team has submitted few chapters after reviewing the same.  The committee may note.	currently undergoing review. These parts will be circulated shortly.	
0322 series	IS 10322 series till the publication of under revision IEC 60598-1. The revised version of IEC 60598-1 is	series in line with latest IEC publications, a panel was constituted comprising of the following members:  1. Mr. P.K. Mukherjee, Chairperson 2. Mr. Parag Sharma, CSIR-NPL 3. Mr. Nitish Poonia, Signify 4. Mr. Santosh Agnihotri, Orient 5. Mr. Amit Tyagi, Surya. 6. Mr. Amal Sengupta,	suggested to also include reference of IS 694 for PVC cables.  Further, it was decided to circulate IEC 60598-1 along with National Annexure comprising changes in IEC as submitted by ELCOMA as

			In order to prepare the National Annexures to IEC 60598 and the section 1 to section 8, ELCOMA was requested to submit the detailed inputs regarding country specific deviations with brief justification wherever required, latest by 15th March 2024.  The inputs received from	
			ELCOMA are placed at Annexure 2. The committee may consider.	
6.	3646 (Part 1): 1992 Code of practice for Interior illumination Part 1 General Requirements and	(22373) was circulated through portal and mail dated 1 May 2023 with last date of comments as 31 May 2023 amongst committee members	Editorial comment were received from Shri Nitish Poonia.  Further, no comments were received.  The committee may approve the wide circulation of revised draft	The committee approved the draft for wide circulation.
7.	Formulation of Indian Standards on UV-C devices	ETD 49 (21837) Doc. On 'Germicidal UV-C Irradiation Devices Part 1 Safety Requirements' was wide circulated on 23/01/2023 with last date of comments as 20 March 2023.		The members noted the information.
8.	New Work Item Proposals (NWIPs)	Indian Standards on 'Intelligent & Connected LED Lighting' and Connectivity Protocols for Smart Lighting Systems.	1st panel meeting was held on 11-08-2023.  During the meeting, the panel thoroughly analyzed and deliberated on IEC standards, gaining a deeper	The members noted the information.

understanding of their	
implications for the smart	
lighting industry.	
As decided during the	
meeting, IEC 62386 series	
"Digital addressable	
lighting interface" and IEC	
TC 34 Doc. 1034e	
"Outdoor Lighting	
Systems - Characteristics	
of selected applications"	
were shared with panel	
members for seeking their	
feedback for further	
development in this	
regard.	
The committee may	
consider.	

## Item 2 REVIEW OF COMPOSITION OF SECTIONAL COMMITTEE, ETD 49

- **2.1** The committee noted the composition of the sectional committee ETD 49. The following was decided:
  - a) Update nominations from Havells India
  - b) Delete Shri Deepak Kumar, In Personal Capacity
  - c) Co-opt Intertek India Pvt Ltd, New Delhi

Further, Prof Saswati Majumdar requested all organizations to nominate second alternate member also.

## Item 3 APPROVAL OF DRFAT INDIAN STANDARDS FOR FINALIZATION/WC

ETD 49 (23883)	Electrical Installations For Lighting	WC Stage	Please refer Item
	And Beaconing Of Aerodromes		1.4(1)
	Characteristics Of Inset And Elevated		
	Luminaires Used On Aerodromes		
	And Heliports		

ETD 49 (22373)	Code Of Practice For	Interior   P Draft Stage	Please refer Item
	Illumination Part 1	General	1.4(6)
	Requirements	And	
	Recommendations For	Working	
	Interiors First Revision		

#### **Item 4 PRESENT POSITION OF WORK**

**4.1** The committee noted the programme of work of ETD 49.

## 4.2 Review of Standards - Taking up Revision of pre-2000 standards

The committee noted the status of revision of pre-2000 standards. Please refer to Annexure 1 for discussion and decision taken against pre-2000 standards.

#### Item 5 REVIEW/REAFFIRMATION OF PUBLISHED INDIAN STANDARDS

The committee noted the information.

#### Item 6 NEW SUBJECTS AND FUTURE PROGRAMME OF WORK

**6.1** The committee noted the information.

### 6.2 New Work Item Proposals (NWIPs)

## 1. Indian Standards on 'Search Light'- by Shri Narender Reddy Beesu

The committee deliberated on the new subject received on search light. Member secretary also informed regarding existing Indian Standard on Flash light i.e. IS 2083: 1991.

It was decided to circulate the draft document as received from the proposer along with the copy of IS 2083 amongst members for further review.

## 2. Luminaires for Swimming Pools and Similar Applications

**IEC 60598-2-18:2022** 'Luminaires - Part 2-18: Particular requirements - Luminaires for swimming pools and similar applications'

The committee agreed to take up the subject for formulation of Indian Standard. It was decided to circulate the concerned IEC as P-draft amongst committee members for seeking feedback.

#### 3. Portable luminaires for children

**IEC 60598-2-10: 2003** 'Luminaires - Part 2-10: Particular requirements - Portable luminaires for children'

The committee discussed that IEC 60598-2-10 covers the traditional light source which are obsolete and are not being used. Therefore, the committee did not approve the adoption of IEC 60598-2-10.

## 6.3 Closer examination of the New Work Item Proposals received from IEC SC 34D

### 6.4 Scientific and Periodic Journals to be subscribed

The committee noted the information.

### 6.5 Participation in National and International events related to Lighting

The committee noted the information.

#### Item 7 INTERNATIONAL ELECTROTECHNICAL COMMISSION

## 7.1 program of Work

**7.1.1** India is having "P" membership in IEC committees: IEC/SC 34 D.

The committee noted the information.

#### Item 8 DATE AND PLACE FOR THE NEXT MEETING

#### 8.1 Annual Calendar of ETD 49

Committee	1st Quarter	2nd Quarter	3rd	4th
			Quarter	Quarter
ETD 49	19-04-2024	08/08/2024	25-10-2024	16/01/2025

The committee noted the annual meeting calendar of ETD 49.

#### **Item 9 ANY OTHER BUSINESS**

9.1 Shri Amal Sen Gupta, ELCOMA proposed to constitute a small WG/Panel comprising 3-4 experts to examine the query received from Customs/Registration Department regarding coverage of various lighting products under CRO scheme.

He was requested to submit a detailed proposal for taking further necessary actions in this regard.

In view of no other business, the meeting ended with vote of thanks to chair.

# ANNEX 1

# Review of Standards - Taking up Revision of pre-2000 standards

SI	IS No.	Title	Decision taken during the previous meeting	Status	Decision taken during the meeting
<b>No.</b>	IS 1944 : Part 5 : 1981	Code of practice for lighting of public thoroughfares Part 5 lighting for grade separated junctions bridges and elevated road Group D	Please refer Item 1.4	4 (2) of agenda.	Please refer Item 1.4 (2).
2.	IS 1944 : Part 6 : 1981	Code of practice for lighting of public thoroughfares Part 6 lighting for town and city centers and areas of civic importance Group E			
3.	IS 1944 : Part 7 : 1981	Code of practice for lighting of public thoroughfares Part 7 lighting for roads with special requirements Group F			
4.	IS 1944 : Part 1 and 2 : 1970	Code of practice for lighting of public thoroughfares First Revision			
5.	IS 2672 : 1966	Code of practice for library lighting	To be Archived		The committee approved the same.
6.	IS 3646 : Part 1 : 1992	Code of practice for interior illumination Part 1 general requirements and recommendations for working interiors First Revision	The committee noted the information provided and requested ELCOMA to expedite the preparation of draft revision document.	Please refer Item 1.4 (6) of agenda.	Please refer Item 1.4 (6).
7.	IS 4347 : 1967	Code of practice for hospital lighting	To be Archived	<u> </u>	The committee approved the same.
8.	IS 6665 : 1972	Code of practice for industrial lighting	To be Archived		The committee approved the same.

	10 7527	C:6:4:	TT1	D1	Dl f 1 4 (2)
9.	IS 7537 : 1974	Specification for road traffic signals	Under revision	Item 1.4 (3)	Please refer Item 1.4 (3).
9.	17/4	signais	Tevision	of agenda.	
	IS 7785 :	Specification for elevated type	Under revision	Please refer	Please refer Item 1.4 (1)
10	D4 1 .	aerodrome lighting fittings Part	Chack to vision	Item 1.4 (1)	110000 10101 10001 111 (1)
10	1975	1 general requirements		of agenda.	
	IS 7785 :	Specification for elevated type	Under revision		
	Part 2 :	aerodrome lighting fittings Part	Chack to vision		
	1976	2 fixed focus high intensity			
11		biqireectional runway edge			
		lighting fittings			
	IS 7785 :	Specification for elevated type	Under revision		
	Part 3 :	aerodrome lighting fittings Part			
12	1976	3 low intensity runway edge			
		lighting - Fittings			
	IS 7785 :	Specification for elevated type	Under revision		
	Part 4 : Sec	aerodrome lighting fittings Part			
13	1:1981	4 angle of approach lights Sec 1			
		visual approach slope indicators			
	IS 7785 :	Specification for elevated type	Under revision		
	Part 5 : Sec	aerodrome lighttNg fittings Part			
	1:1981	5 approach lighting fittings Sec			
14		1 high intensity elevated			
		approach lighting fittings			
	IS 7785 :	Specification for elevated type	Under revision		
	Part 6 : Sec	aerodrome lighting fittings Part			
	1:1981	6 taxiway lights Sec 1 low			
4.5		intensity omni - Directional			
15		elevated taxiway lighting fittings			
16	IS 10894 :	Code of practice for lighting of	To be Archived	I	The committee approved
10	1984	educational institutions			the same.
17	IS 10947 :	Code of practice for lighting for	To be Archived		The committee approved
''	1984	ports and harbours			the same.
	IS 11071 :	Specification for inset type	Under revision	Please refer	Please refer Item 1.4 (1)
18	Part 1 :	aerodrome lighting fittings Part		Item 1.4 (1)	
	1984	1 general requirements and tests		of agenda.	
	IS 11071 :	Specification for inset type	Under revision		
	Part 2 :	aerodrome lighting fittings Part			
19	1984	2 runway centre line lighting			
	IC 11071	fittings	TT. 4	-	
	IS 11071 :	Specification for inset type	Under revision		
20	Part 3 : 1984	aerodrome lighting fittings Part			
	1704	3 approach lighting fittings			

21	IS 11071 : Part 4 : 1984	aerodrome lighting fittings Part 4 touch down zone lighting fittings			
22	IS 11116 : 1984	Code of practice for lighting for airport aprons	To be Archived		The committee approved the same.
23	IS 12309 : Part 1 : 1988	Code of practice for installation and maintenance of aerodrome lighting fittings	M/s Vardhman Lighting Solutions has been requested to prepare draft revision documents	Awaited	Reminder mail to be sent. Airport Authority of India will also be requested to review and suggest modifications.
24	IS 12309 : Part 2 : 1988	Code of practice for installation and maintenance of aerodrome lighting fittings Part 2 maintenance			
25		Method of measurement Part 1 luminaires for use in interior lighting	The committee requested for NPL, UL and ERDA to provide	Awaited.	The committee approve the archiving of IS 13383 series.
26		Method of measurement Part 2 luminaires for road and street lighting	the draft revision documents.		
27	IS 13383 : Part 3 : 1992	Photometry of luminaires - Methods of measurement Part 3 luminaires for floodlighting			