

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 Reviewed In : 2024 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 1213:2020 Reviewed In : 2024	Methods for testing tar and bituminous materials - Distillation test (Second Revision)	October, 2024	-	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 ASTM 5404	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 $i_2^{1/2}$ 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 Reviewed In : 2023	Cutback bitumen - Specification (Third Revision)	November, 2023	1	Indigenous
47	IS 3116:2002 Reviewed In : 2023	Sealing compound for lead - Acid batteries (Bitumen Based) - Specification (First Revision)	October, 2023	1	Indigenous
48	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
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 Reviewed In : 2023	Paving bitumen - Specification (Fourth Revision)	October, 2023	3	Indigenous
53	IS 8887:2018 Reviewed In : 2023	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

Sl. No.	Doc No.	Title
No Records Found		

Preliminary Draft Standards

SI. No.	Doc No.	Title
No Records Found		

Drafts Standards in WC Stage		
SI. No.	Doc No.	Title
No Records Found		

Draft Standards Completed WC Stage		
SI. No.	Doc No.	Title
1	PCD 6 (28537)	Determination of bitumen content in bituminous paving mixtures Amendment - 1
2	PCD 6 (28781)	Tar and bituminous materials - Determination of solubility in trichloroethylene or toluene - Methods of test Third Revision

Finalized Draft Indian Standard		
SI. No.	Doc No.	Title
1	PCD 6 (27355)	SAFE HANDLING OF BITUMEN AND BITUMEN PRODUCTS CODE OF PRACTICE

Finalized Draft Indian Standards under Print		
SI. No.	Doc No.	Title
1	PCD 6 (27387) Revision of: IS 1213:1978	Tar and Bituminous Materials - Distillation Test - Methods of Test Third Revision
2	PCD 6 (27828)	Polymer modified bitumen PMB - Specification First Revision Amendment - 1
3	PCD 6 (27830)	Cationic modified bitumen emulsion - Specification Amendment - 2
4	PCD 6 (27831)	Rubber modified bitumen RMB - Specification Amendment - 2
5	PCD 6 (27832)	Bitumen emulsion for roads and allied applications Anionic Type - Specification First Revision Amendment - 1
6	PCD 6 (27833)	Multi - Grade bitumen for use in pavement construction - Specification Amendment - 1
7	PCD 6 (27834)	Rejuvenating agents for hot mix recycling of bituminous surfacing - Specification Amendment - 1
8	PCD 6 (27835)	Crack sealants - Specification Amendment - 1
9	PCD 6 (27836)	Sealing compound for lead - Acid batteries Bitumen Based - Specification First Revision Amendment - 2
10	PCD 6 (27855)	Cutback bitumen - Specification Third Revision Amendment - 2
11	PCD 6 (27856)	Bitumen Emulsion for Roads Cationic Type Amendment - 3
12	PCD 6 (27857)	Anti-stripping agents for bitumen addition - Specification Second Revision Amendment - 1
13	PCD 6 (27858)	Industrial bitumen - Specification Third Revision Amendment - 2
14	PCD 6 (27864)	Paving bitumen - Specification Fourth Revision Amendment - 4

Total Published Standards:51 Total Standards Under development:17

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
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 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 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 bateries 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