



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

1 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Purified water (Drugs and Pharmaceuticals)	E.coli	USP:42 -NF-37- Chapter 1231 :
2	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Purified water (Drugs and Pharmaceuticals)	Pseudomonas aeruginosa	USP:42 -NF-37- Chapter 1231 :
3	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Purified water (Drugs and Pharmaceuticals)	Salmonella	USP:42 -NF-37- Chapter 1231
4	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Purified water (Drugs and Pharmaceuticals)	Standard Plate Count /colony count	USP:42 -NF-37- Chapter 1231
5	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Purified water (Drugs and Pharmaceuticals)	Staphylococcus aureus	USP:42 -NF-37- Chapter 1231 :
6	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Bioburden Monitoring of TYMC	USP : 42 -NF-37-Chapter 1115:
7	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Bioburden Monitoring TAMC	USP : 42 -NF-37-Chapter 1115:
8	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Candida albicans	BP; Appendix, XVIB:
9	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Candida albicans	IP 2014 Appendix 9.4, 2.2.9
10	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Candida albicans	USP :42-NF-37-Chapter 62
11	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Enterobacteriaceae& other gram negative bacteria	BP; Appendix, XVIB:
12	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Enterobacteriaceae& other gram negative bacteria	IP 2014 Appendix 9.4, 2.2.9
13	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Enterobacteriaceae& other gram negative bacteria	USP :42-NF-37-Chapter 62
14	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Escherichia coli	BP; Appendix, XVIB:
15	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Escherichia coli	IP 2014 Appendix 9.4, 2.2.9
16	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Escherichia coli	USP :42-NF-37-Chapter 62
17	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Pseudomonas aeruginosa	BP; Appendix, XVIB:
18	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Pseudomonas aeruginosa	IP 2014 Appendix 9.4, 2.2.9 :



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

2 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
19	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Pseudomonas aeruginosa	USP :42-NF-37-Chapter 62:
20	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Salmonella	BP; Appendix, XVII:
21	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Salmonella	IP 2014 Appendix 9.4, 2.2.9
22	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Salmonella	USP :42-NF-37-Chapter 62
23	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Staphylococcus aureus	BP; Appendix, XVII:
24	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Staphylococcus aureus	IP 2014 Appendix 9.4, 2.2.9
25	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Staphylococcus aureus	USP :42-NF-37-Chapter 62:
26	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Total aerobic microbial count	USP: 42 -NF-37- Chapter 61
27	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Total aerobic microbial count	BP: Appendix XVII
28	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Total aerobic microbial count	IP 2014: Appendix 9.4, 2.2.9
29	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Total Yeast & Mold count	BP: Appendix XVII :
30	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Total Yeast & Mold count	IP 2014: Appendix 9.4, 2.2.9
31	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Raw Materials, Active Pharmaceutical Ingredient, Finished products	Total Yeast & Mold count	USP: 42 -NF-37- Chapter 61
32	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Syrups, Injections, Suspensions, Oral Products, Antacids	Effectiveness of Antimicrobial preservatives	BP Appendix XVII:
33	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Syrups, Injections, Suspensions, Oral Products, Antacids	Effectiveness of Antimicrobial preservatives	IP:2014 Appendix 9.2, 2.2.2 :
34	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Syrups, Injections, Suspensions, Oral Products, Antacids	Effectiveness of Antimicrobial preservatives	ISO 20776-1:
35	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Syrups, Injections, Suspensions, Oral Products, Antacids	Effectiveness of Antimicrobial preservatives	USP:42-NF-37- Chapter 51:
36	BIOLOGICAL- DRUGS AND PHARMACEUTICALS	Water for Injection (Drugs and Pharmaceuticals)	Standard Plate Count /colony count	USP:42 -NF-37- Chapter 1231



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017	Page No	3 of 57
Certificate Number	TC-9047	Last Amended on	28/12/2020
Validity	15/10/2020 to 14/10/2022		

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
37	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Bio Protective coverall	Cleanliness-microbial (CFU/100 cm ²)	ISO 11737-1 : (Spec : IS 17410 (5.2 vi):2020)
38	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Bio Protective coverall	Viral resistance	IS 16545 : (Spec : IS 17410 (5.2 v):2020)
39	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	FACE MASK	Biocompatibility of medical masks	EN 14683
40	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	FACE MASK	Microbial cleanliness	EN 14683
41	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Hospital ware, Medical devices, Surgical items, injectable	Sterility Test	BP: Appendix XVIA
42	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Hospital ware, Medical devices, Surgical items, injectable	Sterility Test	IP 2014 Appendix 9.5
43	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Hospital ware, Medical devices, Surgical items, injectable	Sterility Test	USP 42 - NF- 37, Chapter 71:
44	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Medical Accessories and Surgical Products	Microbial cleanliness	EN 11737-1
45	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Surgical Face Masks Medical Textile	Bacterial Filtration efficiency,Percent,min	IS 16289 (4.2 (i))
46	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Surgical Face Masks Medical Textile	Bacterial Filtration efficiency,Percent,min	EN 14683 (4.2 (i))
47	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Surgical Face Masks.	Medical Textiles - Evaluation of the Bacterial Filtration Efficiency of Surgical Face Masks.	ASTM F 2100
48	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Surgical Face Masks.	Medical Textiles - Evaluation of the Bacterial Filtration Efficiency of Surgical Face Masks.	ASTM F2101
49	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Surgical Face Masks.	Medical Textiles - Evaluation of the Bacterial Filtration Efficiency of Surgical Face Masks.	EN 14683



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

4 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
50	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Surgical Face Masks.	Medical Textiles - Evaluation of the Bacterial Filtration Efficiency of Surgical Face Masks.	IS 16288
51	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Surgical Gown, Surgical Drapes Medical Textile	Cleanliness-microbial (CFU/100 cm ²)	ISO 11737-1 (Spec : IS 17334 (7.1 viii):2019)
52	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Surgical Gown, Surgical Drapes Medical Textile	Cytotoxicity, Irritation and skin sensitization	IS/ISO 10993-5 : 2009 & IS/ISO 10993-10:2013 (Spec : IS 17334 (7.1 xi):2019)
53	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Surgical Gown, Surgical Drapes Medical Textile	Moisture vapour transmission rate (Max.)	ISO 11092 (Spec : IS 17334 :2019)
54	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Surgical Gown, Surgical Drapes Medical Textile	Resistance to microbial penetration — Dry (CFU)	IS 17334 (7.1 ix)
55	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Surgical Gown, Surgical Drapes Medical Textile	Resistance to microbial penetration — Wet (IB)	IS 16549 (Spec : IS 17334 (7.1 x):2019)
56	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Surgical Gown, Surgical Drapes Medical Textile	Viral resistance	IS 16545 (Spec : IS 17334 (7.1 iv):2019)
57	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Surgical Gown, Surgical Drapes Medical Textile	Cleanliness - Microbial (CFU/100 cm ²)	ISO 11737-1 (Spec : IS 17334 (7.1 viii):2019)
58	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Surgical Gown, Surgical Drapes Medical Textile	Resistance to Microbial penetration - Dry (CFU)	IS 16548 (Spec : IS 17334 (7.1 ix):2019)
59	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Surgical Gown, Surgical Drapes Medical Textile	Resistance to Microbial penetration - Wet (IB)	IS 16549 (Spec : IS 17334 (7.1 X):2019)
60	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Surgical Gown, Surgical Drapes, Medical Textile	Cleanliness - Microbial (CFU/100 cm ²) (7.1 viii)	EN 11737-1
61	BIOLOGICAL- MEDICAL ACCESSORIES & SURGICAL PRODUCTS	Textile and Textile products	Carbon Dioxide content of the Inhalation Air	IS 9473 (Annex A6)
62	BIOLOGICAL- WATER	Drinking water - Piped and Borewell	Coliforms	APHA 9221 B 9221 C, 9221 E, APHA 23rd Edition
63	BIOLOGICAL- WATER	Drinking water - Piped and Borewell	Coliforms	IS 15185
64	BIOLOGICAL- WATER	Drinking water - Piped and Borewell	Coliforms	IS: 1622- 1981 (Reaffirmed)



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

5 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
65	BIOLOGICAL- WATER	Drinking water - Piped and Borewell	Coliforms	ISO 9308-1
66	BIOLOGICAL- WATER	Drinking water - Piped and Borewell	E.coli	9221 B, 9221 E APHA 23rd Edition
67	BIOLOGICAL- WATER	Drinking water - Piped and Borewell	E.coli	IS 1622- 1981 Reaffirmed
68	BIOLOGICAL- WATER	Drinking water - Piped and Borewell	E.coli and coliforms by membrane filtration technique	IS 15185
69	BIOLOGICAL- WATER	Drinking water - Piped and Borewell	E.coli and coliforms by membrane filtration technique	ISO 9308-1
70	BIOLOGICAL- WATER	Drinking water - Piped and Borewell	Standard Plate Count	IS: 1622- 1981 Reaffirmed
71	BIOLOGICAL- WATER	Drinking water Specification	E.coli	IS 10500
72	BIOLOGICAL- WATER	Water for Processed Food Industry	Proteolytic & Lipolytic count	IS 4251:1967 Reaffirmed (Appendix A)
73	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Cadmium	MS-0042224 Testing of Metals in Al-Alloys by ICP-MS
74	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	MS-0042224 Testing of Metals in Al-Alloys by ICP-MS
75	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	MS-0042224 Testing of Metals in Al-Alloys by ICP-MS
76	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	MS-0042224 Testing of Metals in Al-Alloys by ICP-MS
77	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	MS-0042224 Testing of Metals in Al-Alloys by ICP-MS
78	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	MS-0042224 Testing of Metals in Al-Alloys by ICP-MS
79	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	MS-0042224 Testing of Metals in Al-Alloys by ICP-MS
80	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Bismuth	MS No.0042223 Testing of Metals in Copper and its Alloys by ICP-MS
81	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	MS No.0042223 Testing of Metals in Copper and its Alloys by ICP-MS
82	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	MS No.0042223 Testing of Metals in Copper and its Alloys by ICP-MS
83	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	MS No.0042223 Testing of Metals in Copper and its Alloys by ICP-MS



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

6 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
84	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	MS No.0042223 Testing of Metals in Copper and its Alloys by ICP-MS
85	CHEMICAL- METALS & ALLOYS	Copper and its alloys	Arsenic	MS No.0042223 Testing of Metals in Copper and its Alloys by ICP-MS: 2020
86	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	MS-0042222 Testing of Metals in Steel and Stainless Steel Alloys by ICP-MS
87	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	MS-0042222 Testing of Metals in Steel and Stainless Steel Alloys by ICP-MS
88	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	MS-0042222 Testing of Metals in Steel and Stainless Steel Alloys by ICP-MS
89	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	MS-0042222 Testing of Metals in Steel and Stainless Steel Alloys by ICP-MS
90	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	MS-0042222 Testing of Metals in Steel and Stainless Steel Alloys by ICP-MS
91	CHEMICAL- METALS & ALLOYS	Stainless steel	Vanadium	MS-0042222 Testing of Metals in Steel and Stainless Steel Alloys by ICP-MS
92	CHEMICAL- METALS & ALLOYS	Steel	Copper	MS-0042222 Testing of Metals in Steel and Stainless Steel Alloys by ICP-MS
93	CHEMICAL- METALS & ALLOYS	Steel	Manganese	MS-0042222 Testing of Metals in Steel and Stainless Steel Alloys by ICP-MS
94	CHEMICAL- METALS & ALLOYS	Steel	Molybdenum	MS-0042222 Testing of Metals in Steel and Stainless Steel Alloys by ICP-MS
95	CHEMICAL- METALS & ALLOYS	Steel	Nickel	MS-0042222 Testing of Metals in Steel and Stainless Steel Alloys by ICP-MS
96	CHEMICAL- METALS & ALLOYS	Steel	Phosphorous	MS-0042222 Testing of Metals in Steel and Stainless Steel Alloys by ICP-MS
97	CHEMICAL- METALS & ALLOYS	Steel	Vanadium	MS-0042222 Testing of Metals in Steel and Stainless Steel Alloys by ICP-MS



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

7 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
98	CHEMICAL- POLLUTION & ENVIRONMENT	Pollution & Effluents : [Waste Water / Effluent water]	Cadmium(as Cd)	IS 3025 : P65
99	CHEMICAL- POLLUTION & ENVIRONMENT	Pollution & Effluents : [Waste Water / Effluent water]	Copper (as Cu)	IS 3025 : P65
100	CHEMICAL- POLLUTION & ENVIRONMENT	Pollution & Effluents : [Waste Water / Effluent water]	Iron as Fe	APHA 3125 B, 23rd edition
101	CHEMICAL- POLLUTION & ENVIRONMENT	Pollution & Effluents : [Waste Water / Effluent water]	Lead (as Pb)	IS 3025 : P65
102	CHEMICAL- POLLUTION & ENVIRONMENT	Pollution & Effluents : [Waste Water / Effluent water]	Manganese(as Mn)	IS 3025 : P65
103	CHEMICAL- POLLUTION & ENVIRONMENT	Pollution & Effluents : [Waste Water / Effluent water]	Nickel(as Ni)	IS 3025 : P65
104	CHEMICAL- POLLUTION & ENVIRONMENT	Pollution & Effluents : [Waste Water / Effluent water]	Odour	IS 3025 (Part 5)
105	CHEMICAL- POLLUTION & ENVIRONMENT	Pollution & Effluents : [Waste Water / Effluent water]	pH	IS 3025 (Part 11)
106	CHEMICAL- POLLUTION & ENVIRONMENT	Pollution & Effluents : [Waste Water / Effluent water]	Potassium (as K)	IS 3025 : P65
107	CHEMICAL- POLLUTION & ENVIRONMENT	Pollution & Effluents : [Waste Water / Effluent water]	Sodium (as Na)	IS 3025 : P65
108	CHEMICAL- POLLUTION & ENVIRONMENT	Pollution & Effluents : [Waste Water / Effluent water]	Suspended Solids	IS-3025 (Part 17)
109	CHEMICAL- POLLUTION & ENVIRONMENT	Pollution & Effluents : [Waste Water / Effluent water]	Total Dissolved Solids	IS-3025 (Part 16)
110	CHEMICAL- POLLUTION & ENVIRONMENT	Pollution & Effluents : [Waste Water / Effluent water]	Zinc (as Zn)	IS 3025 : P65
111	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Alkalinity (as HCO ₃)	APHA 23rd Edition, 2320 B
112	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Alkalinity (as HCO ₃)	IS 3025 (Part 23)
113	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Aluminium	APHA 23rd Edition, 3125 B
114	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Aluminium	IS 3025 : P65
115	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Antimony	IS 3025 : P65
116	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Arsenic	APHA 3125 B, 23rd edition



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

8 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
117	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Arsenic	IS 3025 : P65
118	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Barium (as Ba)	IS 3025 : P65
119	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Boron	APHA 3125 B, 23rd edition
120	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Cadmium (as Cd)	IS 3025 : P65
121	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Calcium (as Ca)	IS 3025 : P65
122	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Chromium (as Cr)	IS 3025 : P65
123	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Copper (as Cu)	IS 3025 : P65
124	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Iron (as Fe)	IS 3025 : P65
125	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Lead (as Pb)	IS 3025 : P65
126	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Magnesium (as Mg),	IS 3025-Part 46
127	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Magnesium (as Mg),	IS 3025 : P65
128	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Manganese (as Mn)	IS 3025 : P65
129	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Nickel (as Ni)	IS 3025 : P65
130	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Odour	APHA 23rd Edition, 2150 A
131	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Odour	IS 3025 (Part 5):
132	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	pH value	APHA 23rd Edition, 4500H
133	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	pH value	IS 3025 (Part 11):
134	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Selenium (as Se)	IS 3025 : P65
135	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Silver	APHA 3125 B, 23rd edition



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

9 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
136	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Silver	IS 3025,P-65
137	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Sodium (as Na)	IS 3025 : P65
138	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Total dissolved solids	APHA 23rd Edition, 2540 B
139	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Total dissolved solids	IS 3025 (Part 16):
140	CHEMICAL- POLLUTION & ENVIRONMENT	Water:[Drinking Water/Packaged drinking water/Mineral water/ Borwell water/Raw water]	Zinc (as Zn)	IS 3025 : P65
141	ELECTRONICS- EMC TEST FACILITY	All Electrical and Electronic Products	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 61000-4-8 :2009
142	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 61000-4-6:2014
143	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 61000-4-6:2013
144	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IS 14700 (Part 4 /SecVI):2016
145	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	IEC 61000-4-4:2012
146	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	IS 14700 (Part 4/Sec IV):2008
147	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Electrical Fast Transient (EFT)/ Burst Immunity Test (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	EN 61000-4-4:2012



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

10 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
148	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 61000-4-2:2009
149	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 61000-4-2:2008
150	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Electrostatic Discharge Immunity Test (2kV to 30kV)	IS 14700 (Part 4/ Sec 2):2018
151	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Harmonic Current Emission (Equipment input current =16 A per phase, Up to 40th Harmonics)	IEC 61000-3-2:2018+A1:2020
152	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Harmonic Current Emission (Equipment with rated current>16 = 32 A)	IEC 61000-3-12:2011
153	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	IS 14700 (Part 3/Sec 2):2018
154	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Harmonic Current Emission (Equipment input current =16 A per phase, Up to 40th Harmonics)	EN 61000-3-2:2019
155	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 61000-4-5: 2014+A1:2017
156	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 61000-4-5:2014+A1:2017
157	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IS 14700 (Part 4 /SecV): 2008
158	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IS 14700 (Part 4 /SecV):2012
159	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Impulse magnetic field immunity test (1A/m to 1200A/m)	EN/IEC 61000-4-9:2016
160	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic product	Radiated susceptibility Test	IEC 61000 (Part 4) (sec 3):2020
161	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Radiated Susceptibility Test (20MHz to 6GHz, (100V/m))	IEC 60730-1: 2013 + A1:2015+A2:2020
162	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Voltage dips, short interruption & voltage variations Immunity (>16A (3Ø, 400V AC))	EN 61000-4-34:2007+A1:2009 & IEC 61000-4-34:2005+A1:2009



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 11 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
163	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests (upto DC 600V)	EN/IEC 61000-4-29:2000
164	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Voltage Fluctuation & Flicker Test	IS 14700 (Part 3/Sec 2):2018
165	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Voltage Fluctuation & Flicker Test (Equipment input current =16 A per phase)	IEC 61000-3-3:2013+A1:2019
166	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Voltage Fluctuation & Flicker Test (Equipment input current =16 A per phase)	EN 61000-3-3:2013+A1:2019
167	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product	Voltage Fluctuation & Flicker Test (Equipment with rated current >16 = 32 A)	IEC 61000-3-11:2017
168	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product Industrial, scientific and medical equipment	Conducted Emission Test (Up to 200A)	CISPR 11:2015+A1: 2016+ A2:2019
169	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product Industrial, scientific and medical equipment	Conducted Emission Test (Up to 200A)	EN 55011: 2016+A1:2017, EN 55011:2016+A11:2020
170	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product Industrial, scientific and medical equipment	Radiated Emission Test	CISPR 11:2015, A1: 2016+ A2:2019
171	ELECTRONICS- EMC TEST FACILITY	Any Electrical / Electronic Product Industrial, scientific and medical equipment	Radiated Emission Test	EN 55011: 2016+A1:2017, EN 55011:2016+A11:2020
172	ELECTRONICS- EMC TEST FACILITY	Any electrical/ electronic product	Radiated susceptibility test	EN 60730 (Part 1):2016 +A1:2019
173	ELECTRONICS- EMC TEST FACILITY	Any Electrical/ Electronic product	Radiated susceptibility Test	IEC 60730 -1:2013+A1:2015+A2:2020
174	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Click test (Up to 200A)	EN 60730-1:2016+A1:2019
175	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Click test (Up to 200A)	IEC 60730-1: 2013 + A1:2015+A2:2020
176	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Click test (Up to 200A)	IEC 60730-2-9 : 2015+A1:2018+A2:2020
177	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Conducted Emission Test (Up to 200A)	EN 60730-1:2016+A1:2019
178	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Conducted Emission Test (Up to 200A)	IEC 60730-2-9 : 2015+A1:2018+A2:2020
179	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Conducted Emission Test (Up to 200A)	IEC 60730-1: 2013 + A1:2015+A2:2020



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 12 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
180	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 60730-1:2016+A1:2019
181	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 60730-1: 2013 + A1:2015+A2:2020
182	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 60730-2-9 : 2015+A1:2018+A2:2020
183	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	EN 60730-1:2016+A1:2019
184	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	IEC 60730-1: 2013 + A1:2015+A2:2020
185	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	IEC 60730-2-9 : 2015+A1:2018+A2:2020
186	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 60730-1:2016+A1:2019
187	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 60730-1: 2013 + A1:2015+A2:2020
188	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 60730-2-9 : 2015+A1:2018+A2:2020
189	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	EN 60730-1:2016+A1:2019
190	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	IEC 60730-1: 2013 + A1:2015+A2:2020
191	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	IEC 60730-2-9 : 2015+A1:2018+A2:2020



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 13 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
192	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 60730-1:2016+A1:2019
193	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 60730-1: 2013 + A1:2015+A2:2020
194	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 60730-1:2016+A1:2019
195	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 60730-2-9 : 2015+A1:2018+A2:2020
196	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Radiated Emission Test	EN 60730-1:2016+A1:2019
197	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Radiated Emission Test	IEC 60730-1: 2013 + A1:2015+A2:2020
198	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Radiated Emission Test	IEC 60730-2-9 : 2015+A1:2018+A2:2020
199	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Radiated susceptibility Test	IEC 60730-2-9:2015+A1:2018+A2: 2020
200	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Radiated susceptibility test	IS 14700 (Part 4) (Sec3):2008
201	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Radiated susceptibility test (20 MHz to 6 GHz, (100 V/m))	MS-0032021:2019
202	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Radiated Susceptibility Test (20MHz to 6GHz, (100V/m))	MS-0032021:2019
203	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 60730-2-9 : 2015+A1:2018+A2:2020
204	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 60730-1:2016+A1:2019
205	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 60730-1: 2013 + A1:2015+A2:2020
206	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Voltage Fluctuation & Flicker Test	EN 60730-1:2016+A1:2019
207	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Voltage Fluctuation & Flicker Test	IEC 60730-1: 2013 + A1:2015+A2:2020
208	ELECTRONICS- EMC TEST FACILITY	Automatic electrical controls for household	Voltage Fluctuation & Flicker Test	IEC 60730-2-9 : 2015+A1:2018+A2:2020



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

14 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
209	ELECTRONICS- EMC TEST FACILITY	Automotive Electronic Sub Assembly (ESA) and vehicle	Radiated Emission Test	AIS-004 (Part 3):2009
210	ELECTRONICS- EMC TEST FACILITY	Automotive Electronic Sub Assembly (ESA) and vehicle	Radiated Emission Test	AIS-004 (Part 3):A1:2015
211	ELECTRONICS- EMC TEST FACILITY	Automotive Electronic Sub Assembly (ESA) and vehicle	Radiated Emission Test	CISPR 25:2016
212	ELECTRONICS- EMC TEST FACILITY	Automotive Electronic Sub Assembly (ESA) and vehicle	Radiated Emission Test	ECE R-10 Rev 05:2014
213	ELECTRONICS- EMC TEST FACILITY	Automotive Electronic Sub Assembly (ESA) and vehicle	Radiated Emission Test	EN 55025:2017
214	ELECTRONICS- EMC TEST FACILITY	Automotive Electronic Sub Assembly (ESA) and vehicle	Radiated Emission Test	ES96200:2018
215	ELECTRONICS- EMC TEST FACILITY	Automotive Electronic Sub Assembly (ESA) and vehicle	Radiated Emission Test	MS-0032022:2019
216	ELECTRONICS- EMC TEST FACILITY	Automotive Electronic Sub Assembly (ESA) and vehicle	Radiated Emission Test	SAE J1113-41:2000
217	ELECTRONICS- EMC TEST FACILITY	Automotive Electronic Sub Assembly (ESA) and vehicle	Radiated Emission Test	TST/TS/WI/257Clause 3.0 :2018
218	ELECTRONICS- EMC TEST FACILITY	Automotive Electronic Sub Assembly (ESA) and vehicle	Radiated Susceptibility Test (20MHz to 6GHz, (100V/m))	MS-0032021:2019
219	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Conducted Emission Test (Up to 800A)	CISPR 25:2016
220	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Conducted Emission Test (Up to 800A)	ECE R-10 Rev 05 :2014
221	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Conducted Emission Test (Up to 800A)	EN 55025:2017
222	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Conducted Emission Test (Up to 800A)	ES96200:2018
223	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Conducted Emission Test (Up to 800A)	TST/TS/WI/257 issue 07:2007
224	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Conducted RF Immunity Test(BCI) (4 kHz - 400 MHz)	AIS-004 (Part 3):2019
225	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Conducted RF Immunity Test(BCI) (4 kHz - 400 MHz)	ISO 11452-4 (Edition 4):2019
226	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	ECE R-10 Rev 5 : 2014



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

15 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
227	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Voltage Fluctuation & Flicker Test	ECE R-10 Rev 05 :2014
228	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Voltage Fluctuation & Flicker Test	EN 61800-3:2018
229	ELECTRONICS- EMC TEST FACILITY	Automotive Electronic Sub	Radiated susceptibility test	ISO 11451 (Part 1) :2005+A1:2008
230	ELECTRONICS- EMC TEST FACILITY	Automotive Electronic Sub Assembly (ESA)	Electrostatic Discharge Immunity Test (2kV to 30kV)	ISO 10605:2008
231	ELECTRONICS- EMC TEST FACILITY	Automotive Electronic Sub Assembly (ESA)	Electrostatic Discharge Immunity Test (2kV to 30kV)	SAE J1113:2018
232	ELECTRONICS- EMC TEST FACILITY	Automotive electronic sub assembly (ESA) and vehicle	Radiated susceptibility test	AIS -004 (Part 3) : AMD:2015
233	ELECTRONICS- EMC TEST FACILITY	Automotive electronic sub assembly (ESA) and vehicle	Radiated susceptibility test	ECE R-10 Rev 5:2014
234	ELECTRONICS- EMC TEST FACILITY	Automotive electronic sub assembly (ESA) and vehicle	Radiated susceptibility test	ES96200:2018
235	ELECTRONICS- EMC TEST FACILITY	Automotive electronic sub assembly (ESA) and vehicle	Radiated susceptibility test	ISO 11451 (Part 2) :2005+A1:2008
236	ELECTRONICS- EMC TEST FACILITY	Automotive Electronic sub assembly (ESA) and vehicle	Radiated susceptibility test	ISO 11452 (Part 2) :2004
237	ELECTRONICS- EMC TEST FACILITY	Automotive Electronic sub assembly (ESA) and vehicle	Radiated susceptibility test	SAE J1113-21:D191:2005
238	ELECTRONICS- EMC TEST FACILITY	Automotive electronic sub assembly (ESA) and vehicle	Radiated susceptibility test	TST/TS/WI/257 clause 3.0:2018
239	ELECTRONICS- EMC TEST FACILITY	Automotive electronic sub assembly (ESA) and vehicle	Radiated susceptibility test (20 MHz to 6 GHz, (100 V/m))	MS-0032021:2019
240	ELECTRONICS- EMC TEST FACILITY	Digital Equipment	Conducted Emission Test (Up to 200A)	FCC (Part 15) Subpart B: 2020
241	ELECTRONICS- EMC TEST FACILITY	Digital Equipment	Conducted Emission Test (Up to 200A)	FCC (Part 18):2019
242	ELECTRONICS- EMC TEST FACILITY	Electric vehicle conductive charging system	Conducted Emission Test (Up to 200A)	IEC 61851-21-2:2018
243	ELECTRONICS- EMC TEST FACILITY	Electric vehicle conductive charging system	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	IEC 61851-21-2:2018
244	ELECTRONICS- EMC TEST FACILITY	Electric vehicle conductive charging system	Voltage Fluctuation & Flicker Test	IEC 61851-21-2:2018
245	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated susceptibility test	IEC 60255 (Part 26) :2013



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 16 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
246	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 50121-3-2: 2006+A1:2019
247	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 50121-4:2016+A1:2019
248	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 50121-5:2017+A1:2019
249	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 50155:2017
250	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 60255-1:2010
251	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 60945:2002
252	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 61131-2:2007
253	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 61131-2:2017
254	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 61439-1:2011
255	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 61800-3:2018
256	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 60255-1:2009
257	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 60255-26:2013
258	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 60571:2012
259	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 60945:2002



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 17 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
260	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 61131-2:2017
261	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 61439-1:2020
262	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 61800-3:2017
263	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 62236-3-2:2018
264	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated Emission Test	EN 50121-2:2017
265	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated Emission Test	EN 50121-3-1:2017+A1:2019
266	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated Emission Test	EN 50121-3-2:2016+A1:2019
267	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated Emission Test	EN 50121-4:2016+A1:2019
268	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated Emission Test	EN 50121-5:2017+A1:2019
269	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated Emission Test	EN 50155:2017
270	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated Emission Test	EN 60255-1:2010
271	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated Emission Test	EN 61131-2:2007
272	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated Emission Test	EN 61439-1:2011
273	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated Emission Test	EN 61800-3:2018
274	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated Emission Test	IEC 60255-1:2009
275	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated Emission Test	IEC 60255-26:2013
276	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated Emission Test	IEC 60571:2012



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 18 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
277	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated Emission Test	IEC 60945:2002
278	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated Emission Test	IEC 61131-2:2017
279	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated Emission Test	IEC 61439-1:2020
280	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated Emission Test	IEC 61800-3:2017
281	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated Emission Test	IEC 62236-3-2:2018
282	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated Susceptibility Test (20MHz to 6GHz, (100V/m))	IEC 61131-2:2017
283	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 50121-3-2: 2006+A1:2019
284	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 50121-4:2016+A1:2019
285	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 50121-5:2017+A1:2019
286	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 50155: 2017
287	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 60255-1: 2010
288	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 60945: 2002
289	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 61131-2: 2007
290	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 61439-1: 2011
291	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 61439-1:2011



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 19 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
292	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 61800-3:2018
293	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 60255-1: 2009
294	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 60255-26:2013
295	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 60571: 2012
296	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 60945: 2002
297	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 61131-2:2017
298	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 61439-1: 2020
299	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 61439-1:2020
300	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 61800-3: 2017
301	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 61800-3:2017
302	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 62236-3-2: 2018
303	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated susceptibility test	EN 60255 (Part 1):2010
304	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated susceptibility test	EN 60945:2002
305	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated susceptibility test	EN 61131 (Part 2):2007
306	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated susceptibility test	EN 61439 (Part 1):2011



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 20 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
307	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Radiated susceptibility test	IEC 61439 (Part 1):2020
308	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 61000-4-34:2007+A1:2009
309	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 61000-4-34:2007+A1:2009 & IEC 61000-4-34:2005+A1:2009
310	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 61439-1:2011
311	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 61000-4-34:2005+A1:2009
312	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 60255-1:2010
313	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 60945:2002
314	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 61131-2:2007
315	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 61131-2:2017
316	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 61800-3:2018
317	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 60255-1:2009
318	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 60255-26:2013
319	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 60945:2002
320	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 61131-2:2017



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 21 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
321	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 61439-1:2020
322	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipment's	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 61800-3:2017
323	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Product	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 60255-1:2010
324	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Product	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 610004-8
325	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Product	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 61131-2:2007
326	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Product	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 61439-1:2011
327	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Product	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 60255-1:2009
328	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Product	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 60255-26:2013
329	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Product	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 60730-1: 2013 + A1:2015+A2:2020
330	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Product	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 61000-4-8:2009
331	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Product	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 61131-2:2017
332	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Product	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 61439-1:2020
333	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Product	Magnetic Field Immunity Test (1A/m to 1200A/m)	IS 14700 (Part 4 /Sec8):2008
334	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Product	Voltage dips, short interruption & voltage variations Immunity (EN 61000-4-11: 2020
335	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Product	Voltage dips, short interruption & voltage variations Immunity (IEC 61000-4-11:2020
336	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Product	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IS 14700 (Part 4 /Sec11):2015



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 22 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
337	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	EN 50121-3-2: 2006+A1:2019
338	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	EN 50121-4:2016+A1:2019
339	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	EN 50121-5:2017+A1:2019
340	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	EN 50155:2017
341	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	EN 60255-1:2010
342	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	EN 60945:2002



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 23 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
343	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	EN 61131-2:2007
344	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	EN 61439-1:2011
345	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	EN 61800-3:2018
346	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	IEC 60255-1:2009
347	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	IEC 60255-26:2013
348	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	IEC 60571:2012



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 24 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
349	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	IEC 60945:2002
350	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	IEC 61131-2:2017
351	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	IEC 61439-1:2020
352	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	IEC 61800-3:2017
353	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	IEC 62236-3-2:2018
354	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Conducted Emission Test (Up to 200A)	EN 50121-3-2: 2006+A1:2019
355	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Conducted Emission Test (Up to 200A)	EN 50121-4:2016+A1:2019
356	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Conducted Emission Test (Up to 200A)	EN 50121-5:2017+A1:2019
357	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Conducted Emission Test (Up to 200A)	EN 60255-1:2010



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

25 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
358	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Conducted Emission Test (Up to 200A)	EN 60945:2002
359	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Conducted Emission Test (Up to 200A)	EN 61131-2:2007
360	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Conducted Emission Test (Up to 200A)	EN 61439-1:2011
361	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Conducted Emission Test (Up to 200A)	EN 61800-3:2018
362	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Conducted Emission Test (Up to 200A)	IEC 60255-1:2009
363	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Conducted Emission Test (Up to 200A)	IEC 60255-26:2013
364	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Conducted Emission Test (Up to 200A)	IEC 60571:2012
365	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Conducted Emission Test (Up to 200A)	IEC 60945:2002
366	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Conducted Emission Test (Up to 200A)	IEC 61131-2:2017
367	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Conducted Emission Test (Up to 200A)	IEC 61439-1:2020
368	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Conducted Emission Test (Up to 200A)	IEC 61800-3:2017
369	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Conducted Emission Test (Up to 200A)	IEC 62236-3-2:2018
370	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Conducted Emission Test (Up to 800A)	EN 50155:2017
371	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 50121-3-2: 2006+A1:2019
372	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 50121-4:2016+A1:2019
373	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 50121-5:2017+A1:2019
374	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 50155:2017
375	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 60255-1:2010
376	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 60945:2002



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

26 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
377	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 61131-2:2007
378	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 61131-2:2017
379	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 61439-1:2011
380	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 61800-3:2018
381	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 60255-1:2009
382	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 60255-26:2013
383	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 60571:2012
384	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 60945:2002
385	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 61131-2:2017
386	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 61439-1:2020
387	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 61800-3:2017
388	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 62236-3-2:2018
389	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	EN 61800-3:2018
390	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	IEC 61800-3:2017
391	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Radiated susceptibility test	EN 61131 (Part 2):2007
392	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Radiated susceptibility test	EN 61800 (Part 3):2018
393	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Radiated susceptibility test	IEC 60255 (Part 1):2009
394	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipment's	Radiated susceptibility test	IEC 61800 (Part 3):2017
395	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Voltage Fluctuation & Flicker Test	IEC 61800-3:2017



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

27 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
396	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted Emission Test (Up to 200A)	EN 61326-1:2013
397	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted Emission Test (Up to 200A)	EN 61326-2-1:2013
398	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted Emission Test (Up to 200A)	EN 61326-2-2:2013
399	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted Emission Test (Up to 200A)	EN 61326-2-3:2013
400	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted Emission Test (Up to 200A)	EN 61326-2-4:2013
401	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted Emission Test (Up to 200A)	EN 61326-2-5:2013
402	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted Emission Test (Up to 200A)	EN 61326-2-6:2013
403	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted Emission Test (Up to 200A)	IEC 61326-1:2020
404	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted Emission Test (Up to 200A)	IEC 61326-2-1:2020
405	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted Emission Test (Up to 200A)	IEC 61326-2-2:2012
406	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted Emission Test (Up to 200A)	IEC 61326-2-3 :2020
407	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted Emission Test (Up to 200A)	IEC 61326-2-4:2020
408	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted Emission Test (Up to 200A)	IEC 61326-2-5:2020
409	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted Emission Test (Up to 200A)	IEC 61326-2-6:2020
410	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 61326-1:2013
411	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 61326-2-1 :2013
412	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 61326-2-2 :2013



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 28 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
413	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 61326-2-3 :2013
414	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 61326-2-3:2013
415	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 61326-2-4:2013
416	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 61326-2-5:2013
417	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 61326-2-6:2013
418	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 61326-1:2020
419	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 61326-2-1 :2020
420	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 61326-2-2 :2012
421	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 61326-2-3 :2020
422	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 61326-2-4:2020
423	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 61326-2-5 :2020
424	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 61326-2-6:2020
425	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	IEC 61326-2-1 :2020
426	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	IEC 61326-2-2:2012



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-9047	Page No	29 of 57
Validity	15/10/2020 to 14/10/2022	Last Amended on	28/12/2020

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
427	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	IEC 61326-2-3 :2020
428	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	IEC 61326-2-4:2020
429	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	IEC 61326-2-5 :2020
430	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	IEC 61326-2-6:2020
431	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	EN 61326-1:2013
432	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	EN 61326-2-1 :2013
433	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	EN 61326-2-2:2013
434	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	EN 61326-2-3:2013



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 30 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
435	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	EN 61326-2-4 :2013
436	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	EN 61326-2-5:2013
437	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	EN 61326-2-6:2013
438	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A)) (Rise Time Tr = 5ns @50ohm & 1kohm load Pulse Width Tw = 50ns @50ohm & (50ns -15ns to +100ns) @1kohm load)	IEC 61326-1:2020
439	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 61326-1:2013
440	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 61326-2-1:2013
441	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 61326-2-2:2013
442	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 61326-2-3 :2013
443	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 61326-2-3:2013
444	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 61326-2-4:2013
445	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 61326-2-5 :2013



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 31 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
446	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 61326-2-6:2013
447	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 61326-1:2020
448	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 61326-2-1:2020
449	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 61326-2-2:2012
450	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 61326-2-3 :2020
451	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 61326-2-4 :2020
452	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 61326-2-4:2020
453	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 61326-2-5:2020
454	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 61326-2-6:2020
455	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	EN 61326-1:2013
456	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	EN 61326-2-1 :2013
457	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	EN 61326-2-2 :2013
458	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	EN 61326-2-3:2013
459	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	EN 61326-2-4:2013
460	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	EN 61326-2-5:2013
461	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	EN 61326-2-6:2013
462	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	IEC 61326-1:2020
463	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	IEC 61326-2-1 :2020
464	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	IEC 61326-2-2 :2012



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 32 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
465	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	IEC 61326-2-3:2020
466	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	IEC 61326-2-4:2020
467	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	IEC 61326-2-5:2020
468	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	IEC 61326-2-6:2020
469	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 61326-1:2013
470	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 61326-2-1 :2013
471	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 61326-2-2 :2013
472	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 61326-2-3:2013
473	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 61326-2-4 :2013
474	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 61326-2-5 :2013
475	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 61326-2-6:2013
476	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 61326-1:2020
477	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 61326-2-1 :2020
478	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 61326-2-2 :2012
479	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 61326-2-3 :2020



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 33 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
480	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 61326-2-4 :2020
481	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 61326-2-4:2020
482	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 61326-2-5 :2020
483	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 61326-2-6:2020
484	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 61326-1:2013
485	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 61326-2-1:2013
486	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 61326-2-2 :2013
487	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 61326-2-3 :2013
488	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 61326-2-3:2013
489	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 61326-2-4:2013
490	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 61326-2-5 :2013
491	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 61326-2-6:2013
492	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 61326-1:2020
493	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 61326-2-1:2020
494	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 61326-2-2:2012
495	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 61326-2-3:2020
496	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 61326-2-4 :2020



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

34 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
497	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 61326-2-4:2020
498	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 61326-2-5 :2020
499	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 61326-2-6:2020
500	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated Emission Test	EN 61326-1:2013
501	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated Emission Test	EN 61326-2-1 :2013
502	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated Emission Test	EN 61326-2-2:2013
503	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated Emission Test	EN 61326-2-3 :2013
504	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated Emission Test	EN 61326-2-4:2013
505	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated Emission Test	EN 61326-2-5 :2013
506	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated Emission Test	EN 61326-2-6:2013
507	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated Emission Test	IEC 61326-1:2020
508	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated Emission Test	IEC 61326-2-1 :2020
509	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated Emission Test	IEC 61326-2-2:2012
510	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated Emission Test	IEC 61326-2-3 :2020
511	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated Emission Test	IEC 61326-2-4:2020
512	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated Emission Test	IEC 61326-2-5:2020
513	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated Emission Test	IEC 61326-2-6:2020
514	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated susceptibility test	EN 61326 (Part 1):2013
515	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated susceptibility test	EN 61326 (Part 2) (Sec 1):2013



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 35 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
516	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated susceptibility test	EN 61326 (Part 2) (Sec 2):2013
517	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated susceptibility test	EN 61326 (Part 2) (Sec 3):2013
518	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated susceptibility test	EN 61326 (Part 2) (Sec 4):2013
519	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated susceptibility test	EN 61326 (Part 2) (Sec 5):2013
520	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated susceptibility test	EN 61326 (Part 2) (Sec 6):2013
521	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated susceptibility test	IEC 61326 (Part 1):2020
522	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated susceptibility test	IEC 61326 (Part 2) (Sec 1):2020
523	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated susceptibility test	IEC 61326 (Part 2) (Sec 2):2012
524	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated susceptibility test	IEC 61326 (Part 2) (Sec 3):2020
525	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated susceptibility test	IEC 61326 (Part 2) (Sec 4):2020
526	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated susceptibility test	IEC 61326 (Part 2) (Sec 5):2020
527	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Radiated susceptibility test	IEC 61326 (Part 2) (Sec 6):2012
528	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 61326-1:2013
529	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 61326-2-1 :2013
530	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 61326-2-2:2013
531	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 61326-2-3 :2013
532	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 61326-2-3:2013



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

36 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
533	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 61326-2-4 :2013
534	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 61326-2-5:2013
535	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 61326-2-6:2013
536	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 61326-1:2020
537	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 61326-2-1 :2020
538	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 61326-2-2 :2012
539	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 61326-2-3 :2020
540	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 61326-2-4 :2020
541	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 61326-2-5 :2020
542	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 61326-2-6:2020
543	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage Fluctuation & Flicker Test	EN 61326-1:2013
544	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage Fluctuation & Flicker Test	EN 61326-2-1 :2013
545	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage Fluctuation & Flicker Test	EN 61326-2-2 :2013
546	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage Fluctuation & Flicker Test	EN 61326-2-3:2013
547	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage Fluctuation & Flicker Test	EN 61326-2-4:2013



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

37 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
548	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage Fluctuation & Flicker Test	EN 61326-2-5 :2013
549	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage Fluctuation & Flicker Test	EN 61326-2-6:2013
550	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage Fluctuation & Flicker Test	IEC 61326-1:2020
551	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage Fluctuation & Flicker Test	IEC 61326-2-1 :2020
552	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage Fluctuation & Flicker Test	IEC 61326-2-2:2012
553	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage Fluctuation & Flicker Test	IEC 61326-2-3 :2020
554	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage Fluctuation & Flicker Test	IEC 61326-2-4 :2020
555	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage Fluctuation & Flicker Test	IEC 61326-2-5 :2020
556	ELECTRONICS- EMC TEST FACILITY	Electrical equipment for measurement, control and laboratory use	Voltage Fluctuation & Flicker Test	IEC 61326-2-6:2020
557	ELECTRONICS- EMC TEST FACILITY	Electrical lighting and similar equipment	Conducted Emission Test (Up to 200A)	CISPR 15:2018
558	ELECTRONICS- EMC TEST FACILITY	Electrical lighting and similar equipment	Conducted Emission Test (Up to 200A)	EN 55015: 2019
559	ELECTRONICS- EMC TEST FACILITY	Electrical lighting and similar equipment	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 61547:2009
560	ELECTRONICS- EMC TEST FACILITY	Electrical lighting and similar equipment	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 61547:2020
561	ELECTRONICS- EMC TEST FACILITY	Electrical lighting and similar equipment	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	EN 61547:2009
562	ELECTRONICS- EMC TEST FACILITY	Electrical lighting and similar equipment	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	IEC 61547:2020
563	ELECTRONICS- EMC TEST FACILITY	Electrical lighting and similar equipment	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 61547:2009
564	ELECTRONICS- EMC TEST FACILITY	Electrical lighting and similar equipment	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 61547:2020



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-9047	Page No	38 of 57
Validity	15/10/2020 to 14/10/2022	Last Amended on	28/12/2020

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
565	ELECTRONICS- EMC TEST FACILITY	Electrical lighting and similar equipment	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 61547:2009
566	ELECTRONICS- EMC TEST FACILITY	Electrical lighting and similar equipment	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 61547:2020
567	ELECTRONICS- EMC TEST FACILITY	Electrical lighting and similar equipment	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 61547:2009
568	ELECTRONICS- EMC TEST FACILITY	Electrical lighting and similar equipment	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 61547:2020
569	ELECTRONICS- EMC TEST FACILITY	Electrical lighting and similar equipment	Radiated Emission Test	CISPR 15:2018
570	ELECTRONICS- EMC TEST FACILITY	Electrical lighting and similar equipment	Radiated Emission Test	EN 55015: 2019
571	ELECTRONICS- EMC TEST FACILITY	Electrical lighting and similar equipment	Radiated susceptibility test	EN 61547 :2009
572	ELECTRONICS- EMC TEST FACILITY	Electrical lighting and similar equipment	Radiated susceptibility test	IEC 61547 :2020
573	ELECTRONICS- EMC TEST FACILITY	Electrical lighting and similar equipment	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 61547:2009
574	ELECTRONICS- EMC TEST FACILITY	Electrical lighting and similar equipment	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 61547:2020
575	ELECTRONICS- EMC TEST FACILITY	Electrical/ Electronic equipment's	Radiated susceptibility test	IEC 60945:2002
576	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Conducted Emission Test (Up to 200A)	ANSI/AAMI/IEC 60601-1-2:2014
577	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Conducted Emission Test (Up to 200A)	EN 60601-1-2 : 2001+A1:2006
578	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Conducted Emission Test (Up to 200A)	EN 60601-1-2 :2015
579	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Conducted Emission Test (Up to 200A)	IEC 60601-1-2 : 2001+A1:2004
580	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Conducted Emission Test (Up to 200A)	IEC 60601-1-2 :2014
581	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Conducted Emission Test (Up to 200A)	IEC/EN 60601-1-2:2007



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 39 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
582	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	ANSI/AAMI/IEC 60601-1-2:2014
583	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 60601-1-2 : 2001+A1:2006
584	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 60601-1-2: 2007+AC:2010
585	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 60601-1-2:2015
586	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 60601-1-2 : 2001+A1:2004
587	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 60601-1-2 :2014
588	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC/EN 60601-1-2:2007
589	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	ANSI/AAMI/IEC 60601-1-2:2014
590	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	EN 60601-1-2 : 2001+A1:2006
591	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	EN 60601-1-2 :2015
592	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	EN 60601-1-2: 2007+AC:2010
593	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	IEC 60601-1-2 : 2001+A1:2004
594	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	IEC 60601-1-2 :2014
595	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	IEC/EN 60601-1-2:2007



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 40 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
596	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Electrostatic Discharge Immunity Test (2kV to 30kV)	ANSI/AAMI/IEC 60601-1-2:2014
597	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 60601-1-2 : 2001+A1:2006
598	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 60601-1-2: 2007+AC:2010
599	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 60601-1-2:2015
600	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 60601-1-2 : 2001+A1:2004
601	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 60601-1-2 :2014
602	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC/EN 60601-1-2:2007
603	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	ANSI/AAMI/IEC 60601-1-2:2014
604	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	EN 60601-1-2 : 2001+A1:2006
605	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	EN 60601-1-2 :2015
606	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	EN 60601-1-2: 2007+AC:2010
607	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	IEC 60601-1-2 : 2001+A1:2004
608	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	IEC 60601-1-2 :2014
609	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	IEC/EN 60601-1-2:2007
610	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	ANSI/AAMI/IEC 60601-1-2:2014
611	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 60601-1-2 : 2001+A1:2006
612	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 60601-1-2 :2015



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 41 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
613	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 60601-1-2: 2007+AC:2010
614	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 60601-1-2 : 2001+A1:2004
615	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 60601-1-2 :2014
616	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC/EN 60601-1-2:2007
617	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Magnetic Field Immunity Test (1A/m to 1200A/m)	ANSI/AAMI/IEC 60601-1-2:2014
618	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 60601-1-2 : 2001+A1:2006
619	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 60601-1-2 :2015
620	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 60601-1-2: 2007+AC:2010
621	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 60601-1-2 : 2001+A1:2004
622	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 60601-1-2:2014
623	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC/EN 60601-1-2:2007
624	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Radiated Emission Test	ANSI/AAMI/IEC 60601-1-2:2014
625	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Radiated Emission Test	EN 60601-1-2 : 2001+A1:2006
626	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Radiated Emission Test	EN 60601-1-2 :2015
627	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Radiated Emission Test	EN 60601-1-2: 2007+AC:2010
628	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Radiated Emission Test	FCC (Part 15) Subpart B: 2020
629	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Radiated Emission Test	FCC (Part 18):2019



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

42 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
630	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Radiated Emission Test	IEC 60601-1-2 : 2001+A1:2004
631	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Radiated Emission Test	IEC 60601-1-2 :2014
632	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Radiated Emission Test	IEC/EN 60601-1-2:2007
633	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Radiated susceptibility test	ANSI/AAMI/IEC 60601 (Part 1) (Sec 2):2015
634	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Radiated susceptibility test	EN 60601 (Part 1) (Sec 2): 2001+ A1:2006
635	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Radiated susceptibility test	EN 60601 (Part 1) (Sec 2): 2007 + AC:2010
636	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Radiated susceptibility test	EN 60601 (Part 1) (Sec 2):2015
637	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Radiated susceptibility test	IEC 60601 (Part 1) (Sec 2): 2001+A1:2004
638	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Radiated susceptibility test	IEC 60601 (Part 1) (Sec 2):2007
639	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Radiated susceptibility test	IEC 60601 (Part 1) (Sec 2):2014
640	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	ANSI/AAMI/IEC 60601-1-2:2014
641	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 60601-1-2 : 2001+A1:2006
642	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 60601-1-2 :2015
643	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 60601-1-2: 2007+AC:2010
644	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 60601-1-2 : 2001+A1:2004
645	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 60601-1-2 :2014



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 43 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
646	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC/EN 60601-1-2:2007
647	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Voltage Fluctuation & Flicker Test	ANSI/AAMI/IEC 60601-1-2:2014
648	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Voltage Fluctuation & Flicker Test	EN 60601-1-2 : 2001+A1:2006
649	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Voltage Fluctuation & Flicker Test	EN 60601-1-2 :2015
650	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Voltage Fluctuation & Flicker Test	EN 60601-1-2: 2007+AC:2010
651	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Voltage Fluctuation & Flicker Test	IEC 60601-1-2 : 2001+A1:2004
652	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Voltage Fluctuation & Flicker Test	IEC 60601-1-2 :2014
653	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Voltage Fluctuation & Flicker Test	IEC/EN 60601-1-2:2007
654	ELECTRONICS- EMC TEST FACILITY	Electromagnetic compatibility of multimedia equipment	Conducted Emission Test (Up to 200A)	CISPR 32:2015+A1:2019
655	ELECTRONICS- EMC TEST FACILITY	Electromagnetic compatibility of multimedia equipment	Conducted Emission Test (Up to 200A)	EN 55032:2015+A11:2020
656	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	Click test (Up to 200A)	CISPR 14-1:2016
657	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	Click test (Up to 200A)	EN 55014-1:2017, EN 55014-1:2017+A11:2020
658	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	Click test (Up to 200A)	IS 6873 (Part 2/Sec I):2012
659	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	Conducted Emission Test (Up to 200A)	CISPR14-1:2016
660	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	Conducted Emission Test (Up to 200A)	EN 55014-1:2017, EN 55014-1:2017+A11:2020
661	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	CISPR 14-2:2015
662	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 55014-2 :2015



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017	Page No	44 of 57
Certificate Number	TC-9047	Last Amended on	28/12/2020
Validity	15/10/2020 to 14/10/2022		

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
663	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	CISPR 14-2:2015
664	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	EN 55014-2 :2015
665	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	Electrostatic Discharge Immunity Test (2kV to 30kV)	CISPR 14-2:2015
666	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 55014-2 :2015
667	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	CISPR 14-2:2015
668	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 55014-2 :2015
669	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	Radiated RF Power	CISPR 14-1:2016
670	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	Radiated RF Power	EN 55014-1:2017, EN 55014-1:2017+A11:2020
671	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	Radiated RF Power	IS 6873 (Part 2/Sec I):2012
672	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	Radiated susceptibility test	CISPR 14-2:2015
673	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	Radiated susceptibility test	EN 55014 (Part 2):2015
674	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	CISPR 14-2:2015
675	ELECTRONICS- EMC TEST FACILITY	Household appliances, electric tools and similar apparatus	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 55014-2 :2015
676	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	Click test (Up to 200A)	EN 61000-6-4:2019
677	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	Click test (Up to 200A)	IEC 61000-6-4:2018
678	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	Conducted Emission Test (Up to 200A)	EN 61000-6-4:2019
679	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	Conducted Emission Test (Up to 200A)	IEC 61000-6-4:2018



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

45 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
680	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 61000-6-2:2019
681	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 61000-6-2:2016
682	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	EN 61000-6-2:2019
683	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	IEC 61000-6-2:2016
684	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 61000-6-2:2019
685	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 61000-6-2:2016
686	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 61000-6-2:2019
687	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 61000-6-2:2016
688	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 61000-6-2:2019
689	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 61000-6-2:2016
690	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	Radiated Emission Test	EN 61000-6-4:2019
691	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	Radiated Emission Test	IEC 61000-6-4:2018
692	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	Radiated susceptibility test	EN 61000 (Part 6) (Sec 2):2019
693	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	Radiated susceptibility test	IEC 61000 (Part 6) (Sec 2):2016
694	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	Radiated susceptibility test	IEC 61000 (Part 6) (Sec 2):2005
695	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 61000-6-2:2019



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 46 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
696	ELECTRONICS- EMC TEST FACILITY	Industrial Equipment	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 61000-6-2:2016
697	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	Conducted Emission Test (Up to 200A)	CISPR 22:2008
698	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	Conducted Emission Test (Up to 200A)	EN 55022: 2010 +AC:2011
699	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	CISPR 24: 2010+A1:2015
700	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 55024: 2010+A1:2015
701	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	CISPR 24: 2010+A1:2015
702	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	EN 55024: 2010+A1:2015
703	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	Electrostatic Discharge Immunity Test (2kV to 30kV)	CISPR 24: 2010+A1:2015
704	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 55024: 2010+A1:2015
705	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	CISPR 24: 2010 +A1:2015
706	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	CISPR 24: 2010+ A1:2015
707	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 55024: 2010+A1:2015
708	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	Magnetic Field Immunity Test (1A/m to 1200A/m)	CISPR 24: 2010+A1:2015
709	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 55024: 2010+A1:2015
710	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	Radiated Emission Test	CISPR 22:2008
711	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	Radiated Emission Test	CISPR 32:2015+A1:2019



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

47 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
712	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	Radiated Emission Test	EN 55022: 2010+ AC:2011
713	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	Radiated Emission Test	EN 55032:2015+A11:2020
714	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	Radiated susceptibility test	CISPR 24 :2010+A1:2015
715	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	Radiated susceptibility test	EN 55024 :2010+A1:2015
716	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	CISPR 24: 2010+A1:2015
717	ELECTRONICS- EMC TEST FACILITY	Information technology equipment	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 55024: 2010+A1:2015
718	ELECTRONICS- EMC TEST FACILITY	Multimedia Equipment	Radiated susceptibility test	CISPR 35:2016
719	ELECTRONICS- EMC TEST FACILITY	Multimedia Equipment's	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	CISPR 35:2016
720	ELECTRONICS- EMC TEST FACILITY	Multimedia Equipment's	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	CISPR 35:2016
721	ELECTRONICS- EMC TEST FACILITY	Multimedia Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	CISPR 35:2016
722	ELECTRONICS- EMC TEST FACILITY	Multimedia Equipment's	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 55035:2017
723	ELECTRONICS- EMC TEST FACILITY	Multimedia Equipment's	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	CISPR 35:2016
724	ELECTRONICS- EMC TEST FACILITY	Multimedia Equipment's	Magnetic Field Immunity Test (1A/m to 1200A/m)	CISPR 35:2016
725	ELECTRONICS- EMC TEST FACILITY	Multimedia Equipment's	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	CISPR 35:2016
726	ELECTRONICS- EMC TEST FACILITY	Residential commercial and light -industrial Equipment	Radiated susceptibility test	IEC 61000 (Part 6) (Sec 1):2016
727	ELECTRONICS- EMC TEST FACILITY	Residential, commercial and light -industrial Equipment	Radiated susceptibility test	EN 61000 (Part 6) (Sec 1):2019
728	ELECTRONICS- EMC TEST FACILITY	Residential, commercial and light-industrial Equipment	Click test (Up to 200A)	EN 61000-6-3: 2001+A1:2011+AC:2012



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

48 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
729	ELECTRONICS- EMC TEST FACILITY	Residential, commercial and light-industrial Equipment	Click test (Up to 200A)	IEC 61000-6-3: 2020
730	ELECTRONICS- EMC TEST FACILITY	Residential, commercial and light-industrial Equipment	Conducted Emission Test (Up to 200A)	EN 61000-6-3: 2007 +A1:2011 +AC:2012
731	ELECTRONICS- EMC TEST FACILITY	Residential, commercial and light-industrial Equipment	Conducted Emission Test (Up to 200A)	IEC 61000-6-3: 2020
732	ELECTRONICS- EMC TEST FACILITY	Residential, commercial and light-industrial Equipment	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 61000-6-1:2019
733	ELECTRONICS- EMC TEST FACILITY	Residential, commercial and light-industrial Equipment	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 61000-6-1:2016
734	ELECTRONICS- EMC TEST FACILITY	Residential, commercial and light-industrial Equipment	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	EN 61000-6-1:2019
735	ELECTRONICS- EMC TEST FACILITY	Residential, commercial and light-industrial Equipment	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	IEC 61000-6-1:2016
736	ELECTRONICS- EMC TEST FACILITY	Residential, commercial and light-industrial Equipment	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 61000-6-1:2019
737	ELECTRONICS- EMC TEST FACILITY	Residential, commercial and light-industrial Equipment	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 61000-6-1:2016
738	ELECTRONICS- EMC TEST FACILITY	Residential, commercial and light-industrial Equipment	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 61000-6-1:2019
739	ELECTRONICS- EMC TEST FACILITY	Residential, commercial and light-industrial Equipment	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 61000-6-1:2016
740	ELECTRONICS- EMC TEST FACILITY	Residential, commercial and light-industrial Equipment	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 61000-6-1:2019
741	ELECTRONICS- EMC TEST FACILITY	Residential, commercial and light-industrial Equipment	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 61000-6-1:2016
742	ELECTRONICS- EMC TEST FACILITY	Residential, commercial and light-industrial Equipment	Radiated Emission Test	EN 61000-6-3:2007 +A1:2011+AC:2012
743	ELECTRONICS- EMC TEST FACILITY	Residential, commercial and light-industrial Equipment	Radiated Emission Test	IEC 61000-6-3: 2020
744	ELECTRONICS- EMC TEST FACILITY	Residential, commercial and light-industrial Equipment	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 61000-6-1:2019



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 49 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
745	ELECTRONICS- EMC TEST FACILITY	Residential, commercial and light-industrial Equipment	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 61000-6-1:2016
746	ELECTRONICS- EMC TEST FACILITY	Sound and television broadcast receivers and associated equipment	Conducted Emission Test (Up to 200A)	CISPR 13: 2009+A1:2015
747	ELECTRONICS- EMC TEST FACILITY	Sound and television broadcast receivers and associated equipment	Conducted Emission Test (Up to 200A)	EN 55013: 2013+A1:2016
748	ELECTRONICS- EMC TEST FACILITY	Sound and television broadcast receivers and associated equipment	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	CISPR 20: 2006 + A1:2013
749	ELECTRONICS- EMC TEST FACILITY	Sound and television broadcast receivers and associated equipment	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	EN 55020: 2007+A11:2011+A12:2016
750	ELECTRONICS- EMC TEST FACILITY	Sound and television broadcast receivers and associated equipment	Electrostatic Discharge Immunity Test (2kV to 30kV)	CISPR 20: 2006 +Amd1:2013
751	ELECTRONICS- EMC TEST FACILITY	Sound and television broadcast receivers and associated equipment	Electrostatic Discharge Immunity Test (2kV to 30kV)	CISPR 20: 2006+ Amd1:2013
752	ELECTRONICS- EMC TEST FACILITY	Sound and television broadcast receivers and associated equipment	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 55020: 2007+A11:2011+A12:2016
753	ELECTRONICS- EMC TEST FACILITY	Sound and television broadcast receivers and associated equipment	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	CISPR 20: 2006+A1:2013
754	ELECTRONICS- EMC TEST FACILITY	Sound and television broadcast receivers and associated equipment	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 55020: 2007+A11:2011+A12:2016
755	ELECTRONICS- EMC TEST FACILITY	Sound and television broadcast receivers and associated equipment	Radiated Emission Test	CISPR 13: 2009+A1:2015
756	ELECTRONICS- EMC TEST FACILITY	Sound and television broadcast receivers and associated equipment	Radiated Emission Test	EN 55013: 2013+A1:2016
757	ELECTRONICS- EMC TEST FACILITY	Sound and television broadcast receivers and associated equipment	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	CISPR 20: 2006+A1:2013
758	ELECTRONICS- EMC TEST FACILITY	Sound and television broadcast receivers and associated equipment	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 55020: 2007+A11:2011+A12:2016
759	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installation	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	EN 60669-2-1: 2004+A12:2010



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

50 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
760	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installation	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	IEC 60669-2-1: 2002+A1:2008+A2:2015
761	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installation	Radiated susceptibility test	IEC 60669 (Part 2) (Sec 1) :2002+A1:2008+A2:2015
762	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installations	Conducted Emission Test (Up to 200A)	EN 60669-2-1: 2004+A12:2010
763	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installations	Conducted Emission Test (Up to 200A)	IEC 60669-2-1: 2002 +A1:2008 + A2:2015
764	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installations	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 60669-2-1: 2004+A12:2010
765	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installations	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 60669-2-1: 2002+A1:2008+A2:2015
766	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installations	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 60669-2-1: 2004+A12:2010
767	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installations	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 60669-2-1: 2002+A1:2008+A2:2015
768	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installations	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	EN 60669-2-1:2004 +A12:2010
769	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installations	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	IEC 60669-2-1: 2002 +A1:2008 + A2:2015
770	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installations	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 60669-2-1: 2004+A12:2010
771	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installations	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 60669-2-1: 2002+A1:2008+A2:2015
772	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installations	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 60669-2-1: 2004+A12:2010
773	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installations	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 60669-2-1: 2002+A1:2008+A2:2015
774	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installations	Radiated Emission Test	EN 60669-2-1: 2004+A12:2010
775	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installations	Radiated Emission Test	IEC 60669-2-1: 2002 +A1:2008 + A2:2015
776	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installations	Radiated susceptibility test	EN 60669 (Part 2) (Sec 1):2004 +A12:2010



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

51 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
777	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installations	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 60669-2-1: 2004+A12:2010
778	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installations	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 60669-2-1: 2002+A1:2008+A2:2015
779	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installations	Voltage Fluctuation & Flicker Test	EN 60669-2-1: 2004+A12:2010
780	ELECTRONICS- EMC TEST FACILITY	Switches for household and similar fixed electrical installations	Voltage Fluctuation & Flicker Test	IEC 60669-2-1: 2002 +A1:2008 + A2:2015
781	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Conducted Emission Test (Up to 200A)	EN 300386:2016
782	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Conducted Emission Test (Up to 200A)	EN 301 489-1:2019
783	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Conducted Emission Test (Up to 200A)	GR 1089 Issue 4 :2011
784	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Conducted Emission Test (Up to 200A)	ICES 003 Issue 6:2019
785	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Conducted Emission Test (Up to 200A)	IS 14700 (Part 6/Sec III):2018
786	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Conducted Emission Test (Up to 200A)	IS 15040:2010
787	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Conducted Emission Test (Up to 200A)	IS 6873 (Part 3):2015
788	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Conducted Emission Test (Up to 200A)	IS 6873 (Part 4) :1999
789	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Conducted Emission Test (Up to 200A)	IS 6873 (Part 5):2012
790	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Conducted Emission Test (Up to 200A)	IS 6873 (Part 7):2012
791	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Conducted Emission Test (Up to 200A)	IS 6873(Part 2/ Sec I):2012
792	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Conducted Emission Test (Up to 200A)	TEC/SD/EMI-02/03:2009
793	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Conducted Emission Test (Up to 200A)	TEC/SD/RD/EMI- 002/02:2016
794	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 300386:2016



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

52 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
795	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 301 489-1 :2019
796	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 301 489-1:2019
797	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	GR 1089 Issue 4:2011
798	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	TEC/SD/EMI-02/03:2009
799	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	TEC/SD/RD/EMI- 002/02:2016
800	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	EN 300386: 2016
801	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	EN 301 489-1:2019
802	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	GR 1089 Issue 4:2011
803	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	TEC/SD/EMI-02/03: 2009
804	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	TEC/SD/RD/EMI- 002/02:2016
805	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 300386:2016
806	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 301 489-1 :2019
807	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 301 489-1:2019
808	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Electrostatic Discharge Immunity Test (2kV to 30kV)	GR 1089 Issue 4:2011
809	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Electrostatic Discharge Immunity Test (2kV to 30kV)	TEC/SD/EMI-02/03:2009



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017	Page No	53 of 57
Certificate Number	TC-9047	Last Amended on	28/12/2020
Validity	15/10/2020 to 14/10/2022		

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
810	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Electrostatic Discharge Immunity Test (2kV to 30kV)	TEC/SD/RD/EMI- 002/02:2016
811	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	TEC/SD/RD/EMI- 002/02:2016
812	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	EN 300386:2016
813	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	EN 301 489-1 :2019
814	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Harmonic Current Emission (Up to 40th Harmonics (32A, 1Ø))	TEC/SD/EMI-02/03:2009
815	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 300386 :2016
816	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 301 489-1:2019
817	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	GR 1089 Issue 4:2011
818	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	TEC/SD/EMI-02/03:2009
819	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	TEC/SD/RD/EMI- 002/02:2016
820	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Radiated Emission Test	EN 300386 :2016
821	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Radiated Emission Test	EN 301 489-1 :2019
822	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Radiated Emission Test	GR 1089 Issue 4 :2011
823	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Radiated Emission Test	ICES 003 Issue 6:2019
824	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Radiated Emission Test	IS 14700 (Part 6/Sec III):2018
825	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Radiated Emission Test	IS 15040 :2010
826	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Radiated Emission Test	IS 6873 (Part 3):2015



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

54 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
827	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Radiated Emission Test	IS 6873 (Part 4) :1999
828	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Radiated Emission Test	IS 6873 (Part 5):2012
829	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Radiated Emission Test	IS 6873 (Part 7):2012
830	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Radiated Emission Test	IS 6873(Part 2/ Sec I):2012
831	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Radiated Emission Test	TEC/SD/EMI-02/03:2009
832	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Radiated Emission Test	TEC/SD/RD/EMI- 002/02:2016
833	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Radiated susceptibility test	EN 300386:2016
834	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Radiated susceptibility test	EN 301 489 -1:2019
835	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Radiated susceptibility test	TEC/SD/EMI-02/03:2009
836	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Radiated susceptibility test	TEC/SD/RD/EMI-002/02:2016
837	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 300386:2016
838	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 301 489-1:2019
839	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	GR 1089 Issue 4:2011
840	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	TEC/SD/EMI-02/03:2009
841	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	TEC/SD/RD/EMI- 002/02:2016
842	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Voltage Fluctuation & Flicker Test	EN 300386:2016
843	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Voltage Fluctuation & Flicker Test	EN 301 489-1:2019



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9047

Page No

55 of 57

Validity

15/10/2020 to 14/10/2022

Last Amended on

28/12/2020

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
844	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Voltage Fluctuation & Flicker Test	TEC/SD/EMI-02/03:2009
845	ELECTRONICS- EMC TEST FACILITY	Telecommunication network equipment	Voltage Fluctuation & Flicker Test	TEC/SD/RD/EMI- 002/02:2016
846	ELECTRONICS- EMC TEST FACILITY	Telecommunications network equipment	Radiated susceptibility test	GR 1089 Issue 4:2011
847	ELECTRONICS- EMC TEST FACILITY	Uninterruptible Power systems (UPS)	Harmonic Current Emission (Up to 40th Harmonics (32A, 10))	EN 62040-2:2018
848	ELECTRONICS- EMC TEST FACILITY	Uninterruptible Power systems (UPS)	Harmonic Current Emission (Up to 40th Harmonics (32A, 10))	IEC 62040-2 :2016
849	ELECTRONICS- EMC TEST FACILITY	Uninterruptible Power systems (UPS)	Harmonic Current Emission (Up to 40th Harmonics (32A, 10))	IS 16242 (Part 2):2014
850	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Conducted Emission Test (Up to 200A)	EN 62040-2:2018
851	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Conducted Emission Test (Up to 200A)	IEC 62040-2:2016
852	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Conducted Emission Test (Up to 200A)	IS 16242 (Part 2):2014
853	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	EN 62040-2:2018
854	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 62040-2 :2016
855	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IEC 62040-2:2016
856	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Conducted RF Immunity Test (150 kHz to 230 MHz, Up to 30Vrms)	IS 16242 (Part 2):2014
857	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	EN 62040-2: 2018
858	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	IEC 62040-2 :2016
859	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	IS 16242 (Part 2): 2014



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9047 **Page No** 56 of 57

Validity 15/10/2020 to 14/10/2022 **Last Amended on** 28/12/2020

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
860	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Electrical Fast Transient (EFT)/ Burst Immunity Test (250V to 5.5kV (32A))	IS 16242 (Part 2):2014
861	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Electrostatic Discharge Immunity Test (2kV to 30kV)	EN 62040-2:2018
862	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 62040-2 :2016
863	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Electrostatic Discharge Immunity Test (2kV to 30kV)	IEC 62040-2:2016
864	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Electrostatic Discharge Immunity Test (2kV to 30kV)	IS 16242 (Part 2):2014
865	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	EN 62040-2:2018
866	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 62040-2 :2016
867	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IEC 62040-2:2016
868	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	High Energy / Telecom Surge Immunity Test (500V to 7kV (32A))	IS 16242 (Part 2):2014
869	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Magnetic Field Immunity Test (1A/m to 1200A/m)	EN 62040-2:2018
870	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 62040-2 :2016
871	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Magnetic Field Immunity Test (1A/m to 1200A/m)	IEC 62040-2:2016
872	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Magnetic Field Immunity Test (1A/m to 1200A/m)	IS 16242 (Part 2):2014
873	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Radiated Emission Test	EN 62040-2:2018
874	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Radiated Emission Test	IEC 62040-2 :2016
875	ELECTRONICS- EMC TEST FACILITY	Uninterruptible Power systems (UPS)	Radiated susceptibility test	EN 62040 (Part 2):2018
876	ELECTRONICS- EMC TEST FACILITY	Uninterruptible Power systems (UPS)	Radiated susceptibility test	IEC 62040 (Part 2):2016



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PRIVATE LIMITED, SURVEY NO 480/2, AMTZ CAMPUS, NADUPURU VILLAGE, PEDAGANTYADA MANDAL, PRAGATI MAIDAN, VM STEEL PROJECT S.O., VISAKHAPATNAM, ANDHRA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017	Page No	57 of 57
Certificate Number	TC-9047	Last Amended on	28/12/2020
Validity	15/10/2020 to 14/10/2022		

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
877	ELECTRONICS- EMC TEST FACILITY	Uninterruptible Power systems (UPS)	Radiated susceptibility test	IS 16242 (Part 2) :2014
878	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Radiated Susceptibility Test (20MHz to 6GHz, (100V/m))	EN 62040-2: 2018
879	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	EN 62040-2:2018
880	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IEC 62040-2:2016
881	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Voltage dips, short interruption & voltage variations Immunity (32A (3Ø, 400V AC))	IS 16242 (Part 2) :2014
882	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Voltage Fluctuation & Flicker Test	EN 62040-2:2018
883	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Voltage Fluctuation & Flicker Test	IEC 62040-2:2016
884	ELECTRONICS- EMC TEST FACILITY	Uninterruptible power systems (UPS)	Voltage Fluctuation & Flicker Test	IS 16242 (Part 2):2014
885	MECHANICAL- METALLOGRAPHY TEST	Metals and alloys	Analysis of materials by Energy Dispersive Spectroscopy with a scanning electron microscope	ASTM E 1508
886	MECHANICAL- METALLOGRAPHY TEST	metals, implants and biomaterials	Surface texture profile measurement	ISO 12085-1997
887	MECHANICAL- METALLOGRAPHY TEST	Metals, Medical devices, Products and alloys	Pore size distribution	VDI/VDE 2630 part1.3
888	MECHANICAL- METALLOGRAPHY TEST	Metals, Polymers and Ceramic materials	Particle size and morphology	ASTM F1877-16 :
889	MECHANICAL- METALLOGRAPHY TEST	Oxide coatings	Coating Thickness Measurement by microscopic method (SEM)	ISO 1463