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**BUREAU OF INDIAN STANDARDS**  
**MINUTES**

Name of the Committee	No. of Meeting	Day	Date	Time	Venue
Lifts, Escalators and Moving Walks Sectional Committee, ETD 25	31st	Friday	April 12, 2024	10:30 h	<i>Manakalaya, Bureau of Indian Standards, Mumbai</i>

**CHAIRPERSON:** Shri Sandeep Arvind Patil

**MEMBER SECRETARY:** Shri Nitish Kumar Jain

**Members Present:**

Sl. No.	Organization	Member Name	Member E Mail
1.	Government of Maharashtra, Chief Electrical Inspector, Mumbai	Shri Sandeep Arvind Patil ( <i>Chairperson</i> )	ceimumbai.nrg-mh@gov.in
2.	Bureau of Indian Standards, New Delhi	Shri Nitish Kumar Jain ( <i>Member Secretary</i> )	eetd@bis.gov.in
3.	Delhi Metro Rail Corporation Limited, Delhi	Shri Amit Kumar Vikas	amit20415.iitd@gmail.com
4.	Elevator and Escalator Component Manufacturers' Association of India, Chennai	Shri Swaminathan Ramakrishnan	swaminathanramakrishnan@wittur.com
5.	Fujitec India Private Limited, Mahindra World City, Chengalpattu	Shri Manokar S.	Manokar.s@in.fujitec.com
6.	Government of Maharashtra, Chief Electrical Inspector, Mumbai	Shri Abhijeet L Kasture	eislbnlift.nrg-mh@gov.in
7.	Government of Maharashtra, Chief Electrical Inspector, Mumbai	Shri Uday U Dambe	udaydambe2006@gmail.com

8.	Government of Tamil Nadu, Chief Electrical Inspectorate, Chennai	Shri B. Dhinakar Babu	b.dinakarbabu@gmail.com
9.	Government of Tamil Nadu, Chief Electrical Inspectorate, Chennai	Shri P. Palani	eitech@tn.gov.in
10.	In Personal Capacity, Mumbai	Shri P M Tipnis	pravinmtipnis@gmail.com
11.	Indian Electrical and Electronics Manufacturers Association, New Delhi	Shri Pratik Pravin Shah	pratik.shah@ieema.org
12.	Kone Elevator India Private Limited, Chennai	Shri U. Viswanathan	u.viswanathan@kone.com
13.	Nibav Lifts Pvt Ltd*	Shri C Balasrinivasan	bala@nibavlifts.com
14.	Nibav Lifts Pvt Ltd*	Shri Manish Tiwani	manish.tiwani@nibavlifts.com
15.	Otis Elevator Company (India) Limited, Mumbai	Shri Abhijit Dandekar	abhijit.dandekar@otis.com
16.	Otis Elevator Company (India) Limited, Mumbai	Shri Shrihari Vispute	shrihari.vispute@otis.com
17.	Otis Elevator Company (India) Limited, Mumbai	Shri Praveena Siddaramanna	praveena.siddaramanna@otis.com
18.	Schindler India Private Limited, Mumbai	Shri Nitin Kadam	nitin.kadam@schindler.com
19.	TAK Consulting Private Limited, Mumbai	Shri T. A. K. Mathews	tak.mathews@takconsulting.net
20.	TK Elevator India Private Limited, Navi Mumbai	Shri Vishnu Parashar	vishnu.parashar@tkelevator.com
21.	TK Elevator India Private Limited, Navi Mumbai	Shri Deepak Balani	Deepak.balani@tkelevator.com

Invitee\*

## **ITEM 0 GENERAL**

### **0.1 Welcome by Opening Remarks by the Chairman**

Shri Sandeep Arvind Patil, Chairman of ETD 25 welcomed all the members of the Committee present in the meeting. The chairman elaborated on the growing importance of the standards. He appreciated the efforts of all the members for their contribution for incorporation of the latest practices in the area. He applauded the efforts of Panel P4 and for working diligently toward preparing Indian Standards. He solicited active participation in the meeting's discussions on all the agenda points.

**0.2** Shri Nitish Kr Jain, Member Secretary ETD 25 also welcomed everyone at BIS, Mumbai. He thanked everyone for participating in the meeting. He briefed the members of the various issues to be deliberated upon during the course of the meeting and requested active participation of the members in the deliberations on various issues covered in the agenda.

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

**1.1** Members requested to include the resolution on Comment from CEI, Karnataka reg. incorporation of IoT solutions as part of IS specifications as the same was missing in MoM of the 30<sup>th</sup> Meeting.

Member Secretary informed that the resolution has been included in Item 6.10 of the Agenda.

**1.2** Referring to Item 3.3(d) of MoM, members raised objection on the cooption of Shri Deepak Monga as a fire expert in Panel 4 stating it wasn't decided. After deliberate discussions, it was decided to drop nomination of Shri Deepak Monga from expert panel P4.

There being no further comments, the minutes of the last meeting (30th meeting) of Lifts, Escalators and Moving Walks Sectional Committee, ETD 25 held on 11-10-2023 at BIS HQ, New Delhi, circulated vide BISDG letter No. ETD 25/A-2.30 dated 16-11-2023 has been formally confirmed.

### **Item 2 COMPOSITIONS OF LIFTS, ESCALATORS AND MOVING WALKS SECTIONAL COMMITTEE, ETD 25**

**2.1** The present composition of ETD 25 and ETD 25/Panel P4 was reviewed by the committee.

#### **2.1.1 ETD 25 Committee Composition decisions:**

- a) The committee felt there is a need of active participation of the different Government Departments. It was decided to re-write to all Govt. Departments (ones that haven't attended the last two meetings) requesting for active participation.
- b) The committee decided to drop following organizations in view of inactive participation:
  - i) Adani Power Limited, Ahmedabad.
  - ii) Kalpataru Limited, Mumbai.
  - iii) Shapoorji Pallonji and Company Private Limited, Mumbai.

### 2.1.2 ETD 25/Panel 4 Composition decisions:

Member Secretary informed about the guidelines regarding the restriction in no. of experts in panels within the Sectional Committee. Chairperson opined that lifts standard consists of set of components which require expertise from various domains, having 4-5 members will be too meagre.

The updated composition of ETD 25/Panel 4 is placed at Annex A.

### Item 3 PRESENT POSITION OF WORK OF ETD 25

3.1 & 3.2 The committee noted the information provided in Annex 3 and Annex 4 of the Agenda.

### Item 4 P-DRAFTS UNDER PREPARATION

Sl No.	Item No. of Agenda	Item	Action Taken	Decision
1)	4.1	<p>Safety rules for the construction and installation of lifts – <b>Special lifts for the transport of persons and goods – Stairlifts and inclined lifting platforms intended for persons with impaired mobility</b></p> <p>Mr. Aniket Jawalkar agreed to prepare the draft on Stairlift and share with the BIS to formulate Indian Standard.</p>	<p>Mr. TAK agreed to follow up with concerned party for their participation in P4.</p>	<p>Mr TAK informed that he will share details of Mr Arun Narang, <i>Bharat Elevator &amp; Spring Company</i> Thane, who will be preparing draft on Stairlifts as he was unable to get the draft from Mr. Aniket Jawalkar.</p>

### Item 5 DRAFTS FOR APPROVAL FOR WIDE CIRCULATION

Nil.

### Item 6 DRAFTS FOR FINALIZATION

Sl No.	Item No. of Agenda	Item	Action Taken	Decision
1.	6.1	<p><b>Amendment No 1 to IS 17900 Part 6: 2022: QR code requirements.</b></p> <p>The draft amendment containing QR code requirements was discussed. A note was decided to</p>	<p>The committee decided to send the draft Amendment prepared by P4 for wide circulation.</p>	<p>The committee discussed the comments placed at Annex 5 of Agenda. It was</p>

		<p>be added indicating that the responsibility for issuing &amp; maintaining QR code would rest with the Lift Authority of respective states.</p>	<p><i>Doc: ETD 25(24981)</i> wide circulated dated 29-02-2024 with last date of comments as 30-03-2024.</p>	<p>mentioned by Chairperson that the idea behind QR Code was to provide lift license information and the dynamic information which can be accessed by anyone upon scanning the QR code. QR code on lift license can be decided by respective Lift Authority of respective states..</p>
2.	6.2	<p><b>Draft IS 17900 Part 5: Lifts for The Transport Of Persons And Goods Part 5 Guide For Inspection Of Lifts</b> (Superseding IS 14665 Part 5:1999)</p> <p>The draft standard now applies to both electric traction and hydraulic passenger/goods lifts.</p>	<p>The committee decided to send the document prepared by P4 for wide circulation.</p> <p><i>Doc: ETD 25(24455)</i> wide circulated dated 19-12-2023 with last date of comments as 17-02-2024.</p>	<p>The committee discussed the comments placed at Annex 5.</p> <p>As the comments were editorial in nature, the committee approved the comments based on the recommendation of Panel P4.</p> <p>The committee decided to finalize the draft after incorporation of comments and send the document for printing.</p>
3.	6.3	<p><b>Draft IS 17900 Part 7 Section 6 Lifts for Transport Of Persons And Goods Part 7 Lifts For</b></p>	<p>The committee decided to send the document</p>	<p>In view of no comments</p>

		<p><b>Special Applications Section 6 Occupant Evacuation Lifts</b></p> <p>The draft was sent from BIS to fire experts including those who are members of the ETD 25 committee, e.g. Mr Warick, Mr. Mishra, etc. with a note urging the perusal of the document and subsequently input to the same. No comments were received.</p>	<p>prepared by P4 for wide circulation.</p> <p>Chairman recommended sending the draft to State fire departments for soliciting their comments.</p> <p><i>Doc: ETD 25(24457)</i> wide circulated dated 19-12-2023 with last date of comments as 17-02-2024.</p>	<p>received from State fire departments, it was decided to schedule a follow-up meeting with Mr Warick, &amp; Chief Fire Officers from Maharashtra Govt for seeking comments and the minutes of the meeting to be recorded.</p>
4.	6.4	<p><b>Draft IS 17900 Part 11: Lifts For The Transport Of Persons And Goods Part 11: Safety Norms For Existing Lifts Risk Assessment And Risk Reduction</b> (Superseding IS 17491 : 2020)</p> <p>Draft was prepared and approved by Panel P4.</p>	<p>The committee decided to send the document prepared by P4 for wide circulation.</p> <p><i>Doc: ETD 25(24445)</i> wide circulated dated 16-12-2023 with last date of comments as 14-02-2024.</p>	<p>The committee discussed the comments placed at Annex 5.</p> <p>As the comments were editorial in nature, the committee approved the comments based on the recommendation of Panel P4.</p> <p>The committee decided to finalize the draft after incorporation of comments and send the document for printing.</p>
5.	6.5	<p><b>Draft IS 17900 Part 3 Sec 2 Lifts For The Transport Of Persons And Goods Part 3: Specifications For Planning And Selection</b></p>	<p>The committee decided to send the document prepared by P4 for wide circulation.</p>	<p>The committee discussed the comments placed at Annex 5.</p>

		<p><b>Section 2: Goods &amp; Automobile Lifts</b></p> <p>Draft was prepared and approved by Panel P4.</p>	<p><i>Doc: ETD 25(24328)</i> wide circulated dated 05-12-2023 with last date of comments as 03-02-2024.</p>	<p>As the comments were editorial in nature, the committee approved the comments based on the recommendation of Panel P4.</p> <p>The committee decided to finalize the draft after incorporation of comments and send the document for printing.</p>
6.	6.6	<p><b>Draft IS 17900 Part 10 Lifts For The Transport Of Persons And Goods Part 10 Replacement Of Existing Passenger And Goods Passenger Lifts In Existing Buildings</b> (Superseding IS 17386)</p> <p>Draft was prepared and approved by Panel P4.</p>	<p>The committee decided to send the document prepared by P4 for wide circulation.</p> <p><i>Doc: ETD 25(24447)</i> wide circulated dated 16-12-2023 with last date of comments as 14-02-2024.</p>	<p>In view of no comments received, the committee finalized the document and decided to send it for printing.</p>
7.	6.7	<p><b>Draft IS 17900 Part 7 Sec 4 Lifts For The Transport Of Persons And Goods Part 7 Lifts For Special Applications Section 4 Lifts for Persons with Disabilities</b> (Superseding IS 15330)</p> <p>Draft was prepared and approved by Panel P4.</p>	<p>The committee decided to send the document prepared by P4 for wide circulation.</p> <p><i>The Chairman recommended sending the draft to the state disability welfare associations to solicit their comments.</i></p> <p><i>Doc: ETD 25(24343)</i> wide circulated dated</p>	<p>The committee discussed the comments placed at Annex 5.</p> <p>As the comments were editorial in nature, the committee approved the comments based on the</p>

			06-12-2023 with last date of comments as 04-02-2024.	<p>recommendation of Panel P4.</p> <p>The committee decided to finalize the draft after incorporation of comments and send the document for printing.</p>
8.	6.8	<p><b>Draft IS 17900 Part 4 Lifts For The Transport Of Persons And Goods Part 4 Control devices, signals and additional fittings</b></p> <p>Draft was prepared and approved by Panel P4.</p>	<p>The committee decided to send the document prepared by P4 for wide circulation.</p> <p><i>Doc: ETD 25(24446)</i> wide circulated dated 16-12-2023 with last date of comments as 14-02-2024.</p>	<p>The committee discussed the comments placed at Annex 5.</p> <p>As the comments were editorial in nature, the committee approved the comments based on the recommendation of Panel P4.</p> <p>The committee decided to finalize the draft after incorporation of comments and send the document for printing.</p>
9.	6.9	<p><b>Draft IS 17900 Part 7 Sec 3 Lifts for The Transport of Persons and Goods Part 7: Lifts for Special Applications Section 3: Private Residence Lifts (Home Lifts)</b> (Superseding IS 15259)</p>	<p>The committee decided to send the document prepared by P4 for wide circulation.</p> <p><i>Doc: ETD 25(24463)</i> wide circulated dated 20-12-2023 with last</p>	<p>The committee discussed the comments placed at Annex 5.</p> <p>As the comments were editorial in nature, the</p>



		Draft was prepared and approved by Panel P4.	date of comments as 18-02-2024.	committee approved the comments based on the recommendation of Panel P4.  The committee decided to finalize the draft after incorporation of comments and send the document for printing.
10.	6.10	<p><b>Comment from CEI, Karnataka reg. incorporation of IoT solutions as part of IS specifications</b></p> <p>The committee considered the comment received from CEI, Karnataka and also re-discussed the comments received from KEMA.</p> <p>The committee clarified that in order to keep all Indian Standards technologically agnostic in nature, provisions of IoT solutions must not be included in the Indian Standards. However, the IoT solutions offered and incorporated in the lifts must ensure that they are tamper-proof and that cyber security is ensured while utilizing these solutions.</p> <p>The committee decided to adopt <b>ISO 8201-20: 2022 'Electrical requirements for lifts, escalators and moving walks—Part 20: Cybersecurity'</b> as an Indian Standard (as the same has also been assessed by the committee</p>	<p>The committee decided to send the document for wide circulation based on the recommendation by P4.</p> <p>Doc. No. (24769) circulated dated 02-02-2024 with last date of comments as 03-03-2024.</p>	In view of no comments received, the committee finalized the document and decided to send it for printing.

		and KEMA during its development stages as and when received from ISO TC 178)		
11.	6.11	<b>Draft IS 17900: Lifts for the Transport of Persons and Goods: Part 7: Lifts for Special Applications: Section 2: Rack and Pinion Lifts used in Under-Construction Buildings</b>	The committee decided to send the document for wide circulation based on the recommendation by P4.  Doc. No. (24387) circulated dated 08-12-2023 with last date of comments as 06-02-2024.	In view of no comments received, the committee finalized the document and decided to send the document for printing.

#### Item 7 DOCUMENTS FINALIZED FOR PRINTING

Sl No.	Item No. of last Agenda	Item	Action Taken	Decision
1.	7.1	<b>Draft IS 17900 (Part 7/Sec 1) Lifts for the transport of persons and goods: Part 7 Lifts for special applications Section 1 Lifts Used in Under-Construction Buildings</b>  <i>Doc: ETD 25 (19161)</i>	The committee decided to finalized the draft and send the document for printing.  The finalized draft is under editing.	The committee noted the information.
2.	7.1	<b>Draft IS 17900 Part 20 Lifts for The Transport of Persons and Goods Part 20 Dumbwaiters – Specifications and safety rules for planning, installation, operation and maintenance</b>  <i>(To supersede Section 2 of IS 14665 Part 2 &amp; Section 2 of IS 14665 Part 3)</i>	The finalized draft is under print.  Doc ETD 25 (19681) is ready for gazette.	<i>IS 17900 Part 20: 2024 published as an Indian Standard.</i>

## **Item 8 NWIP ON AIR DRIVEN ELEVATOR**

**8.1** Representative from Nibav Lifts Private Limited delivered a presentation on Air Driven Lifts being manufactured by them. They informed about the lift features & safety aspects equipped with and also compliance with various International Standards.

*Shri Abhijit Dandekar, OTIS Elevator Company Ltd* informed that the lift need to comply with Indian Standard IS 17900 Part 1 as it specifies the safety rules for new passenger or goods lifts. He informed that lifts with various drive mechanism like traction, positive or hydraulic has common set of standards for safety requirements. He stated that in India we follow prescriptive codes and not performance codes. He further informed that at present pneumatic drives are not covered under IS 17900. In order to add pneumatic drive, it must meet the same set of essential safety requirements irrespective of type of drive.

*After deliberate discussions, Nibav Lifts was requested to do a Clause wise comparison with IS 17900 Part 1 for safety aspects and compliance with IS 17900 Part 2 for lift components. The detailed comparison sheet will be reviewed by Panel 4 for further action in this regard. It was informed that if the lift meets the requirements of IS 17900 Part 1&2, then pneumatic drive can be added in passenger lift segment.*

## **Item 9 INTERNATIONAL ACTIVITIES**

**9.1 & 9.2** The committee noted the information given in the Agenda.

Members were encouraged to send nominations for participation in ISO TC 178 WG's in order to stay abreast of all the technological developments happening globally.

## **Item 10 IMPLEMENTATION OF INDIAN STANDARD**

The committee noted the information given in the Agenda.

## **Item 11 DATE AND PLACE OF THE NEXT MEETING**

It was decided to hold the next meeting at Ahmedabad. The final date and place shall be decided in consultation with the Chairman.

## **Item 12 ANY OTHER BUSINESS**

The committee discussed the Quality Control Order from DPIIT for Steel Wire Suspension Ropes for Lifts, Elevators and Hoists, as per Indian standard IS 2365; 2018. As current IS 2365: 2018 doesn't cover all types of ropes being used, it was proposed to request MED 10 to revise IS 2365 in line with ISO 4344 which is also referred in IS 17900 (Part 1) to cater the need of the industry.

There being no further business, the meeting ended with a vote of thanks to the Chair.

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