

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Mitra S. K. Private Limited

Holding No. E-5-138/157, Ward No. 23, Gangarampur Road, Phase-2,
R.H.S to Behala, Banerjee para, P.O- Raipur, P.S- Maheshlata, 24 Paraganas South,
Kolkata- 700141, West Bengal, India

has been assessed and accredited in accordance with the Standard

ISO/IEC 17025:2017

“General Requirements for the Competence of Testing and Calibration Laboratories”
In the field of

Testing

This certificate remains valid for the Scope of Accreditation as specified
in the annexure subject to continued compliance to the above standard &
any other requirements specified by QAI.



QAI/CIA/TL/2023/0015

(Date of First Accreditation: 13 July 2023 - 12 July 2025)

Valid from: 13 July 2025

Valid until: 12 July 2027

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building Material		
1.	Cement	Aluminum Oxide (Al_2O_3)	IS 4032:1985, RA 2019
2.		Aluminum Oxide (Al_2O_3)	ASTM C114-24
3.		Calcium Oxide (CaO)	IS 4032:1985, RA 2019
4.		Calcium Oxide (CaO)	ASTM C114-24
5.		Chloride (Cl)	IS 4032:1985, Amendment-2:2010
6.		Free Calcium Oxide (CaO)	IS 4032 :1985, RA 2019
7.		Free Calcium Oxide (CaO)	ASTM C114-24
8.		Insoluble Residue	IS 4032 :1985, RA 2019
9.		Insoluble Residue	ASTM C114-24
10.		Iron Oxide (Fe_2O_3)	IS 4032:1985, RA 2019
11.		Iron Oxide (Fe_2O_3)	ASTM C114-24
12.		Loss on Ignition (LOI)	IS 4032:1985, RA 2019
13.		Loss on Ignition (LOI)	ASTM C114-24
14.		Magnesium Oxide (MgO)	IS 4032:1985, RA 2019
15.		Magnesium Oxide (MgO)	ASTM C114-24
16.		Potassium Oxide (K_2O)	ASTM C114-24
17.		Silica (SiO_2)	IS 4032:1985, RA 2019

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	Building Material		
18.	Cement	Silica (SiO ₂)	ASTM C114-24
19.		Sodium Oxide (Na ₂ O)	ASTM C114-24
20.		Sulphur Trioxide (SO ₃)	IS 4032:1985, RA 2019
21.		Sulphur Trioxide (SO ₃)	ASTM C114-24
22.	Clinker	Iron Oxide (Fe ₂ O ₃)	IS 4032:1985, RA 2019
23.		Aluminum Oxide (Al ₂ O ₃)	IS 4032:1985, RA 2019
24.		Aluminum Oxide (Al ₂ O ₃)	ASTM C114-24
25.		Calcium Oxide (CaO)	IS 4032:1985, RA 2019
26.		Calcium Oxide (CaO)	ASTM C114-24
27.		Chloride (Cl)	IS 4032:1985(Amendment- 2) :2010
28.		Free calcium oxide (CaO)	IS 4032 :1985, RA 2019
29.		Free calcium oxide (CaO)	ASTM C114-24
30.		Insoluble Residue	IS 4032 :1985, RA 2019
31.		Insoluble Residue	ASTM C114-24
32.		Iron Oxide (Fe ₂ O ₃)	ASTM C114-24
33.		Loss on Ignition (LOI)	IS 4032:1985. RA 2019
34.		Loss on Ignition (LOI)	ASTM C114-24

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	Building Material		
35.	Clinker	Magnesium Oxide (MgO)	IS 4032:1985, RA 2019
36.		Magnesium Oxide (MgO)	ASTM C114-24
37.		Potassium Oxide(K ₂ O)	ASTM C114-24
38.		Silica (SiO ₂)	IS 4032:1985, RA 2019
39.		Silica (SiO ₂)	ASTM C114-24
40.		Sodium Oxide (Na ₂ O)	ASTM C114-24
41.		Sulphur Trioxide (SO ₃)	IS 4032:1985, RA 2019
42.		Sulphur Trioxide (SO ₃)	ASTM C114-24
43.	Fly Ash	Aluminum Oxide (Al ₂ O ₃)	IS 1727 :1967, RA 2018
44.		Calcium oxide (CaO)	IS 1727 :1967, RA 2018
45.		Iron Oxide (Fe ₂ O ₃)	IS 1727 :1967, RA 2018
46.		Loss on Ignition	IS 1727 :1967, RA 2018
47.		Magnesium Oxide (MgO)	IS 1727 :1967, RA 2018
48.		Potassium oxide (K ₂ O)	ASTM C114-24
49.		Silicon dioxide (SiO ₂)	IS 1727 :1967, RA 2018
50.		Sodium Oxide (Na ₂ O)	ASTM C114-24
51.		Sulphur trioxide (SO ₃)	IS 1727 :1967, RA 2018

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	Building Material		
52.	Blast Furnace Slag/ Ground Granulated Blast Furnace Slag	Alumina (Al_2O_3)	TPM/MSK/60/E(Issue No-01, dated 01.04.2020)
53.		Calcium Oxide (CaO)	TPM/MSK/60/B(Issue No-01, dated 01.04.2020)
54.		Ferrous Oxide (FeO)	TPM/MSK/60/D(Issue No-01, dated 01.04.2020)
55.		Insoluble Residue	TPM/MSK/60/F(Issue No-01, dated 01.04.2020)
56.		Magnesium Oxide (MgO)	TPM/MSK/60/C(Issue No-01, dated 01.04.2020)
57.		Potassium Oxide(K_2O)	TPM/MSK/60/ H(Issue No-02, dated 01.10.2022)
58.		Silica (SiO_2)	TPM/MSK/60/A(Issue No-01, dated 01.04.2020)
59.		Sodium Oxide (Na_2O)	TPM/MSK/60/H (Issue No-02, dated 01.10.2022)
60.		Sulphur Trioxide (SO_3)	TPM/MSK/60/G (Issue No-01, dated 01.04.2020)



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	Fertilizers		
1.	Ammonium Chloride	Ammoniacal Nitrogen	The Fertilizer (Control) Order 1985 (as amended upto October 2024), Schedule II, Part B, Method-3(vii)
2.	Ammonium Chloride	Moisture	The Fertilizer (Control) Order 1985 (as amended upto October 2024), Schedule II, Part B, Method-2(ii)
3.	Urea /Neem Coated Urea	Particle Size (- 2.8mm+1mm)	The Fertilizer (Control) Order 1985 (as amended upto October 2024), Schedule II, Part B, Method-20
4.	Urea/ Neem Coated Urea	Biuret	The Fertilizer (Control) Order 1985 (as amended upto October 2024), Schedule II, Part B, Method-3(xii)
5.	Urea/ Neem Coated Urea	Moisture	The Fertilizer (Control) Order 1985 (as amended upto October 2024), Schedule II, Part B, Method-2(i),c
6.	Urea/ Neem Coated Urea	Total Nitrogen	The Fertilizer (Control) Order 1985 (as amended upto October 2024), Schedule II, Part B, Method-3(iv)
7.	Urea/Neem Coated Urea	Neem Oil Content (Soluble in Benzene)	The Fertilizer (Control) Order 1985 (as amended upto October 2024), Schedule II, Part B, Method- 3(xvii)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fertilizers		
8.	Ammonium Phosphate	Ammoniacal Nitrogen	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-3(vii)
9.	Ammonium Phosphate	Citrate Soluble Phosphorus (Available phosphorus) (as P ₂ O ₅)	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-4 (ii,iv,v)
10.	Ammonium Phosphate	Moisture	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-2(ii)
11.	Ammonium Phosphate	Particle Size (- 4mm+1mm)	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-20
12.	Ammonium Phosphate	Total Nitrogen	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-3(iv)
13.	Ammonium Phosphate	Water Soluble phosphorus (as P ₂ O ₅)	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-4(iii)
14.	Ammonium Phosphate Sulphate	Ammoniacal Nitrogen	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-3(vii)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fertilizers		
15.	Ammonium Phosphate Sulphate	Citrate Soluble Phosphorus (Available phosphorus) (as P_2O_5)	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-4 (ii, iv, v)
16.	Ammonium Phosphate Sulphate	Moisture	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-2(ii)
17.	Ammonium Phosphate Sulphate	Particle Size (- 4mm+1mm)	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-20
18.	Ammonium Phosphate Sulphate	Sulphate Sulphur (as S)	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-24(A)
19.	Ammonium Phosphate Sulphate	Total Nitrogen	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-3(iv)
20.	Ammonium Phosphate Sulphate	Water Soluble phosphorus (as P_2O_5)	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-4(iii)
21.	Diammonium Phosphate	Ammoniacal Nitrogen	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-3(vii)



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fertilizers		
22.	Diammonium Phosphate	Citrate Soluble Phosphorus (Available phosphorus) (as P_2O_5)	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-4 (ii,iv,v)
23.	Diammonium Phosphate	Moisture	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-2(ii)
24.	Diammonium Phosphate	Particle Size (- 4mm+1mm)	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-20
25.	Diammonium Phosphate	Total Nitrogen	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-3(iv)
26.	Diammonium Phosphate	Water Soluble phosphorus (as P_2O_5)	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-4(iii)
27.	N.P. K	Ammoniacal Nitrogen	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-3(vii)
28.	N.P. K	Citrate Soluble Phosphorus (Available phosphorus) (as P_2O_5)	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-4(ii,iv,v)



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fertilizers		
29.	N.P.K	Moisture	The Fertilizer (Control) Order 1985 (as amended upto October 2024), Schedule II, Part B, Method-2(ii)
30.	N.P.K	Particle Size (- 4mm+1mm)	The Fertilizer (Control) Order 1985 (as amended upto October 2024), Schedule II, Part B, Method-20
31.	N.P.K	Total Nitrogen	The Fertilizer (Control) Order 1985 (as amended upto October 2024), Schedule II, Part B, Method-3(iv)
32.	N.P.K	Water Soluble phosphorus (as P_2O_5)	The Fertilizer (Control) Order 1985 (as amended upto October 2024), Schedule II, Part B, Method-4(iii)
33.	N.P.K	Water Soluble Potassium (as K_2O)	ISO 17319: 2015, RC 2020
34.	N.P.K	Water Soluble Potassium (as K_2O)	The Fertilizer (Control) Order 1985 (as amended upto October 2024), Schedule II, Part B, Method-5(ii)
35.	Single super Phosphate	Citrate Soluble Phosphorus (Available phosphorus) (as P_2O_5)	The Fertilizer (Control) Order 1985 (as amended upto October 2024), Schedule II, Part B, Method-4 (ii,iv,v)



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	Fertilizers		
36.	Single super Phosphate	Free phosphoric Acid	The Fertilizer (Control) Order 1985 (as amended upto October 2024), Schedule II, Part B, Method-4(vii)
37.	Single super Phosphate	Moisture	The Fertilizer (Control) Order 1985 (as amended upto October 2024), Schedule II, Part B, Method-2(i),b
38.	Single super Phosphate	Sulphate Sulphur (as S)	The Fertilizer (Control) Order 1985 (as amended upto October 2024), Schedule II, Part B, Method-24(A)
39.	Single super Phosphate	Water Soluble phosphorus (as P_2O_5)	The Fertilizer (Control) Order 1985 (as amended upto October 2024), Schedule II, Part B, Method-4(iii)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
1.	Cobalt	Beryllium (Be)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
2.		Aluminum (Al)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
3.		Antimony (Sb)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
4.		Arsenic (As)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
5.		Barium (Ba)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
6.		Bismuth (Bi)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
7.		Cadmium (Cd)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
8.		Chromium (Cr)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
9.		Copper (Cu)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
10.		Gallium (Ga)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
11.		Germanium (Ge)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
12.	Cobalt	Gold (Au)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
13.		Iron (Fe)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
14.		Lead (Pb)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
15.		Manganese (Mn)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
16.		Molybdenum (Mo)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
17.		Nickel (Ni)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
18.		Platinum (Pt)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
19.		Selenium (Se)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
20.		Silver (Ag)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
21.		Tin (Sn)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
22.		Titanium (Ti)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)

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	Metals & Alloys		
23.	Cobalt	Vanadium (V)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
24.		Zinc (Zn)	TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)
25.	Copper/ Blister Copper/High Purity Copper/ Copper Cathode	Silicon (Si)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)
26.		Manganese (Mn)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)
27.		Bismuth (Bi)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)
28.		Iron (Fe)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)
29.		Nickel (Ni)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)
30.		Antimony (Sb)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)
31.		Arsenic (As)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)
32.		Cadmium (Cd)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)

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Scope of Accreditation

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QAI/CIA/TL/2023/0015

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Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
33.	Copper/ Blister Copper/High Purity Copper/ Copper Cathode	Chromium (Cr)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)
34.		Cobalt (Co)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)
35.		Lead (Pb)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)
36.		Manganese (Mn)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)
37.		Nickel (Ni)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)
38.		Phosphorus (P)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)
39.		Selenium (Se)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)
40.		Silver (Ag)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)
41.		Sulphur (S)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)
42.		Tellurium (Te)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)
43.		Tin (Sn)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
44.	Copper/ Blister Copper/High Purity Copper/ Copper Cathode	Zinc (Zn)	TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)
45.	Ferro chromium	Chromium (Cr)	ASTM E363-23
46.		Cobalt (Co)	TPM/MSK/8/E2 (ICP-OES) (Issue No.04 dated 01.12.2022)
47.		Manganese (Mn)	TPM/MSK/8/E2 (ICP-OES) (Issue No.04 dated 01.12.2022)
48.		Nickel (Ni)	TPM/MSK/8/E2 (ICP-OES) (Issue No.04 dated 01.12.2022)
49.		Phosphorus (P)	IS 13452 :2019, RA 2024 Sec-13
50.		Titanium (Ti)	TPM/MSK/8/E2 (ICP-OES) (Issue No.04 dated 01.12.2022)
51.		Vanadium (V)	TPM/MSK/8/E2 (ICP-OES) (Issue No.04 dated 01.12.2022)
52.	Ferro Chromium (HCFC)	Carbon (C)	ASTM E1019-24
53.		Chromium (Cr)	IS 13452 :2019, RA 2024 Sec-12
54.		Chromium (Cr)	ISO 4140 :1979, RC 2022
55.		Phosphorus (P)	TPM/MSK/8/C (Issue No.03 dated 01.04.2020)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
56.	Ferro Chromium (HCFC)	Phosphorus (P)	TPM/MSK/8/C/1(ICP-OES) (Issue No.02 dated 01.12.2022):
57.		Silicon (Si)	IS 13452 :2019, RA 2024, Sec-5
58.		Sulphur (S)	ASTM E1019-24
59.	Ferro Chromium (HCFC/ Charge Chrome)	Chromium (Cr)	IS 13452 :2019, RA 2024 Sec-9
60.	Ferro Chromium (LCFC)	Carbon (C)	ASTM E 1019-24
61.		Chromium (Cr)	IS 13452 :2019, RA 2024 Sec- 10
62.		Chromium (Cr)	IS 13452 :2019, RA 2024 Sec-12
63.		Chromium (Cr)	ISO 4140 :1979, RC 2022
64.		Chromium (Cr)	ASTM E 363-23
65.		Phosphorus (P)	IS 13452 :2019, RA 2024 Sec-13
66.		Phosphorus (P)	TPM/MSK/8/C (Issue No.03 dated 01.04.2020)
67.		Phosphorus (P)	TPM/MSK/8/C/1 (ICP-OES) (Issue No.02 dated 01.12.2022.)
68.		Silicon (Si)	IS 13452 :2019, RA 2024 Sec-6
69.		Sulphur (S)	ASTM E 1019-24

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
70.	Ferro Manganese	Carbon (C)	ASTM E 1019-24
71.	Ferro Manganese	Chromium (Cr)	TPM/MSK/9/C1 (ICP-OES) (Issue No.04 dated 01.12.2022): 2022
72.	Ferro Manganese	Manganese (Mn)	ISO 4159:1978, RC 2020
73.	Ferro Manganese	Nickel (Ni)	TPM/MSK/9/C1 (ICP-OES) (Issue No.04 dated 01.12.2022)
74.		Phosphorus (P)	IS 1559 :1961, RA 2023
75.		Phosphorus (P)	IS 13938 (Part- 3):1993, RA 2023
76.		Phosphorus (P)	TPM/MSK/9/C1 (ICP-OES) (Issue No.04 dated 01.12.2022)
77.		Silicon (Si)	IS 1559 :1961, RA 2023
78.		Silicon (Si)	IS 13938(Part- 1):1994, RA 2023
79.		Sulphur (S)	ASTM E 1019-24
80.	Ferro Molybdenum	Carbon (C)	ASTM E 1019-24
81.		Molybdenum (Mo)	IS 12614 (Part-1) :1988, RA 2023
82.		Molybdenum (Mo)	TPM/MSK/14/A1 (Issue. 03 Dated. 01.04.2022)
83.		Phosphorus (P)	IS 12614 (Part-5) :1988, RA 2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
84.	Ferro Molybdenum	Silicon (Si)	IS 12614 (Part-3) :1988 , RA 2023
85.		Sulphur (S)	ASTM E1019-24
86.	Ferro Nickel	Carbon (C)	ISO 7524: 2020
87.		Chromium (Cr)	ISO 23156 :2021
88.		Cobalt (Co)	ISO 23156 :2021
89.		Copper (Cu)	ISO 23156 :2021
90.		Manganese (Mn)	ISO 23156 :2021
91.		Nickel (Ni)	ISO 6352: 1985, RC 2024
92.		Phosphorus (P)	ISO 23156 :2021
93.		Silicon (Si)	ISO 8343 :1985, RC 2022
94.	Ferro Silicon	Aluminum (Al)	IS 1559 (Part 5) :2003, RA 2024
95.		Aluminum (Al)	TPM/MSK/10/B2 (ICP-OES) (Issue No.04 dated 01.12.2022)
96.		Calcium (Ca)	TPM/MSK/10/B2 (ICP-OES) (Issue No.04 dated 01.12.2022)
97.		Carbon (C)	ASTM E1019-24
98.		Phosphorus (P)	IS 1559 (Part 4) :1982, RA 2018

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
99.	Ferro Silicon	Phosphorus (P)	TPM/MSK/10/B2 (ICP-OES) (Issue No.04 dated 01.12.2022)
100.		Silicon (Si)	IS 1559 (Part 1) :1988, RA 2024
101.		Silicon (Si)	ISO 4158 :1978, RC 2020
102.		Sulphur (S)	ASTM E1019-24
103.	Ferro Titanium	Carbon (C)	ASTM E1019-24
104.		Silicon (Si)	IS 13840 :2019 RA 2023
105.		Sulphur	ASTM E1019-24
106.		Titanium (Ti)	ISO 7692: 2025
107.		Titanium (Ti)	TPM/MSK/12/A1(Issue No.03 dated 01.04.2022)
108.	Ferro Vanadium	Carbon (C)	ASTM E 1019-24
109.		Phosphorus (P)	IS 1559 :1961, RA 2023
110.		Silicon (Si)	IS 1559 : 1961, RA 2023
111.		Sulphur (S)	ASTM E 1019-24
112.		Vanadium (V)	ISO 6467 : 2018, RC 2024
113.	High Grade Primary Aluminum	Magnesium (Mg)	TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
114.	High Grade Primary Aluminum	Chromium (Cr)	TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)
115.		Copper (Cu)	TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)
116.		Gallium (Ga)	TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)
117.		Iron (Fe)	TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)
118.		Manganese (Mn)	TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)
119.		Titanium (Ti)	TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)
120.		Vanadium (V)	TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)
121.		Zinc (Zn)	TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)
122.		Silicon (Si)	TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)
123.	Pig iron / Cast iron	Phosphorus (P)	ASTM E351-18(Sec- 160-167)
124.		Carbon (C)	ASTM E 1019-24
125.		Carbon (C)	ISO 15350:2000, RC 2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
126.	Pig iron / Cast iron	Chromium (Cr)	TPM/MSK/16/B2 (ICP-OES) (Issue No.04 dated 01.12.2022)
127.		Phosphorus (P)	IS 12308 (Part 5):1991, RA 2018
128.		Phosphorus (P)	TPM/MSK/16/B2 (ICP-OES) (Issue No.04 dated 01.12.2022)
129.		Sulphur (S)	ASTM E1019-24
130.		Sulphur (S)	ISO 15350:2000, RC 2023
131.		Chromium (Cr)	IS 12308 (Part 8):1997, RA 2018
132.		Chromium (Cr)	ASTM E351-18(Sec- 218-226)
133.		Manganese (Mn)	ASTM E351-18(Sec- 152-159)
134.		Manganese (Mn)	IS 12308(Part 10):1991, RA 2018
135.		Manganese (Mn)	TPM/MSK/16/B2 (ICP-OES) (Issue No.04 dated 01.12.2022)
136.		Nickel (Ni)	ASTM E351-18 (Sec 168-175)
137.		Nickel (Ni)	IS 12308 (Part 7):1991, RA 2018
138.		Nickel (Ni)	TPM/MSK/16/B2 (ICP-OES) (Issue No.04 dated 01.12.2022)
139.		Silicon (Si)	ASTM E 351-18(Sec- 46-52)
140.		Silicon (Si)	IS 12308 (Part 6):1991, RA 2018

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
141.	Primary Nickel	Cobalt (Co)	TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022)
142.		Antimony (Sb)	TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022)
143.		Arsenic (As)	TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022)
144.		Bismuth (Bi)	TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022)
145.		Copper (Cu)	TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022)
146.		Iron (Fe)	TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022)
147.		Lead (Pb)	TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022)
148.		Manganese (Mn)	TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022)
149.		Phosphorus (P)	TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022)
150.		Silicon (Si)	TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022)
151.		Sulphur (S)	TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
152.	Primary Nickel	Tin (Sn)	TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022)
153.		Zinc (Zn)	TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022)
154.	Pure Lead/ Lead Ingot/ Refined Lead/Lead Alloys	Aluminium (Al)	TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)
155.		Antimony (Sb)	TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)
156.		Arsenic (As)	TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)
157.		Bismuth (Bi)	TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)
158.		Cadmium (Cd)	TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)
159.		Calcium (Ca)	TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)
160.		Chromium (Cr)	TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)
161.		Copper (Cu)	TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)
162.		Iron (Fe)	TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
163.	Pure Lead/ Lead Ingot/ Refined Lead/Lead Alloys	Manganese (Mn)	TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)
164.		Nickel (Ni)	TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)
165.		Selenium (Se)	TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)
166.		Silver (Ag)	TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)
167.		Sulphur (S)	TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)
168.		Tellurium (Te)	TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)
169.		Tin (Sn)	TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)
170.		Zinc (Zn)	TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)
171.	Silico Manganese	Boron (B)	TPM/MSK/11/E (ICP-OES) (Issue No.04 dated 01.12.2022)
172.		Carbon (C)	ASTM E1019-24
173.		Manganese (Mn)	ISO 4159:1978, RC 2020
174.		Phosphorus (P)	IS 1559 :1961, RA 2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
175.	Silico Manganese	Phosphorus (P)	TPM/MSK/11/C1 (ICP-OES) (Issue No.04 dated 01.12.2022)
176.		Silicon (Si)	IS 1559 : 1961, RA 2023
177.		Silicon (Si)	ISO 4158:1978, RC 2020
178.		Sulphur (S)	ASTM E1019-24
179.	Special High-Grade Zinc	Aluminum (Al)	TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)
180.		Antimony (Sb)	TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)
181.		Arsenic (As)	TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)
182.		Cadmium (Cd)	TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)
183.		Copper (Cu)	TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)
184.		Iron (Fe)	TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)
185.		Lead (Pb)	TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)
186.		Magnesium (Mg)	TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
187.	Special High-Grade Zinc	Nickel (Ni)	TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)
188.		Silver (Ag)	TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)
189.		Thallium (Tl)	TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)
190.		Tin (Sn)	TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)
191.	Steel	Carbon (C)	ASTM E1019-24
192.		Carbon (C)	ISO 15350:2000, RC 2018
193.		Chromium (Cr)	IS 228 (Part 6): 2024
194.		Chromium (Cr)	ASTM E353-19e1(Sec 212-220)
195.		Chromium (Cr)	TPM/MSK/17/C2 (ICP-OES) (Issue No.04 dated 01.12.2022)
196.		Copper (Cu)	TPM/MSK/17/C2 (ICP-OES) (Issue No.04 dated 01.12.2022)
197.		Manganese (Mn)	IS 228 (Part 2): 2024
198.		Manganese (Mn)	ASTM E350-23(Sec 164-171)
199.		Manganese (Mn)	TPM/MSK/17/C2 (ICP-OES) (Issue No.4 dated 01.12.2022)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
200.	Steel	Nickel (Ni)	IS 228 (Part 5):1987, RA 2023
201.		Nickel (Ni)	ASTM E353-19e1 (Sec 172-179)
202.		Nickel (Ni)	ASTM E350-23(Sec 180-187)
203.		Nickel (Ni)	TPM/MSK/17/C2(ICP-OES) (Issue No.02(Issue No.04 dated 01.12.2022)
204.		Phosphorus (P)	IS 228 (Part 3): 2024
205.		Phosphorus (P)	ASTM E350-23(Sec 172-179)
206.		Phosphorus (P)	TPM/MSK/17/C2 (ICP-OES) (Issue No.04 dated 01.12.2022)
207.		Silicon (Si)	IS 228 (Part 8):1989, RA 2023
208.		Silicon (Si)	ASTM E350-23(Sec 46-52)
209.		Sulphur (S)	ASTM E1019-24
210.		Sulphur (S)	ISO 15350:2000, RC 2023
211.	Tin	Aluminium (Al)	TPM/MSK/37 (ICP-OES) (Issue No.04 dated 01.12.2022)
212.		Antimony (Sb)	TPM/MSK/37 (ICP-OES) (Issue No.04 dated 01.12.2022)
213.		Arsenic (As)	TPM/MSK/37 (ICP-OES) (Issue No.04 dated 01.12.2022)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
214.	Tin	Bismuth (Bi)	TPM/MSK/37 (ICP-OES) (Issue No.04 dated 01.12.2022)
215.		Cadmium (Cd)	TPM/MSK/37 (ICP-OES) (Issue No.04 dated 01.12.2022)
216.		Copper (Cu)	TPM/MSK/37 (ICP-OES) (Issue No.04 dated 01.12.2022)
217.		Iron (Fe)	TPM/MSK/37 (ICP-OES) (Issue No.04 dated 01.12.2022)
218.		Lead (Pb)	TPM/MSK/37 (ICP-OES) (Issue No.04 dated 01.12.2022)
219.		Zinc (Zn)	TPM/MSK/37 (ICP-OES) (Issue No.04 dated 01.12.2022)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
1.	Aluminium Ore/ Bauxite	Alumina (Al_2O_3)	IS 2000: (Part 3):1985, RA : 2022
2.		Calcium Oxide (CaO)	TPM/MSK/4/F2 (ICP-OES) (Issue No.02 dated 01.12.2022)
3.		Ferric Oxide (Fe_2O_3)	IS 2000: (Part 4):1985, RA: 2022
4.		Loss on Ignition (LOI)	IS 2000: (Part1):1985, RA: 2022
5.		Magnesium Oxide (MgO)	TPM/MSK/4/F2(ICP-OES) (Issue No.02 dated 01.12.2022)
6.		Moisture	ISO 9033 :1989 RC 2024
7.		Phosphorus (P)	TPM/MSK/4/F2 (ICP-OES) (Issue No.02 dated 01.12.2022)
8.		Reactive Silica	TPM/MSK/4/J (Issue No. 03 dated 01.10.2022)
9.		Silica (SiO_2)	IS 2000 : (Part 2):1985, RA : 2022
10.		Titania (TiO_2)	TPM/MSK/4/F2 (ICP-OES) (Issue No.02 dated 01.12.2022)
11.		Titania (TiO_2)	IS 2000: (Part 5):1985, RA : 2022
12.		Tri Hydrate Alumina (THA)	TPM/MSK/4/I (Thermo Gravimetric Analysis) (Issue No.02 dated 01.04.2019)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
13.	Chromite Ore (Chromium Ore)/ Chrome Concentrate	Alumina (Al_2O_3)	TPM/MSK/3/D/1(Issue No. 02 dated 01.10.2022)
14.		Calcium Oxide (CaO)	IS 4737: 1982, RA 2021
15.		Calcium Oxide (CaO)	TPM/MSK/3/E/1 (Issue No. 02 dated 01.10.2022)
16.		Chromic Oxide (Cr_2O_3)	IS 4737: 1982, RA 2021
17.		Chromic Oxide (Cr_2O_3)	TPM/MSK/3/B/1(Issue No. 02 dated 01.10.2022)
18.		Chromic Oxide (Cr_2O_3)	ISO 6331:2024
19.		Magnesium Oxide (MgO)	TPM/MSK/3/F/1(Issue No. 02 dated 01.10.2022)
20.		Magnesium Oxide (MgO)	IS 4737: 1982, RA 2021
21.		Moisture	IS 8562:1977, RA 2022
22.		Phosphorus (P)	TPM/MSK/3/G/2(Issue No. 03 dated 01.10.2022)
23.		Silica (SiO_2)	IS 4737: 1982, RA 2021
24.		Silica (SiO_2)	TPM/MSK/3/A/1 (Issue No. 02 dated 01.10.2022)
25.		Silica (SiO_2)	ISO 5997-1984 (Method B), RC 2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
26.	Chromite Ore (Chromium Ore)/ Chrome Concentrate	Total Iron (Fe)	IS 4737 :1982, RA 2021
27.		Total Iron (Fe)	ISO 6130:1985, RC 2022
28.		Total Iron (Fe)	TPM/MSK/3/C/1(Issue No. 02 dated 01.10.2022)
29.	Copper Ore/ Concentrates/ Copper Matte	Silica (SiO ₂)	TPM/MSK/47/ B(Issue No.02 dated 01.04.2022)
30.		Antimony (Sb)	TPM/MSK/47/G (ICP-OES) (Issue No.03 dated 01.12.2022)
31.		Arsenic (As)	TPM/MSK/47/G (ICP-OES) (Issue No.03 dated 01.12.2022)
32.		Bismuth (Bi)	TPM/MSK/47/G (ICP-OES) (Issue No.03 dated 01.12.2022)
33.		Cadmium (Cd)	TPM/MSK/47/G (ICP-OES) (Issue No.03 dated 01.12.2022)
34.		Cobalt (Co)	TPM/MSK/47/G (ICP-OES) (Issue No.03 dated 01.12.2022)
35.		Copper (Cu)	ISO 10258:2018 RC 2023
36.		Copper (Cu)	TPM/MSK/47/A (Issue No.02 dated 01.04.2022)
37.		Copper (Cu)	TPM/MSK/47/G (ICP-OES) (Issue No.03 dated 01.12.2022)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
38.	Copper Ore/ Concentrates/ Copper Matte	Gold (Au)	ISO 10378:2016 RC 2022 (Fire Assay)
39.		Iron (Fe)	TPM/MSK/47/E(Issue No.02 dated 01.04.2022)
40.		Iron (Fe)	TPM/MSK/47/G (ICP-OES) (Issue No.03 dated 01.12.2022)
41.		Lead (Pb)	TPM/MSK/47/C (Issue No.02 dated 01.04.2022)
42.		Lead (Pb)	TPM/MSK/47/G (ICP-OES) (Issue No.03 dated 01.12.2022)
43.		Molybdenum (Mo)	TPM/MSK/47/G (ICP-OES) (Issue No.03 dated 01.12.2022)
44.		Moisture	ISO 10251:2006, RC 2020
45.		Nickel (Ni)	TPM/MSK/47/G (ICP-OES) (Issue No.03 dated 01.12.2022)
46.		Selenium (Se)	TPM/MSK/47/G (ICP OES) (Issue No.03 dated 01.12.2022)
47.		Silver (Ag)	TPM/MSK/47/I (ICP-OES) (Issue No.01, dated 01.12.2022)
48.		Sulphur (S)	TPM/MSK/47/F(Issue No.02 dated 01.04.2022)
49.		Zinc (Zn)	TPM/MSK/47/D (Issue No.02 dated 01.04.2022)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
50.	Copper Ore/ Concentrates/ Copper Matte	Zinc (Zn)	TPM/MSK/47/G (ICP-OES) (Issue No.03 dated 01.12.2022)
51.	Gypsum	Alumina (Al ₂ O ₃)	TPM/MSK/31/A1 (ICP-OES) (Issue No.04 dated 01.12.2022)
52.		Calcium Oxide (CaO)	IS 1288: 1982, RA 2021
53.		Calcium Oxide (CaO)	ASTM C471M -24
54.		Calcium Sulfate dihydrate (CaSO ₄ .2H ₂ O)/Purity	IS 1288: 1982, RA 2021
55.		Calcium Sulfate dihydrate (CaSO ₄ .2H ₂ O)/ Purity	ASTM C471M- 24
56.		Combined Water	IS 1288: 1982, RA 2021
57.		Combined Water	ASTM C471M -24
58.		Ferric Oxide (Fe ₂ O ₃)	TPM/MSK/31/A1 (ICP-OES) (Issue No.04 dated 01.12.2022)
59.		Free Water	IS 1288: 1982, RA 2021
60.		Free Water	ASTM C471M -24
61.		Iron and Aluminum Oxide (Fe ₂ O ₃ +Al ₂ O ₃)	IS 1288: 1982, RA 2021
62.		Iron and Aluminum Oxide (Fe ₂ O ₃ +Al ₂ O ₃)	ASTM C471M- 24

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
63.	Gypsum	Magnesium Oxide (MgO)	IS 1288: 1982, RA 2021
64.		Magnesium Oxide (MgO)	ASTM C471M- 24
65.		Silica (SiO ₂) and Acid insoluble	IS 1288: 1982, RA 2021
66.		Silicon Dioxide (SiO ₂) and other Acid insoluble matter	ASTM C471M- 24
67.		Sulfur trioxide (SO ₃)	IS 1288: 1982, RA 2021
68.		Sulfur trioxide (SO ₃)	ASTM C471M- 24
69.	Iron Ore/Iron Ore Concentrate /Iron Ore Sinter/ Iron Ore Pellets	Alumina (Al ₂ O ₃)	IS 1493(Part 1) :1981, RA 2021
70.		Alumina (Al ₂ O ₃)	ISO 6830: 1986, RC 2021
71.		Alumina (Al ₂ O ₃)	ISO 11535:2006, RC 2022
72.		Arsenic (As)	TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022)
73.		Calcium Oxide (CaO)	ISO 11535:2006, RC 2022
74.		Chromium (Cr)	TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022)
75.		Copper (Cu)	TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
76.	Iron Ore/Iron Ore Concentrate /Iron Ore Sinter/ Iron Ore Pellets	Ferrous Iron (Fe ²⁺)	ISO 9035:1989, RC 2025
77.		Lead (Pb)	TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022)
78.		Loss on Ignition (LOI)	TPM/MSK/1/V1 (Issue no. 03 dated 01.04.2019)
79.		Magnesium Oxide (MgO)	ISO 11535:2006, RC 2022
80.		Manganese (Mn)	ISO 11535:2006, RC 2022
81.		Moisture	IS 11690:1986, RA 2023
82.		Moisture	IS 1493 (Part 1):1981, RA 2021
83.		Moisture	ISO 3087:2020
84.		Nickel (Ni)	TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022)
85.		Phosphorus (P)	IS 1493:1959, RA 2021
86.		Phosphorus (P)	ISO 11535:2006, RA 2022
87.		Potassium Oxide (K ₂ O)	TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022)
88.		Silica (SiO ₂)	IS 1493 (Part 1):1981, RA 2021

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
89.	Iron Ore/Iron Ore Concentrate /Iron Ore Sinter/ Iron Ore Pellets	Silica (SiO ₂)	ISO 2598-1:1992, RC 2022
90.		Sodium Oxide (Na ₂ O)	TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022)
91.		Sulphur (S)	ISO 4689-3:2017 RC 2022
92.		Titanium Dioxide (TiO ₂)	ISO 11535:2006, RC 2022
93.		Total Iron (Fe)	IS 1493 (Part-1):1981, RA 2021
94.		Total Iron (Fe)	ISO 2597-1:2006, RC 2022
95.		Total Iron (Fe)	ISO 2597-2:2019 RC 2025
96.		Total Iron (Fe)	ASTM E246-21
97.		Total Iron (Fe)	TPM/MSK/1/B1(Issue No. 03 dated 01.04.2022)
98.		Vanadium (V)	TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022)
99.		Zinc (Zn)	TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
100.	Lead Ores/ Concentrates	Arsenic (As)	TPM/MSK/46/G (ICP-OES) (Issue No. 3 dated 01.12.2022)
101.		Antimony (Sb)	TPM/MSK/46/G (ICP-OES) (Issue No. 3 dated 01.12.2022)
102.		Bismuth (Bi)	TPM/MSK/46/G (ICP-OES) (Issue No. 3 dated 01.12.2022)
103.		Copper (Cu)	TPM/MSK/46/C (Issue No.02 dated 01.04.2022)
104.		Cadmium (Cd)	TPM/MSK/46/G (ICP-OES) (Issue No. 3 dated 01.12.2022)
105.		Copper (Cu)	TPM/MSK/46/G (ICP-OES) (Issue No.03 dated 01.12.2022)
106.		Iron (Fe)	TPM/MSK/46/G (ICP-OES) (Issue No.3 dated 01.12.2022)
107.		Iron (Fe)	TPM/MSK/46/E (Issue No.02 dated 01.04.2022)
108.		Lead (Pb)	ISO 13545:2000, RC 2020
109.		Lead (Pb)	TPM/MSK/46/A(Issue No.02 dated 01.04.2022)
110.		Lead (Pb)	TPM/MSK/46/G (ICP-OES) (Issue No.03 dated 01.12.2022)
111.		Moisture	ISO 10251:2006, RC 2020

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Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
112.	Lead Ores/ Concentrates	Silica (SiO ₂)	TPM/MSK/46/B(Issue No.02 dated 01.04.2022)
113.		Silver (Ag)	SOP: TPM/MSK/46/I (ICP-OES) (Issue No.1dated 01.12.2022)
114.		Sulphur (S)	TPM/MSK/46/F(Issue No.02 dated 01.04.2022)
115.		Zinc (Zn)	TPM/MSK/46/G (ICP-OES) (Issue No. 3 dated 01.12.2022)
116.		Zinc (Zn)	TPM/MSK/46/D (Issue No.02 dated 01.04.2022)
117.	Dolomite	Alumina (Al ₂ O ₃)	IS 1760 (Part 3):2025
118.		Alumina (Al ₂ O ₃)	TPM/MSK/5/C3 (ICP-OES) (Issue No.04 dated 01.12.2022)
119.		Calcium Oxide (CaO)	IS 1760 (Part 3):2025
120.		Ferric Oxide (Fe ₂ O ₃)	IS 1760 (Part 3): 2025
121.		Ferric Oxide (Fe ₂ O ₃)	TPM/MSK/5/C3 (ICP-OES) (Issue No.04 dated 01.12.2022)
122.		Loss on Ignition (LOI)	IS 1760 (Part 1): 2025
123.		Magnesium Oxide (MgO)	IS 1760 (Part 3): 2025
124.		Potassium Oxide (K ₂ O)	TPM/MSK/5/H2 (ICP-OES) (Issue No.04 dated 01.12.2022)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
125.	Dolomite	Silica (SiO ₂)	IS 1760 (Part 2): 2025
126.		Sodium Oxide (Na ₂ O)	TPM/MSK/5/H2(ICP-OES) (Issue No.04 dated 01.12.2022)
127.		Titanium Oxide (TiO ₂)	TPM/MSK/5/C3 (ICP-OES) (Issue No.04 dated 01.12.2022)
128.	Hydrated Lime	Ca(OH) ₂	IS 1540 (Part 2): 1990, RA 2024 & IS 1514:1990, RA 2024
129.	Limestone	Alumina (Al ₂ O ₃)	IS 1760 (Part 3): 2025
130.		Alumina (Al ₂ O ₃)	TPM/MSK/5/C3(ICP-OES) (Issue No.04 dated 01.12.2022)
131.		Alumina (Al ₂ O ₃)	ASTM C25-24
132.		Calcium Oxide (CaO)	IS 1760 (Part 3): 2025
133.		Calcium Oxide (CaO)	ASTM C25-24
134.		Decrepitation Index	IS 10345: 2004, RA 2023
135.		Ferric Oxide (Fe ₂ O ₃)	IS 1760 (Part 3): 2025
136.		Ferric Oxide (Fe ₂ O ₃)	ASTM C 25-24
137.		Ferric Oxide (Fe ₂ O ₃)	TPM/MSK/5/C3 (ICP-OES) (Issue No.04 dated 01.12.2022)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
138.	Limestone	Loss on Ignition (LOI)	IS 1760 (Part 1): 2025
139.		Loss on Ignition (LOI)	ASTM C 25-24
140.		Magnesium Oxide (MgO)	ASTM C25-24
141.		Magnesium Oxide (MgO)	IS 1760 (Part 3): 2025
142.		Potassium Oxide (K ₂ O)	TPM/MSK/5/H2 (ICP-OES) (Issue No.04 dated 01.12.2022)
143.		Silica (SiO ₂)	IS 1760 (Part 2): 2025
144.		Silica (SiO ₂)	ASTM C 25-24
145.		Sodium Oxide (Na ₂ O)	TPM/MSK/5/H2 (ICP-OES) (Issue No.04 dated 01.12.2022)
146.		Sulphur	ASTM C25-24
147.		Titania (TiO ₂)	TPM/MSK/5/C3(ICP-OES) (Issue No.04 dated 01.12.2022)
148.	Manganese Ore	Alumina (Al ₂ O ₃)	TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022)
149.		Arsenic (As)	TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022)
150.		Barium Oxide (BaO)	TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
151.	Manganese Ore	Calcium Oxide (CaO)	TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022)
152.		Iron (Fe)	IS 1473: 2004, RA 2021
153.		Iron (Fe)	ISO 7990: 1985(Method A), RC 2022
154.		Lead (Pb)	TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022)
155.		Magnesium Oxide (MgO)	TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022)
156.		Manganese (Mn)	IS 1473: 2004, RA 2021
157.		Manganese (Mn)	ISO 4298 :2022
158.		Manganese dioxide (MnO ₂)	IS 1473: 2004, RA 2021
159.		Moisture	IS 1449: 2010, RA 2021
160.		Moisture	ISO 4299: 1989, RC 2022
161.		Phosphorus (P)	IS 1473: 2004, RA 2021
162.		Phosphorus (P)	TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022)
163.		Potassium Oxide (K ₂ O)	TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
164.	Manganese Ore	Silica (SiO ₂)	IS 1473: 2004, RA 2021
165.		Silica (SiO ₂)	ISO 5890:1981, RC 2022
166.		Sodium Oxide (Na ₂ O)	TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022)
167.		Sulphur (S)	TPM/MSK/2/J1 (Combustion Infra-red absorption Method) (Issue No. 03 dated 01.10.2022)
168.		Titanium Dioxide (TiO ₂)	TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022)
169.		Zinc (Zn)	TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022)
170.	Nickel Ore	Calcium Oxide (CaO)	TPM/MSK/49/D (Issue No.04 dated 01.01.2022)
171.		Alumina (Al ₂ O ₃)	TPM/MSK/49/F (Issue No.04 dated 01.01.2022)
172.		Cobalt (Co)	TPM/MSK/49/H (Issue No.04 dated 01.01.2022)
173.		Iron (Fe)	TPM/MSK/49/C (Issue No.04 dated 01.01.2022)
174.		Magnesium Oxide (MgO)	TPM/MSK/49/E (Issue No.04 dated 01.01.2022)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
175.	Nickel Ore	Nickel (Ni)	TPM/MSK/49/H (ICP-OES) (Issue No.01 dated 01.12.2022)
176.		Nickel (Ni)	TPM/MSK/49/A (Issue No.04 dated 01.01.2022)/JIS M 8126-1994
177.		Phosphorus (P)	TPM/MSK/49/H (Issue No.04 dated 01.01.2022)
178.		Silica (SiO ₂)	TPM/MSK/49/B (Issue No.04 dated 01.01.2022)
179.		Sulphur (S)	TPM/MSK/49/G (Issue No.04 dated 01.01.2022)
180.	Pyroxenite / Oliflux/ Olivine sand/ Dunite	Alumina (Al ₂ O ₃)	TPM/MSK/43/E (Issue No.02 dated 01.04.2022)
181.		Calcium Oxide (CaO)	TPM/MSK/43/A (Issue No.02 dated 01.04.2022)
182.		Chromic Oxide (Cr ₂ O ₃)	TPM/MSK/43/G (Issue No.02 dated 01.04.2022)
183.		Ferric Oxide (Fe ₂ O ₃)	TPM/MSK/43/D (Issue No.02 dated 01.04.2022)
184.		Loss on Ignition (LOI)	TPM/MSK/43/F (Issue No.02 dated 01.04.2022)
185.		Magnesium Oxide (MgO)	TPM/MSK/43/B (Issue No.02 dated 01.04.2022)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
186.	Pyroxenite / Oliflux/ Olivine sand/ Dunite	Potassium oxide (K ₂ O)	TPM/MSK/43/I (ICP-OES) (Issue No.04 dated 01.04.2022)
187.		Silica (SiO ₂)	TPM/MSK/43/C (Issue No.02 dated 01.04.2022)
188.		Sodium Oxide (Na ₂ O)	TPM/MSK/43/H (ICP-OES) (Issue No.04 dated 01.04.2022)
189.	Rock phosphate	Particle Size (- 0.15mm)	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-20
190.		Total P ₂ O ₅	IS 11224:1985(A- 3.2), RA 2024
191.		Alumina (Al ₂ O ₃)	IS 11224:1985(A- 7), RA 2024
192.		Alumina (Al ₂ O ₃)	TPM/MSK/26/D2 (ICP-OES) (Issue No.04 dated 01.12.2022)
193.		Calcium Oxide (CaO)	IS 9386:1979, RA 2024
194.		Chloride (Cl)	IS 11224:1985 (A-10), RA 2024
195.		Ferric Oxide (Fe ₂ O ₃)	IS 11224:1985(A- 7.2), RA 2024
196.		Ferric Oxide (Fe ₂ O ₃)	TPM/MSK/26/D2 (ICP-OES) (Issue No.04 dated 01.12.2022)
197.		Loss on Ignition (LOI)	IS 11224:1985 (A-11.1), RA 2024
198.		Magnesium Oxide (MgO)	IS 11224:1985, RA 2024

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
199.	Rock Phosphate	Magnesium Oxide (MgO)	TPM/MSK/26/D2 (ICP-OES) (Issue No.04 dated 01.12.2022)
200.		Moisture	IS 11224:1985(A- 8), RA 2024
201.		Moisture	IS 11211:1984, IS 11224: 1985, RA 2024
202.		Particle Size (- 0.25mm+0.15mm)	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-20
203.		Silica (SiO ₂)	IS 11224:1985(A-4), RA 2024
204.		Total P ₂ O ₅	The Fertilizer (Control) Order 1985 (as amended up to October 2024), Schedule II, Part B, Method-4(ii)
205.		Total P ₂ O ₅	AOAC
206.	Quartz/Silica Sand	Sodium Oxide (Na ₂ O)	TPM/MSK/25/F1 (ICP-OES) (Issue No.04 dated 01.12.2022)
207.		Potassium Oxide (K ₂ O)	TPM/MSK/25/F1 (ICP-OES) (Issue No.04 dated 01.12.2022)
208.		Alumina (Al ₂ O ₃)	TPM/MSK/25/F1 (ICP-OES) (Issue No.04 dated 01.12.2022)
209.		Ferric Oxide (Fe ₂ O ₃)	TPM/MSK/25/F1 (ICP-OES) (Issue No.04 dated 01.12.2022)
210.		Loss on Ignition (LOI)	IS 1917 (Part 1):1991, RA 2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
211.	Quartz/Silica Sand	Silica (SiO ₂)	IS :1917 (Part 3):1992, RA 2022
212.		Titanium Dioxide (TiO ₂)	TPM/MSK/25/F1 (ICP-OES) (Issue No.04 dated 01.12.2022)
213.	Zinc Ore/ Concentrate	Arsenic (As)	TPM/MSK/48/G (ICP-OES) (Issue No.03 dated 01.12.2022)
214.		Cadmium (Cd)	TPM/MSK/48/G (ICP-OES) (Issue No.03 dated 01.12.2022)
215.		Copper (Cu)	TPM/MSK/48/E (Issue No.02 dated 01.04.2022)
216.		Copper (Cu)	TPM/MSK/48/G (ICP-OES) (Issue No.03 dated 01.12.2022)
217.		Gold (Au)	ISO 10378:2016 RC 2022 (Fire Assay)
218.		Iron (Fe)	TPM/MSK/48/D (Issue No.02 dated 01.04.2022)
219.		Iron (Fe)	TPM/MSK/48/G (ICP-OES) (Issue No.03 dated 01.12.2022)
220.		Lead (Pb)	TPM/MSK/48/C (Issue No.02 dated 01.04.2022)
221.		Lead (Pb)	TPM/MSK/48/G (ICP-OES) (Issue No.03 dated 01.12.2022)
222.		Moisture	ISO 10251:2006, RC 2020

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
223.	Zinc Ore/ Concentrate	Silica (SiO ₂)	TPM/MSK/48/B(Issue No.02 dated 01.04.2022)
224.		Silver (Ag)	TPM/MSK/48/I (ICP-OES) (Issue No.01 dated 01.12.2022)
225.		Sulphur (S)	TPM/MSK/48/F (Issue No.04 dated 01.04.2022)
226.		Zinc (Zn)	ISO 13658:2000, RC 2020
227.		Zinc (Zn)	TPM/MSK/48/A(Issue No.02 dated 01.04.2022)
228.		Zinc (Zn)	TPM/MSK/48/G (ICP-OES) (Issue No.03 dated 01.12.2022)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
1.	Coal	Alumina (Al_2O_3)	ASTM D6349-21
2.		Alumina (Al_2O_3)	ASTM D4326-21
3.		Antimony (Sb)	ASTM D6357-21b
4.		Arsenic (As)	ASTM D6357-21b
5.		Arsenic (As)	TPM/MSK/44 (ICP-OES) (Issue No. 02 dated 02.01.2023)
6.		Ash	IS 1350 (Part 1): 2025
7.		Ash	ASTM D3174- 12(2018) e1
8.		Ash	ISO 1171:2024
9.		Ash	ASTM D 7582-24
10.		Beryllium (Be)	ASTM D6357-21b
11.		Boron (B)	TPM: MSK/56 (ICP-OES) (Issue No. 02 dated 02.01.2023)
12.		Cadmium (Cd)	ASTM D6357-21B
13.		Caking Index (CI)	IS 1353 (Part-3):2022
14.		Caking Index (CI)	ISO 15585:2019
15.		Calcium Oxide (CaO)	ASTM D6349-21
16.		Calcium Oxide (CaO)	ASTM D4326-21

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
17.	Coal	Carbon (C)	ASTM D5373 -21
18.		Carbon (C)	ISO 29541:2025
19.		Chlorine (Cl)	IS 1350 (Part 5): 2017
20.		Chlorine (Cl)	ASTM D4208-19
21.		Chromium (Cr)	ASTM D6357-21B
22.		Cobalt (Co)	ASTM D6357-21b
23.		Copper (Cu)	ASTM D6357-21b
24.		Crucible Swelling Number (CSN)	IS 1353 (Part -1): 2018 RA 2023
25.		Free Swelling Index	ASTM D720/D720M- 25
26.		Equilibrated Moisture (at 40 °C and 60 % Relative Humidity)	IS 1350 (Part 1): 2025
27.		Ferric Oxide (Fe ₂ O ₃)	ASTM D 6349-21
28.		Ferric Oxide (Fe ₂ O ₃)	ASTM D 4326-21
29.		Fixed Carbon (FC)	IS 1350 (Part 1): 2025
30.		Fixed Carbon (FC)	ASTM D 3172-13(2021) e1
31.		Fixed Carbon (FC)	ISO 17246: 2024
32.		Fixed Carbon (FC)	ASTM D7582-24

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Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
33.	Coal	Fluorine (F)	TPM/MSK/46A (ISE) (Issue No. 01 dated 02.01.2023)
34.		FT (Fluidity Temperature)	ASTM D1857 / D1857M -24 (Oxidizing)
35.		FT (Fluidity Temperature)	ASTM D1857 / D1857M – 24 (Reducing)
36.		Gross Calorific Value (GCV)	IS 1350 (Part-2):2022
37.		Gross Calorific Value (GCV)	ISO 1928:2020
38.		Gross Calorific Value (GCV)	ASTM D5865/D5865M-19
39.		Hardgrove Grindability Index(HGI)	IS 4433 :1979, RA 2020
40.		Hardgrove Grindability Index(HGI)	ISO 5074:2015, RC 2021
41.		Hardgrove Grindability Index(HGI)	ASTM D409 / D409M -24
42.		HT (Hemispherical Temperature)	ASTM D1857 / D1857M-24 (Reducing)
43.		HT (Hemispherical Temperature)	ASTM D1857 / D1857M-24 (Oxidizing)
44.		Hydrogen (H)	ASTM D5373- 21
45.		Hydrogen (H)	ISO 29541:2025
46.		IT (Initial Deformation Temperature)	ASTM D1857 / D1857M - 24 (Reducing)
47.		IT (Initial Deformation Temperature)	ASTM D1857 / D1857M- 24 (Oxidizing)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
48.	Coal	Lead (Pb)	ASTM D6357-21b
49.		Magnesium Oxide (MgO)	ASTM D 4326-21
50.		Magnesium Oxide (MgO)	ASTM D 6349-21
51.		Manganese (Mn)	ASTM D6357-21b
52.		Manganese dioxide (MnO ₂)	ASTM D 6349-21
53.		Manganese dioxide (MnO ₂)	ASTM D 4326-21
54.		Moisture	IS 1350 (Part 1): 2025
55.		Moisture	ASTM D3173 / D3173M-17a
56.		Moisture	ISO 11722:2013, RC 2018
57.		Moisture	ASTM D7582 -24
58.		Molybdenum (Mo)	ASTM D6357-21b
59.		Net Calorific Value (DB)	ASTM D5865/D5865M-19
60.		Net Calorific Value (ADB)	ISO 1928:2020
61.		Net Calorific Value (ADB)	ASTM D5865/D5865M-19
62.		Net Calorific Value (ARB)	ASTM D5865/D5865M-19
63.		Net Calorific Value (ARB)	ISO 1928: 2020
64.		Net Calorific Value (ARB)	ISO 1928: 2020

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
65.	Coal	Nickel (Ni)	ASTM D6357-21b
66.		Nitrogen (N)	ASTM D5373- 21
67.		Nitrogen (N)	ISO 29541:2025
68.		Organic Sulphur	IS 15438 :2004, RA 2020
69.		Oxygen (O)	ISO 1170: 2020
70.		Oxygen(O)	ASTM D3176-24
71.		Phosphorus (P)	ISO 622: 2016 RC 2022
72.		Phosphorus (P)	TPM/MSK/6/M/6 (ICP-OES) (Issue No. 04 dated 02.01.2023)
73.		Phosphorus Pentoxide (P ₂ O ₅)	ASTM D6349-21
74.		Phosphorus Pentoxide (P ₂ O ₅)	ASTM D4326-21
75.		Phosphorus (P)	IS 1350(Part-5):2017
76.		Potassium Oxide (K ₂ O)	ASTM D6349-21
77.		Potassium Oxide (K ₂ O)	ASTM D4326-21
78.		Pyritic Sulphur	IS 15438 :2004, RA 2020
79.		Selenium (Se)	TPM/MSK/44 (ICP-OES) (Issue No. 02 dated 02.01.2023)
80.		Silica (SiO ₂)	ASTM D 6349-21

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
81.	Coal	Silica (SiO ₂)	ASTM D 4326-21
82.		Sodium Oxide (Na ₂ O)	ASTM D6349-21
83.		Sodium Oxide (Na ₂ O)	ASTM D4326-21
84.		ST (Spherical Temperature)	ASTM D1857 / D1857M – 24 (Oxidizing)
85.		ST (Spherical Temperature)	ASTM D1857 / D1857M – 24 (Reducing)
86.		Sulphate Sulphur	IS 15438 :2004, RA 2020
87.		Sulphur (S)	ASTM D4239 -18e1
88.		Sulphur (S)	ISO 19579:2006, RC 2025
89.		Sulphur Trioxide (SO ₃)	ASTM D6349-21
90.		Sulphur Trioxide (SO ₃)	ASTM D4326-21
91.		Titania (TiO ₂)	ASTM D6349-21
92.		Titania (TiO ₂)	ASTM D4326-21
93.		Total Moisture	IS 1350 (Part 1): 2025
94.		Total Moisture	ASTM D3302 / D3302M -22a
95.		Total Moisture	ISO 589: 2008, RC 2023
96.		Total Sulphur (S)	IS:1350 (Part 3): 2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
97.	Coal	Total Sulphur (S)	ISO 334:2020
98.		Vanadium (V)	ASTM D6357-21b
99.		Volatile Matter (VM)	IS 1350 (Part 1): 2025
100.		Volatile Matter (VM)	ASTM D3175-20
101.		Volatile Matter (VM)	ISO 562:2024
102.		Volatile Matter (VM)	ASTM D7582-24
103.		Zinc (Zn)	ASTM D6357-21b
104.	Coal Ash/Combustion Residue	Mercury (Hg)	TPM/MSK/54 (ICP-OES) (Issue No. 02 dated 02.01.2023)
105.		Mercury (Hg)	TPM/MSK/54A (ICP-OES) (Issue No. 02 dated 02.01.2023)
106.	Coke	Alumina (Al ₂ O ₃)	ASTM D6349-21
107.		Antimony (Sb)	ASTM D6357-21b
108.		Arsenic (As)	TPM/MSK/44(ICP-OES) (Issue No. 02 dated 02.01.2023)
109.		Arsenic (As)	ASTM D6357-21b
110.		Ash	IS 1350 (Part 1): 2025
111.		Ash	ASTM D3174- 12(2018) e1
112.		Ash	ISO 1171: 2024

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
113.	Coke	Ash	ASTM D7582 -24
114.		Beryllium (Be)	ASTM D6357-21b
115.		Boron (B)	TPM: MSK/56 (ICP-OES) (Issue No. 02 dated 02.01.2023)
116.		Cadmium (Cd)	ASTM D6357-21b
117.		Calcium Oxide (CaO)	ASTM D6349-21
118.		Carbon (C)	ASTM D5373- 21
119.		Carbon (C)	ISO 29541:2025
120.		Chromium (Cr)	ASTM D6357-21b
121.		Cobalt (Co)	ASTM D6357-21b
122.		Coke Reactivity Index (CRI)	ISO 18894:2018 RC 2024
123.		Coke Reactivity Index (CRI)	ASTM D5341 / D5341M - 19
124.		Coke Reactivity Index (CRI)	IS 4023 : 2022
125.		Coke Strength after Reaction (CSR)	IS 4023: 2022
126.		Coke Strength after Reaction (CSR)	ISO 18894:2018 RC 2024
127.		Coke Strength after Reaction (CSR)	ASTM D5341 / D5341M - 19

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
128.	Coke	Copper (Cu)	ASTM D6357-21b
129.		Ferric Oxide (Fe ₂ O ₃)	ASTM D6349-21
130.		Fixed Carbon	ISO 17246 : 2024
131.		Fixed Carbon	ASTM D7582-24
132.		Fixed Carbon	IS 1350 (Part 1): 2025
133.		Fixed Carbon	ASTM D 3172-13(2021) e1
134.		FT (Fluidity Temperature)	ASTM D1857 / D1857M - 24 (Reducing)
135.		FT (Fluidity Temperature)	ASTM D1857 / D1857M - 24 (Oxidizing)
136.		Gross Calorific Value in Coke (GCV)	IS 1350 (Part 2):2022
137.		Gross Calorific Value in Coke (GCV)	ASTM D5865/D5865M-19
138.		Gross Calorific Value in Coke (GCV)	ISO 1928:2020
139.		HT (Hemispherical Temperature)	ASTM D187 / D1857M - 24 (Oxidizing)
140.		HT (Hemispherical Temperature)	ASTM D1857 / D1857M - 24 (Reducing)
141.		Hydrogen (H)	ASTM D5373- 21

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
142.	Coke	Hydrogen (H)	ISO 29541:2025
143.		IT (Initial Deformation Temperature)	ASTM D1857/D1857M-24 (Oxidizing)
144.		IT (Initial Deformation Temperature)	ASTM D1857/D1857M-24 (Reducing)
145.		Lead (Pb)	ASTM D6357-21b
146.		Magnesium Oxide (MgO)	ASTM D6349-21
147.		Manganese (Mn)	ASTM D6357-21b
148.		Manganese Dioxide (MnO ₂)	ASTM D6349-21
149.		Moisture	IS 1350 (Part 1): 2025
150.		Moisture	ISO 687:2024
151.		Moisture	ASTM D3173 /D3173M -17a
152.		Moisture	ASTM D7582 -24
153.		Molybdenum (Mo)	ASTM D6357-21b
154.		Net Calorific Value (ARB)	ISO 1928:2020
155.		Net Calorific Value (ADB)	ISO 1928:2020
156.		Net Calorific Value (ADB)	ASTM D5865/D5865M-19
157.		Net Calorific Value (ARB)	ASTM D5865/D5865M-19

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
158.	Coke	Net Calorific Value (DB)	ASTM D5865/D5865M-19
159.		Net Calorific Value (DB)	ISO 1928:2020
160.		Nickel (Ni)	ASTM D6357-21b
161.		Nitrogen (N)	ASTM D5373- 21
162.		Nitrogen (N)	ISO 29541: 2025
163.		Oxygen	ASTM D 3176-24
164.		Oxygen	ISO 1170:2020
165.		Phosphorus (P)	IS:1350 (Part 5): 2017
166.		Phosphorus (P)	ISO 622: 2016 RC 2022
167.		Phosphorus (P)	TPM/MSK/6/M/6 (Issue No 04 dated 02.01.2023)
168.		Phosphorus (P)	IS 1350: Part 5 : 2017
169.		Phosphorus Pentoxide (P ₂ O ₅)	ASTM D6349-21
170.		Potassium Oxide (K ₂ O)	ASTM D6349-21
171.		Selenium (Se)	TPM/MSK/44 (ICP-OES) (Issue No. 02 dated 02.01.2023)
172.		Silica (SiO ₂)	ASTM D6349-21
173.		Sodium Oxide (Na ₂ O)	ASTM D6349-21

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
174.	Coke	ST (Spherical Temperature)	ASTM D1857 / D1857M - 24 (Oxidizing)
175.		ST (Spherical Temperature)	ASTM D1857 / D1857M - 24 (Reducing)
176.		Sulphur	ASTM D4239 -18e1
177.		Sulphur	ISO 19579:2006, RC 2025
178.		Total Sulphur	ISO 334:2020
179.		Sulphur Trioxide (SO ₃)	ASTM D6349-21
180.		Titania (TiO ₂)	ASTM D6349-21
181.		Total Moisture	IS 1350 (Part 1): 2025
182.		Total Moisture	ISO 579:2013, RC 2018
183.		Total Moisture	ASTM D3302 / D3302M-22a
184.		Total Sulphur (S)	IS :1350 (Part 3): 2022
185.		Vanadium (V)	ASTM D6357-21b
186.		Volatile Matter (VM)	IS 1350 (Part 1): 2025
187.		Volatile Matter (VM)	ASTM D3175- 20
188.		Volatile Matter (VM)	ISO 562:2024
189.		Volatile Matter (VM)	ASTM D7582-24

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
190.	Coke	Zinc (Zn)	ASTM D6357-21b
191.	Graphite	Ash	IS 11321:1985, RA 2023
192.		Fixed Carbon	IS 11321:1985, RA 2023
193.		Loss on Heating	IS 495: 2023
194.		Moisture	IS 11321:1985, RA 2023
195.		Non-Graphitic Carbon	IS 495: 2023
196.		Petroleum Ether Soluble Matter	IS 495: 2023
197.		Sulphur	IS 11321:1985, RA 2023
198.		Volatile Matter (VM)	IS 11321:1985, RA 2023
199.		Water Soluble Matter	IS 495: 2023
200.	Lignite	Ash	IS 5062 (Part 2): 1969 RA 2020
201.		Fixed Carbon (FC)	IS 1350 (Part 1): 2025
202.		Gross Calorific Value (GCV)	IS 1350 (Part 2): 2022
203.		Moisture	IS 5062 (Part-1):1969 RA 2020
204.		Volatile Matter (VM)	IS 1350 (Part 1): 1984 RA 2019
205.	Petroleum Coke	Moisture (As received)/Gross Moisture	ASTM D4931-23
206.		Ash	IS 1448: Part 126: 2023
207.	Petroleum Coke	Ash	ASTM D4422-19

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
208.		Carbon (C)	TPM/MSK/45(Issue No.01 dated 05.01.2020)
209.		Fixed Carbon	IS 1350 (Part 1): 2025
210.		Fixed Carbon	ASTM D 3172-13(2021) e1
211.		Gross Calorific Value	IS 1350 (Part 2): 2022
212.		Gross Calorific Value	ASTM D5865/D5865M-19
213.		Hardgrove Grindability Index (HGI)	ASTM D5003/D5003M-23
214.		Hydrogen (H)	TPM/MSK/45 (Issue No.01 dated 05.01.2020)
215.		Moisture	IS 1448 (Part 132): 2018
216.		Nitrogen (N)	TPM/MSK/45 (Issue No.01 dated 05.01.2020)
217.		Oxygen (O)	TPM/MSK/45 (Issue No.01 dated 05.01.2020)
218.		Sulphur	TPM/MSK/45 (Issue No.01 dated 05.01.2020)
219.		Sulphur	IS 1448 (Part 33) :2021
220.		Volatile Matter (VM)	IS 1448: (Part 134): 2018
221.	Petroleum Coke	Volatile Matter (VM)	ASTM D6374 - 22

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
222.	Solid Biofuel	Ash	IS 17653:2021
223.		Ash	ISO 18122:2022
224.		Carbon (C)	IS 17832:2022
225.		Carbon (C)	ISO 16948 :2015, RC 2020
226.		Gross Calorific Value	ISO 18125: 2017 RC 2022
227.		Gross Calorific Value (GCV)	IS 17654:2021
228.		Hydrogen (H)	IS 17832:2022
229.		Hydrogen (H)	ISO 16984:2015, RC 2020
230.		Moisture	ISO 18134-3:2023
231.		Moisture	IS 17655(Part- 3):2021
232.		Nitrogen (N)	IS 17832 :2022
233.		Nitrogen (N)	ISO 16984 :2015, RC 2020
234.		Sulphur (S)	IS 17833: 2022
235.		Sulphur (S)	ISO 16994: 2016 RC 2023
236.		Total Moisture	ISO 18134-2:2024
237.		Total Moisture	IS 17655(Part- 2):2021
238.	Solid Biofuel	Volatile Matter (VM)	IS 17844:2022

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R.H.S to Behala, Banerjee Park, P.O- Raipur, P.S- Maheshlata, 24 Paraganas South,
Kolkata- 700141, West Bengal, India

QAI/CIA/TL/2023/0015

Date of First Accreditation: 13 July 2023- 12 July 2025

Valid from: 13 July 2025

Valid until: 12 July 2027

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
239.	Solid Biofuel	Volatile Matter (VM)	ISO 18123: 2023
240.	Solid Biofuel /Biomass	Ash	ASTM E1755-24
241.	Solid Biofuel/ Particulate Wood Fuel	Ash	ASTM E 1534- 24
242.		Moisture	ASTM E 871- 24
243.		Volatile Matter (VM)	ASTM E872- 24



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Scope of Accreditation

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Sampling			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
1.	Iron Ore	Sampling and sample preparation of Iron Ores- Manual Method	IS 1405: 2010 RA 2021
2.	Iron Ore Pellets	Methods of sampling – Iron Ore Pellets	IS 9101: 1979, RA 2019
3.	Ferro Alloys	Methods of Sampling – Ferro Alloys	IS 1472: 1977 RA 2022
4.	Limestone/Dolomite	Sampling of Limestone, dolomite and other allied Materials	IS 2109: 1982 RA 2019
5.	Chrome Ore	Methods of Sampling of Chrome Ores	IS 8562: 1977
6.	Rock Phosphate	Sampling of Rock phosphate	IS 11211: 1984 RA 2024
7.	Manganese Ore	Sampling and sampling Preparation of Manganese Ores	IS 1449: 2010 RA 2021
8.	Manganese Ore	Sampling and sampling Preparation of Manganese Ores	ISO 4296-1 -1984 & ISO 4296-2 - 1983
9.	Coal and Coke	Sampling of coal and Coke	IS 436: Part 1: Sec 1: 2024
10.	Coal and Coke	Sampling of Coal and Coke	ISO 18283: 2022

This is annexure to 'Certificate of Accreditation' and does not require any signature.

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Sampling			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
11.	Coal and Coke	Sampling of Coal and Coke	ASTM D2013/D2013M-24 ASTM D2234/2234M-20
12.	Copper Conc/Lead Conc/Zinc Concentrate/ Nickel Concentrate	Copper, Lead, Zinc and Nickel Concentrate- Sampling Procedure for Determination of Metal and moisture Content	ISO 12743: 2021

