



केन्द्रीय मुहर विभाग - 2

हमारा संदर्भ- के मु वि -2/16: 3589

16 01 2025

विषय: IS 3589 : 2001 (पानी और मलजल के लिए इस्पात पाईप (168.3 से 2 540) मिमी बाहरी व्यास के) — विशिष्टि में संशोधन संख्या 07 का कार्यान्वयन।

सभी संबंधितों को सूचित किया जाता है कि IS 3589 : 2001 में संशोधन संख्या 07 प्रकाशित हो चुकी है। IS 3589 : 2001 में संशोधन संख्या 07 के अनुपालन की अंतिम तिथि **23 जून 2025** है। सभी लाइसेंसधारकों/आवेदकों से आग्रह है कि IS 3589 : 2001 में संशोधन संख्या 07 के अनुपालन की तैयारी आरम्भ करें और **23 जून 2025** तक इसका कार्यान्वयन सुनिश्चित करें।

(शिवम अहूजा)
वैज्ञानिक-डी (के मु वि-2)

प्रमुख (के मु वि-2)

सभी लाइसेंस धारकों/ आवेदकों को परिचालित

प्रतिलिपि: सभी क्षेत्रीय/शाखा कार्यालय

CENTRAL MARKS DEPARTMENT-2

Our Ref: CMD-2/16: 3589

16 01 2025

Subject: Implementation of Amendment No. 07 to Indian Standard 3589: 2001 Steel Pipes for Water and Sewage (168.3 to 2 540 mm Outside Diameter) — Specification

This is to inform to all concerned that Amendment No. 07 to IS 3589: 2001 has been published. Last date of implementation of the Amendment No. 07 to IS 3589: 2001 is **23 June 2025**. All licensees/applicants are requested to initiate preparedness for implementation of the Amendment immediately and ensure its implementation by **23 June 2025**

(Shivam Ahuja)
Scientist D (CMD-2)

Head (CMD - 2)

Circulated to: All licensees/applicants

Copy to: BIS Branch Offices

AMENDMENT NO. 7 NOVEMBER 2024

TO

IS 3589 : 2001 STEEL PIPES FOR WATER AND SEWAGE (168.3 TO 2 540 mm OUTSIDE DIAMETER) — SPECIFICATION

(Third Revision)

(Page 4, clause 11.1) — Substitute the following for the existing and insert 11.2:

‘11.1 The preferred outside diameter, minimum thickness and nominal mass per metre of the pipes are specified in Table 5. No negative tolerance shall be applied to the minimum thickness specified in Table 5. Other diameters of pipes not mentioned in the table may be supplied as per the agreement between the manufacturer and the purchaser, however, the agreed diameter shall be between 168.3 mm and 2 540 mm and the thickness of the supplied pipe shall not be less than the minimum thickness of pipe of next higher diameter mentioned in Table 5.

11.1.1 Mass per meter run of pipes can be calculated by the formula as under:

$$M = (D - T) \times T \times 0.024\,661\,5$$

where

M = mass of the pipe, kg/m;

D = nominal outside diameter of the pipe, in mm; and

T = nominal thickness of the pipe, in mm.

11.2 Preferred outside diameter and thicknesses of pipes upto outside diameter 457 mm are given in Annex E for guidance purpose.’

(Page 4, clause 11.1, Note, see also Amendment No. 5) — Substitute the following for the existing note.

‘NOTE — While calculating final minimum thickness the pipe designer may follow following steps:

- Ensure that the selected minimum thickness is not less than that specified in Table 5 and no negative tolerance is applied on minimum thickness specified in Table 5.
- Check sufficiency of the selected thickness (Step a) as per requirements of the working pressure and test pressure inclusive of surge and if required increase thickness suitably to meet these requirements.
- Check sufficiency of the selected thickness (Step b) as per relevant design approach and methodology for external load conditions subjected to various laying situations and if required increase thickness suitably to meet these requirements.
- Apply corrosion allowance, with respect to area of laying, lining and coating and adopted corrosion protections systems.
- Further, permitted manufacturing tolerance may be considered with respect to provision of positive tolerances.
- For welded pipes, it is advisable to refer to IS 5822 : 1994 ‘Code of practice for laying of electrically welded steel pipes for water supply.’

(Page 6, Table 5) — Substitute the following for the existing:

Table 5 Preferred Outside Diameter, Minimum Thickness and Mass per Meter Length of Pipes

(Clause 11.1)

SI No.	Outside Diameter OD mm	Minimum Thickness mm	Mass kg/m
(1)	(2)	(3)	(4)
(i)	168.3	2.6	10.6
(ii)	219.1	2.6	13.9
(iii)	273	3.6	23.9
(iv)	323.9	4.0	31.6
(v)	355.6	4.0	34.7

Table 5 (Concluded)

SI No.	Outside Diameter OD mm	Minimum Thickness mm	Mass kg/m
(1)	(2)	(3)	(4)
(vi)	406.4	4.0	39.7
(vii)	457	5.0	55.7
(viii)	508	5.0	62.0
(ix)	610	6.3	93.6
(x)	711	6.3	109.3
(xi)	813	6.5	128.8
(xii)	914	7.3	163.4
(xiii)	1 016	7.6	188.6
(xiv)	1 067	7.7	200.6
(xv)	1 118	7.8	212.7
(xvi)	1 219	8.4	251.3
(xvii)	1 422	8.4	293.4
(xviii)	1 626	10.5	416.4
(xix)	1 829	10.9	489.4
(xx)	2 032	12.1	603.6
(xxi)	2 235	13.3	729.8
(xxii)	2 540	15.1	938.9

(Page 16, Annex D) — Insert the following new Annex E after Annex D:

ANNEX E

(Clause 11.2)

DIMENSIONS AND MASS PER METER LENGTH OF PIPES FOR GUIDANCE PURPOSE

SI No.	Outside Diameter OD mm	Thickness mm	Mass kg/m
(1)	(2)	(3)	(4)
i)	168.3	2.6	10.6
		3.2	13.0
		4.0	16.2
		4.5	18.2
ii)	219.1	2.6	13.9
		3.6	19.1
		4.5	23.8
		6.3	33.1
iii)	273	3.6	23.9
		4.0	26.5
		5.0	33
		6.3	41.4
iv)	323.9	4.0	31.6
		4.5	35.4
		5.6	44
		7.1	55.5

<i>Sl No.</i>	<i>Outside Diameter OD mm</i>	<i>Thickness mm</i>	<i>Mass kg/m</i>
(1)	(2)	(3)	(4)
v)	355.6	4.0	34.7
		5.0	43.2
		5.6	48.3
		8.0	68.6
vi)	406.4	4.0	39.7
		5.0	49.5
		6.3	62.2
		8.8	86.3
vii)	457	5.0	55.7
		6.3	70
		10.0	110