



भारतीय मानक ब्यूरो BUREAU OF INDIAN STANDARDS

MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG, NEW DELHI 110002

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व्यापक परिचालन मसौदा

हमारा संदर्भ : सीईडी 50/टी-90

12 अगस्त 2022

तकनीकी समिति : प्लास्टिक पाइपिंग सिस्टम विषय समिति, सीईडी 50

प्राप्तकर्ता :

- 1 सिविल इंजीनियरी विभाग परिषद, सीईडीसी के सभी सदस्य
- 2 प्लास्टिक पाइपिंग सिस्टम विषय समिति, सीईडी 50, पोलीओलीफिंस एवं जीआरपी पाइपिंग सिस्टम उपसमिति सीईडी 50:1, पीवीसी एवं एबीएस पाइपिंग सिस्टम उपसमिति, सीईडी 50:2 के सभी सदस्य
- 3 रुचि रखने वाले अन्य निकाय।

महोदया/महोदय,

निम्नलिखित मसौदा संलग्न है:

प्रलेख संख्या	शीर्षक
सीईडी 50 (19731)WC	आईएस 16647 : 2017 जल की आपूर्ति के लिए उन्मुख असुघटियत पॉलीविनाइल क्लोराइड (पीवीसी-ओ) पाइप – विशिष्टि की संशोधन संख्या 2 का मसौदा (आई सी एस संख्या 23.040.20;23.040.45;91.140.60)

कृपया इस मसौदे का अवलोकन करें और अपनी सम्मतियाँ यह बताते हुए भेजे कि यह मसौदा मानक संशोधन के रूप में प्रकाशित हुआ तो इस पर अमल करने में, आपको व्यवसाय अथवा कारोबार में क्या कठिनाइयाँ आ सकती हैं।

सम्मतियाँ भेजने की अंतिम तिथि: 15 सितंबर 2022

सम्मति यदि कोई हो तो कृपया अधोहस्ताक्षरी को ई मेल द्वारा madhurima@bis.gov.in पर या उपरलिखित पते पर, संलग्न फॉर्मेट में भेजें।

यदि कोई सम्मति प्राप्त नहीं होती है अथवा सम्मति में केवल भाषा संबंधी त्रुटि हुई तो उपरोक्त प्रलेख को यथावत अंतिम रूप दे दिया जाएगा। यदि सम्मति तकनीकी प्रकृति की हुई तो विषय समिति के अध्यक्ष के परामर्श से अथवा उनकी इच्छा पर आगे की कार्यवाही के लिए विषय समिति को भेजे जाने के बाद प्रलेख को अंतिम रूप दे दिया जाएगा।

यह प्रलेख भारतीय मानक ब्यूरो की वेबसाइट www.bis.gov.in पर भी उपलब्ध है।

धन्यवाद।

भवदीय

ह/-

(अरुण कुमार एस.)

प्रमुख (सिविल इंजीनियरिंग)

संलग्न: उपरलिखित



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**DRAFT IN
WIDE CIRCULATION**

DOCUMENT DESPATCH ADVICE

Reference	Date
CED 50/T-90	12 August 2022

TECHNICAL COMMITTEE:

PLASTIC PIPING SYSTEM SECTIONAL COMMITTEE, CED 50

ADDRESSED TO:

1. All Members of Civil Engineering Division Council, CEDC
2. All Members of Plastic Piping System Sectional Committee, CED 50, Polyolefins and GRP Piping System Subcommittee, CED 50:1, PVC and ABS Piping System Subcommittee, CED 50:2
3. All other interests

Dear Madam/Sir,

Please find enclosed the following draft:

Doc. No.	Title
CED 50 (19731)WC	Draft Amendment No. 2 to IS 16647 : 2017 Oriented Unplasticized Polyvinyl Chloride (PVC-O) Pipes for Water Supply – Specification (ICS 23.040.20;23.040.45;91.140.60)

Kindly examine the draft amendment and forward your views stating any difficulties which you are likely to experience in your business or profession, if this is finally adopted as Amendment to National Standard.

Last Date for comments: 15 September 2022

Comments if any, may please be made in the enclosed format and emailed at madhurima@bis.gov.in or sent at the above address.

In case no comments are received or comments received are of editorial nature, you will kindly permit us to presume your approval for the above document as finalized. However, in case comments, technical in nature are received, then it may be finalized either in consultation with the Chairman, Sectional Committee or referred to the Sectional Committee for further necessary action if so desired by the Chairman, Sectional Committee.

The document is also hosted on BIS website www.bis.gov.in.

Thanking you,

Yours faithfully,

Sd/-

**(Arun Kumar S.)
Head (Civil Engg.)**

Encl: As above

BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

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DRAFT AMENDMENT NO.2

TO

**IS 16647 : 2017 ORIENTED UNPLASTICIZED POLYVINYL CHLORIDE (PVC-O)
PIPES FOR WATER SUPPLY — SPECIFICATION**

Plastic Piping System
Sectional Committee, CED 50

Last date for Comments:
15 September 2022

(*Foreword, last para*) — Substitute 'IS 2 : 2022 Rules for rounding off numerical values (*second revision*)' for 'IS 2 : 1960 Rules for rounding off numerical values (*revised*)'.

(*Page 3, clause 5.2*) — Substitute the following for the existing clause:

'The addition of the manufacturer's own rework material is permissible. The maximum quantity of the rework material used shall be not more than 5 percent. No other rework material shall be used.'

(*Page 3, clause 5.6.1, first sentence*) — Insert the following at the end of the sentence:

'In order to establish the validity of classification for the material received by the manufacturer and to get qualified for the production of PVC-O pipes, an additional type approval test for long-term hydrostatic strength at 27 °C for 10 000 h shall be carried out once in accordance with 9.1.1. The test shall be repeated whenever a change in the material or its source occurs'.

(*Page 7, clause 9.1.1, line 4*) — Substitute '10 h at 27 °C, 1 000 h at 27 °C and 10 000 h at 27 °C' for '10 h at 27 °C and 1 000 h at 27 °C'.

(*Page 7, clause 9.1.1, Table 10*) — Insert the following row at the end:

SI No.	Test	Temperature, <i>Min</i> °C	Duration, <i>Min</i> h	Circumferential Stress/ Hoop Stress, σ MPa	
				PVC-O 450	PVC-O 500
(1)	(2)	(3)	(4)	(5)	(6)
iii)	Type [one time type approval test (see 5.6.1)]	27	10 000	45	50

[Page 10, Table 14, Sl No. (i), col 2] — Substitute the following for the existing:
'T= Temperature within ± 5 °C of any temperature between 20 °C and 32 °C'

[Page 10, Table 15, Sl No. (i), col 2] — Substitute the following for the existing:
'T= Temperature within ± 5 °C of any temperature between 20 °C and 32 °C'

(Page 11, clause 12) — Substitute the following for the existing:

'12 SEALING RINGS

Sealing rings made of elastomeric material such as ethylene propylene diene monomer (EPDM) rubber, and of appropriate diameter ensuring secure fit shall be used for joining components and shall meet the following requirements:

- a) Rings shall conform to the material requirements specified in IS 5382 and shall have shore hardness class 70 as per IS 5382. Also, the manufacturer has to specify the application type of sealing ring that is being offered (see IS 5382). The design of the profile of the sealing ring is left to the manufacturer as long as the pipe with sealing ring meets the requirements of the standard.
- b) Rings shall be free from chemical agents such as plasticizers that could have a detrimental effect on the pipes or fittings, or on the quality of the water.

A test report or conformity certificate may be obtained from the manufacturer of the elastomeric sealing ring for the conformity to IS 5382. The frequency of this test report or conformity certificate shall be once in six months.'

(Page 11, clause 14.1, line 3) — Substitute 'not more than 3 m' for 'not more than 1 m'.

(Page 12, Annex A) — Substitute the existing entry for IS 5382 by the following:

<i>IS No.</i>	<i>Title</i>
5382 : 2018/ ISO 4633:2015	Rubber seals — Joint rings for water supply, drainage and sewerage pipelines — Specification for materials (<i>second revision</i>)

(Page 18, clause G-1.9, line 7) — Substitute 'Table 25 or Table 26' for 'Table 24 or Table 25'.