

# BUREAU OF INDIAN STANDARDS

## Program of Work

### PCD 6 : Bitumen, Tar and Related Products

Scope: To formulate Indian standards for terminology, methods of sampling and test and specification for bitumen including bitumen cutback and bitumen emulsion, bitumen additives, modified bitumen, industrial bitumen, bituminous mixes.

Liaison:

## Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10511 : 1983 Reviewed In : 2019	Method for determination of asphaltenes in bitumen by precipitation with normal heptane	June, 2019	2	Indigenous
2	IS 10512 : 2003 Reviewed In : 2024	Method for determination of wax content in bitumen - Specification (First Revision)	April, 2024	-	Indigenous
3	IS 1201 : 2021	Methods for testing tar and bituminous materials - Sampling of bituminous materials (Second Revision)		-	Indigenous
4	IS 1201 (Part 1220) : 1978 Reviewed In : 2019	Methods for testing tar and bituminous materials (First Revision)	June, 2019	-	Indigenous
5	IS 1202 : 2021	Methods for testing tar and bituminous materials - Determination of specific gravity (Second Revision)		-	Indigenous
6	IS 1203 : 2022	Methods for testing tar and bituminous materials - Determination of penetration (Second Revision)		1	Indigenous
7	IS 1204 : 2022	Methods for testing tar and bituminous materials - Determination of residue of specified penetration (Second Revision)		-	Indigenous
8	IS 1205 : 2022	Methods for testing tar and bituminous materials - Determination of softening point - Ring and ball apparatus (Second Revision)		-	Indigenous
9	IS 1206 (Part 1) : 2023	Methods for testing tar and bituminous materials : Part 1 - Determination of viscosity by volumetric flow rate method (Second Revision)		-	Indigenous
10	IS 1206 (Part 2) :	Methods for testing tar and		1	Indigenous

	2022	bituminous materials - Determination of viscosity : Part 2 - Absolute viscosity (Second Revision)			
11	IS 1206 (Part 3) : 2021	Methods for testing tar and bituminous materials - Determination of viscosity : Part 3 - Kinematic viscosity (Second Revision)		1	Indigenous
12	IS 1207 : 2022	Methods for testing tar and bituminous materials - Determination of equiviscous temperature (EVT) (Second Revision)		-	Indigenous
13	IS 1208 (Part 1) : 2023	Methods for Testing Tar and Bituminous Materials - Determination of Ductility : Part 1 (Second Revision)		1	Indigenous
14	IS 1208 (Part 2) : 2023	Methods for testing tar and bituminous materials : Part 2 - Determination of elastic recovery (Second Revision)		-	Indigenous
15	IS 1209 : 2021	Methods for testing tar and bituminous materials - Determination of flash point and fire point (Second Revision)		-	Indigenous
16	IS 1210 : 2020	Methods for testing tar and bituminous materials - Float test (Second Revision)		-	Indigenous
17	IS 1211 : 2022	Methods for testing tar and bituminous materials - Determination of water content - Dean and stark method (Second Revision)		-	Indigenous
18	IS 1212 : 2022	Methods for testing tar and bituminous materials - Determination of loss on heating (Second Revision)		-	Indigenous
19	IS 1213 : 2020	Methods for testing tar and bituminous materials - Distillation test (Second Revision)		-	Indigenous
20	IS 1215 : 2021	Methods for testing tar and bituminous materials - Determination of matter insoluble in toluene (Second Revision)		-	Indigenous
21	IS 1216 : 2023	Tar and bituminous materials - Methods for test - Determination of solubility in trichloroethylene (Second Revision)		-	
22	IS 1218 : 2024	Tar and Bituminous Materials -Methods for Test -Determination of Phenols (Second Revision)		-	
23	IS 1219 : 2024	Tar and Bituminous Materials -Methods for Test Determination of Naphthalene (Second Revision)		-	
24	IS 1220 : 2024	Tar and Bituminous Materials - Methods for Test -Determination of Volatile Matter Content (Second Revision)		-	

25	IS 14982 : 2022	Anti-stripping agents for bitumen addition - Specification (Second Revision)		-	Indigenous
26	IS 15172 : 2002 Reviewed In : 2023	Methods for testing tar and bituminous materials - Determination of curing INDEX for cutback bitumens	October, 2023	-	Indigenous
27	IS 15173 : 2002 Reviewed In : 2023	Methods of test for tars and bituminous materials - Determination of breaking point for cationic bitumen emulsion	October, 2023	-	Indigenous
28	IS 15174 : 2002 Reviewed In : 2023	Methods for testing tar and bituminous materials - Determination of breaking point for anionic bitumen emulsion	October, 2023	-	Indigenous
29	IS 15462 : 2019 Reviewed In : 2024	Polymer modified bitumen (PMB) Specification (First Revision)	January, 2024	-	Indigenous
30	IS 15799 : 2021	Methods for testing tar and bituminous materials - Ageing of bitumen (RTFO and PAV tests) (First Revision)		-	Indigenous
31	IS 15808 : 2008 Reviewed In : 2023	Multi - Grade bitumen for use in pavement construction - Specification	October, 2023	-	Indigenous
32	IS 17016 : 2018 Reviewed In : 2023	Cationic modified bitumen emulsion - Specification	April, 2023	1	Indigenous
33	IS 17052 : 2018 Reviewed In : 2023	Rejuvenating agents for hot mix recycling of bituminous surfacing - Specification	December, 2023	-	Indigenous
34	IS 17079 : 2019 Reviewed In : 2024	Rubber modified bitumen (RMB) - Specification	January, 2024	-	Indigenous
35	IS 17116 : 2019 Reviewed In : 2024	Determination of resistance of compacted bituminous mixture to moisture - Induced damage	January, 2024	-	Indigenous
36	IS 17124 : 2019 Reviewed In : 2024	Crack sealants - Specification	January, 2024	-	Indigenous
37	IS 17127 : 2019 Reviewed In : 2024	Determination of stability, flow and bulk density of bituminous mixes by marshall method	January, 2024	-	Indigenous
38	IS 17335 : 2020	Determination of apparent viscosity of bituminous binders at elevated temperature by rotational viscometer		-	Indigenous
39	IS 18104 : 2022	Methods for testing tar and bituminous materials - Determination of draindown characteristics of uncompacted bitumen mixtures		-	Indigenous
40	IS 18130 : 2023 ASTM 5404	Method for recovery of bitumen from solution using rotary evaporator		-	Not Equivalent
41	IS 19008 : 2023	Determination of bitumen content in bituminous paving mixtures		-	Indigenous
42	IS 217 : 2018	Cutback bitumen - Specification (Third Revision)	November, 2023	1	Indigenous

	Reviewed In : 2023				
43	IS 3116 : 2002 Reviewed In : 2023	Sealing compound for lead - Acid batteries (Bitumen Based) - Specification (First Revision)	October, 2023	1	Indigenous
44	IS 3117 : 2004 Reviewed In : 2019 Reaffirmed but not taken up for revision	Bitumen emulsion for roads and allied applications (Anionic Type) - Specification (First Revision)	June, 2019	-	Indigenous
45	IS 334 : 2023	Glossary of terms relating to bitumen and tar (Fourth Revision)		-	Indigenous
46	IS 6241 : 2024	Determination of stripping value of road aggregates - Method of test (First Revision)		-	Indigenous
47	IS 702 : 2022	Industrial bitumen - Specification (Third Revision)		-	Indigenous
48	IS 73 : 2013 Reviewed In : 2023	Paving bitumen - Specification (Fourth Revision)	October, 2023	3	Indigenous
49	IS 8887 : 2018 Reviewed In : 2023	Bitumen emulsion for roads (Cationic Type) - Specification (Third Revision)	January, 2023	2	Indigenous
50	IS 9381 : 1979 Reviewed In : 2019	Methods for testing tar and bituminous materials - Determination of fraass breaking point of bitumen	June, 2019	1	Indigenous
51	IS 9382 : 2022	Methods for testing tar and bituminous materials - Determination of effect of heat and air by thin film oven test		-	Indigenous

### Standards under Development

#### Projects Approved

SI. No.	Doc No.	Title
<i>No Records Found</i>		

#### Preliminary Draft Standards

SI. No.	Doc No.	Title
1	PCD 6 (22040)	HIGH RESILIENT MODULUS BITUMEN HMB SPECIFICATION

#### Drafts Standards in WC Stage

SI. No.	Doc No.	Title
1	PCD 6 (14176)	TRACKLESS EMULSION SPECIFICATION

#### Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
1	PCD 6 (23418)	METHOD OF TEST FOR DETERMINATION OF SPECIFIC GRAVITY OF BITUMINOUS MIXTURES

#### Finalized Draft Indian Standard

SI. No.	Doc No.	Title
1	PCD 6 (25036)	Method for determination of wax content in bitumen - Specification First Revision Amendment -

		1
2	PCD 6 (25037)	Rubber modified bitumen Rmb - specification Amendment - 1

### Finalized Draft Indian Standards under Print

Sl. No.	Doc No.	Title
1	PCD 6 (20211) Revision of: IS 9381:1979	METHODS FOR TESTING BITUMINOUS MATERIALS DETERMINATION OF FRAASS BREAKING POINT OF BITUMEN First Revision
2	PCD 6 (20271)	METHOD FOR DETERMINATION OF ASPHALTENES IN BITUMEN BY PRECIPITATION WITH NORMAL HEPTANE First Revision
3	PCD 6 (20497)	METHOD FOR TESTING TAR AND BITUMINOUS MATERIALS DETERMINATION OF SATURATES NAPHTHENE AROMATICS POLAR AROMATICS AND ASPHALTENES
4	PCD 6 (20743) Revision of: IS 1217:1978	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS DETERMINATION OF MINERAL MATTER ASH

**Total Published Standards:50 Total Standards Under development:9**

### Aspect Wise Report

Product : 13  
Code of Practices : 0  
Methods of Test : 35  
Terminology : 1  
Dimensions : 0  
System Standard : 0  
Safety Standard : 0  
Others : 1  
Service Specification : 0  
Process Specification : 0  
Unclassified : 0

### Annexure-I :List of Indian Standards Withdrawn/Superseded

Sl. No.	IS No. & Year	Title
1	IS 1208 : 1978 Reviewed In : 2014	Determination Of Ductility - SEE IS 1201 to IS 1220
2	IS 1214 : 1978 Reviewed In : 1988	Determination of Matter Insoluble in Benzene
3	IS 1217 : 1978 Reviewed In : 2014	Determination of Mineral Matter ASH - SEE IS 1201 to IS 1220
4	IS 454 : 1994 Reviewed In : 2014	Double - Acting spring hinges - Specification Third Revision

### Annexure-II :List of Indian Product Standards

Sl. No.	IS No. & Year	Title
1	IS 14982 : 2022 ISO 8840:1987	Anti-stripping agents for bitumen addition - Specification Second Revision
2	IS 15462 : 2019 Reviewed In : 2024	Polymer modified bitumen PMB Specification First Revision
3	IS 15808 : 2008 Reviewed In : 2023	Multi - Grade bitumen for use in pavement construction - Specification
4	IS 17016 : 2018 Reviewed In : 2023	Cationic modified bitumen emulsion - Specification
5	IS 17052 : 2018	Rejuvenating agents for hot mix recycling of bituminous surfacing - Specification

	Reviewed In : 2023	
6	IS 17079 : 2019	Rubber modified bitumen RMB - Specification
	Reviewed In : 2024	
7	IS 17124 : 2019	Crack sealants - Specification
	Reviewed In : 2024	
8	IS 217 : 2018	Cutback bitumen - Specification Third Revision
	Reviewed In : 2023	
9	IS 3116 : 2002	Sealing compound for lead - Acid bateries Bitumen Based - Specification First Revision
	Reviewed In : 2023	
10	IS 3117 : 2004	Bitumen emulsion for roads and allied applications Anionic Type - Specification First Revision
	Reviewed In : 2019	
	Reaffirmed but not taken up for revision	
11	IS 702 : 2022	Industrial bitumen - Specification Third Revision
12	IS 73 : 2013	Paving bitumen - Specification Fourth Revision
	Reviewed In : 2023	
13	IS 8887 : 2018	Bitumen emulsion for roads Cationic Type - Specification Third Revision
	Reviewed In : 2023	