

Applicable Codes and Standards for Lifts and Escalators in India

by TAK Mathews

Confusion and ignorance on the applicable standards and codes for lifts and escalators has challenged some in the Indian elevator and escalator (E&E) industry, as well as users. This confusion was evident during the seminar by Prakash Bachani, director of the ETD Bureau of Indian Standards (BIS), at the IEEEEXPO 2008. With an estimated 300-400 E&E companies, this is worrisome. It is even complicated further as the standards are only recommendations, and there could be deviations to these standards and codes when enforced by legislation at the state level.

As per Bachani, the ETD 25 Lifts and Escalators Committee has the following scope: "To prepare standards and codes of practice for electrically operated lifts and escalators, including equipment and components."

Bachani has provided the following information on the current standards for reference.

The other document referred to is the National Building Code of India 2005, Part 8, Section 5: Installation of Lifts and Escalators.

Imported equipment normally must adhere to EN 81/EN 115, Japanese Industrial Standards, etc. The matter of concern to this reference is the vague awareness levels of these standards even among the suppliers. In any case the over-riding standard has to be that established by BIS or by the state.

These standards can be purchased at the offices of the Bureau of Indian Standards. For further information, contact BIS at website: www.bis.org.in or e-mail: eetd@bis.org.in.

S1. No.	IS Number/ DOC Number	Title	Reaffirm Date	No. of Amd.
1	IS 4591: 1968	Code of practice for installation and maintenance of escalators	Feb 2007	0
2	IS 8216: 1976	Guide for inspection of lift wire ropes	Feb 2007	0
3	IS 14665: Part 1: 2000	Electric Traction Lifts – Part 1: Guidelines for outline dimensions of passenger, goods, service and hospital lifts	Oct 2005	0
4	IS 14665: Part 2: Sec 1 and 2: 2000	Electric Traction Lifts – Part 2: Code of practice for installation, Operation and maintenance: Section 1; Passenger and goods lifts: Section 2; Service Lifts	May 2005	0
5	IS 14665: Part 3: Sec 1 and 2: 2000	Electric Traction Lifts – Part 3: Safety rules: Section 1; Passenger and goods lifts: Section 2; Service lifts	May 2005	0
6	IS 14665: Part 4: Sec 1-9: 2001	Electric Traction Lifts – Part 4: Components: Section 1; Lifts buffers: Section 2; Lift guide rails and guide shoes: Section 3; Lift car frame, car, counterweight and suspension: Section 4; Lift safety gears and governors: Section 5	Jun 2006	1
7	IS 14665: Part 5: 1999	Electric Traction Lifts – Specification – Part 5: Inspection manual	Mar 2004	0
8	IS 14671: 1999	Code of practice for installation and maintenance of hydraulic lifts	Mar 2004	0
9	IS 15259: 2002	Installation and maintenance of home lifts – Code of practice	Nov 2007	0
10	IS 15330: 2003	Installation and maintenance of lifts for handicapped persons – Code of practice	Mar 2008	0
11	IS 15785: 2007	Installation and maintenance of lift without conventional machine rooms – Code of practice		0

Draft Standards Issued in Wide Circulation

1	DOC.ETD 25(5975)	Code of practice for installation and maintenance of escalators and passenger conveyors
2	DOC.ETD 25(6105)	Electric traction lifts – Part 10: Poly phase electric motors for driving electric traction lifts