



भारतीय मानक ब्यूरो

(उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय, भारत सरकार)

BUREAU OF INDIAN STANDARDS

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Review Document

Basic Details

1.	Sectional Committee No. & Title:	MED 7 - Earth Moving Equipment and Material Handling
2.	IS No :	IS 13082 : Part 1 : 1991
3.	Title :	Bulk handling equipment - Ship unloader - Gantry mounted grab type - Code of practice for design, manufacture and erection:: Part 1 mechanical and structural requirements
4.	Date of Previous Review:	March, 2022

Review Analysis

5.1 Status of standard(s), if any from which assistance had been drawn in the formulation of this IS.

S.No.	Standard (No.)	Standard (Title)	Whether the standard has since been revised	Major changes	Action proposed
1	ISO 5049-1 : 1980	Mobile Equipment For Continuous Handling of Bulk Materials - Part 1: Rules For The Design of Steel Structures. Published by International Organization for Standardization.	Revised in 1994 and Re-affirmed in 2013	This second edition cancels and replaces the first edition (ISO 5049-1:1980), of which it constitutes a technical revision.	Update with revised standard.

5.2 Status of standard referred in the IS.

S.No.	Referred standards (No.)	Referred standards (Title)	Since revised IS no. of the corresponding IS	Changes in the referred Standards since last review of IS	Changes in the referred standard which are affecting the standard under review	Action proposed
1	IS 210 : 1978	Grey iron castings (third revision)	Revision in 2009 (fifth revision)	-	Assistance has been derived from ISO 185 : 2005 'Grey cast irons - Classification'	Update with revised standard.
2	919 (Part 1) : 1963	Recommendations for limits and fits for engineering : Part 1 General engineering	Revision in 2017 (third revision)	-	This revision harmonized with ISO 286-1 : 2010	Update with revised standard.
3	1136 : 1958	Preferred sizes for wrought metal products	Revision in 2008 (third revision)	-	Requirements of IS 1137 : 1990 'Thicknesses of sheet and diameters of wire (first revision)' have been incorporated	Update with revised standard.
4	1364 (Part 1) : 1983	Hexagon head bolts, screws and nuts of products grades C : Part 1 Hexagon head bolts (size range M5 to M36) (second revision)	Revision in 2018 (fifth revision)	-	Align with the latest version of ISO 4014 published in 2011.	Update with revised standard.
5	1364 (Part 2) : 1984	Hexagon head bolts, screws and nuts of products grades C : Part 2 Hexagon head screws (size range M5 to M36) (second revision)	Revision in 2018 (fifth revision)	-	Align with the latest version of ISO 4017 published in 2014.	Update with revised standard.
6	1364 (Part 3) : 1984	Hexagon head bolts, screws and nuts of products grades C : Part 3 Hexagon nuts (size range M5 to M36) (second revision)	Revision in 2018 (fifth revision)	-	Align with the latest version of ISO 4032 published in 2012.	Update with revised standard.
7	1364 (Part 4) : 1985	Hexagon head bolts, screws and nuts of products grades C : Part 4 Hexagon thin nuts (chamfered) (size range M1.6 to M36) (second revision)	Revision in 2003 (fourth revision)	-	Align with the latest version of ISO 4035 published in 1999.	Update with revised standard.
8	1364 (Part 5) : 1985	Hexagon head bolts, screws and nuts of products grades C : Part 5 Hexagon thin nuts (unchamfered) (size range M1.6 to M10) (second revision)	Revision in 2002 (fourth revision)	-	Align with the latest version of ISO 4036 published in 1999.	Update with revised standard.
9	1367 (Part 1) : 1980	Technical supply conditions for threaded steel fasteners : Part 1 Introduction and general information (second revision)	Revision in 2014 (fourth revision)	-	Align with the latest version of ISO 8992 : 2005.	Update with revised standard.
10	1367 (Part 2) : 1979	Technical supply conditions for threaded steel fasteners : Part 2 Product grades and tolerances (second revision)	Revision in 2002 (third revision)	-	Align with the latest version of ISO 4759-1 : 2000	Update with revised standard.
11	1367 (Part 3) : 1979	Technical supply conditions for threaded steel fasteners : Part 3 Mechanical properties and test methods for bolts, screws and studs with full loadability (second revision)	Revision in 2017 (fifth revision)	-	Align with the latest version of ISO 898-1 published in 2013.	Update with revised standard.
12	1367 (Part 5) : 1980	Technical supply conditions for threaded steel fasteners : Part 5 Mechanical properties and test methods for set screws and similar threaded fasteners not under tensile stresses (second revision)	Revision in 2018 (fourth revision)	-	Align with the latest version of ISO 898-5 published in 2012.	Update with revised standard.
13	1367 (Part 6) : 1980	Technical supply conditions for threaded steel fasteners : Part 6 Mechanical properties and test methods for nuts with specified proof loads (second revision)	Revision in 2018 (fourth revision)	-	Align with the latest version of ISO 898-2 : 2012	Update with revised standard.
14	1367 (Part 7) : 1980	Technical supply conditions for threaded steel fasteners : Part 7 Mechanical properties and test methods for nuts without specified proof loads (second revision)	No revision	-	No changes	No action required
15	1367 (Part 9) : 1979	Technical supply conditions for threaded steel fasteners : Part 9 Surface discontinuities on bolts, screws and studs (second revision)	Revision in 1993	-	This standard is bifurcated into two parts mentioned below: 1. IS 1367 (Part 9/Sec 1) : 1993 ISO 6157-1 : 1988 - Technical supply conditions for threaded steel fasteners: Part 9 surface discontinuities section 1 bolts, screws and studs for general applications (Third Revision) 2. IS 1367 (Part 9/Sec 2) : 1993 ISO 6167-3 : 1988 - Technical supply conditions for threaded steel fasteners: Part 9 surface discontinuities section 2 bolts, screws and studs for special applications (Third Revision)	Update with revised standard.
16	1367 (Part 10) : 1979	Technical supply conditions for threaded steel fasteners : Part 10 Surface discontinuities on nuts (second revision)	Revision in 2002 (third revision)	-	Aligning with ISO 6157-2 : 1995 by adoption under dual numbering system	Update with revised standard.
17	1367 (Part 12) : 1979	Technical supply conditions for threaded steel fasteners : Part 12 Phosphate coatings on threaded fasteners (second revision)	Revision in 1981 (second revision)	-	No changes	Update revision year
18	1367 (Part 13) : 1979	Technical supply conditions for threaded steel fasteners : Part 13 Hot-dip galvanized coatings on threaded fasteners (second revision)	Revision in 2020 (third revision)	-	Align with the latest version of ISO 10684 : 2004.	Update with revised standard.
19	1367 (Part 14) : 1984	Technical supply conditions for threaded steel fasteners : Part 14 Stainless steel threaded fasteners (second revision)	Revision in 2018 (fourth revision)	-	This standard is bifurcated into three parts mentioned below: 1. IS 1367 (Part 14/Sec 1) : 2018/ ISO 3506-1 : 2009 - Technical supply conditions for threaded steel fasteners: Part 14 mechanical properties of corrosion - Resistant stainless - Steel fasteners section 1 bolts, screws and studs (Fourth Revision) 2. IS 1367 (Part 14/Sec 2) : 2018/ ISO 3506-2 : 2009 - Technical Supply Conditions for Threaded Steel Fasteners Part 14 Mechanical Properties of Corrosion-resistant Stainless-steel Fasteners: Section 2 Nuts (Fourth Revision) 3. IS 1367 (Part 14/Sec 3) : 2018/ ISO 3506-3 : 2009 - Technical supply conditions for threaded steel fasteners: Part 14 mechanical properties of corrosion - Resistant stainless steel fasteners section 3 set screws and similar fasteners not under tensile stress (Fourth Revision)	Update with revised standard.
20	1367 (Part 16) : 1979	Technical supply conditions for threaded steel fasteners : Part 16 Designation system and symbols (second revision)	Revision in 2002 (third revision)	-	Align with the latest version of ISO 8991 : 1986.	Update with revised standard.
21	1367 (Part 18) : 1979	Technical supply conditions for threaded steel fasteners : Part 18 Marking and mode of delivery (second revision)	Revision in 1996 (third revision)	-	Requirements for mode of delivery that is Packaging have been modified as per IS 9141 : 1979 Code of practice for the packaging of fasteners (first revision)	Update with revised standard.
22	2016 : 1967	Plain washers (first revision)	No revision	-	No changes	No action required
23	2048 : 1983	Parallel keys and keyways (second revision)	No revision	-	No changes	No action required
24	2266 : 1977	Steel wire ropes for general engineering purposes (second revision)	Revision in 2019 (fifth revision)	-	In this revision, small wire ropes covered under IS : 3459 are incorporated in the corresponding construction in this standard.	Update with revised standard
25	2291 : 1981	Tangential keys and keyways (second revision)	Revision in 1990 (third revision)	-	Align with ISO 3117 : 1977.	Update with revised standard
26	2292 : 1974	Taper keys and keyways (first revision)	No revision	-	No changes	No action required
27	2293 : 1974	Gib-head keys and keyways (first revision)	No revision	-	No changes	No action required
28	2294 : 1986	Woodruff keys and keyways (second revision)	No revision	-	No changes	No action required
29	2327 : 1963	Dimensions for straight sided splines for general engineering use	Revision in 1993 (first revision)	-	Align with ISO 14 : 1982	Update with revised standard
30	3177 : 1977	Code of practice for overhead travelling cranes and gantry cranes other than steel works cranes (first revision)	Revision in 2020 (third revision)	-	Selection of wheel and giving due consideration of duty class, travel speed and wheel material.	Update with revised standard
31	3665 : 1966	Dimensions for involute sided splines	Revision in 1985 (first revision)	-	Recommendations for adhesion tests for variety of coatings system have been incorporated in Table 1 and a typical process chart has also been included for the guidance of the electroplaters, in this revision.	Update with revised standard
32	4009 (Part 1) : 1981	Grease nipples : Part 1 Button head grease nipples (first revision)	No revision	-	No changes	No action required
33	4009 (Part 2) : 1981	Grease nipples : Part 2 Conical head grease nipples (first revision)	No revision	-	No changes	No action required
34	4672 : 1982	Grease cups (first revision)	No revision	-	No changes	No action required
35	4673 : 1968	Wick feed lubricators	No revision	-	No changes	No action required
36	5019 : 1968	Lubricating plugs	No revision	-	Withdrawn	Update reference
37	5372 : 1975	Taper washers for channels (ISMC) (first revision)	No revision	-	No changes	No action required
38	5374 : 1975	Taper washers for I-beams (ISMB) (first revision)	No revision	-	No changes	No action required
39	5548 : 1970	Lubricating nipple adaptors	No revision	-	No changes	No action required
40	5664 : 1984	Lubricating connectors (first revision)	Revision in 2019	-	The experience gained in implementation of the standard has necessitated this revision	Update with revised standard
41	6166 : 1971	Thin taper keys and keyways	No revision	-	No changes	No action required
42	6167 : 1971	Thin parallel keys and keyways	No revision	-	No changes	No action required
43	7745 : 1975	Dimensions of lubrication holes, grooves and bore relief	-	-	Withdrawn	Update reference
44	8593 (Part 1) : 1977	Recommendations for centralised lubrication as applied to plant and machinery: Part 1 Oil lubrication	Revision in 2017 (first revision)	-	The experience gained in implementation of the standard has necessitated this revision	Update with revised standard
45	8593 (Part 2) : 1988	Recommendations for centralised lubrication as applied to plant and machinery: Part 2 Grease lubrication system	Revision in 2017 (first revision)	-	The experience gained in implementation of the standard has necessitated this revision	Update with revised standard
46	8593 (Part 3) : 1984	Recommendations for centralised lubrication as applied to plant and machinery: Part 3 Aerosol lubrication	No revision	-	No changes	No action required
47	13148 : 1991	Bulk handling equipment mobile continuous type - Rules for design of structures	Revision in 1999 (first revision)	-	Aligned with ISO 5049-1 : 1994.	Update with revised standard

5.3 Any other standards available related to the subject & scope of the standard being reviewed (International/regional/other national/association/consortia, etc or of new or revision of existing Indian Standard).						
S.No.	Standard (No.)	Standard (Title)	Provisions that could be relevant while reviewing the IS		Action proposed	
1	UNE 58214:2000	Mobile Equipment For Continuous Handling Of Bulk Materials - Rules For The Design Of Steel Structures. Published by Spanish Association of Standardization	The standard establishes rules for determining the loads, types and combinations of loads (main, additional and special loads) which must be taken into account when designing steel structures for mobile continuous bulk handling equipment.		No change required.	
5.4 Technical comments on the standard received, if any.						
S.No.	Source	Clause of IS	Comment	Action proposed		
No entry made in this table						
5.5 Information available on relevant technical developments						
S.No.	Source	Development	Relevant clause of the IS under review that is likely to be impacted (Clause & IS No.)		Action proposed	
No entry made in this table						
5.6 Issues arising out of changes in any related IS or due to formulation of new Indian Standard.						
S.No.	Related IS (revised or new)	Related IS Title	Provision in the IS under review that would be impacted & the clause no. or addition of new clause/provision		Changes that may be necessary in the Standards under review	Action proposed
No entry made in this table						
5.7 Any consequential changes to be considered in other IS.						
S.No.	Related IS to get impacted		Related IS Title	Requirements to be impacted		
No entry made in this table						

Other Details		
6.	Any other observation:	a) Clause 8 for brakes shall conform to relevant IS. b) IS 13082 part 2 and IS 13082 part 3 can be amalgamated into IS 13082 part 1 c) Clause 15.2 for shunt and series switches shall conform to relevant IS with the revision. d) Clause 6 for suitable AC and D.C motor shall conform to relevant IS with the revision. e) References can be updated with the revision of the IS.
7.	Upload Supporting Document(s)	
	7.1 ARP Report	68_4574_221201112444_ARP_Report.docx
	7.2 Draft Document	68_4574_221201112456_Draft_Document.docx
8.	Recommendations - On the basis of the analysis of the info available as mentioned above consideration of sectional committee is solicited on the following aspects of the IS under review:	The committee may take up the revision of the standard.