

# 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 and tar.

**Liaison:**

#### Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10511:2024	METHOD FOR DETERMINATION OF ASPHALTENES IN BITUMEN BY PRECIPITATION WITH NORMAL HEPTANE (First Revision)		-	Indigenous
2	IS 10512:2003 Reviewed In : 2024	Method for determination of wax content in bitumen - Specification (First Revision)	April, 2024	1	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		-	Indigenous

		volumetric flow rate method (Second Revision)			
10	IS 1206 (Part 2):2022	Methods for testing tar and bituminous materials - Determination of viscosity : Part 2 - Absolute viscosity (Second Revision)		1	Indigenous
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 <span style="color: green;">Reviewed In : 2024</span> Decision taken to Reaffirm and Archive	Methods for testing tar and bituminous materials - Float test (Second Revision)	October, 2024	-	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 1213:2025	Tar and Bituminous Materials - Distillation Test - Methods of Test (Third 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 1217:2024	Tar and Bituminous Materials - Determination of Mineral Matter (Ash) - Methods of Test (Second revision)		-	
23	IS 1218:2024	Tar and Bituminous Materials		-	

		-Methods for Test -Determination of Phenols (Second Revision)			
24	IS 1219:2024	Tar and Bituminous Materials -Methods for Test Determination of Naphthalene (Second Revision)		-	
25	IS 1220:2024	Tar and Bituminous Materials - Methods for Test -Determination of Volatile Matter Content (Second Revision)		-	
26	IS 14982:2022	Anti-stripping agents for bitumen addition - Specification (Second Revision)		-	Indigenous
27	IS 15172:2002 Reviewed In : 2023	Methods for testing tar and bituminous materials - Determination of curing INDEX for cutback bitumens	October, 2023	-	Indigenous
28	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
29	IS 15174:2002 Reviewed In : 2023	Methods for testing tar and bituminous materials - Determination of breaking point for anionic bitumen emulsion	October, 2023	-	Indigenous
30	IS 15462:2019 Reviewed In : 2024	Polymer modified bitumen (PMB) Specification (First Revision)	January, 2024	-	Indigenous
31	IS 15799:2021	Methods for testing tar and bituminous materials - Ageing of bitumen (RTFO and PAV tests) (First Revision)		-	Indigenous
32	IS 15808:2008 Reviewed In : 2023	Multi - Grade bitumen for use in pavement construction - Specification	October, 2023	-	Indigenous
33	IS 17016:2018 Reviewed In : 2023	Cationic modified bitumen emulsion - Specification	April, 2023	1	Indigenous
34	IS 17052:2018 Reviewed In : 2023	Rejuvenating agents for hot mix recycling of bituminous surfacing - Specification	December, 2023	-	Indigenous
35	IS 17079:2019 Reviewed In : 2024	Rubber modified bitumen (RMB) - Specification	January, 2024	1	Indigenous
36	IS 17116:2019 Reviewed In : 2024	Determination of resistance of compacted bituminous mixture to moisture - Induced damage	January, 2024	-	Indigenous
37	IS 17124:2019 Reviewed In : 2024	Crack sealants - Specification	January, 2024	-	Indigenous
38	IS 17127:2019 Reviewed In : 2024	Determination of stability, flow and bulk density of bituminous mixes by marshall method	January, 2024	-	Indigenous
39	IS 17335:2020 Reviewed In : 2024	Determination of apparent viscosity of bituminous binders at elevated temperature by rotational viscometer	October, 2024	-	Indigenous
40	IS 18104:2022	Methods for testing tar and bituminous materials - Determination of draindown		-	Indigenous

		characteristics of uncompacted bitumen mixtures			
41	IS 18130:2023 <b>ASTM 5404</b>	Method for recovery of bitumen from solution using rotary evaporator		-	Not Equivalent
42	IS 18690:2024	Tar and Bituminous Materials - Determination of Saturates, Naphthene Aromatics, Polar Aromatics, and Asphaltenes $i_6^{1/2}$ Methods of Test		-	Indigenous
43	IS 18883:2025	TRACKLESS EMULSION SPECIFICATION		-	Indigenous
44	IS 19008:2023	Determination of bitumen content in bituminous paving mixtures		-	Indigenous
45	IS 19232:2025	Methods for Testing Tar and Bituminous Materials - Determination of Specific Gravity of Bituminous Mixtures		-	Indigenous
46	IS 217:2018  <b>Reviewed In : 2023</b>	Cutback bitumen - Specification (Third Revision)	November, 2023	1	Indigenous
47	IS 3116:2002  <b>Reviewed In : 2023</b>	Sealing compound for lead - Acid bateries (Bitumen Based) - Specification (First Revision)	October, 2023	1	Indigenous
48	IS 3117:2004  <b>Reviewed In : 2019</b> Reaffirmed but not taken up for revision	Bitumen emulsion for roads and allied applications (Anionic Type) - Specification (First Revision)	June, 2019	-	Indigenous
49	IS 334:2023	Glossary of terms relating to bitumen and tar (Fourth Revision)		-	Indigenous
50	IS 6241:2024	Determination of stripping value of road aggregates - Method of test (First Revision)		-	Indigenous
51	IS 702:2022	Industrial bitumen - Specification (Third Revision)		-	Indigenous
52	IS 73:2013  <b>Reviewed In : 2023</b>	Paving bitumen - Specification (Fourth Revision)	October, 2023	3	Indigenous
53	IS 8887:2018  <b>Reviewed In : 2023</b>	Bitumen emulsion for roads (Cationic Type) - Specification (Third Revision)	January, 2023	2	Indigenous
54	IS 9381:2024	Tar and Bituminous Materials - Determination of Fraass Breaking Point of Bitumen - Methods of Test (First Revision)		-	Indigenous
55	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
<i>No Records Found</i>		

### Drafts Standards in WC Stage

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

### Draft Standards Completed WC Stage

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

### Finalized Draft Indian Standard

SI. No.	Doc No.	Title
1	PCD 6 (27828)	Polymer modified bitumen PMB - Specification First Revision Amendment - 1
2	PCD 6 (27831)	Rubber modified bitumen RMB - Specification Amendment - 2
3	PCD 6 (27832)	Bitumen emulsion for roads and allied applications Anionic Type - Specification First Revision Amendment - 1
4	PCD 6 (27834)	Rejuvenating agents for hot mix recycling of bituminous surfacing - Specification Amendment - 1
5	PCD 6 (28537)	Determination of bitumen content in bituminous paving mixtures Amendment - 1
6	PCD 6 (28781) <b>Amendment of: IS 1216:2023</b>	Tar and bituminous materials - Determination of solubility in trichloroethylene or toluene - Methods of test Third Revision

### Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	PCD 6 (27355)	SAFE HANDLING OF BITUMEN AND BITUMEN PRODUCTS CODE OF PRACTICE
2	PCD 6 (27387) <b>Amendment of: IS 1213:1978</b>	Tar and Bituminous Materials - Distillation Test - Methods of Test Third Revision
3	PCD 6 (27830)	Cationic modified bitumen emulsion - Specification Amendment - 2
4	PCD 6 (27833)	Multi - Grade bitumen for use in pavement construction - Specification Amendment - 1
5	PCD 6 (27835)	Crack sealants - Specification Amendment - 1
6	PCD 6 (27836)	Sealing compound for lead - Acid bateries Bitumen Based - Specification First Revision Amendment - 2
7	PCD 6 (27855)	Cutback bitumen - Specification Third Revision Amendment - 2
8	PCD 6 (27856)	Bitumen Emulsion for Roads Cationic Type Amendment - 3
9	PCD 6 (27857)	Anti-stripping agents for bitumen addition - Specification Second Revision Amendment - 1
10	PCD 6 (27858)	Industrial bitumen - Specification Third Revision Amendment - 2
11	PCD 6 (27864)	Paving bitumen - Specification Fourth Revision Amendment - 4
12	PCD 6 (33266)	Methods for testing tar and bituminous materials - Sampling of bituminous materials Second Revision
13	PCD 6 (33328)	Polymer modified bitumen PMB Specification First Revision

**Total Published Standards:51 Total Standards Under development:19**

### Aspect Wise Report

Product : 14  
 Code of Practices : 0  
 Methods of Test : 38  
     Terminology : 1  
     Dimensions : 0  
     System Standard : 0  
     Safety Standard : 0  
     Others : 1  
 Service Specification : 0

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

SI. 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 454:1994 Reviewed In : 2014	Double - Acting spring hinges - Specification Third Revision

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

SI. 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 Reviewed In : 2023	Rejuvenating agents for hot mix recycling of bituminous surfacing - Specification
6	IS 17079:2019 Reviewed In : 2024	Rubber modified bitumen RMB - Specification
7	IS 17124:2019 Reviewed In : 2024	Crack sealants - Specification
8	IS 18883:2025	TRACKLESS EMULSION SPECIFICATION
9	IS 217:2018 Reviewed In : 2023	Cutback bitumen - Specification Third Revision
10	IS 3116:2002 Reviewed In : 2023	Sealing compound for lead - Acid batteries Bitumen Based - Specification First Revision
11	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
12	IS 702:2022	Industrial bitumen - Specification Third Revision
13	IS 73:2013 Reviewed In : 2023	Paving bitumen - Specification Fourth Revision
14	IS 8887:2018 Reviewed In : 2023	Bitumen emulsion for roads Cationic Type - Specification Third Revision