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Permanent Facility				
1	ELECTRICAL- INSULATING MATERIALS & INSULATORS	High voltage heat-shrinkable material	Dielectric breakdown voltage	ASTM D 149
2	ELECTRICAL- INSULATING MATERIALS & INSULATORS	High voltage heat-shrinkable material	Electric strength	ENA TS 09 -13, CL. 6.4
3	ELECTRICAL- INSULATING MATERIALS & INSULATORS	High voltage heat-shrinkable material	Volume Resistivity	ASTM D 257
4	ELECTRICAL- INSULATING MATERIALS & INSULATORS	High voltage heat-shrinkable material	Volume resistivity	ENA TS 09 - 13, Cl. 6.16
5	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Anchoring Clamp	Dielectric Voltage	NFC 33-041, Cl. 7.4.1
6	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Compression and Mechanical connectors for Power Cables	Heat Cycle Test	IEC 61238-1 CL 6.3
7	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Connectors for DC application in PV system	Dielectric test	IEC 62852, Cl. 6.3.8
8	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Connectors for DC application in PV system	Temperature rise	IEC 62852, CL. 6.3.4
9	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Distribution box	Flammability	IS 11731 (Part 2)
10	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Distribution box	Ingress Protection 2X	IS / IEC 60529
11	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Distribution box	Temperature rise	IS 8623 (Part 1) Cl.8.2.1

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12	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electrical Connector	Electrical test	ANSI C 119.4, CL. 4.3
13	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electrical Connector - Sealed insulated underground connector	Electrical test	ANSI 119.1, CL4.3
14	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electrical connector - Sealed insulated underground connector	Sealing tests	ANSI C 119.1, CL 6.2
15	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electrical Connectors	Current Cycle Test	ANSI 119.4, Cl. 6.3.1
16	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electrical Connectors	Current Cycle Test	ANSI 119.4, Cl.6.3.1
17	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Equipment terminal connectors – Palm Connector, T-Connector, CT/PT Connector Expansion Connector & Junction connector Parellel Groove Clamp	Temperature rise test	IS 5561 ,Cl.13
18	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Equipment terminal connectors – Palm Connector, T-Connector, CT/PT Connector)Expansion Connector & Junction connector Parellel Groove Clamp	Resistance test	IS 5561, Cl 12
19	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulation Piercing Connector	Water tightness test	EN 50483-4, CL 8.1.3.2
20	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulation Piercing connector of class 1 only	Dielectrical voltage test	EN 50483-4, CL 8.1.3.1
21	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulation piercing connector of Class B only	Dielectric Voltage test	NFC 33 020, Cl. 6.4
22	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulation piercing connector of Class B only	Electrical Ageing	EN 50483-5 (excluding Optional Immersion Test)

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23	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulation piercing connector of Class B only	Electrical Ageing	EN 50483-5 (excluding Optional Immersion Test)
24	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulation piercing connector of Class B only	Electrical Ageing	NFC 33 004
25	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulation piercing connector of Class B only	Electrical Ageing	NFC 33 004
26	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulation piercing connector of Class B only	Electrical Ageing	NFC 33 020, Cl. 6.8
27	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulation piercing connector of Class B only	Electrical Ageing	NFC 33 020,Cl. 6.8
28	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulation piercing connector of Class B only	Water tightness	NFC 33 020,Cl. 6.4
29	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Metal fittings Bolted Type Compression clamps Suspension clamp	Heating Cycling	IS 2486 (Part 1), Cl.12.1.1
30	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Metal fittings bolted type compression clamps suspension clamp	Electrical resistance as per tension clamp	IS 2486 (Part 1), Cl.12.1.1
31	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Metal fittings Bolted Type Compression clamps Suspension clamp	Heating Cycling	IS 2486 (Part 1), Cl.12.1.1
32	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Over head line fittings	Magnetic losses test	IEC 61284, Cl. 12
33	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Overhead line fittings	Heat cycle test	IEC 61284

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34	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Pre-insulated terminals (Lugs)	Electrical ageing test	EN 50483-4, CL. 8.3.6
35	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Pre-insulated terminals (Lugs)	Water tightness test	EN 50483-4, CL. 8.3.3
36	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Pre-insulated through connectors	Dielectrical voltage test	EN 50483-4, CL : 8.2.3.1
37	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Pre-insulated through connectors	Electrical ageing test	EN 50483-4, CL 8.2.6
38	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	preformed Armor rod, Midspan compression joints, Repair sleeve, Earth wire fittings/accessories, Suspension clamp, Tension clamp suitable for earth wire conductor	Electrical resistance for Armor Rod	IS 2121 (Part 1), Cl. 7.5
39	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	preformed Armor rod, Midspan compression joints, Repair sleeve, Earth wire fittings/accessories, Suspension clamp, Tension clamp suitable for earth wire conductor	Heating Cycle	IS 2121 (Part 2), Cl. 6.6
40	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	preformed Armor rod, Midspan compression joints, Repair sleeve, Earth wire fittings/accessories, Suspension clamp, Tension clamp suitable for earth wire conductor	Heating Cycle	IS 2121 (Part 2), Cl. 6.6
41	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	preformed Armor rod, Midspan compression joints, Repair sleeve, Earth wire fittings/accessories, Suspension clamp, Tension clamp suitable for earth wire conductor)	Electrical resistance test	IS 2121 (Part 2), Cl. 6.5
42	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Suspension Clamp	Voltage test on suspension clamps	NFC 33-040, Cl. 7.4
43	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals & Alloys	Brinell Hardness	IS 1500, Cl. 7
44	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Metals & Alloys	Vickers Hardness	IS 1501 (Part 1), Cl. 7

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45	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Fibre Optic Cable Accessories - Grounding & Structure mounting Clamp	Clamp Strength Test	POWERGRID Technical Specification - Volume B – Appendix F_3, Cl. 7
46	MECHANICAL- NOISE & VIBRATION	Spacer Damper	Assembly Torque	IS 10162, Cl 5.8
47	MECHANICAL- NOISE & VIBRATION	spacer damper	Characterization of the elastic and damping properties	IEC 61854, Cl.7.5.5 (A)
48	MECHANICAL- NOISE & VIBRATION	Spacer Damper	Clamp Bolt Torque	IEC 61854, Cl.7.5.3
49	MECHANICAL- NOISE & VIBRATION	Spacer Damper	Clamp Bolt Torque	IS10162, Cl.5.7
50	MECHANICAL- NOISE & VIBRATION	Spacer Damper	Clamp slip	IEC 61854,Cl.7.5.1.1 (b)
51	MECHANICAL- NOISE & VIBRATION	Spacer Damper	Clamp Slip	IS 10162, Cl.5.5
52	MECHANICAL- NOISE & VIBRATION	Spacer Damper	Clamp Slip Test	POWERGRID Technical Specification Section VI B, Rev. 1, Annexure A, Cl. 2.4.b)
53	MECHANICAL- NOISE & VIBRATION	Spacer Damper	Compression and Tension Test	IEC 61854, Cl 7.5.4
54	MECHANICAL- NOISE & VIBRATION	spacer Damper	Dimension Verification	IEC 61854, Cl 7.2
55	MECHANICAL- NOISE & VIBRATION	Spacer Damper	Dimension Verification	IS 10162, Cl. 5.3
56	MECHANICAL- NOISE & VIBRATION	Spacer Damper	Movement -Longitudinal Movement -Vertical Movement -Torsional Movement	IS 10162,Cl.5.4
57	MECHANICAL- NOISE & VIBRATION	Spacer Damper	Sub span oscillation	IEC 61854,Cl.7.5.7.2
58	MECHANICAL- NOISE & VIBRATION	Spacer Damper	Visual Examination	IEC 61854, Cl 7.1
59	MECHANICAL- NOISE & VIBRATION	Spacer Damper	Visual Examination	IS 10162, Cl 5.2
60	MECHANICAL- NOISE & VIBRATION	Stockbridge Vibration Dampers	Corrosion Protection Tests	IEC 61897, Cl. 7.3.1
61	MECHANICAL- NOISE & VIBRATION	Stockbridge Vibration Dampers	Corrosion Protection Tests	IEC 61897, Cl. 7.3.3
62	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Clamp Bolt Torque	IS 9708,Cl. 7.10

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63	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Clamp Bolt Torque	IEC 61897, Cl. 7.7
64	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Clamp Slip	IEC 61897, Cl. 7.5
65	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Clamp Slip	IS 9708,Cl. 3.17
66	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Clamp to Messenger cable pull	IEC 61897, Cl. 7.9
67	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Mass Pull	IEC 61897, Cl. 7.8
68	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Mass Pull	IS 9708,Cl. 7.6
69	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Resonance Frequency	IS 9708,Cl. 7.4
70	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Strength of the Messenger Cable	POWERGRID Technical Specification Section VI B, Rev. 1, Annexure B, Cl. 3.c)
71	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Verification of Dimension	IEC 61897, Cl. 7.2
72	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Verification of Dimension	IS 9708,Cl. 7.3
73	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Verification of Visual Examination	IS 9708,Cl. 7.2
74	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Visual Examination	IEC 61897, Cl. 7.1
75	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Alignment Tie	Damage and failure load	EN-50397-2, Cl. 7.4.1
76	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Alignment Tie	Lift load and side load at ambient temperature	EN-50397-2,Cl. 7.4.5
77	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Alignment Tie	Permanent marking	EN-50397-2, Cl. 7.3
78	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Alignment Tie	Slip at ambient temperature	EN-50397-2, Cl. 7.4.2
79	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Aluminium Dead end clamp –Bolted and Compression type	Dimensional	IEC 61284, Cl.8

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80	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Aluminium Dead end clamp –Bolted and Compression type	Dimensional	IS 2486 (Part 1), Cl.8
81	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Aluminium Dead end clamp –Bolted and Compression type	Slip Strength	IS 2486 (Part 1), Cl.11.1
82	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Aluminium Dead end clamp –Bolted and Compression type	Tensile Test / Slip Strength	IEC 61284, Cl.11.5.1
83	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Aluminium Suspension Clamp	Tensile Breaking Load	IS 2486(Part 1), Cl.11.2.1
84	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Aluminium Suspension Clamp	Vertical damage load and failure load test / Tensile Breaking Load	IEC 61284,Cl.11.4.1
85	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Aluminium Suspension Clamp	Visual Examination & Dimensional	IS 2486 (Part 1), Cl. 5, Cl. 8
86	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Aluminium Brackets & Dead end Clamps	Tensile Proof load	NFC 33-040
87	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Aluminium Brackets & Dead end Clamps	Tensile Proof load	NFC 33-041
88	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Aluminium Suspension Clamp	Slip Strength	IS 2486 (Part 1), Cl.11.1
89	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Aluminium T -Clamp	Axial Tensile Load Test for Welded Portion of T Clamp	POWERGRID Technical Specification, Section VI B, Rev. 1, Annexure A, Cl. 2.2
90	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Anchoring / Dead End Clamp	Check for permanent marking	NFC 33 041, Cl. 8.2
91	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Anchoring / Dead End Clamp	Check for permanent marking	NFC 33 041, Cl No 3.2
92	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Anchoring / Dead End Clamp	Dynamic / Tensile Test at Low Temperature	NFC 33 041, Cl. 2.5
93	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Anchoring / Dead End Clamp	Endurance Test under mechanical and thermal stresses	NFC 33 041, Cl No 2.9

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94	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Anchoring / Dead End Clamp	Endurance Test under mechanical and thermal stresses	NFC 33 041, Cl.7.9
95	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Anchoring / Dead End Clamp	Mechanical Tests (Tensile test on brackets & Tensile test on Anchoring clamps)	NFC 33 041, Cl No 2.3
96	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Anchoring / Dead End Clamp	Mechanical Tests (Tensile test on brackets & Tensile test on Anchoring clamps)	NFC 33 041, Cl. 7.3
97	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Anchoring / Dead End Clamp	Tensile Test at Low Temperature	NFC 33 041, Cl No 7.5
98	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Ball and Socket Couplings of String insulator units (hardware)	Dimensions (Measurement with Gauges)	IEC 60120
99	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Compression and Mechanical connectors for Power Cables	Mechanical test (Pull-out Force)	IEC 61238-1, Cl. 7
100	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Connectors for DC application in PV systems	Terminations and connecting methods	IEC 62852, Cl. 6.3.15
101	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Dead End & Suspension Clamp, Universal Pole Bracket & Stainless steel straps and Buckle	Tensile Proof load	GRNo.TEC/GR/TX/OAF-001/03/MAR-17 Cl 4.3.4, 4.3.5, 4.3.6 & 4.3.7
102	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Earth wire & FO cable Accessories - Earthing bond	Slip Strength test	IS 2121 (Part 3), Cl. 5.4, c
103	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Earthing clamp	Pull test on cable/lead with clamps	IEC 61230
104	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Earthing clamp	Testing durability of marking	IEC 61230
105	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Electrical connectors	Low temperature assembly test	EN 50483-4, Cl. 8.1.4
106	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Electrical Connectors	Low temperature assembly test	EN 50397-2, Cl. 7.4.14
107	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Electrical connectors	Mechanical	EN 50483-4, Cl. 8.1.2

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108	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Electrical Connectors	Shear head function test	EN 50397-2, Cl. 7.4.11
109	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Electrical power connectors	Pull out strength test	IS 5561, Cl. 11
110	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Electrical Pre-insulated terminals (lugs)	Low temperature assembly test	EN 50483-4, Cl. 8.3.4
111	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Electrical Pre-insulated terminals (lugs)	Mechanical	EN 50483-4, Cl. 8.3.2
112	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Electrical Pre-insulated through connectors	Endurance tests	EN 50483-4, Cl. 8.2.7
113	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Electrical Pre-insulated through connectors	Low temperature assembly test	EN 50483-4, Cl. 8.2.4
114	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Electrical Pre-insulated through connectors	Mechanical	EN 50483-4. Cl. 8.2.2
115	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Fibre Optic Cable Accessories - Grounding & Structure mounting Clamp	Clamp Fit Test	POWERGRID Technical Specification - Volume B – Appendix F_3, Cl. 6
116	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Hardware Accessories	Visual Examination	IEC 61284, Cl. 7
117	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	High voltage heat shrinkable components	Tensile strength and elongation at break	ENA TS 09 - 13 Issue 1 , Cl.3.12
118	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	High voltage heat shrinkable components	Tensile strength and elongation at break	ENA TS 09 - 13 Issue 2, Cl. 6.12
119	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Insulation piercing connector	Branch cable pull out	EN-50397-2, Cl. 7.4.13
120	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Insulation Piercing connector	Clamp bolt tightening	EN-50397-2, Cl. 7.4.10
121	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Insulation piercing connector	mechanical damage to main conductor	EN-50397-2 , Cl. 7.4.12

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122	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Insulation piercing connector	Permanent marking	EN-50397-2, Cl. 7.3
123	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Insulation Piercing Connector	Tightening the mechanical strength of main core & tap cores	NFC 33-020
124	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Insulation piercing connector	Water tightness	EN-50397-2, Cl. 7.6
125	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Insulation Piercing Connectors	Check for permanent marking	NFC 33 020, Cl. 7.2
126	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Insulation Piercing Connectors	Check for permanent marking	NFC 33 020, Cl No 3.2
127	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Insulation Piercing Connectors	Installation Test at Low Temperature	NFC 33 020, Cl. 2.5
128	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Insulation Piercing Connectors	Low Temperature assembly test	NFC 33 020, Cl No 6.5
129	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Insulation Piercing Connectors	Mechanical Tests [(1) Shear head function's test and connector bolt tightening test, (2) Test for mechanical damage to the main conductor, (3) Branch cable pull-out test, (4) Low temperature impact test]	NFC 33 020, Cl. 6.3
130	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Insulation Piercing Connectors	Mechanical Tests [(1) Shear head function's test and connector bolt tightening test, (2) Test for mechanical damage to the main conductor, (3) Branch cable pull-out test, (4) Low temperature impact test]	NFC 33 020, Cl No 2.3
131	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Insulator fittings for Overhead Power lines	Dimensional Requirement	IS 2486 (Part 2)
132	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Insulator Hardware	Mechanical Strength Test of Welded Joint	POWERGRID Technical Specification Section VI B, Rev. 1, Annexure A, Cl. 1.3

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133	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Insulator Hardware fittings – Split pins (Locking devices)	Operation Test	IS 2486 (Part IV), Cl. 3.5.1
134	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Live working – Electrical insulating gloves	Tensile strength and elongation at break	IEC 60903, Cl. 5
135	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Mid span Compression joints, Repair Sleeve, Earth Wire fittings Clamps & Accessories	Failing Load	IS 2121 (Part 2):1981, Cl.6.4, RA
136	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Mid Span Joint	Tensile Proof load	NFC 33-021
137	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Mid span Joint & Lugs	Endurance Test under mechanical and thermal stresses	NFC 33 021, Cl. 6.9
138	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Mid span Joint & Lugs	Check for permanent marking	NFC 33 021, Cl No 3.2
139	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Mid span Joint & Lugs	Check for permanent marking	NFC 33 021, Cl. 7.2
140	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Mid span Joint & Lugs	Endurance Test under mechanical and thermal stresses	NFC 33 021, Cl No 2.9
141	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Mid span Joint & Lugs	Installation Test at Low Temperature	NFC 33 021, Cl. 6.5
142	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Mid span Joint & Lugs	Mechanical Tests (1. Crimping ability test, 2. Tensile test)	NFC 33 021, Cl No 2.3
143	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Mid span Joint & Lugs	Mechanical Tests (1. Crimping ability test, 2. Tensile test)	NFC 33 021, Cl.6.3
144	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Overhead lines Hardware fittings	Hot dip galvanizing	IEC 61284, Cl 9
145	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Overhead lines Hardware fittings (Suspension Clamp)	Slip test with a specified minimum and maximum slip load	IEC 61284, Cl 11.4.2
146	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Overhead lines Hardware fittings (Suspension Clamp)	Slip test with only specified minimum slip load	IEC 61284, Cl 11.4.3

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147	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Preformed Armour rod / Retaining Rod	Tensile Proof Load	IS 2121 (Part 1), Cl. 7.4.1
148	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Preformed Armour rod / Retaining Rod	Bend Test	IS 2121 (Part 1), Cl. 7.10
149	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Preformed Armour rod / Retaining Rod	Resilience	IS 2121 (Part 1):2007,Cl.7.11,RA
150	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Preformed Armour rod / Retaining Rod	Slip Strength	IS 2121 (Part 1), Cl.7.7
151	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Preformed Armour rod / Retaining Rod	Visual & Dimensional	IS 2121 (Part 1), Cl. 7.2 & Cl. 7.3
152	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Service Clamp	Check for permanent marking	NFC 33 042, Cl No 3.2
153	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Service Clamp	Check for permanent marking	NFC 33 042, Cl. 8.1
154	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Service Clamp	Dynamic Test at Low Temperature	NFC 33 042, Cl. 2.5
155	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Service Clamp	Endurance Test under mechanical and thermal stresses	NFC 33 04, Cl No 2.9
156	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Service Clamp	Endurance Test under mechanical and thermal stresses / constraints	NFC 33 042, Cl. 7.9
157	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Service Clamp	Mechanical Tests (1.Modalities, 2.Test on the clamp PAS 35)	NFC 33 042, Cl No 2.3
158	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Service Clamp	Mechanical Tests (1.Modalities, 2.Test on the clamp PAS 35)	NFC 33 042, Cl. 7.3
159	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Spacer Damper / Suspension Clamp	Shore Hardness Test	IS 3400 (Part 23), Cl. 7
160	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Steel Parts of Hardware fittings	Galvanizing Test	IS 2486 (Part 1), Cl. 9.4

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161	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Steel Parts of Hardware fittings	Thickness and Type of Zinc Coating	IS 1573, Cl. 4.2
162	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Steel Parts of Insulator fitings and other Galvanized article	Uniformity of Coating on zinc coated articles	IS 2633, Cl. 4
163	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Steel Parts of Insulator fittings	Zinc Coating thickness	ISO 1461
164	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Steel Parts of Insulator fittings and other Galvanized article	Determination of Mass of zinc coating on Zinc coated Iron and Steel articles	IS 6745, Cl. 5
165	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Suspension Clamp	Check for permanent marking	NFC 33 040, Cl No 3.2
166	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Suspension Clamp	Check for permanent marking	NFC 33 040, Cl. 8.2
167	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Suspension clamp	Damage and failure load	EN-50397-2, Cl. 7.4.1
168	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Suspension Clamp	Endurance Test under mechanical and thermal stresses	NFC 33 040, Cl. 2.9
169	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Suspension Clamp	Mechanical Tests (Slippage test on the suspension assembly clamps)	NFC 33 040, Cl No 2.3
170	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Suspension Clamp	Mechanical Tests (Slippage test on the suspension assembly clamps)	NFC 33 040, Cl. 7.3
171	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	suspension clamp	Slip at ambient temperature	EN-50397-2, Cl. 7.4.2
172	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Telecom Accessories ,	Visual Examination	TEC/GR/TX/OAF-001/03/MAR-17 ,Release 3
173	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Telecom Accessories	Aeolian vibration test	TEC/GR/TX/OAF-001/03/MAR-17 ,Release 3
174	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Telecom Accessories	Attenuation Test - Dead End Assembly	TEC/GR/TX/OAF-001/03/MAR-17 ,Release 3

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175	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Telecom Accessories	Galloping / Fatigue test	TEC/GR/TX/OAF-001/03/MAR-17 ,Release 3
176	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Telecom Accessories	Galvanized Test	TEC/GR/TX/OAF-001/03/MAR-17 ,Release 3
177	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Telecom Accessories	Resilience Test	TEC/GR/TX/OAF-001/03/MAR-17 ,Release 3
178	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Telecom Accessories	Shore hardness test on insert	TEC/GR/TX/OAF-001/03/MAR-17 ,Release 3
179	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Telecom Accessories	Tensile strength test	TEC/GR/TX/OAF-001/03/MAR-17 ,Release 3
180	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Telecom Accessories	Tensile strength test for helically formed product	TEC/GR/TX/OAF-001/03/MAR-17 ,Release 3
181	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Telecom Accessories	Verification of dimension	TEC/GR/TX/OAF-001/03/MAR-17 ,Release 3
182	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Telecom Accessories	Wrapping Test	TEC/GR/TX/OAF-001/03/MAR-17 ,Release 3
183	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Tension clamp	Damage and failure load	EN-50397-2, Cl. 7.4.1
184	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Tension clamp	Tensile at ambient temperature	EN-50397-2, Cl. 7.4.7
185	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Tension clamp Bail	Hot dip galvanized coating	EN 50397-2
186	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Thermo plastic Suspension Clamp	Tensile Proof load	NFC 33-040
187	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Top tie / Side tie	HV Pull through withstand Test	ENA Technical Specification, issue 3, Cl. E.1.3.3
188	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Top tie / Side tie	Transverse and Pull-off Load Tests	ENA Technical Specification, issue 3, Cl. E.1.3.2