National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CHEMICAL & METALLURGICAL LABORATORY, EASTERN RAILWAY LOCOMOTIVE WORKSHOP, JAMALPUR, MUNGER, BIHAR, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9121 **Page No** 1 of 2

Validity 24/11/2022 to 23/11/2024 **Last Amended on** 28/03/2023

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- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	ALUMINIUM	IS 8811
2	CHEMICAL- METALS & ALLOYS	plain carbon & low alloy steel	VANADIUM	IS 8811
3	CHEMICAL- METALS & ALLOYS	Plain carbon steel & low alloy steel	CARBON	IS 8811
4	CHEMICAL- METALS & ALLOYS	Plain carbon steel & low alloy steel	COPPER	IS 8811
5	CHEMICAL- METALS & ALLOYS	Plain carbon steel & low alloy steel	MOLYBDENUM	IS 8811
6	CHEMICAL- METALS & ALLOYS	PLAIN CARBON STEEL & LOW ALLOY STEEL	NICKEL	IS 8811
7	CHEMICAL- METALS & ALLOYS	Plain carbon steel & low alloy steel	PHOSPHORUS	IS 8811
8	CHEMICAL- METALS & ALLOYS	Plain carbon steel & Low Alloy steel	SILICON	IS 8811
9	CHEMICAL- METALS & ALLOYS	plain carbon steel & low carbon steel	CHROMIUM	IS 8811
10	CHEMICAL- METALS & ALLOYS	Plain Carbon steel & Low carbon steel	MANGANESE	IS 8811
11	CHEMICAL- METALS & ALLOYS	Plain Carbon steel & low carbon steel	SULPHUR	IS 8811
12	CHEMICAL- PAINTS & SURFACE COATING	PAINTS	MASS PER TEN LITRES	IS 101:Part 1:Sec 7
13	CHEMICAL- PETROLEUM AND PRODUCTS	GREASES USED IN RAILWAYS	DROP POINT	IS 1448 PART 52
14	CHEMICAL- PETROLEUM AND PRODUCTS	LUBRICANT USED IN RAILWAY	FLASH POINT BY CLEVELAND OPEN CUP METHOD	IS 1448 PART 69
15	CHEMICAL- WATER	Drinking Water	PH VALUE	IS 3025 PART 11
16	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL COMPONENTS	ULTIMATE TENSILE STRENGTH & % ELONGATION	IS 1608 PART 1
17	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL COMPONENTS	BRINELL HARDNESS TEST	IS 1500 PART 1

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18	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL COMPONENTS	IZOD IMPACT TEST	IS 1598 (R2015)
19	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL COMPONENTS	ROCKWELL HARDNESS TEST	IS1586 PART 1
20	MECHANICAL-METALLOGRAPHY TEST	PLAIN CARBON STEEL	MICROSTRUCTURE EXAMINATION	ASTM Hand book , vol.9
21	MECHANICAL- RUBBER AND RUBBER PRODUCTS	NATURAL RUBBER USED IN RAILWAYS	INDENTATION HARDNESS (SHORE -A) USING POCKET HARDNESS MATER	IS 3400 PART-23
22	NON-DESTRUCTIVE-METALS & ALLOYS	FORGED AXLES USED IN RAILWAYS	DETECTION OF INTERNAL FLAW THROUGH ULTRASONIC PULSE ECHO TESTING BY CONTACT METHOD	IS 3664
23	NON-DESTRUCTIVE-METALS & ALLOYS	FERROUS	DETECTION OF SURFACE FLAW by Yoke	IS 3703
24	NON-DESTRUCTIVE-METALS & ALLOYS	FERROUS & NONFERROUS	DETECTION OF SURFACE FLAW (OPEN TO SURFACE) THROUGH VISIBLE DYE PENETRANT TECHNIQUE.	IS 3658
25	NON-DESTRUCTIVE-METALS & ALLOYS	FERROUS & NONFERROUS	DETECTION OF SURFACE FLAW (OPEN TO SURFACE) THROUGH FLUORESCENT DYE PENETRANT TECHNIQUE (ZYGLO)	IS 3658