



**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 18 - Construction Plant And Machinery
2.	IS No :	IS 5891 : 1970
3.	Title :	Specification for hand - Operated concrete mixers
4.	Date of Previous Review:	March, 2017

### 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
No entry made in this table					

**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 1161 : 2014	Steel tubes for structural purposes - Specification (Fifth Revision)	(Fifth Revision)	The reference standard has adopted following- ISO 10799-1&2 ISO 12633-1&2	The standard has incorporated the provisions of steel tubes for mixer with the revision	Update with the revised standard
2	IS 1977 : 1996	Low Tensile Structural Steels	(Third Revision)	The reference standard has been withdrawn	-	Update with relevant adjusting standard
3	IS 226 : 1975	Structural steel (Standard quality)	(Fifth Revision)	The reference standard has been withdrawn.	-	Update with relevant adjusting standard
4	IS 1079 : 2017	Hot rolled carbon steel sheet, plate and strip - Specification (Seventh Revision)	(Seventh Revision)	Chemical composition has been modified for HR0 grade and Clause 10 strain ageing test has been removed	The standard has incorporated the provisions of steel sheet with the revision	Update with revised standard
5	IS 4634 : 1991	Methods for testing performance of batch-type concrete mixers	(First Revision)	Limits for the percentage variation of cement, fine and coarse aggregates have been added with revision	The standard has incorporated the provisions of concrete mixers with the revision	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	ISO 18650-1: 2004	Building Construction Machinery And Equipment - Concrete Mixers - Part 1: Vocabulary And General Specifications. Published by International Standards Organization.	Provisions of ISO relevant while reviewing IS can be clause as follow- 3 Terms and definitions, 4.1 Basic structure of gravity mixers, 4.2 Basic structure of forced mixers, 5.1 Basic characteristics of a concrete mixer, 5.2 dimensions characteristic of concrete mixers etc.	The committee may consider the provisions of ISO while reviewing the IS.

**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
1	Manufacturer (Non-licensee)	The hand operated concrete mixers have been added with automation with the evolution of technology. This may include semi- automatic hand driven concrete mixers with variable motor power and drum speed.	Clause 3 (Designation of size and type) and Clause 5 (Construction) of IS 5891	To be considered

**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) Illustrative diagram for hand operated concrete mixtures shall be included. b) The hand operated concrete mixers can be further sub divided into fully manual and semi- automatic. c) Clause 5.6 can include relevant IS for wheels and its material
7.	Upload Supporting Document(s)	
<b>7.1 ARP Report</b>		<a href="#">Report 5891.docx</a>
<b>7.2 Draft Document</b>		<a href="#">Draft Revision_IS 5891.pdf</a>
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:	a) A reference clause can be added mentioning the latest version of all the referred standards. b) BIS Certification marking under clause 12.2 may be added in the revision of the IS. c) Clauses 6.2, 6.7 and 7.1 may be modified.