

## 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 : 1989 <span style="color: green;">Reviewed In : 2020</span>	Coal for cement manufacture - Specification	May, 2020	-	Indigenous
2	IS 12891 : 2021 <span style="color: green;">ISO 540 : 2008</span>	Determination of fusibility of ash from coal, coke and lignite (First Revision)		-	Not Equivalent
3	IS 1350 (Part 1) : 1984 <span style="color: green;">Reviewed In : 2023</span>	Methods of test for coal and coke : Part 1 proximate analysis (Second Revision)	September, 2023	1	Indigenous
4	IS 1350 (Part 2) : 2022 ISO 1928 : 2020 <span style="color: green;">ISO 1928 : 2020</span>	Method of test for coal and coke : Part 2 determination of gross calorific value (Third Revision)		-	Identical under dual numbering
5	IS 1350 (Part 3) : 2022 ISO 334 : 2020 <span style="color: green;">ISO 334 : 2020</span>	Methods of test for coal and coke : Part 3 determination of total sulphur - Eschka method (Second Revision)		-	Identical under dual numbering
6	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
7	IS 1350 (Part 4/Sec 2) : 1975 <span style="color: green;">Reviewed In : 2020 ISO/R 332, ISO/R 333</span>	Methods of test for coal and coke : Part 4 ultimate analysis, Section 2 determination of nitrogen (First Revision)	May, 2020	2	Not Equivalent
8	IS 1350 (Part 5) : 2017  <span style="color: green;">Reviewed In : 2021</span>	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
9	IS 1353 (Part 1) : 2018	Method of test for coal carbonization : Part 1	September, 2023	-	Identical under dual numbering

	Reviewed In : 2023 ISO 501: 2012	determination of the crucible swelling number (Second Revision)			
10	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
11	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
12	IS 1354 : 2024	Coke - Methods of test - Special tests (Third Revision)		-	Indigenous
13	IS 1355 : 1984 Reviewed In : 2019 ISO 1171 : 1981	Methods of determination of the chemical composition of ash of coal and coke (First Revision)	January, 2019	1	Not Equivalent
14	IS 13758 (Part 1) : 1993 Reviewed In : 2020	Coal tar pitch - Methods of test : Part 1 determination of matter insoluble in quinoline	January, 2020	-	Indigenous
15	IS 13758 (Part 2) : 1993 Reviewed In : 2020	Coal tar pitch - Methods of test : Part 2 determination of coking value	January, 2020	-	Indigenous
16	IS 13810 : 2023	Code of practice for float and sink analysis of coal (First Revision)		-	Indigenous
17	IS 15438 : 2004 ISO 157 Reviewed In : 2020 ISO 157:1996	Coal - Determination of forms of sulphur	May, 2020	-	Identical under dual numbering
18	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
19	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
20	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
21	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
22	IS 16143 (Part 3) : 2021 ISO 13909-3:2016 ISO 13909-3:2016	Hard coal and coke - Mechanical sampling : Part 3 coal - Sampling from stationary lots (First Revision)		-	Identical under dual numbering
23	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
24	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
25	IS 16143 (Part 6) : 2021	Hard coal and coke - Mechanical sampling : Part 6 coke -		-	Identical under dual numbering

	ISO 13909-6 : 2016 ISO 13909-6 : 2016	preparation of test samples (First Revision)			
26	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
27	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
28	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
29	IS 16609 : 2018 ISO 19579 : 2012 ISO 19579:2012	Solid mineral fuels - Determination of sulphur by IR spectrometry		-	Identical under dual numbering
30	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
31	IS 16611 : 2022 ISO 20904 : 2020 ISO 20904 : 2020	Hard coal - Sampling of slurries (First Revision)		-	Identical under dual numbering
32	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
33	IS 16616 : 2022 ISO 349 : 2020 ISO 349 : 2020	Hard coal - Audibert-arnu dilatometer test (First Revision)		-	Identical under dual numbering
34	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
35	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
36	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
37	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
38	IS 17073 : 2019 ASTM D4326-13	Determination of major elements in coal and coke ash by x-ray fluorescence spectroscopic method		-	Not Equivalent
39	IS 17378 : 2021	Test method for determination of major elements in ash from coal and coke by flame atomic		-	Indigenous

		absorption spectroscopic method			
40	IS 17642 : 2021 ISO 17828 : 2015 ISO 17828 : 2015	Solid biofuels - Determination of bulk density		-	Identical under dual numbering
41	IS 17643 : 2021 ISO 17829 : 2015 ISO 17829 : 2015	Solid biofuels - Determination of length and diameter of pellets		-	Identical under dual numbering
42	IS 17653 : 2021 ISO 18122 : 2015 ISO 18122 : 2015	Solid biofuels - Determination of ash content		-	Identical under dual numbering
43	IS 17654 : 2021 ISO 18125 : 2017 ISO 18125 : 2017	Solid biofuels - Determination of calorific value		-	Identical under dual numbering
44	IS 17655 (Part 1) : 2021 ISO 18134 -1 : 2015 ISO 18134 -1 : 2015	Solid biofuels - Determination of moisture content - Oven dry method : Part 1 total moisture - Reference method		-	Identical under dual numbering
45	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
46	IS 17655 (Part 3) : 2021 ISO 18134-3 : 2015 ISO 18134-3 : 2015	Solid biofuels - Determination of moisture content - Oven dry method : Part 3 moisture in general analysis sample		-	Identical under dual numbering
47	IS 17656 : 2021 ISO 18846 : 2016 ISO 18846 : 2016	Solid biofuels - Determination of fines content in samples of pellets		-	Identical under dual numbering
48	IS 17820 : 2022 ISO 622 : 2016 ISO 622 : 2016	Solid mineral fuels - Determination of phosphorus content - Reduced molybdophosphate photometric method		-	Identical under dual numbering
49	IS 17832 : 2022 ISO 16948 : 2015 ISO 16948 : 2015	Solid biofuels - Determination of total content of carbon, hydrogen and nitrogen		-	Identical under dual numbering
50	IS 17833 : 2022 ISO 16994 : 2016 ISO 16994 : 2016	Solid biofuels - Determination of total content of sulfur and chlorine		-	Identical under dual numbering
51	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
52	IS 17844 : 2022 ISO 18123 : 2015 ISO 18123 : 2015	Solid biofuels - Determination of the content of volatile matter		-	Identical under dual numbering
53	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
54	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
55	212 : 2021	Crude coal tar for general use (Third Revision)		-	Indigenous
56	IS 216 : 2006 Reviewed In : 2021	Coal tar pitch - Specification (Second Revision)	April, 2021	-	Indigenous
57	IS 218 : 1983	Specification for creosote oil for	January, 2019	1	Indigenous

	Reviewed In : 2019	use as wood preservatives (Second Revision)			
58	IS 3746 : 2018 Reviewed In : 2023 ISO 561:1986	Graphical symbols for coal preparation plant (Second Revision)	September, 2023	-	Not Equivalent
59	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
60	IS 3810 (Part 2) : 2003 ISO 1213-2 Reviewed In : 2020 ISO 1213-2:1992	Solid mineral fuels - Vocabulary : Part 2 terms relating to sampling, testing and analysis (First Revision)	May, 2020	-	Not Equivalent
61	IS 3810 (Part 3) : 2023	Glossary of terms relating to solid mineral fuels : Part 3 - Coke		-	Indigenous
62	IS 4023 : 2022 ISO 18894 : 2018 ISO 18894 : 2018	Methods for the determination of coke reactivity index (CRI) and coke strength after reaction (CSR) (Second Revision)		-	Identical under dual numbering
63	IS 4286 : 2024	Domestic Coke - Specification (Second Revision)		-	Indigenous
64	IS 4286 : 1976 Reviewed In : 2020	Specification for domestic coke (First Revision)	May, 2020	-	Indigenous
65	IS 4311 : 2024 ISO 602 : 2015 ISO 602 : 2015	Coal - Determination of mineral matter (First Revision)		-	Identical under dual numbering
66	IS 436 (Part 1/Sec 1) : 1964 Reviewed In : 2023	Methods for sampling of coal and coke : Part 1 sampling of coal, Section 1 manual sampling (First Revision)	September, 2023	-	Indigenous
67	IS 437 : 2020	Size analysis of coal and coke for marketing (Fourth Revision)	-	-	Indigenous
68	IS 439 : 2020	Industrial Coke - Specification (Fourth Revision)	-	-	Indigenous
69	IS 4433 : 1979 Reviewed In : 2020	Method for determination of hardgrove grindability index of coal (First Revision)	May, 2020	-	Indigenous
70	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
71	IS 5062 (Part 2) : 1969 Reviewed In : 2020	Methods of test for brown coals and lignites : Part 2 determination of ash	May, 2020	-	Indigenous
72	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
73	IS 5062 (Part 4) : 2018 ISO 975: 2013	Method of test for brown coals and lignites : Part 4 determination of yield of benzene-soluble extract - Semi-automatic method (Second Revision)	-	-	Identical under dual numbering

74	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
75	IS 5062 (Part 6) : 2017 ISO 5072 : 2013 Reviewed In : 2021 ISO 5072 : 2013	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
76	IS 5062 (Part 7) : 2024 ISO 5073 : 2021 ISO 5073 : 2021	Brown coals and lignites - Methods of test : Part 7 determination of humic acids (First Revision)		-	Identical under dual numbering
77	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
78	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
79	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
80	IS 5451 : 2001 Reviewed In : 2018 ISO 1543	Glossary of terms relating to coal carbonization products (First Revision)	October, 2018	-	Not Equivalent
81	IS 6345 : 1996 Reviewed In : 2019 ISO 7936	Methods of sampling of coal for float and sink analysis (First Revision)	January, 2019	-	Not Equivalent
82	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
83	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
84	IS 770 : 2013 Reviewed In : 2019	Classification and codification of indian coals, lignites and semi-anthracites (Third Revision)	January, 2019	-	Indigenous
85	IS 7929 : 1975 Reviewed In : 2020	Methods for determination of electrical resistivity of chemical coke	May, 2020	-	Indigenous
86	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
87	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
88	IS 9127 (Part 3) :	Methods for the petrographic	May, 2020	-	Identical under dual



	2002 ISO 7404-3 Reviewed In : 2020 ISO 7404-3:1994	analysis of bituminous coal and anthracite : Part 3 method of determining maceral group composition (First Revision)			numbering
89	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
90	IS 9127 (Part 5) : 2004 ISO 7404-5 Reviewed In : 2020 ISO 7404-5:1994	Methods for the petrographic analysis of bituminous coal and anthracite : Part 5 method of determining microscopically the reflectance of vitrinite (First Revision)	May, 2020	-	Identical under dual numbering
91	IS 9912 : 1981 Reviewed In : 2020	Coal tar based coating material and primers for protecting iron or steel pipelines - Specification (First Revision)	January, 2020	-	Indigenous
92	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
<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
1	PCD 7 (24223)	Methods of Test for Coal and Coke Part 1 Proximate Analysis Third Revision
2	PCD 7 (24232)	Coal for Cement Manufacture Specification First Revision
3	PCD 7 (25093)	Method of test for Brown Coals and Lignites Part 4 Determination of Yield of Benzene - Soluble Extract Semi - Automatic Method Third Revision
4	PCD 7 (25094)	Methods of Test for Brown Coals and Lignites Part 6 Determination of True Relative Density and Apparent Relative Density First Revision
5	PCD 7 (25095)	Solid Biofuels Determination of Ash Content First Revision
6	PCD 7 (25096)	Solid Biofuels Determination of Moisture Content Part 3 Moisture in General Analysis Sample First Revision
7	PCD 7 (25097)	Solid Biofuels Determination of Volatile Matter First Revision
8	PCD 7 (25098)	Solid Biofuels Determination of Moisture Content Part 1 Reference Method First Revision
9	PCD 7 (25211)	SOLID BIOFUELS - DETERMINATION OF MAJOR ELEMENTS - Al Ca Fe Mg P K Si Na AND Ti
10	PCD 7 (25212)	SOLID BIOFUELS DETERMINATION OF MINOR ELEMENTS
11	PCD 7 (25218)	Methods of test for Abrasive Properties of Coal and Associated Minerals Second Revision

12	PCD 7 (25223)	SOLID BIOFUELS SAMPLING
13	PCD 7 (25597)	Coal and Coke Methods of Test Part 4 Ultimate Analysis Section 2 Determination of Nitrogen Second Revision
14	PCD 7 (25615)	Coal and Coke - Methods for determination of the chemical composition of ash Second Revision

### Finalized Draft Indian Standard

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

### Finalized Draft Indian Standards under Print

Sl. No.	Doc No.	Title
1	PCD 7 (19505)	Solid Biofuels Vocabulary
2	PCD 7 (19732) Revision of: IS 436:1964	METHODS FOR SAMPLING OF COAL AND COKE PART 1 SAMPLING OF COAL SECTION 1 MANUAL SAMPLING Second Revision
3	PCD 7 (20027)	SOLID BIOFUELS - FUEL SPECIFICATIONS AND CLASSES - PELLETS FROM AGRO AND HERBACEOUS RESIDUES
4	PCD 7 (20028)	SOLID BIOFUELS - FUEL SPECIFICATION AND CLASSES - BRIQUETTES FROM AGRO AND HERBACEOUS RESIDUES
5	PCD 7 (20276)	Solid Biofuels - Sample Preparation

**Total Published Standards:89 Total Standards Under development:19**

### Aspect Wise Report

Product : 7  
 Code of Practices : 1  
 Methods of Test : 61  
 Terminology : 6  
 Dimensions : 1  
 System Standard : 0  
 Safety Standard : 0  
 Others : 15  
 Service Specification : 0  
 Process Specification : 0  
 Unclassified : 0

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

Sl. 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	Road Tar



	Reviewed In : 2016	
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 Reviewed In : 2005	Blast Furnace Coke
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

Sl. No.	IS No. & Year	Title
1	IS 12770 : 1989 Reviewed In : 2020	Coal for cement manufacture - Specification
2	212 : 2021 ISO 5518:2007	Crude coal tar for general use Third Revision
3	IS 216 : 2006 Reviewed In : 2021	Coal tar pitch - Specification Second Revision
4	IS 218 : 1983 Reviewed In : 2019	Specification for creosote oil for use as wood preservatives Second Revision
5	IS 4286 : 2024	Domestic Coke - Specification Second Revision
6	IS 439 : 2020	Industrial Coke - Specification Fourth Revision
7	IS 9912 : 1981 Reviewed In : 2020	Coal tar based coating material and primers for protecting iron or steel pipelines - Specification First Revision