National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CHEMICAL & METALLURGICAL LABORATORY, RAIL WHEEL PLANT, BELA, P.O. ARVIND NAGAR, CHHAPRA, SARAN, BIHAR, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7603	**Page No**	1 of 5
Validity	25/07/2021 to 24/07/2023	**Last Amended on**	02/11/2021

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- BUILDING MATERIAL	CALCINED LIME	CaO	IS 1760 (Part 3)
2	CHEMICAL- BUILDING MATERIAL	CALCINED LIME	LOSS ON IGNITION	IS 1760 (Part 1)
3	CHEMICAL- BUILDING MATERIAL	CALCINED LIME	SiO2	IS 1760 (Part 2)
4	CHEMICAL- BUILDING MATERIAL	HIGH ALUMINA BRICKS, MORTAR , FIRE CLAY REFRACTORIES	K2O	RWP/HA 5 STD/XRF-02, Issue No.01
5	CHEMICAL- BUILDING MATERIAL	HIGH ALUMINA BRICKS, MORTAR, FIRE CLAY REFRACTORIES	Al2O3	RWP/HA 5 STD/XRF-02, Issue No.01
6	CHEMICAL- BUILDING MATERIAL	HIGH ALUMINA BRICKS, MORTAR, FIRE CLAY REFRACTORIES	Al2O3	IS 12107 (Part 3)
7	CHEMICAL- BUILDING MATERIAL	HIGH ALUMINA BRICKS, MORTAR, FIRE CLAY REFRACTORIES	Fe2O3	RWP/HA 5 STD/XRF-02 Issue No.01
8	CHEMICAL- BUILDING MATERIAL	HIGH ALUMINA BRICKS, MORTAR, FIRE CLAY REFRACTORIES	Na2O	RWP/HA 5 STD/XRF-02 Issue No.01
9	CHEMICAL- BUILDING MATERIAL	HIGH ALUMINA BRICKS, MORTAR, FIRE CLAY REFRACTORIES	TiO2	RWP/HA 5 STD/XRF-02, Issue No.01
10	CHEMICAL- BUILDING MATERIAL	HIGH ALUMINA BRICKS,MORTAR,FIRE CLAY REFRACTORIES	Fe2O3	IS 12107 (Part 6)
11	CHEMICAL- BUILDING MATERIAL	MAGNESIA REFRACTORY	CaO	RWP/MAGNESIA REF/XRF-06 Issue No.01
12	CHEMICAL- BUILDING MATERIAL	MAGNESIA REFRACTORY	Fe2O3	RWP/MAGNESIA REF/XRF-06 Issue No.01
13	CHEMICAL- BUILDING MATERIAL	MAGNESIA REFRACTORY	MgO	RWP/MAGNESIA REF/XRF-06 Issue No.01
14	CHEMICAL- BUILDING MATERIAL	MAGNESIA REFRACTORY	SiO2	RWP/MAGNESIA REF/XRF-06 Issue No.01
15	CHEMICAL- METALS & ALLOYS	CARBON STEEL	ALUMINIUM	IS: 8811
16	CHEMICAL- METALS & ALLOYS	CARBON STEEL	CARBON	IS 8811
17	CHEMICAL- METALS & ALLOYS	CARBON STEEL	CHROMIUM	IS 8811
18	CHEMICAL- METALS & ALLOYS	CARBON STEEL	COPPER	IS 8811

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19	CHEMICAL- METALS & ALLOYS	CARBON STEEL	HYDROGEN	RWP/LOW H2/RHEN 602 Issue No.01
20	CHEMICAL- METALS & ALLOYS	CARBON STEEL	MANGANESE	IS 8811
21	CHEMICAL- METALS & ALLOYS	CARBON STEEL	MOLYBDENUM	IS 8811
22	CHEMICAL- METALS & ALLOYS	CARBON STEEL	NICKEL	IS 8811
23	CHEMICAL- METALS & ALLOYS	CARBON STEEL	NITROGEN	ASTM E 1019
24	CHEMICAL- METALS & ALLOYS	CARBON STEEL	OXYGEN	ASTM E 1019
25	CHEMICAL- METALS & ALLOYS	CARBON STEEL	PHOSPHOROUS	IS 8811
26	CHEMICAL- METALS & ALLOYS	CARBON STEEL	SILICON	IS 8811
27	CHEMICAL- METALS & ALLOYS	CARBON STEEL	SULPHUR	IS 8811
28	CHEMICAL- METALS & ALLOYS	CARBON STEEL	VANADIUM	IS 8811
29	CHEMICAL- METALS & ALLOYS	FERRO MANGANESE	CARBON	RWP/FERRO-ALLOYS/CS-230/01 Issue NO.01
30	CHEMICAL- METALS & ALLOYS	FERRO MANGANESE	MANGANESE	RWP/Fe-Mn/XRF-07 Issue No.01
31	CHEMICAL- METALS & ALLOYS	FERRO MANGANESE	PHOSPHOROUS	RWP/Fe-Mn/XRF-07 Issue No.01
32	CHEMICAL- METALS & ALLOYS	FERRO MANGANESE	SILICON	RWP/Fe-Mn/XRF-07 Issue No.01
33	CHEMICAL- METALS & ALLOYS	FERRO MANGANESE	SULPHUR	RWP/FERRO-ALLOYS/CS-230/01 Issue No.01
34	CHEMICAL- METALS & ALLOYS	FERRO SILICON	ALUMINIUM	RWP/Fe-Si 6 STD/XRF-03Issue No.01
35	CHEMICAL- METALS & ALLOYS	FERRO SILICON	CARBON	RWP/FERRO-ALLOYS/CS-230/01Issue No.01
36	CHEMICAL- METALS & ALLOYS	FERRO SILICON	PHOSPHOROUS	RWP/Fe-Si 6 STD/XRF-03 Issue No.01
37	CHEMICAL- METALS & ALLOYS	FERRO SILICON	SILICON	RWP/Fe-Si 6 STD/XRF-03 Issue No.01

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38	CHEMICAL- METALS & ALLOYS	FERRO SILICON	SULPHUR	RWP/FERRO-ALLOYS/CS-230/01 Issue No.01
39	CHEMICAL- METALS & ALLOYS	FERROUS MATERIAL	HYDROGEN	RWP/LOW H2/RHEN602
40	CHEMICAL- METALS & ALLOYS	SILICO-MANGANESE	CARBON	RWP/FERRO-ALLOYS/CS-230/01 Issue No.01
41	CHEMICAL- METALS & ALLOYS	SILICO-MANGANESE	MANGANESE	RWP/Si-Mn 6 std/XRF-04 Issue No.01
42	CHEMICAL- METALS & ALLOYS	SILICO-MANGANESE	PHOSPHOROUS	RWP/Si-Mn 6 STD /XRF-04 Issue No.01
43	CHEMICAL- METALS & ALLOYS	SILICO-MANGANESE	SILICON	RWP/Si-Mn 6 STD/XRF-04 Issue No.01
44	CHEMICAL- METALS & ALLOYS	SILICO-MANGANESE	SULPHUR	RWP/FERRO-ALLOYS/CS-230/01 Issue No.01
45	CHEMICAL- ORES & MINERALS	GRAPHITE	ASH CONTENT	IS 14852;2000, RA
46	CHEMICAL- ORES & MINERALS	GRAPHITE	CARBON	RWP/GRAPHITE/SC 144DR/02 Issue No.01
47	CHEMICAL- ORES & MINERALS	GRAPHITE	SULPHUR	RWP/GRAPHITE/SC 144DR/02 Issue No.01
48	CHEMICAL- ORES & MINERALS	SILICA SAND	CaO	RWP/SILICA REF/XRF-01 Issue No.01
49	CHEMICAL- ORES & MINERALS	SILICA SAND	Fe2O3	RWP/SILICA REF/XRF-01 Issue No.01;
50	CHEMICAL- ORES & MINERALS	SILICA SAND	K2O	RWP/SILICA REF/XRF-01 Issue No.01
51	CHEMICAL- ORES & MINERALS	SILICA SAND	MgO	RWP/SILICA REF/XRF-01 Issue No.01
52	CHEMICAL- ORES & MINERALS	SILICA SAND	SiO2	IS1917(PART3):1992,RA
53	CHEMICAL- ORES & MINERALS	SILICA SAND	SiO2	RWP/SILICA REF/XRF-01 Issue No.01
54	CHEMICAL- ORES & MINERALS	SILICA SANDS	Na2O	RWP/SILICA REF/XRF-01 Issue No.01
55	CHEMICAL- ORES & MINERALS	SLAG	CaO	RWP/STD SLAG/XRF-05 Issue No.01
56	CHEMICAL- ORES & MINERALS	SLAG	MgO	RWP/STD SLAG/XRF-05 Issue No.01

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57	CHEMICAL- ORES & MINERALS	SLAG	SiO2	RWP/STD SLAG/XRF-05 Issue No.01
58	MECHANICAL- BUILDINGS MATERIALS	FOUNDRY SAND	CLAY CONTENT	IS 1918
59	MECHANICAL- BUILDINGS MATERIALS	FOUNDRY SAND	GRAIN FINENESS	IS 1918
60	MECHANICAL- BUILDINGS MATERIALS	FOUNDRY SAND	MOISTURE CONTENT	IS 1918
61	MECHANICAL- BUILDINGS MATERIALS	HIGH ALUMINA BRICKS AND FIRE CLAY REFRACTORIES	Refractoriness under load	IS 1528 (Part 2)
62	MECHANICAL- BUILDINGS MATERIALS	REFRACTORY	APPARENT POROSITY	IS 1528 (Part 15)
63	MECHANICAL- BUILDINGS MATERIALS	REFRACTORY	BULK DENSITY	IS 1528 (Part 15)
64	MECHANICAL- BUILDINGS MATERIALS	REFRACTORY	Cold crushing strength	IS 1528 (Part 4)
65	MECHANICAL- BUILDINGS MATERIALS	REFRATORY	PLC (PERMANENT LINEAR CHANGE) compression/expansion	IS 1528 (Part 6)
66	MECHANICAL- MECHANICAL PROPERTIES OF METALS	FERROUS MATERIAL	BRINELL HARDNESS (10mm ball/3000kgf)	IS 1500 (PART1)
67	MECHANICAL- MECHANICAL PROPERTIES OF METALS	FERROUS MATERIAL	PERCENTAGE ELONGATION	IS 1608 (Part 1)
68	MECHANICAL- MECHANICAL PROPERTIES OF METALS	FERROUS MATERIAL	TENSILE STRENGTH	IS 1608 (Part 1)
69	MECHANICAL- MECHANICAL PROPERTIES OF METALS	FERROUS MATERIAL	Yield strength	IS 1608 (Part 1)
70	MECHANICAL- METALLOGRAPHY TEST	FERROUS MATERIAL	ESTIMATION OF AVG. GRAIN SIZE (COMPARISON METHOD)	IS 4748
71	MECHANICAL- METALLOGRAPHY TEST	FERROUS MATERIAL	MACRO EXAMINATION	IS 13015
72	MECHANICAL- METALLOGRAPHY TEST	FERROUS MATERIAL	MICROSTRUCTURE ANALYSIS	ASM Hand Book-Vol 9, IS 7739 (Part 1), IS 7739 (Part 5)
73	MECHANICAL- METALLOGRAPHY TEST	FERROUS MATERIAL	NON METALLIC INCLUSION RATING BY METHOD A	IS 4163

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74	NON-DESTRUCTIVE-METALS & ALLOYS	ULTRASONIC TESTING DETECTION OF INTERNAL AND SUB SURFACE FLAWS/DEFECTS	ULTRASONIC TESTING DETECTION OF INTERNAL AND SUB SURFACE FLAWS/DEFECTS	IS 3664, IRS R19 (Part 3)