National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : THYSSENKRUPP ELECTRICAL STEEL INDIA PRIVATE LIMITED TESTING LABORATORY, AT POST GONDE, VILLAGE WADIVARHE, NASHIK, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8228 **Page No** 1 of 5

Validity 23/11/2021 to 22/11/2023 **Last Amended on** -

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	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	B-H Curve	IS 649
2	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	A.C. Magnetisation / Permeability	IEC 60404-2
3	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	A.C. Magnetisation / Permeability	IEC 60404-8-4
4	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	A.C. Magnetisation / Permeability	IEC 60404-8-7
5	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	A.C. Magnetisation / Permeability	IS 15391
6	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	A.C. Magnetisation / Permeability	IS 3024
7	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	A.C. Magnetisation / Permeability	IS 648
8	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	A.C. Magnetisation / Permeability	IS 649
9	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	A.C. Magnetisation / Permeability by Ring Pack tester	IEC 60404-6
10	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	A.C. Magnetisation / Permeability by Single Sheet tester	IEC 60404-3
11	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Adherence Test	IS 3024
12	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Adherence Test	IS 648
13	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Adherence Test	IS 649
14	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Anisotropy	IEC 60404-8-4
15	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Anisotropy	IS 15391
16	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Anisotropy	IS 648
17	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Anisotropy	IS 649

SCOPE OF ACCREDITATION

Laboratory Name : THYSSENKRUPP ELECTRICAL STEEL INDIA PRIVATE LIMITED TESTING LABORATORY, AT POST GONDE, VILLAGE WADIVARHE, NASHIK, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8228 **Page No** 2 of 5

Validity 23/11/2021 to 22/11/2023 **Last Amended on** -

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
18	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	B-H Curve	IEC 60404-8-4
19	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	B-H Curve	IEC 60404-8-7
20	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	B-H Curve	IS 3024
21	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	B-H Curve	IS 648
22	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Coating Thickness	IS 3024
23	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Coating Thickness	IS 648
24	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Coating Thickness	IS 649
25	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Ductility	IEC 60404-8-4
26	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Ductility	IEC 60404-8-7
27	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Ductility	IS 3024
28	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Ductility	IS 648
29	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Ductility	IS 649
30	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Resistance to Heat	IEC 60404-12
31	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Resistance to Heat	IS 3024
32	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Resistance to Heat	IS 648
33	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Resistance to Heat	IS 649
34	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Resistance to Solvents (Xylene,Trichloroethylene,Freon)	IS 3024
35	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Resistance to Solvents (Xylene,Trichloroethylene,Freon)	IS 648

SCOPE OF ACCREDITATION

Laboratory Name : THYSSENKRUPP ELECTRICAL STEEL INDIA PRIVATE LIMITED TESTING LABORATORY, AT POST GONDE, VILLAGE WADIVARHE, NASHIK, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8228 **Page No** 3 of 5

Validity 23/11/2021 to 22/11/2023 **Last Amended on** -

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
36	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Resistance to Solvents (Xylene,Trichloroethylene,Freon)	IS 649
37	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Resistance Transformer Oil	IS 3024
38	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Resistance Transformer Oil	IS 648
39	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Resistance Transformer Oil	IS 649
40	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Sheet Thickness	IEC 60404-8-4
41	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Sheet Thickness	IEC 60404-8-7
42	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Sheet Thickness	IS 3024
43	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Sheet Thickness	IS 648
44	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Sheet Thickness	IS 649
45	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Specific Core Loss	IEC 60404-2
46	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Specific Core Loss	IEC 60404-8-4
47	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Specific Core Loss	IEC 60404-8-7
48	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Specific Core Loss	IS 15391
49	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Specific Core Loss	IS 3024
50	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Specific Core Loss	IS 648
51	ELECTRICAL- MAGNETIC MATERIALS	Magnetic sheets/coils/cores	Specific Core Loss	IS 649
52	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Specific Core loss by Ring Pack Tester	IEC 60404-6
53	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Specific Core loss by Single Sheet Tester	IEC 60404-3

SCOPE OF ACCREDITATION

Laboratory Name : THYSSENKRUPP ELECTRICAL STEEL INDIA PRIVATE LIMITED TESTING LABORATORY, AT POST GONDE, VILLAGE WADIVARHE, NASHIK, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8228 **Page No** 4 of 5

Validity 23/11/2021 to 22/11/2023 **Last Amended on** -

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
54	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Specific Core loss test after Aging at 225 deg. Cent. or at defined temperature	IEC 60404-8-4
55	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Specific Core loss test after Aging at 225 deg. Cent. or at defined temperature	IEC 60404-8-7
56	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Specific Core loss test after Aging at 225 deg. Cent. or at defined temperature	IS 3024
57	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Specific Core loss test after Aging at 225 deg. Cent. or at defined temperature	IS 648
58	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Specific Core loss test after Aging at 225 deg. Cent. or at defined temperature	IS 649
59	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Stacking Factor	IEC 60404-13
60	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Stacking Factor	IS 3024
61	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Stacking Factor	IS 648
62	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Stacking Factor	IS 649
63	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Surface Insulation Resistivity	ASTM A717
64	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Surface Insulation Resistivity	IEC 60404-11
65	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Surface Insulation Resistivity	IS 3024
66	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Surface Insulation Resistivity	IS 648
67	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Surface Insulation Resistivity	IS 649
68	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Thermal Effect on Coating	IEC 60404-12
69	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Thermal Effect on Coating	IS 3024
70	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Thermal Effect on Coating	IS 648

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	THYSSENKRUPP ELECTRICAL STEEL INDIA PRIVATE LIMITED TESTING LABORATORY, AT POST GONDE, VILLAGE WADIVARHE, NASHIK, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8228	**Page No**	5 of 5
Validity	23/11/2021 to 22/11/2023	**Last Amended on**	-

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
71	ELECTRICAL- MAGNETIC MATERIALS	Magnetic Sheets/Coils/Cores	Thermal Effect on Coating	IS 649