



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

RAMKRISHNA FORGINGS LIMITED - LABORATORY, PLOT M6, PHASE VI, GAMAHRIA,  
JAMSHEDPUR, SARAİKELA KHARSAWAN, JHARKHAND, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

TC-6834

**Page No**

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**Validity**

17/07/2020 to 16/07/2022

**Last Amended on**

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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
LOCATION 1-PLOT M6, PHASE VI, GAMAHRIA, JAMSHEDPUR, SARAİKELA KHARSAWAN, JHARKHAND, INDIA Permanent Facility				
1	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Aluminium	IS 8811:1998 RA
2	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Boron	IS 8811:1998 RA
3	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Carbon	IS 8811:1998 RA
4	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Chromium	ASTM E415
5	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Chromium	IS 8811:1998 RA
6	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Copper	IS 8811:1998 RA
7	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Manganese	IS 8811:1998 RA
8	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Molybdenum	IS 8811:1998 RA
9	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Nickel	IS 8811:1998 RA
10	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Phosphorus	IS 8811:1998 RA
11	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Silicon	IS 8811:1998 RA
12	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Sulphur	IS 8811:1998 RA
13	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Vanadium	IS 8811:1998 RA



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14	CHEMICAL- METALS & ALLOYS	Plain carbon and low alloy steel	Aluminium	ASTM E415
15	CHEMICAL- METALS & ALLOYS	Plain carbon and Low alloy steel	Carbon	ASTME415
16	CHEMICAL- METALS & ALLOYS	Plain carbon and low alloy steel	Copper	ASTM E415
17	CHEMICAL- METALS & ALLOYS	Plain carbon and Low Alloy Steel	Manganese	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Plain carbon and low alloy steel	Molybdenum	ASTM E415
19	CHEMICAL- METALS & ALLOYS	Plain Carbon and Low alloy steel	Nickel	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Plain carbon and low alloy steel	Phosphorus	ASTM E415
21	CHEMICAL- METALS & ALLOYS	Plain carbon and Low Alloy Steel	Silicon	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Plain carbon and Low Alloy Steel	Sulphur	ASTM E415
23	CHEMICAL- METALS & ALLOYS	Plain carbon and Low alloy steel	Vanadium	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Plain carbon and alloy steel	Boron	ASTM E415
25	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Jominy Hardenability Test	IS 3848
26	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	% Elongation	ASTM A370



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27	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	% Elongation	IS 1608 part1
28	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	% Reduction in Area	ASTM A370
29	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	% Reduction in Area	IS 1608 part1
30	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test	IS 1599
31	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness	IS1500 part1
32	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact Test (U- notch) @RT to -40 Deg. C	IS 1499
33	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact Test (V- notch) @RT to -40 Deg. C	IS 1757 part1
34	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Izod Impact Test @RT to -40 Deg. C	IS 1598
35	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRB)	IS1586 part1
36	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRC)	IS1586 part1



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37	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength	ASTM A 370
38	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength	IS1608 part1
39	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yeild Strength	ASTM 370
40	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yeild Strength	IS 1608 part1
41	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Impact Test ( Charpy U& V Notch)	Charpy U& V Notch ( Room temp. and up to -40 Deg. C	IS 1757 part1
42	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Grain Size	ASTM E-112
43	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Grain Size	IS 4748
44	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Inclusion Rating (A,B,C,D in thin & thick series)	ASTM E45
45	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Inclusion Rating (A,B,C,D in thin & thick series)	IS 4163
46	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro structure	ASTM E381
47	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro structure	IS 13015
48	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Microstructure	ASM Hand book volume 9



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LOCATION 2 - PLANT V, BALIGUMA, JAMSHEDPUR, SARAİKELA KHARSAWAN, JHARKHAND, INDIA Permanent Facility				
1	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Aluminium	ASTM E415
2	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Aluminium	IS 8811:1998 RA
3	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Boron	ASTM E415
4	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Boron	IS 8811:1998 RA
5	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Carbon	ASTM E415
6	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Carbon	IS 8811:1998 RA
7	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Chromium	IS 8811:1998 RA
8	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Copper	ASTM E415
9	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Copper	IS 8811
10	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Manganese	IS 8811:1998 RA
11	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Molybdenum	IS 8811:1998 RA
12	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Nickel	IS 8811:1998 RA
13	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Phosphorus	ASTM E415



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14	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Phosphorus	IS 8811:1998 RA
15	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Silicon	IS 8811:1998 RA
16	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Sulphur	ASTM E415
17	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Sulphur	IS 8811:1998 RA
18	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Vanadium	ASTM E415
19	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Vanadium	IS 8811:1998 RA
20	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	% Elongation	ASTM A370
21	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	% Reduction in Area	ASTM A370
22	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	0.2% Proof Strength	ASTM A370
23	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness Testing	IS 1500 Part -I
24	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact Test( U notch )@RT to -40 Deg. C	IS 1499



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25	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Izod Impact Test @ RT to -40 Deg. C	IS 1598
26	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Jominy Hardenability Test	IS 3848
27	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Micro Vickers Hardness ( HV1 )	ASTM E 384
28	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Micro Vickers Hardness(HV1)	IS 1501 part1
29	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness	IS 1586 part1
30	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRB)	IS 1586 Part1
31	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength	ASTM A370 part1
32	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Ultimate Tensile Strength	IS 1608 part1
33	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Strength	ASTM A370
34	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Strength	IS 1608 part1



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35	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	% Elongation	IS 1608 part1
36	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	% Reduction in Area	IS 1608 part1
37	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Charpy Impact Test(V- notch)@RT to -40 Deg. C	IS1757 part1
38	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Grain Size	ASTM E 112
39	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Grain Size	IS 4748
40	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Inclusion Rating( A,B,C,D in Thin & Thick series )	ASTM E45
41	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Inclusion Rating(A,B,C,D in thin & thick series)	IS 4163
42	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro Structure	ASTM E381
43	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro Structure	IS 13015
44	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials, alloys & products	Microstructure	ASM Handbook volume 9