

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	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	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 3):2021	Methods for testing tar and bituminous materials - Determination of viscosity : Part 3 - Kinematic viscosity (Second Revision)		1	Indigenous
11	IS 1206 (Part 2):2022	Methods for testing tar and bituminous materials - Determination of viscosity : Part 2 - Absolute 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 2):2023	Methods for testing tar and bituminous materials : Part 2 - Determination of elastic recovery (Second Revision)		-	Indigenous
14	IS 1208 (Part 1):2023	Methods for Testing Tar and Bituminous Materials - Determination of Ductility : Part 1 (Second Revision)		1	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 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 1216:2026	Tar and bituminous materials - Determination of solubility in trichloroethylene or toluene - Methods of test (Third Revision)		-	
22	IS 1216:2023	Tar and bituminous materials - Methods for test - Determination of solubility in trichloroethylene (Second Revision)		-	
23	IS 1217:2024	Tar and Bituminous Materials -		-	

		Determination of Mineral Matter (Ash) - Methods of Test (Second revision)			
24	IS 1218:2024	Tar and Bituminous Materials -Methods for Test -Determination of Phenols (Second Revision)		-	
25	IS 1219:2024	Tar and Bituminous Materials -Methods for Test Determination of Naphthalene (Second Revision)		-	
26	IS 1220:2024	Tar and Bituminous Materials - Methods for Test -Determination of Volatile Matter Content (Second Revision)		-	
27	IS 14982:2022	Anti-stripping agents for bitumen addition - Specification (Second Revision) Amendment - 1		1	Indigenous
28	IS 15172:2002	Methods for testing tar and bituminous materials - Determination of curing INDEX for cutback bitumens	October, 2023	-	Indigenous
29	IS 15173:2002	Methods of test for tars and bituminous materials - Determination of breaking point for cationic bitumen emulsion	October, 2023	-	Indigenous
30	IS 15174:2002	Methods for testing tar and bituminous materials - Determination of breaking point for anionic bitumen emulsion	October, 2023	-	Indigenous
31	IS 15462:2019	Polymer modified bitumen (PMB) Specification (First Revision)	January, 2024	-	Indigenous
32	IS 15799:2021	Methods for testing tar and bituminous materials - Ageing of bitumen (RTFO and PAV tests) (First Revision)		-	Indigenous
33	IS 15808:2008	Multi - Grade bitumen for use in pavement construction - Specification Amendment - 1	October, 2023	1	Indigenous
34	IS 17016:2018 IEC 60874-1 : 2011 Decision taken to Reaffirm and Archive	Cationic modified bitumen emulsion - Specification Amendment - 2	August, 2024	2	Indigenous
35	IS 17016:2018	Cationic modified bitumen emulsion - Specification Amendment - 2	April, 2023	2	Indigenous
36	IS 17052:2018 ISO/IEEE 11073-10201 : 2004	Rejuvenating agents for hot mix recycling of bituminous surfacing - Specification Amendment - 1		1	Indigenous
37	IS 17052:2018	Rejuvenating agents for hot mix recycling of bituminous surfacing - Specification Amendment - 1	December, 2023	1	Indigenous
38	IS 17079:2019	Rubber modified bitumen (RMB) - Specification	January, 2024	1	Indigenous
39	IS 17116:2019	Determination of resistance of compacted bituminous mixture to	January, 2024	-	Indigenous

		moisture - Induced damage			
40	IS 17124:2019 IEC TS 62556 : 2014	Crack sealants - Specification Amendment - 1		1	Indigenous
41	IS 17124:2019	Crack sealants - Specification Amendment - 1	January, 2024	1	Indigenous
42	IS 17127:2019	Determination of stability, flow and bulk density of bituminous mixes by marshall method	January, 2024	-	Indigenous
43	IS 17335:2020	Determination of apparent viscosity of bituminous binders at elevated temperature by rotational viscometer	October, 2024	-	Indigenous
44	IS 18104:2022	Methods for testing tar and bituminous materials - Determination of draindown characteristics of uncompacted bitumen mixtures		-	Indigenous
45	IS 18130:2023 ASTM 5404	Method for recovery of bitumen from solution using rotary evaporator		-	Not Equivalent
46	IS 18690:2024	Tar and Bituminous Materials - Determination of Saturates, Naphthene Aromatics, Polar Aromatics, and Asphaltenes $i_c^{1/2}$ Methods of Test		-	Indigenous
47	IS 18883:2025	TRACKLESS EMULSION SPECIFICATION		-	Indigenous
48	IS 19008:2023 IEC 60050-723:1997	Determination of bitumen content in bituminous paving mixtures Amendment - 1		1	Indigenous
49	IS 19008:2023	Determination of bitumen content in bituminous paving mixtures Amendment - 1		1	Indigenous
50	IS 19232:2025	Methods for Testing Tar and Bituminous Materials - Determination of Specific Gravity of Bituminous Mixtures		-	Indigenous
51	IS 19487:2025	SAFE HANDLING OF BITUMEN AND BITUMEN PRODUCTS CODE OF PRACTICE		-	
52	IS 217:2018	Cutback bitumen - Specification (Third Revision) Amendment - 2	November, 2023	2	Indigenous
53	IS 3116:2002	Sealing compound for lead - Acid bateries (Bitumen Based) - Specification (First Revision) Amendment - 2	October, 2023	2	Indigenous
54	IS 3117:2025 Reaffirmed but not taken up for revision	Bitumen emulsion for roads and allied applications (Anionic Type) - Specification (First Revision) Amendment - 1	-	1	Indigenous
55	IS 334:2023	Glossary of terms relating to bitumen and tar (Fourth Revision)		-	Indigenous
56	IS 6241:2024	Determination of stripping value of road aggregates - Method of test		-	Indigenous

		(First Revision)			
57	IS 702:2022	Industrial bitumen - Specification (Third Revision) Amendment - 2		1	Indigenous
58	IS 73:2013	Paving bitumen - Specification (Fourth Revision) Amendment - 4	October, 2023	4	Indigenous
59	IS 8887:2018 Decision taken to Reaffirm and Archive	Bitumen Emulsion for Roads (Cationic Type) Amendment - 3	April, 2024	3	Indigenous
60	IS 8887:2018	Bitumen Emulsion for Roads (Cationic Type) Amendment - 3	January, 2023	3	Indigenous
61	IS 9381:2024	Tar and Bituminous Materials - Determination of Fraass Breaking Point of Bitumen - Methods of Test (First Revision)		-	Indigenous
62	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 (33328)	Polymer modified bitumen PMB Specification First Revision

Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	PCD 6 (02509)	Cationic modified bitumen emulsion - Specification
2	PCD 6 (02895) Revision of: IS 14982:2017	Anti-Striping Agents Amine Type
3	PCD 6 (10471) Revision of: IS 217:2018	SPECIFICATION FOR CUTBACK BITUMEN Third Revision

4	PCD 6 (10513)	CRACK SEALANTS-SPECIFICATION
5	PCD 6 (10612)	REJUVENATING AGENTS FOR HOT MIX RECYCLING OF BITUMINOUS SURFACING SPECIFICATION
6	PCD 6 (11554) Revision of: IS 14982:2017	ANTI-STRIPPING AGENTS SPECIFICATIONS FOR BITUMEN ADDITION First Revision
7	PCD 6 (12977) Revision of: IS 15462:2019	Polymer Modified Bitumen PMB Specification
8	PCD 6 (12978)	Rubber Modified Bitumen RMB Specification
9	PCD 6 (13061)	DETERMINATION OF RESISTANCE OF COMPACTED BITUMINOUS MIXTURES TO MOISTURE-INDUCED DAMAGE
10	PCD 6 (13075)	Determination of Stability Flow and Bulk Density of Bituminous Mixes by Marshall Method
11	PCD 6 (13605)	Amendment No 1 to IS 73 2013
12	PCD 6 (13633)	DETERMINATION OF APPARENT VISCOSITY OF BITUMINOUS BINDERS AT ELEVATED TEMPERATURE BY ROTATIONAL VISCOMETER
13	PCD 6 (13658) Revision of: IS 15799:2008	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS AGEING OF BITUMEN EFFECT OF RTFOT AND PAV
14	PCD 6 (14116) Revision of: IS 1210:1978	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS - Float Test
15	PCD 6 (14117) Revision of: IS 1213:1978	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS Distillation Test
16	PCD 6 (14176)	TRACKLESS EMULSION SPECIFICATION
17	PCD 6 (14197)	Bitumen Emulsion for Roads Cationic Type - Specification Amendment - 1
18	PCD 6 (15408)	Cutback bitumen - Specification Third Revision Amendment - 1
19	PCD 6 (15409)	METHOD FOR RECOVERY OF BITUMEN FROM SOLUTION USING ROTARY EVAPORATOR
20	PCD 6 (15414)	Determination of bitumen content in bituminous paving mixtures
21	PCD 6 (15417) Revision of: IS 1215:1978	Methods for testing tar and bituminous materials Determination of matter insoluble in toluene Second Revision of IS 1215
22	PCD 6 (15429) Revision of: IS 1201:2004	Methods for testing tar and bituminous materials -Second Revision-IS 1201-sampling
23	PCD 6 (15431)	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS DETERMINATION OF DRAINDOWN CHARACTERISTICS OF UNCOMPACTED BITUMEN MIXTURES
24	PCD 6 (16134) Revision of: IS 702:1988	SPECIFICATION FOR INDUSTRIAL BITUMEN
25	PCD 6 (16138) Revision of: IS 1202:1978	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS - Determination of specific gravity
26	PCD 6 (16150) Revision of: IS 1203:1978	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS - Determination of Penetration-IS 1203
27	PCD 6 (16217) Revision of: IS 1205:1978	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS - Determination of Softening Point Ring and Ball Apparatus IS 1205
28	PCD 6 (16265) Revision of: IS 1204:1978	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS - DETERMINATION OF RESIDUE OF SPECIFIED PENETRATION -IS 1204
29	PCD 6 (16290) Revision of: IS 14982:2017	Anti-Stripping Agents For Bitumen Addition -Specification
30	PCD 6 (16306) Revision of: IS 1206:1978	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS - Determination of Viscosity By Volumetric Flow Rate Method
31	PCD 6 (16310) Revision of: IS 1206:1978	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS - Determination of Viscosity Part 2 Absolute Viscosity
32	PCD 6 (16312) Revision of: IS 1206:1978	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS - Determination of Viscosity-Part 3 Kinematic Viscosity-
33	PCD 6 (16366) Revision of: IS 1207:1978	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS DETERMINATION OF EQUIVISCIOUS TEMPERATURE EVT
34	PCD 6 (16506) Revision of: IS 1211:1978	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS DETERMINATION OF WATER CONTENT DEAN AND STARK METHOD
35	PCD 6 (16871) Revision of: IS 1209:1978	Methods for Testing Tar and Bituminous Materials Determination of flash point and fire point
36	PCD 6 (16872) Revision of: IS 1212:1978	Methods for Testing Tar and Bituminous Materials Determination of loss on heating
37	PCD 6 (17366) Revision of:	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS DETERMINATION OF

	IS 1208:1978	DUCTILITY
38	PCD 6 (17367) Revision of: IS 1208:1978	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS DETERMINATION OF ELASTIC RECOVERY
39	PCD 6 (18572) Revision of: IS 334:2002	GLOSSARY OF TERMS RELATING TO BITUMEN AND TAR
40	PCD 6 (18573) Revision of: IS 9382:1979	Methods For Testing Tar And Bituminous Materials Determination of Effect of Heat and Air By Thin Film Oven Test
41	PCD 6 (19995) Revision of: IS 1216:1978	Tar and Bituminous Materials - Methods for Test - Determination of Solubility in Trichloroethylene
42	PCD 6 (20211) Revision of: IS 9381:1979	Tar and Bituminous Materials - Determination of Fraass Breaking Point of Bitumen - Methods of Test First Revision
43	PCD 6 (20271) Revision of: IS 10511:1983	METHOD FOR DETERMINATION OF ASPHALTENES IN BITUMEN BY PRECIPITATION WITH NORMAL HEPTANE First Revision
44	PCD 6 (20362) Revision of: IS 6241:1971	DETERMINATION OF STRIPPING VALUE OF ROAD AGGREGATES - METHOD OF TEST First Revision
45	PCD 6 (20497)	Tar and Bituminous Materials - Determination of Saturates Naphthene Aromatics Polar Aromatics and Asphaltenes Methods of Test
46	PCD 6 (20743) Revision of: IS 1217:1978	Tar and Bituminous Materials - Determination of Mineral Matter Ash - Methods of Test Second revision
47	PCD 6 (21327) Revision of: IS 1218:1978	Tar and Bituminous Materials -Methods for Test -Determination of Phenols Second Revision
48	PCD 6 (22140) Revision of: IS 1219:1978	Tar and Bituminous Materials -Methods for Test Determination of Naphthalene Second Revision
49	PCD 6 (22148) Revision of: IS 1220:1978	Tar and Bituminous Materials - Methods for Test -Determination of Volatile Matter Content Second Revision
50	PCD 6 (22452)	Bitumen Emulsion for roads Cationic Type - Amendment - 2
51	PCD 6 (22770)	PAVING BITUMEN - SPECIFICATION
52	PCD 6 (22771)	INDUSTRIAL BITUMEN- SPECIFICATION
53	PCD 6 (23092)	SPECIFICATION FOR PAVING BITUMEN - AMENDMENT No 3
54	PCD 6 (23243)	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS - DETERMINATION OF PENETRATION- AMENDMENT - 1
55	PCD 6 (23245)	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS - DETERMINATION OF DUCTILITY AMENDMENT - 1
56	PCD 6 (23246)	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS - DETERMINATIONS OF VISCOSITY PART 2 ABSOLUTE VISCOSITY - AMENDMENT - 1
57	PCD 6 (23247)	METHODS FOR TESTING TAR AND BITUMINOUS MATERIALS - DETERMINATION OF VISCOSITY - PART 3 KINEMATIC VISCOSITY- AMENDMENT - 1
58	PCD 6 (23418)	Methods for Testing Tar and Bituminous Materials - Determination of Specific Gravity of Bituminous Mixtures
59	PCD 6 (23543)	CATIONIC MODIFIED BITUMEN EMULSION - AMENDMENT - 1
60	PCD 6 (25036)	Method for determination of wax content in bitumen - Specification First Revision Amendment - 1
61	PCD 6 (25037)	Rubber modified bitumen Rmb - specification Amendment - 1
62	PCD 6 (27355)	SAFE HANDLING OF BITUMEN AND BITUMEN PRODUCTS CODE OF PRACTICE
63	PCD 6 (27387) Revision of: IS 1213:1978	Tar and Bituminous Materials - Distillation Test - Methods of Test Third Revision
64	PCD 6 (27828)	Polymer modified bitumen PMB - Specification First Revision Amendment - 1
65	PCD 6 (27830)	Cationic modified bitumen emulsion - Specification Amendment - 2
66	PCD 6 (27831)	Rubber modified bitumen RMB - Specification Amendment - 2
67	PCD 6 (27832)	Bitumen emulsion for roads and allied applications Anionic Type - Specification First Revision Amendment - 1
68	PCD 6 (27833)	Multi - Grade bitumen for use in pavement construction - Specification Amendment - 1
69	PCD 6 (27834)	Rejuvenating agents for hot mix recycling of bituminous surfacing - Specification Amendment - 1
70	PCD 6 (27835)	Crack sealants - Specification Amendment - 1
71	PCD 6 (27836)	Sealing compound for lead - Acid bateries Bitumen Based - Specification First Revision Amendment - 2
72	PCD 6 (27855)	Cutback bitumen - Specification Third Revision Amendment - 2
73	PCD 6 (27856)	Bitumen Emulsion for Roads Cationic Type Amendment - 3
74	PCD 6 (27857)	Anti-stripping agents for bitumen addition - Specification Second Revision Amendment - 1

75	PCD 6 (27858)	Industrial bitumen - Specification Third Revision Amendment - 2
76	PCD 6 (27864)	Paving bitumen - Specification Fourth Revision Amendment - 4
77	PCD 6 (28537)	Determination of bitumen content in bituminous paving mixtures Amendment - 1
78	PCD 6 (28781) Revision of: IS 1216:2023	Tar and bituminous materials - Determination of solubility in trichloroethylene or toluene - Methods of test Third Revision
79	PCD 6 (33266)	Methods for testing tar and bituminous materials - Sampling of bituminous materials Second Revision

Total Published Standards:54 Total Standards Under development:80

Aspect Wise Report

Product : 13
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 : 1

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 1208:1978	Determination Of Ductility - SEE IS 1201 to IS 1220
2	IS 1214:1978	Determination of Matter Insoluble in Benzene
3	IS 454:1994	Double - Acting spring hinges - Specification Third Revision
4	IS 8887:2004 ISO 17327-1:2018	Bitumen Emulsion for Roads Cationic Type

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 Amendment - 1
2	IS 15462:2019	Polymer modified bitumen PMB Specification First Revision
3	IS 15808:2008	Multi - Grade bitumen for use in pavement construction - Specification Amendment - 1
4	IS 17016:2018	Cationic modified bitumen emulsion - Specification Amendment - 2
5	IS 17052:2018	Rejuvenating agents for hot mix recycling of bituminous surfacing - Specification Amendment - 1
6	IS 17079:2019	Rubber modified bitumen RMB - Specification
7	IS 17124:2019	Crack sealants - Specification Amendment - 1
		TRACKLESS EMULSION SPECIFICATION

8	IS 18883:2025	
9	IS 217:2018	Cutback bitumen - Specification Third Revision Amendment - 2
10	IS 3116:2002	Sealing compound for lead - Acid bateries Bitumen Based - Specification First Revision Amendment - 2
11	IS 3117:2025 Reaffirmed but not taken up for revision	Bitumen emulsion for roads and allied applications Anionic Type - Specification First Revision Amendment - 1
12	IS 702:2022	Industrial bitumen - Specification Third Revision Amendment - 2
13	IS 73:2013	Paving bitumen - Specification Fourth Revision Amendment - 4