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SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /	i
	of Test	Performed	against which tests are	Limits of Detection	
į	İ	İ	performed		i

CHEMICAL TESTING

I.	ORES & MINERALS			
1.	Iron Ores	Moisture	IS 1493 (Part 1): 1981 (RA 2016)	0.1 % to 15 %
 		Iron (as Fe)	IS 1493 (Part 1): 1981 (RA 2016)	30 % to 70 %
 		Silica (as SiO₂)	IS 1493 (Part 1): 1981 (RA 2016)	0.5 % to 30%
! !	}	Alumina (as Al₂O₃)	SOP-IO-01(D/I-2/05/2015)	0.3 % to 15 %
		Sulphur(as S)	IS 1493 (Part 1): 1981 (RA 2016)	0.01 % to 0.05 %
 		Phosphorus (as P)	IS 1493 (Part 1): 1981 (RA 2016)	0.01 % to 0.15 %
2.	Rock Phosphate	Phosphorus (as P₂O₅)	IS 9386:1979 (RA 2006)	10 % to 50 %
[Calcium (as CaO)	IS 9386:1979 (RA 2006)	10 % to 55 %
3.	Bauxite/Laterite	Loss on Ignition	IS 2000 (Part 1): 1985 (RA 2006)	5.0 % to 32 %
 		Silica (as SiO₂)	IS 2000 (Part 2): 1985 (RA 2006)	0.5 % to 30 %
 		Alumina (as Al₂O₃)	IS 2000 (Part 3): 1985 (RA 2006)	2.0 % to 60 %
 		Ferric Oxide (as Fe₂O₃)	IS 2000 (Part 4): 1985 (RA 2006)	0.5 % to 50.0 %
		Titanium(as TiO₂)	IS 2000 (Part 5): 1985 (RA 2006)	0.50 % to 20.0 %
4.	Lime Stone & Dolomite	Loss on Ignition	IS 1760 (Part 1): 1991 (RA 2006)	0.1 % to 50 %
		Silica (as SiO₂)	IS 1760 (Part 2): 1991 (RA 2006)	0.1 % to 70 %
 		Ferric oxide	SOP/LS-D/02	0.1 % to 10 %

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	[[(as Fe₂O₃)	(D/I-1/04/2015)	
		Alumina (as Al₂O₃)	SOP/LS-D/02 (D/I-1/04/2015)	0.10 % to 10.0 %
		Calcium Oxide (as CaO)	IS 1760 (Part 2): 1991 (RA 2006)	1 % to 56 %
		Magnesium Oxide (as MgO)	SOP/LS-D/02 (D/I-1/ 04/ 2015)	0.2 % to 40 %
5.	Quartz, Quartzite / Silica Sand /	Loss on Ignition	IS 1917 (Part 1): 1991 (RA 2006)	0.15 % to 5.0 %
	Beach Sand	Silica (as SiO₂)	IS 1917 (Part 3): 1992 (RA 2005)	80 % to 99.9 %
		Sodium Oxide (as Na₂O)	IS 1917 (Part 2): 1991 (RA 2006)	0.01 % to 1.0 %
		Potassium Oxide (as K₂O)	IS 1917 (Part 2): 1991 (RA 2006)	0.01 % to 1.0 %
6.	Gypsum	Sulphur(as SO₃)	IS 1288:1982 (RA 2010)	15.0 % to 45.0 %
	;;	Combined Water	IS 1288:1982 (RA 2010)	1.0 % to 22.0 %
	} [[Free Water	IS 1288:1982 (RA 2010)	0.1 % to 10.0 %
	} ! !	Silica (as SiO ₂)	IS 1288:1982 (RA 2010)	0.5 % to 10.0 %
	;;	Alumina (as Al₂O₃)	IS 1288:1982 (RA 2010)	0.5 % to 5.0 %
	}	Iron (as Fe₂O₃)	IS 1288:1982 (RA 2010)	0.1 % to 5.0 %
	} ! !	Calcium (as CaO)	IS 1288:1982 (RA 2010)	15.0 to 40.0 %
	[Magnesium (as MgO)	IS 1288:1982 (RA 2010)	0.1 % to 5.0 %
7.	Potash Feldspar /	Sodium (as Na₂O)	IS 9749:2007 (RA 2017)	0.50 % to 15.0 %
	Soda Feldspar	Potassium (as K₂O)	IS 9749:2007 (RA 2017)	0.50 % to 15.0 %
		Silica (as SiO ₂)	IS 9749:2007 (RA 2017)	40.0 % to 70 %
		Alumina (as Al ₂ O ₃)	IS 9749:2007 (RA 2017)	15.0 % to 25.0 %
		Iron (as Fe₂O₃)	IS 9749:2007 (RA 2017)	0.05% to 0.80 %
		Calcium (as CaO)	IS 9749:2007 (RA 2017)	0.2 % to 3.0 %
		Magnesium (as MgO)	IS 9749:2007 (RA 2017)	0.2 % to 3.0 %
	[Loss on Ignition	IS 9749:2007 (RA 2017)	0.1 % to 5 %
8.	Manganese Ores	Silica as SiO₂	IS 1473:2004 (RA 2016)	0.3 % to 20 %

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	; ! !	Manganese (total)	IS 1473:2004 (RA 2016)	2 % to 65 %
) 	Manganese Dioxide	IS 1473:2004 (RA 2016)	15.0 % to 70.0 %
	; [[Iron	IS 1473:2004 (RA 2016)	2 % to 40.0 %
	} [[Alumina	IS 1473:2004 (RA 2016)	0.3 % to 25 %
	! !	Sulphur	IS 1473:2004 (RA 2016)	0.002 % to 0.15 %
	; [[Phosphorous	IS 1473:2004 (RA 2016)	0.005 % to 1.0 %
	} [[Barium Oxide	IS 1473:2004 (RA 2016)	0.1 % to 5.0 %
9.	Barium Ore -	Insoluble minus silica	IS 2881:1984 (RA 2010)	50 % to 99.5 %
	Barytes	Silica as SiO ₂	IS 2881:1984 (RA 2010)	0.2 % to 25 %
	:	Alumina as Al₂O₃	IS 2881:1984 (RA 2010)	0.1 % to 3.0 %
	! !	Iron as Fe	IS 2881:1984 (RA 2010)	0.1 % to 3.0 %
		Calcium & Magnesium as CaCO₃	IS 2881:1984 (RA 2010)	0.08 % to 1.00 %
	} 	Fineness 75 microns	IS 2881:1984 (RA 2010)	0.1 % to 100 %
	i !	Fineness 53 microns	IS 2881:1984 (RA 2010)	0.1 % to 100 %
		Relative Density at 27 °C	IS 2881:1984 (RA 2010)	3.8 to 4.5
	}	Matter soluble in water	IS 2881:1984 (RA 2010)	0.01 % to 0.1 %
II.	BUILDING MATERIA	ÀLS	†	
1.	Cement (OPC, PPC & PSC)	Loss on Ignition	IS 4032:1985 (RA 2009) Clause 4.2, Amd.1	0.02to5.0 %
		Silica	IS 4032:1985 (RA 2009) Clause 4.2, Amd.1	1.0 % to 30.0 %
		Combined ferric oxide & alumina	IS 4032:1985 (RA 2009) Clause 4.2, Amd.1	0.5 % to 10 %
		Ferric oxide	IS 4032:1985 (RA 2009) Clause 4.5, Amd.1	0.5 % to 8 %
	7	Alumina	IS 4032:1985 (RA 2009) Clause 4.6, Amd.1	3 % to 15 %
	.; 	Calcium Oxide	IS 4032:1985 (RA 2009) Clause 4.7.2, Amd.1	40 % to 70 %

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		Magnesium Oxide	IS 4032:1985 (RA 2009) Clause 4.8.2, Amd.1	0.1 % to 8.0 %
i ! ! ! !		Sulphuric anhydride	IS 4032:1985 (RA 2009) Clause 4.9, Amd.1	0.1 % to 5.0 %
i		Insoluble residue	IS 4032:1985 (RA 2009) Clause 4.10, Amd.1	2.0 % to 50 %
i ! ! ! !		Sodium oxide and potassium oxide	IS 4032:1985 (RA 2009) Clause 4.10, Amd.1	0.1 % to 5 %
i ! ! ! !		Sulphide as Sulphur	IS 4032:1985 (RA 2009) Clause 6.12, Amd.1	0.1 % to 5 %
i ! ! ! !		Chloride	IS 4032:1985 Clause 4.13, Amd.2(2010)	0.01 % to 0.1 %
2.	Fly Ash/	Loss on Ignition	IS 1727:1967 (RA 2008)	0.1 % to 15 %
i L	Pulverized Fuel	Silica as SiO ₂	IS 1727:1967 (RA 2008)	20 % to 70 %
[Ash	Iron as Fe₂O₃	IS 1727:1967 (RA 2008)	0.5 % to 30 %
i ! L		Alumina as Al₂O₃	IS 1727:1967 (RA 2008)	0.5 % to 50 %
<u> </u>		Calcium as CaO	IS 1727:1967 (RA 2008)	1.0 % to 10 %
[Magnesium as MgO	IS 1727:1967 (RA 2008)	0.4 % to 10 %
[Sodium as Na₂O	IS 1727:1967 (RA 2008)	0.2 % to 5 %
i ! ! !		Potassium as K	IS 1727:1967 (RA 2008)	0.2 % to 5 %
III.	SOLID FUELS	 		
1.	Coal/Coke/ Others	Moisture (As Received Basis/ Air Dried Basis)	IS 1350 (Part 1): 1984 (RA 2013)	0.1 % to 30 %
		Gross Calorific value	IS 1350 (Part 2): 1975 (RA 2015)	300 kCal/kg to 8000 kCal/kg
		Ash	IS 1350 (Part 1): 1984 (RA 2013)	1 % to 70 %
 		Volatile Matter	IS 1350 (Part 1): 1984 (RA 2013)	1 % to 70 %
		Fixed Carbon	IS 1350 (Part 1): 1984 (RA 2013)	NA

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	7	Sulphur as S	IS 1350 (Part 3): 1969 (RA 2010)	0.05 % to 6 %
2.	Ash Analysis of	SiO ₂	IS 1355:1984 (RA 2007)	15.0 % to 70.0 %
	Coal/ Coke	Fe ₂ O ₃	IS 1355:1984 (RA 2007)	3.0 % to 30.0 %
	i !	Al ₂ O ₃	IS 1355:1984 (RA 2007)	5.0 % to 40.0 %
	í !	CaO	IS 1355:1984 (RA 2007)	0.05 % to 10 %
		MgO	IS 1355:1984 (RA 2007)	0.05 % to 10 %
	;	Na₂O	IS 1355:1984 (RA 2007)	0.01 % to 10.0 %
	}	K₂O	IS 1355:1984 (RA 2007)	0.01 % to 10.0 %
	}	TiO ₂	IS 1355:1984 (RA 2007)	0.05 % to 20 %
	;;	Mn ₃ O ₄	IS 1355:1984 (RA 2007)	0.05 % to 20 %
	} [[P ₂ O ₅	IS 1355:1984 (RA 2007)	0.01 % to 2.5 %
] 	SO₃	IS 1355:1984 (RA 2007)	0.01 % to 10.0 %
IV.	POLLUTION & ENV	IRONMENT		
1.	Waste Water - Effluents	рН	APHA 23 rd edition 2017, 4500-H ⁺ B	1 to 12
		Oil and Grease	APHA 23 rd edition 2017, 5520-B	1 mg/L to 200 mg/L
		Total Dissolved Solids	APHA 23 rd edition 2017, 2540-C	1 mg/L to 5000 mg/L
		Total Suspended Solids	APHA 23 rd edition 2017, 2540-D	1 mg/L to 1000 mg/L
		Total Solids	APHA 23 rd edition 2017, 2540-B	1 mg/L to 5000 mg/L
	í - - -	Iron as Fe	APHA 23 rd edition 2017, 3120 B	0.01 mg/L to 500 mg/L
	í	Conductivity	APHA 23 rd edition 2017, 2510-B	1 μS/cm to 10000 μS/cm
		Chloride as Cl	APHA 23 rd edition 2017,4500-CI-B	1 mg/L to 2000 mg/L
	[Fluoride as F	APHA 23 nd 2017, 4500-F-	0.1 mg/L to 100 mg/L

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	[B&D	
·		Total Phosphate as PO ₄	APHA 23 rd edition 2017, 4500-P- D	0.03 mg/L to 100 mg/L
		Sulphates as SO₄	APHA 23 rd edition 2017, 4500-SO4- E	1 mg/L to 1000 mg/L
		Sulphide as S	APHA 23 rd edition2017, 4500-S2- F	1 mg/L to 100 mg/L
		Phenolic compounds as C ₆ H₅OH	APHA 23 rd edition 2017, 5530-D	0.1 mg/L to 100 mg/L
		Aluminum as Al	APHA 23 rd edition 2017, 3120 B	0.05 mg/L to 100 mg/L
(Antimony as Sb	APHA 23 rd edition 2017, 3120 B	0.03 mg/L to 100 mg/L
		Boron as B	APHA 23 rd edition 2017, 3120 B	0.1 mg/L to 100 mg/L
		Cadmium as Cd	APHA 23 rd edition 2017, 3120 B	0.01 mg/L to 100 mg/L
		Copper as Cu	APHA 23 rd edition 2017, 3120 B	0.01 mg/L to 100 mg/L
		Nickel as Ni	APHA 23 rd edition 2017, 3120 B	0.01 mg/L to 100 mg/L
		Total Chromium as Cr	APHA 23 rd edition 2017, 3120 B	0.01 mg/L to 100 mg/L
		Hexavalent Chromium, Cr ⁺⁶	APHA23rd edition 2017, 3500-Cr-B	0.02 mg/L to 100 mg/L
		Strontium as Sr	APHA 23 rd edition 2017, 3120 B	0.01 mg/L to 100 mg/L
		Vanadium as V	APHA 23 rd edition 2017, 3120 B	0.03 mg/L to 100 mg/L
·		Zinc as Zn	APHA 23 rd edition 2017, 3120 B	0.01 mg/L to 100 mg/L
	<u></u>	Arsenic as As	SOP-ENV-WW-01, Issue	0.01 mg/L to 1 mg/L

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 		 	No.1, dt 17.11.2017 by ICP- OES & VGA	
I I I I		Lead as Pb	APHA 23 rd edition 2017, 3120 B	0.01 mg/L to 100 mg/L
		Mercury as Hg	SOP-ENV-WW-01, Issue No.1, dt 17.11.2017 by ICP- OES & VGA	0.001 mg/L to 1 mg/L
		Selenium as Se	SOP-ENV-WW-01, Issue No.1, dt 17.11.2017 by ICP- OES & VGA	0.01 mg/L to 1 mg/L
		Sodium as Na	APHA 23 rd edition 2017, 3500-Na-B	1 mg/L to 1000 mg/L
		Potassium as K	APHA 23 rd edition 2017, 3500-K –B	1 mg/L to 100 mg/L
		Calcium as Ca	APHA 23 rd edition 2017, 3500-Ca-B	1 mg/L to 1000 mg/L
		Magnesium as Mg	APHA 23 rd edition 2017, 3500-Mg-B	1 mg/L to 1000 mg/L
		Total Alkalinity as CaCO₃	APHA 23 rd edition 2017,2320-B	1 mg/L to 1000 mg/L
		Total Hardness as CaCO₃	APHA 23 rd edition 2017, 2340-C	1 to 1000 mg/L
		Biochemical Oxygen Demand 3 days at 27 °C	IS 3025 (Part 44): 1993 (RA 2014)	2 mg/L to 50,000 mg/L
i ! ! !		Chemical Oxygen Demand	APHA 23rd edition 2017, 5220 B	4 mg/L to 1,00,000 mg/L
		Dissolved Oxygen	APHA 23rd edition 2017, 4500-O-C	1 mg/l to 10 mg/l
2.	Wastes - Solid / Hazardous waste	Loss on drying at 105 °C	IS 9235:1979 (RA 2009)	0.1 to 20 %
		Loss on ignition at 550 °C	IS 10158:1982 (RA 2009)	0.1 % to 50 %

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		Total Cyanide as CN ⁻	USEPA 9013A (2014) for extraction; USEPA -9014 (2014) spectrophotometric method	0.1 mg/kg to 10 mg/kg
		Total Sulfide as S	USEPA 9030B (1996)	1 mg/kg to 50 mg/kg
		Hexavalent Chromium as Cr ⁺⁶	EPA 3060A (1996) alkaline digestion; EPA 7196A (1992) Colorimetric method	0.1 mg/kg to 1000 mg/kg
		Selenium as Se	USEPA 3050 B (1996) Acid Digestion, USEPA 6010B (1996) ICP OES	1 mg/kg to 1000 mg/kg
		Zinc as Zn	USEPA 3050 B (1996) Acid Digestion, USEPA 6010B (1996) ICP OES	1 mg/kg to 1000 mg/kg
3.	Soil	pH	SOP no. SNM:01 issue	2 Units to 11 Units
	į	Electrical Conductivity	no.1 issue date 01.02.2015	10 μs/cm to 10,000 μs/cm
		Exchangeable Sodium	(based on Soil Testing in India, Method manual by	2 meq/100 g to 500 meq/100 g
	-}	Available Potassium	Dept. of Agriculture &	10 kg/ha to1000 kg/ha
		Exchangeable Calcium	Corporation, GOI, 2011)	2 meq/100 g to 500 meq/100 g
		Exchangeable Magnesium		2 meq/100 g to 500 meq/100 g
	 	Available Phosphorous	 	5 kg/ha to 2000 kg/ha
	 	Ammonical Nitrogen as NH ₄ -N		1 mg/kg to 100 mg/kg
	-}	Total Nitrogen		0.05 % to 10 %
	-} ! !	Mineralizable Nitrogen		0.5 % to 10 %
		Inorganic Nitrogen as NO₃-N		0.1 mg/kg to 10 mg/kg
		Organic Carbon		0.1 % to 10 %

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[;	Organic Matter		0.1 % to 10 %
[Available Zinc	SOP no. SNM:01 issue	0.01 mg/kg to 10 mg/kg
		Available Copper	no.1 issue date 01.02.2015	0.01 mg/kg to 10 mg/kg
		Available Iron	(based on Soil Testing in	0.01 mg/kg to 10 mg/kg
<u> </u>	į	Available Manganese	India, Method manual by	0.01 mg/kg to 10 mg/kg
		Available Molybdenum	Dept. of Agriculture &	0.2 mg/kg to 10 mg/kg
[Available Boron	Corporation, GOI, 2011)	0.2 mg/kg to 20 mg/kg
		Total Lead	USEPA 3050B (1996) - Acid	5 mg/kg to 100 mg/kg
		Total Zinc	Digestion	1 mg/kg to 1000 mg/kg
		Total Iron	USEPA6010 B (1996) -	0.01 % to 10 %
		Total Manganese	ICP OES	1 mg/kg to 1000 mg/kg
<u>[</u>	[[Total Cadmium		1 mg/kg to 100 mg/kg
		Total Molybdenum		1 mg/kg to 100 mg/kg
<u> </u>	į	Total Boron		1 mg/kg to 100 mg/kg
		Total soluble sulphates	IS 2720 (Part 27): 1977 (RE 2006)	10 mg/kg to 1000 mg/kg
		Total soluble chlorides	SOP-ENV-WWM-02, Issue No.2, dt.17.11.2017 by Spectrophotometry	5 mg/kg to 500 mg/kg
V.	ATMOSHPERIC PO	LLUTION		
1.	Ambient Air	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001 (RA 2017) West and Gaeke method	4 μg/m³ to 1050 μg/m³
		Nitrogen dioxide (NO ₂)	IS 5182 (Part 6): 2006 (RA 2017) Jacob & Hochheiser Sodium Arsenite method	9 μg/m³ to 750 μg/m³
		Ammonia (NH3)	Method 401, Air sampling and analysis, APHA, 3 rd edition	5 to 5000 μg /m3
[[Ozone (O3)	IS 5182 (Part 9): 1974	20 to 500 μg/m3

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		 	(RA 2014) UV Spectrophotometric method	
		Chlorine	IS 5182 (Part 19): 1982 (RA 2014)	10 to 2000 μg /m³
		Hydrogen Sulphide	IS 5182 (Part 7): 1973 (RA 2014) Ferric Chloride- amine method	3 to 200µg/m³
2.	Stack emissions	Particulate matter	IS 11255 (Part 1): 1985 (RA 2014)	5 to 1000 mg/Nm ³
		Sulphur dioxide	IS 11255 (Part 2): 1985 (RA 2014)/ USEPA 6C (Flue Gas Analyser)	5 mg/Nm³ to 1000 mg/Nm³
		Flow rate	IS 11255 (Part 3): 2008	10 Nm³/hr to 50000 Nm³/hr
		Temperature	IS 11255 (Part 3): 2008	Ambient to 600 °C
		Flue gas velocity	IS 11255 (Part 3): 2008	3 m/sec to 60 m/sec
		Hydrogen sulphide	IS 11255 (Part 4): 2006 (RA 2017) USEPA Method-11	8 mg/Nm³ to 740 mg/Nm³
		Carbon disulphide	IS 11255 (Part 4): 2006 (RA 2017)/ USEPA Method- 11	8 mg/Nm³ to 740 mg/Nm³
	i 	Total fluorides	IS 11255 (Part 5): 1990 (RA 2014)	0.5 mg/Nm³ to 300 mg/Nm³
		Ammonia	IS 1255 (Part 6): 1990 (RA 2014)	0.1 mg/Nm³ to 500 mg/Nm³
		Oxides of Nitrogen	IS 11255 (Part 7): 2005 (RA 2017)/ USEPA 7E (Flue Gas Analyzer)	5 mg/Nm³ to 1000 mg/Nm³

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