

BUREAU OF INDIAN STANDARDS

Program of Work

PCD 7 : Solid Mineral Fuels and Solid Biofuels

Scope: To formulate Indian Standards for a) Terminology, methods of sampling and test, codes of practice, classification by size and type, petrographic analysis and specification for solid mineral fuel b) Terminology, methods of sampling and test, codes of practice, classification and specification for raw and processed materials originating from arboriculture, agriculture, aquaculture, horticulture and forestry to be used as a source for solid bio-fuels.

Liaison: **ISO TC-238 (P): Solid biofuels** **ISO TC-27 (P): Coal and coke** **ISO TC- SC-1 (P): Coal preparation: Terminology and performance** **ISO TC- SC-3 (P): Coke** **ISO TC- SC-4 (P): Sampling** **ISO TC- SC-5 (P): Methods of analysis**

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 12770:2025	Coal for Cement Manufacture - Specification (First Revision)		-	Indigenous
2	IS 12770:1989 <i>Reviewed In : 2020</i>	Coal for cement manufacture - Specification	May, 2020	-	Indigenous
3	IS 12891:2021 <i>ISO 540 : 2008</i>	Determination of fusibility of ash from coal, coke and lignite (First Revision)		-	Not Equivalent
4	IS 1350 (Part 1):1984 <i>Reviewed In : 2023</i>	Methods of test for coal and coke : Part 1 proximate analysis (Second Revision)	September, 2023	1	Indigenous
5	IS 1350 (Part 1):2025	Coal and Coke - Methods of Test Part 1 Proximate Analysis (Third Revision)		-	Indigenous
6	IS 1350 (Part 2):2022 ISO 1928 : 2020 <i>ISO 1928 : 2020</i>	Method of test for coal and coke : Part 2 determination of gross calorific value (Third Revision)		-	Identical under dual numbering
7	IS 1350 (Part 3):2022 ISO 334 : 2020 <i>ISO 334 : 2020</i>	Methods of test for coal and coke : Part 3 determination of total sulphur - Eschka method (Second Revision)		-	Identical under dual numbering
8	IS 1350 (Part 4/Sec 1):2024	Coal and coke - Methods of test : Part 4 ultimate analysis, Section 1 determination of carbon and hydrogen (Second Revision)		-	Indigenous
9	IS 1350 (Part 4/Sec 2):2025	Coal and Coke - Methods of Test Part 4 Ultimate Analysis Section 2 Determination of Nitrogen (Second Revision)		-	Indigenous
10	IS 1350 (Part 4/Sec 2):1975 <i>Reviewed In : 2020</i>	Methods of test for coal and coke : Part 4 ultimate analysis, Section 2 determination of nitrogen (First	May, 2020	2	Indigenous

		Revision)			
11	IS 1350 (Part 5):2017 Reviewed In : 2021	Methods of test for coal and coke : Part 5 determination of special impurities (carbon present as carbonate, chlorine and phosphorus) (Second Revision)	May, 2021	-	Indigenous
12	IS 1353 (Part 1):2018 Reviewed In : 2023 ISO 501: 2012	Method of test for coal carbonization : Part 1 determination of the crucible swelling number (Second Revision)	September, 2023	-	Identical under dual numbering
13	IS 1353 (Part 2):2018 Reviewed In : 2023 ISO 502: 2015	Method of test for coal carbonization : Part 2 determination of caking power - Gray - King coke test (Second Revision)	September, 2023	-	Identical under dual numbering
14	IS 1353 (Part 3):2022 ISO 15585 : 2019 ISO 15585 : 2019	Method of test for coal carbonization : Part 3 determination of caking index (Second Revision)		-	Identical under dual numbering
15	IS 1354:2024	Coke - Methods of test - Special tests (Third Revision)		-	Indigenous
16	IS 1355:1984 Reviewed In : 2023	Methods of determination of the chemical composition of ash of coal and coke (First Revision)	September, 2023	1	Indigenous
17	IS 1355:2025	Coal and Coke - Determination of chemical composition of ash (Second Revision)		-	Indigenous
18	IS 13758 (Part 1):1993 Reviewed In : 2025	Coal tar pitch - Methods of test : Part 1 determination of matter insoluble in quinoline	July, 2025	-	Indigenous
19	IS 13758 (Part 2):1993 Reviewed In : 2025	Coal tar pitch - Methods of test : Part 2 determination of coking value	July, 2025	-	Indigenous
20	IS 13810:2023	Code of practice for float and sink analysis of coal (First Revision)		-	Indigenous
21	IS 15438:2004 ISO 157 Reviewed In : 2020 ISO 157:1996	Coal - Determination of forms of sulphur	May, 2020	-	Identical under dual numbering
22	IS 15441:2004 ISO 625 Reviewed In : 2020 ISO 625:1996	Solid mineral fuels - Determination of carbon and hydrogen - Liebig method	May, 2020	-	Identical under dual numbering
23	IS 15807 (Part 1):2008 Reviewed In : 2020	Methods of petrographic analysis of lignite : Part 1 definition of terms relating to petrographic analysis of lignite	January, 2020	-	Indigenous
24	IS 16143 (Part 1):2021 ISO 13909 -1:2016 ISO 13909 -1:2016	Hard coal and coke - Mechanical sampling : Part 1 general introduction (First Revision)		-	Identical under dual numbering
25	IS 16143 (Part 2):2021 ISO 13909-2:2016 ISO 13909-2:2016	Hard coal and coke - Mechanical sampling : Part 2 coal - Sampling from moving streams (First Revision)		-	Identical under dual numbering
26	IS 16143 (Part 3):2021 ISO 13909-3:2016	Hard coal and coke - Mechanical sampling : Part 3 coal - Sampling from stationary lots (First		-	Identical under dual numbering

	ISO 13909-3:2016	Revision)			
27	IS 16143 (Part 4):2021 ISO 13909-4 : 2016 ISO 13909-4 : 2016	Hard coal and coke - Mechanical sampling : Part 4 coal - preparation of test samples (First Revision)		-	Identical under dual numbering
28	IS 16143 (Part 5):2021 ISO 13909-5 : 2016 ISO 13909-5 : 2016	Hard coal and coke - Mechanical sampling : Part 5 coke - Sampling from moving streams (First Revision)		-	Identical under dual numbering
29	IS 16143 (Part 6):2021 ISO 13909-6 : 2016 ISO 13909-6 : 2016	Hard coal and coke - Mechanical sampling : Part 6 coke - preparation of test samples (First Revision)		-	Identical under dual numbering
30	IS 16143 (Part 7):2021 ISO 13909-7 : 2016 ISO 13909-7 : 2016	Hard coal and coke - Mechanical sampling : Part 7 methods for determining the precision of sampling, sample preparation and testing (First Revision)		-	Identical under dual numbering
31	IS 16143 (Part 8):2021 ISO 13909-8 : 2016 ISO 13909-8 : 2016	Hard coal and coke - Mechanical sampling : Part 8 methods of testing for bias (First Revision)		-	Identical under dual numbering
32	IS 16196:2015 ISO 609 : 1996 Reviewed In : 2020 ISO 609 : 1996	Solid mineral fuels - Determination of carbon and hydrogen - High temperature combustion method	May, 2020	-	Identical under dual numbering
33	IS 16609:2018 ISO 19579 : 2012 Reviewed In : 2023 ISO 19579:2012	Solid mineral fuels - Determination of sulphur by IR spectrometry	September, 2023	1	Identical under dual numbering
34	IS 16610:2022 ISO 10329 : 2017 ISO 10329 : 2017	Coal - Determination of plastic properties - Constant-torque gieseler plastometer method (First Revision)		-	Identical under dual numbering
35	IS 16611:2022 ISO 20904 : 2020 ISO 20904 : 2020	Hard coal - Sampling of slurries (First Revision)		-	Identical under dual numbering
36	IS 16612:2018 ISO 29541 : 2010 Reviewed In : 2023 ISO 29541 : 2010	Solid mineral fuels - Determination of total carbon, hydrogen and nitrogen content - Instrumental method	September, 2023	-	Identical under dual numbering
37	IS 16616:2022 ISO 349 : 2020 ISO 349 : 2020	Hard coal - Audibert-arnu dilatometer test (First Revision)		-	Identical under dual numbering
38	IS 16617:2018 ISO 9931 : 1991 Reviewed In : 2023 ISO 9931:1991	Coal - Sampling of pulverized coal conveyed by gases in direct fired coal systems	September, 2023	-	Identical under dual numbering
39	IS 16618:2017 Reviewed In : 2021 ISO 23380 : 2013	Determination of ten trace elements in coal, coke, lignite and fly ash by flame atomic absorption spectroscopic method	May, 2021	-	Not Equivalent
40	IS 16721 (Part 1):2018 Reviewed In : 2023 ISO 15237 : 2003,ISO 23380 : 2008	Method of test for coal : Part 1 determination of total mercury content by atomic absorption spectrometry	September, 2023	-	Not Equivalent

41	IS 16721 (Part 2):2018 Reviewed In : 2023 ISO 11723: 2004 ISO 23380 : 2008	Method of test for coal : Part 2 determination of arsenic and selenium - Eschka's mixture and hydride generation/atomic absorption spectrometry	September, 2023	-	Not Equivalent
42	IS 17073:2019 Reviewed In : 2023 ASTM D4326-13	Determination of major elements in coal and coke ash by x-ray fluorescence spectroscopic method	September, 2023	-	Not Equivalent
43	IS 17378:2021	Test method for determination of major elements in ash from coal and coke by flame atomic absorption spectroscopic method		-	Indigenous
44	IS 17642:2021 ISO 17828 : 2015 ISO 17828 : 2015	Solid biofuels - Determination of bulk density		-	Identical under dual numbering
45	IS 17643:2021 ISO 17829 : 2015 ISO 17829 : 2015	Solid biofuels - Determination of length and diameter of pellets		-	Identical under dual numbering
46	IS 17653:2021 ISO 18122 : 2015 ISO 18122 : 2015	Solid biofuels - Determination of ash content		-	Identical under dual numbering
47	IS 17654:2021 ISO 18125 : 2017 ISO 18125 : 2017	Solid biofuels - Determination of calorific value		-	Identical under dual numbering
48	IS 17655:2021 ISO 18134 -1 : 2015 ISO 18134-1 : 2022	Solid biofuels - Determination of moisture content - Oven dry method : Part 1 total moisture - Reference method		-	Identical under dual numbering
49	IS 17655 (Part 1):2025 ISO 18134-1 : 2022 ISO 18134-1 : 2022	Solid Biofuels Determination of Moisture Content Part 1 Reference Method (First Revision)		-	Identical under dual numbering
50	IS 17655 (Part 2):2021 ISO 18134-2 : 2017 ISO 18134-2 : 2017	Solid biofuels - Determination of moisture content - Oven dry method : Part 2 total moisture - Simplified method		-	Identical under dual numbering
51	IS 17655 (Part 3):2025 ISO 18134-3 : 2023 ISO 18134-3 : 2023	Solid Biofuels - Determination of Moisture Content Part 3 Moisture in General Analysis Sample (First Revision)		-	Identical under dual numbering
52	IS 17655:2021 ISO 18134-3 : 2015 ISO 18134-3 : 2023	Solid biofuels - Determination of moisture content - Oven dry method : Part 3 moisture in general analysis sample		-	Identical under dual numbering
53	IS 17656:2021 ISO 18846 : 2016 ISO 18846 : 2016	Solid biofuels - Determination of fines content in samples of pellets		-	Identical under dual numbering
54	IS 17820:2022 ISO 622 : 2016 ISO 622 : 2016	Solid mineral fuels - Determination of phosphorus content - Reduced molybdophosphate photometric method		-	Identical under dual numbering
55	IS 17832:2022 ISO 16948 : 2015 ISO 16948 : 2015	Solid biofuels - Determination of total content of carbon, hydrogen and nitrogen		-	Identical under dual numbering
56	IS 17833:2022 ISO 16994 : 2016	Solid biofuels - Determination of total content of sulfur and chlorine		-	Identical under dual numbering

	ISO 16994 : 2016				
57	IS 17834:2022 ISO 16995 : 2015 ISO 16995 : 2015	Solid biofuels - Determination of the water soluble chloride, sodium and potassium content		-	Identical under dual numbering
58	IS 17844:2025 ISO 18123 : 2023 ISO 18123 : 2023	Solid Biofuels - Determination of Volatile Matter (First Revision)		-	Identical under dual numbering
59	IS 17844:2022 ISO 18123 : 2015 ISO 18123 : 2023	Solid biofuels - Determination of the content of volatile matter		-	Identical under dual numbering
60	IS 18557 (Part 1):2024 ISO 17831-1 ISO 17831-1 : 2015	Solid biofuels - Determination of mechanical durability of pellets and briquettes : Part 1 pellets		-	Identical under dual numbering
61	IS 18557 (Part 2):2024 ISO 17831-2 ISO 17831-2 : 2015	Solid biofuels - Determination of mechanical durability of pellets and briquettes : Part 2 briquettes		-	Identical under dual numbering
62	IS 18640:2024 ISO 14780	Solid Biofuels - Sample Preparation		-	Not Equivalent
63	IS 18721:2024 ISO 16559 : 2014	Solid Biofuels i ₁ /2 Vocabulary		-	Not Equivalent
64	IS 18724:2024 ISO 17225-6 : 2021	Solid biofuels - Fuel specifications and classes - Pellets from agro and herbaceous residues		-	Not Equivalent
65	IS 18725:2024 ISO 17225-7	Solid biofuels - Fuel specifications and classes - Briquettes from agro and herbaceous residues		-	Not Equivalent
66	IS 19139:2025 ISO 16967 : 2015 ISO 16967 : 2015	Solid Biofuels i ₁ /2 Determination of Major Elements i ₁ /2 Al, Ca, Fe, Mg, P, K, Si, Na and Ti		-	Identical under dual numbering
67	IS 19158:2025 ISO 16968 : 2015 ISO 16968 : 2015	SOLID BIOFUELS - DETERMINATION OF MINOR ELEMENTS		-	Identical under dual numbering
68	IS 212:2021	Crude coal tar for general use (Third Revision)		-	Indigenous
69	IS 216:2006 Reviewed In : 2021	Coal tar pitch - Specification (Second Revision)	April, 2021	-	Indigenous
70	IS 218:1983 Reviewed In : 2023	Specification for creosote oil for use as wood preservatives (Second Revision)	September, 2023	1	Indigenous
71	IS 3746:2018 Reviewed In : 2023 ISO 561:1986	Graphical symbols for coal preparation plant (Second Revision)	September, 2023	-	Not Equivalent
72	IS 3810 (Part 1):2002 Reviewed In : 2020 ISO 1213-1:1993	Solid mineral fuels - Vocabulary : Part 1 terms relating to coal preparation (Second Revision)	May, 2020	-	Not Equivalent
73	IS 3810 (Part 2):2003 ISO 1213-2 Reviewed In : 2020	Solid mineral fuels - Vocabulary : Part 2 terms relating to sampling, testing and analysis (First Revision)	May, 2020	-	Indigenous
74	IS 3810 (Part 3):2023	Glossary of terms relating to solid mineral fuels : Part 3 - Coke		-	Indigenous
75	IS 4023:2022 ISO 18894 : 2018	Methods for the determination of coke reactivity index (CRI) and		-	Identical under dual numbering

	ISO 18894 : 2018	coke strength after reaction (CSR) (Second Revision)			
76	IS 4286:2024	Domestic Coke - Specification (Second Revision)		-	Indigenous
77	IS 4311:2024 ISO 602 : 2015 ISO 602 : 2015	Coal - Determination of mineral matter (First Revision)		-	Identical under dual numbering
78	IS 436 (Part 1/Sec 1):2024	Methods for Sampling of Coal and Coke Part 1 Sampling of Coal Section 1 Manual Sampling (Second Revision)		-	Indigenous
79	IS 437:2020	Size analysis of coal and coke for marketing (Fourth Revision)	-	-	Indigenous
80	IS 439:2020	Industrial Coke - Specification (Fourth Revision)	-	-	Indigenous
81	IS 4433:1979 Reviewed In : 2020	Method for determination of hardgrove grindability index of coal (First Revision)	May, 2020	-	Indigenous
82	IS 5062 (Part 1):1969 Reviewed In : 2020	Methods of test for brown coals and lignites : Part 1 determination of moisture content by the direct volumetric method	May, 2020	-	Indigenous
83	IS 5062 (Part 2):1969 Reviewed In : 2020	Methods of test for brown coals and lignites : Part 2 determination of ash	May, 2020	-	Indigenous
84	IS 5062 (Part 3):2022 ISO 647 : 2017 ISO 647 : 2017	Methods of test for brown coals and lignite : Part 3 determination of the yields of tar water gas and coke residue by low temperature distillation (Second Revision)		-	Identical under dual numbering
85	IS 5062 (Part 4):2018 ISO 975 : 2013 Reviewed In : 2023 ISO 975:2021	Method of test for brown coals and lignites : Part 4 determination of yield of benzene-soluble extract - Semi-automatic method (Second Revision)	September, 2023	-	Identical under dual numbering
86	IS 5062 (Part 4):2025 ISO 975:2021 ISO 975:2021	Brown Coal and Lignite - Methods of Test Part 4 Determination of Yield of Benzene-Soluble Extract - Semi- Automatic Method (Third Revision)		-	Identical under dual numbering
87	IS 5062 (Part 5):2018 ISO 1017 : 2006 Reviewed In : 2023 ISO 1017 : 2006	Methods of test for brown coals and lignites : Part 5 determination of acetone-soluble material (Resinous Substance) in the benzene-soluble extract (Second Revision)	September, 2023	-	Identical under dual numbering
88	IS 5062 (Part 6):2017 ISO 5072 : 2013 Reviewed In : 2021 ISO 5072 : 2021	Methods of test for brown coals and lignites : Part 6 determination of true relative density and apparent relative density	May, 2021	-	Identical under dual numbering
89	IS 5062 (Part 6):2025 ISO 5072 : 2021 ISO 5072 : 2021	Brown Coal and Lignite - Methods of Test: Part 6 Determination of True Relative Density and Apparent Relative Density (First Revision)		-	Identical under dual numbering
90	IS 5062 (Part	Brown coals and lignites - Methods		-	Identical under dual

	7):2024 ISO 5073 : 2021 ISO 5073 : 2021	of test : Part 7 determination of humic acids (First Revision)			numbering
91	IS 5062 (Part 8/Sec 1):2018 Reviewed In : 2023 ISO 5068-1: 2007	Methods of test for brown coals and lignites : Part 8 determination of moisture content, Section 1 indirect gravimetric method for total moisture	September, 2023	-	Identical under dual numbering
92	IS 5062 (Part 8/Sec 2):2018 ISO 5068-2 : 2007 Reviewed In : 2023 ISO 5068-2: 2007	Methods of test for brown coals and lignites : Part 8 determination of moisture content, Section 2 indirect gravimetric method for moisture in the analysis sample	September, 2023	-	Identical under dual numbering
93	IS 5209:2002 ISO 924 Reviewed In : 2020 ISO 924:1989	Coal preparation plant - Principles and conventions for flowsheets (First Revision)	May, 2020	-	Identical under dual numbering
94	IS 5451:2001 Reviewed In : 2023 ISO 1543	Glossary of terms relating to coal carbonization products (First Revision)	September, 2023	-	Not Equivalent
95	IS 6345:1996 Reviewed In : 2023 ISO 7936	Methods of sampling of coal for float and sink analysis (First Revision)	September, 2023	-	Not Equivalent
96	IS 7190 (Part 1):2024 ISO 567 : 2021 ISO 567 : 2021	Coke - Methods of test : Part 1 determination of bulk density in a small container (Second Revision)		-	Identical under dual numbering
97	IS 7190 (Part 2):2022 ISO 1013 : 2020 ISO 1013 : 2020	Coke - Methods of test : Part 2 determination of bulk density in a large container (Second Revision)		-	Identical under dual numbering
98	IS 770:2013 Reviewed In : 2023	Classification and codification of indian coals, lignites and semi-anthracites (Third Revision)	September, 2023	-	Indigenous
99	IS 7929:1975 Reviewed In : 2020	Methods for determination of electrical resistivity of chemical coke	May, 2020	-	Indigenous
100	IS 9127 (Part 1):2022 ISO 7404-1 : 2016 ISO 7404-1 : 2016	Methods of petrographic analysis of coal : Part 1 definition of terms relating to petrographic analysis of coal (Second Revision)		-	Identical under dual numbering
101	IS 9127 (Part 2):2014 ISO 7404-2 : 2009 Reviewed In : 2020 ISO 7404-2 : 2009	Methods for petrographic analysis of coals : Part 2 methods of preparing coal samples (Second Revision)	January, 2020	-	Identical under dual numbering
102	IS 9127 (Part 3):2002 ISO 7404-3 Reviewed In : 2020 ISO 7404-3:1994	Methods for the petrographic analysis of bituminous coal and anthracite : Part 3 method of determining maceral group composition (First Revision)	May, 2020	-	Identical under dual numbering
103	IS 9127 (Part 4):2022 ISO 7404-4 : 2017 ISO 7404-4 : 2017	Methods for petrographic analysis of coal : Part 4 method of determining microlithotype carbominerite and minerite composition (First Revision)		-	Identical under dual numbering
104	IS 9127 (Part 5):2004 ISO 7404-5	Methods for the petrographic analysis of bituminous coal and anthracite : Part 5 method of	May, 2020	-	Identical under dual numbering

	Reviewed In : 2020 ISO 7404-5:1994	determining microscopically the reflectance of vitrinite (First Revision)			
105	IS 9912:1981 Reviewed In : 2025 Decision taken to Reaffirm and Archive	Coal tar based coating material and primers for protecting iron or steel pipelines - Specification (First Revision)	July, 2025	-	Indigenous
106	IS 9949:2025	Abrasive Properties of Coal and Associated Minerals - Methods of test (Second Revision)		-	Indigenous
107	IS 9949:1986 Reviewed In : 2020	Methods of test for abrasive properties of coal and associated minerals (First Revision)	May, 2020	-	Indigenous

Standards under Development

Projects Approved

SI. No.	Doc No.	Title
No Records Found		

Preliminary Draft Standards

SI. No.	Doc No.	Title
1	PCD 7 (28848)	SOLID BIOFUELS SAFE HANDLING AND STORAGE

Drafts Standards in WC Stage

SI. No.	Doc No.	Title
1	PCD 7 (28862) Revision of: IS 17656:2021	Solid Biofuels - Determination of Fines Content In Pellets First Revision
2	PCD 7 (28866) Revision of: IS 16610:2022	Hard Coal - Determination of Plastic Properties Constant-Torque Gieseler Plastometer Method Second Revision
3	PCD 7 (28871) Revision of: IS 17655:2021	Solid Biofuels Determination of Moisture Content Part 2 Simplified Method First Revision

Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
1	PCD 7 (25095) Revision of: IS 17655:2021	Solid Biofuels Determination of Ash Content First Revision
2	PCD 7 (28265) Revision of: IS 17655:2021	Coal - Determination of Hardgrove Grindability Index Second Revision
3	PCD 7 (28817) Revision of: IS 17655:2021	COAL PREPARATION PLANT PRINCIPLES AND CONVENTIONS FOR FLOWSHEETS Second Revision
4	PCD 7 (28823) Revision of: IS 17655:2021	BROWN COALS AND LIGNITES METHODS OF TEST PART 8 DETERMINATION OF MOISTURE CONTENT SECTION 2 INDIRECT GRAVIMETRIC METHOD FOR MOISTURE IN THE ANALYSIS SAMPLE First Revision

Finalized Draft Indian Standard

SI. No.	Doc No.	Title
No Records Found		

Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	PCD 7 (25223)	Solid Biofuels Sampling

Total Published Standards:89 Total Standards Under development:9

Aspect Wise Report

Product : 9
Code of Practices : 1
Methods of Test : 63
Terminology : 7
Dimensions : 1
System Standard : 0
Safety Standard : 0
Others : 16
Service Specification : 0
Process Specification : 0
Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 1272:1958 Reviewed In : 2005	Coal Tar Solvent Naphtha Light Grade 2
2	IS 1351:1959	Methods of Test for Coal Coke Ultimates Analysis
3	IS 1352:1959	Methods of Test for Coal and Coke Ultimate Analysis
4	IS 1421:1964	Cellulose Nitrate Coated Fabrics
5	IS 15439:2000 Reviewed In : 2005	Hard Coal - Determination of Oxygen Content
6	IS 15440:2004	Coal - Sampling of Pulverized Coal Conveyed by Gases in Direct Fired Coal Systems
7	IS 213:1968	Coal-based naphtha superseding IS 214 AND IS 1272
8	IS 214:1958	Coal Tar Solvent Naphtha Heavy
9	IS 215:1995 Reviewed In : 2016	Road Tar
10	IS 358:1964	Benzole Industrial revised
11	IS 436 (Part 1/Sec 2):1976 Reviewed In : 2010	Methods for sampling of coal and coke Part I Sampling of Coal Section 2 Mechanical sampling
12	IS 436 (Part 2):1965 Reviewed In : 2010	Methods of sampling of coal and coke Part 2 Sampling of coke
13	IS 4836:1968	Foundary Coke
14	IS 5018:1968	Classification of hard coals by type
15	IS 535:1955	Benzene Pure Nitration Grade
16	IS 5615:1970	Gas Coke
17	IS 6372:1971	Coke For Ferro-alloys
18	IS 6407:1971	Rubber Aprons For Hospital Use
19	IS 7189:1974	Blast Furnace Coke

	Reviewed In : 2005	
20	IS 7190:1974 Reviewed In : 2010	Methods of determination of bulk density of coke
21	IS 7221:1974	Methods of determining the moisture holding capacity in hard coals

Annexure-II :List of Indian Product Standards
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Sl. No.	IS No. & Year	Title
1	IS 12770:2025	Coal for Cement Manufacture - Specification First Revision
2	IS 18724:2024	Solid biofuels - Fuel specifications and classes - Pellets from agro and herbaceous residues
3	IS 18725:2024	Solid biofuels - Fuel specifications and classes - Briquettes from agro and herbaceous residues
4	IS 212:2021 ISO 5518:2007	Crude coal tar for general use Third Revision
5	IS 216:2006 Reviewed In : 2021	Coal tar pitch - Specification Second Revision
6	IS 218:1983 Reviewed In : 2023	Specification for creosote oil for use as wood preservatives Second Revision
7	IS 4286:2024	Domestic Coke - Specification Second Revision
8	IS 439:2020	Industrial Coke - Specification Fourth Revision
9	IS 9912:1981 Reviewed In : 2025 Decision taken to Reaffirm and Archive	Coal tar based coating material and primers for protecting iron or steel pipelines - Specification First Revision