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Research Designs & Standards Organisation
Manak Nagar, Lucknow-226011
TI-M-4.2.3-2

Master List of Drawings of equipments and materials for Traction Installation

1.0 Amendment History:

S. No.	Amendment Date	Version	Reasons for Amendment
1.	04/10/2010	1.0	First Issue under new documentation system for ISO9001.2008 approved by EDTI on NP-2 of file TI/GEN ISO on 04/10/2010.
2.	01/07/2011	2.0	Second issue under inclusion Drawings of equipments & materials.
3	03/04/2013	3.0	Third issue under inclusion Drawings of equipments & materials.

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Chapter - I - OVERHEAD EQUIPMENT

1. GENERAL ARRANGEMENT FOR CONVENTIONAL OHE

1	ETI/OHE/G/00111 Sh.1	C	Extra allowance for setting of structures on curves (broad gauge)	20.10. 05	FOLDER 1
2	RE/33/G/00111 Sh.2	-	Extra allowance for setting of structures on curves (metre gauge)	17.05. 62	FOLDER 1
3	ETI/OHE/G/00112	D	Standard setting of structures in the vicinity of signals (broad gauge)	20.10. 05	FOLDER 1
4	ETI/OHE/G/00131	-	Typical design of side bearing foundation	21.08. 71	FOLDER 1
5	ETI/OHE/G/00144 Sh.3	C	Standard drilling schedule of OHE mast 9.5 m long (RSJ and BFB)	24.12. 97	FOLDER 1
6	ETI/OHE/G/00158 Sh-1	-	Employment schedule of bracket tubes regulated conventional OHE (Cd Cu catenary and Cu contact wire 1000 kgf. tension each for wind pressure 75kgf /sq.m)	28.06. 84	FOLDER 1
7	ETI/OHE/G/00158 Sh-2	-	Employment schedule of bracket tubes regulated conventional OHE (Cd Cu catenary and Cu contact wire 1000 kgf tension each) for wind pressure 112.5kgf /sq.m.	28.06. 84	FOLDER 1
8	ETI/OHE/G/00158 Sh- 3	-	Employment schedule of bracket tubes regulated conventional OHE (Cd Cu catenary and cu contact wire 1000 kgf tension each) for wind pressure 150 kgf / sq.m.	28.06. 84	FOLDER 1
9	ETI/OHE/G/00159 Sh-1	-	Employment schedule of bracket tubes unregulated conventional OHE (Cd Cu catenary and Cu contact wire 1000 kgf tension each for wind pressure 75kgf /sq.m.	28.06. 84	FOLDER 2
10	ETI/OHE/G/00159 Sh-2	-	Employment schedule of bracket tubes unregulated conventional OHE (Cd Cu catenary and Cu contact wire 1000 kgf tension each) for wind pressure 112.5kgf /sq.m.	28.06. 84	FOLDER 2
11	ETI/OHE/G/00159 Sh- 3	-	Employment schedule of bracket tubes unregulated conventional OHE (Cd Cu catenary and Cu contact wire 1000 kgf tension each) for wind pressure 150 kgf /sq.m.	28.06. 84	FOLDER 2
12	ETI/OHE/G/00161	-	General distribution of droppers.	28.04. 72	FOLDER 2
13	ETI/OHE/G/00166	A	Dropper schedule for unregulated OHE with equal encumbrance (1.40/1.40).	02.08. 74	FOLDER 2
14	ETI/OHE/G/00167	A	Dropper schedule for unregulated OHE with unequal encumbrance (1.40/0.90).	02.08. 74	FOLDER 2
15	ETI/OHE/G/00168	A	Dropper schedule for unregulated OHE with unequal encumbrance (1.40/0.75).	02.08. 74	FOLDER 2
16	ETI/OHE/G/00169	A	Dropper schedule for uninsulated overlap span.	01.12. 94	FOLDER 2
17	ETI/OHE/G/00170	A	Dropper schedule for insulated overlap span.	02.08. 74	FOLDER 2

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18	ETI/OHE/G/00173	B	Dropper schedule for compensated OHE with equal encumbrance (1.40/1.40) for speed upto 160km/h.	02.08. 74	FOLDER 2
19	ETI/OHE/G/00173-1	-	Dropper schedule for regulated OHE in worn out condition of 107 sqmm contact wire (9.75mm thickness)	09.10. 95	FOLDER 2
20	ETI/OHE/G/00174	B	Dropper schedule for compensated OHE with unequal encumbrance (1.40/0.90) for speed upto 160km/h	03.04. 80	FOLDER 3
21	ETI/OHE/G/00175	A	Dropper schedule for compensated OHE with unequal encumbrance (1.40/0.75) for speed upto 160km/h	02.08. 74	FOLDER 3
22	ETI/OHE/G/00176	D	Dropper schedule for compensated OHE with unequal encumbrance (1.75/1.40) for speed upto 160km/h	02.08. 74	FOLDER 3
23	ETI/OHE/G/00177	A	Dropper schedule for conventional regulated OHE with zero presage (1400/1400)	05.09. 94	FOLDER 3
24	RE/33/G/00181	A	Outline of pantograph (BG & MG)	05.03. 62	FOLDER 3
25	RE/33/G/00182	C	Arrangement of pantograph multiple headed train BG	04.08. 66	FOLDER 3
26	RE/33/G/00183 Sh. 1	B	General clearance diagram on BG tracks (tangent and flat curves)	09.08. 67	FOLDER 3
27	RE/33/G/00183 Sh. 2	-	General clearance diagram on MG tracks (tangent and flat curves)	06.06. 62	FOLDER 3
28	RE/33/G/00184 Sh. 1	A	General clearance diagram on BG tracks (sharp curves)	10.04. 62	FOLDER 3
29	RE/33/G/00184 Sh. 2	-	General clearance diagram on MG tracks (sharp curves)	06.06. 62	FOLDER 3
30	RE/33/G/00185 Sh. 1	A	Restricted clearance diagram on tangent tracks BG	16.04. 64	FOLDER 3
31	RE/33/G/00185 Sh. 2	-	Restricted clearance diagram on MG tracks (tangent and flat curves)	06.06. 62	FOLDER 3
32	ETI/OHE/G/00186 Sh. 1	-	Restricted clearance diagram on curved track on BG	14.01. 83	FOLDER 4
33	RE/33/G/00186 Sh. 2	-	Restricted clearance diagram on MG tracks (sharp curves)	06.06. 82	FOLDER 4
34	ETI/OHE/G/00187	A	Chart showing the blow off, push up and oscillations of the standard a.c. OHE	25.08. 76	FOLDER 4
35	RE/33/G/00193	-	Adjustment chart of regulating equipment winch type & pulley block type	27.01. 67	FOLDER 4
36	ETI/OHE/G/00195	A	Adjustment chart of regulating equipment three pulley type 3:1 ratio	28.06. 94	FOLDER 4
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38	ETI/OHE/G/00202	-	Span and stagger chart (conventional OHE Cd copper catenary and Cu contact wire) for wind	27.03. 85	FOLDER 4

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39	ETI/OHE/G/00222 Sh. 1	-	Sag and tension chart for loaded catenary	11.09.72	FOLDER 4
40	RE/33/G/01101 Sh. 1	A	General formation of single track in embankments and cuttings BG	07.09.62	FOLDER 5
41	RE/33/G/01101 Sh. 2	-	General formation of single track in embankments and cuttings MG	06.04.62	FOLDER 5
42	RE/33/G/01102 Sh. 1	A	General formation of double track in embankments and cuttings BG	07.04.62	FOLDER 5
43	RE/33/G/01102 Sh. 2	-	General formation of double track in embankments and cuttings MG	06.04.62	FOLDER 5
44	RE/33/G/01103 Sh. 1	A	General formation of multiple tracks BG	07.04.60	FOLDER 5
45	RE/33/G/01103 Sh. 2	-	General formation of multiple tracks MG	06.04.62	FOLDER 5
46	RE/33/G/01104 Sh. 1	-	Leading dimensions of turnouts BG	20.04.62	FOLDER 5
47	RE/33/G/01104 Sh. 2	-	Leading dimensions of turnouts MG	17.05.62	FOLDER 5
48	RE/33/G/01105 Sh. 1	A	Leading dimensions of crossing BG	20.04.62	FOLDER 5
49	RE/33/G/01105 Sh. 2	-	Leading dimensions of diamond crossing MG	17.05.62	FOLDER 5
50	RE/33/G/01112 Sh. 2	-	Normal profile of maximum moving dimensions MG	23.05.62	FOLDER 5
51	RE/33/G/01401	E	Standard anchor arrangement	06.08.82	FOLDER 5
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53	ETI/OHE/G/01403 Sh-1	D	Schedule of anchor block for BG. Tracks	13.08.99	FOLDER 5
54	ETI/OHE/G/01403 Sh-2	C	Double guy rod arrangement with anchor block BG track	13.08.99	FOLDER 5
55	ETI/OHE/G/01403 Sh-3	B	Schedule of anchor blocks for BG tracks (black cotton soil)	29.05.79	FOLDER 5
56	ETI/OHE/G/01502	-	Trapezoidal counter weight arrangement on OHE structures	04.02.72	FOLDER 6
57	ETI/OHE/G/01503 Sh-1	B	Cement concrete counter weight arrangements on OHE structures for winch type regulating equipment	30.04.91	FOLDER 6
58	ETI/OHE/G/01503 Sh-2	A	Cement concrete counter weight arrangement on N, O & R type portal upright	30.04.91	FOLDER 6
59	ETI/OHE/G/01505	-	Standard guide tube arrangement on a mast and structures	19.11.87	FOLDER 6
60	ETI/OHE/G/01601	-	Arrangement of 3kV and 25kV pedestal insulator supports on OHE masts and portals	03.02.72	FOLDER 6

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62	ETI/OHE/G/01702	-	Standard arrangement for mounting of number plate (Retro-reflective type) on OHE structures	23.02.98	FOLDER 6
63	ETI/OHE/G/02101	A	Schematic arrangement of regulated OHE	04.07.94	FOLDER 6
64	ETI/OHE/G/02102	-	Typical arrangement of OHE on cantilever mast for double track section	22.06.81	FOLDER 7
65	ETI/OHE/G/02102 Sh-3	-	Typical arrangement for fixing of bracket assembly on 9.5 m mast and structure to suit raising of track in future	05.01.77	FOLDER 7
66	ETI/OHE/G/02103	-	General arrangement of OHE with stitch wire on catenary	06.05.72	FOLDER 7
67	ETI/OHE/G/02104 Sh-1	A	Mast on platforms BG	20.01.73	FOLDER 7
68	RE/33/G/02104 Sh-2	A	Mast on platforms MG	25.06.62	FOLDER 7
69	ETI/OHE/G/02106 Sh-1	A	Details of bracket arrangement on tangent and curved tracks	25.08.72	FOLDER 7
70	ETI/OHE/G/02106 Sh-3	C	Details of bracket arrangement for OHE high speed	04.07.94	FOLDER 7
71	RE/33/G/02107	D	Single bracket assembly on structures and dropped arms.	25.07.84	FOLDER 8
72	ETI/OHE/G/02108	A	Box type cantilever arrangement	09.01.97	FOLDER 8
73	ETI/OHE/G/02111	A	Arrangement of anticreep	04.07.94	FOLDER 8
74	ETI/OHE/G/02113	-	Standard cantilever arrangement for boom anchor anticreep location	27.01.69	FOLDER 8
75	ETI/OHE/G/02121 Sh-1	F	Schematic arrangement of uninsulated overlap (Type I) (3 and 4 span overlaps)	20.05.74	FOLDER 8
76	ETI/OHE/G/02121 Sh-4	A	Schematic arrangement of uninsulated overlap (3 & 4 span overlaps)	04.07.94	FOLDER 8
77	ETI/OHE/G/02131 Sh-1	-	Schematic arrangement of insulated overlap	25.09.87	FOLDER 8
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79	ETI/OHE/G/02141	C	General arrangement of regulated OHE at turn outs (overlap and crossed type)	25.09.87	FOLDER 8
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81	ETI/OHE/G/02161 Sh-1	C	Arrangement of neutral section	14.06.85	FOLDER 9
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84	ETI/OHE/G/03101	-	Schematic arrangement of unregulated OHE	22.06.81	FOLDER 9
85	ETI/OHE/G/03121	E	Standard termination of OHE (regulated and unregulated)	11.03.03	FOLDER 9
86	ETI/OHE/G/03151	-	General arrangement of unregulated OHE at turnout (crossed and overlap type)	16.10.82	FOLDER 9
87	ETI/OHE/G/03152 Sh-1	-	General arrangement of unregulated OHE at cross over and diamond crossings (crossed and overlap type)	16.10.82	FOLDER 9
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89	ETI/OHE/G/03201	-	General arrangement of head span	03.02.72	FOLDER 9
90	ETI/OHE/G/03301	A	General arrangement of pull off	06.08.74	FOLDER 9
91	ETI/OHE/G/04201	-	Span and stagger chart for tramway type OHE (regulated)	18.06.81	FOLDER 10
92	ETI/OHE/G/04202 Sh-1	C	Drilling schedule of OHE mast 8.5m long RSJ and BFB for tramway type OHE (regulated)	22.01.98	FOLDER 10
93	ETI/OHE/G/04202 Sh-2	C	Drilling schedule of OHE mast 9.0m long RSJ and BFB for tramway type OHE (regulated)	22.01.98	FOLDER 10
94	ETI/OHE/G/04203	C	Schematic arrangement of tramway type OHE (regulated)	04.07.94	FOLDER 10
95	ETI/OHE/G/04204	B	Arrangement of bracket assembly for tramway type OHE (regulated)	21.06.85	FOLDER 10
96	ETI/OHE/G/04205	B	Arrangement of anticreep for tramway type OHE (regulated)	04.07.94	FOLDER 10
97	ETI/OHE/G/04206	B	Arrangement of anticreep for tramway type OHE (regulated) (alternative arrangement)	04.07.94	FOLDER 10
98	ETI/OHE/G/04207 Sh-1	B	Arrangement of section insulator for tramway type OHE (regulated)	21.06.85	FOLDER 11
99	ETI/OHE/G/04207 Sh-2	B	Small parts steel for supporting section insulator assembly. (for regulated tramway type OHE)	26.08.96	FOLDER 11
100	ETI/OHE/G/04208	-	General arrangement of turnout for tramway type OHE (regulated)	18.06.81	FOLDER 11
101	ETI/OHE/G/04209	-	Adjustment chart for tramway type OHE (regulated)	25.09.81	FOLDER 11
102	ETI/OHE/G/04212	B	Standard termination of tramway type OHE (regulated with pulley type regulating equipment) (3:1 ratio)	22.04.94	FOLDER 11
103	ETI/OHE/G/04213	-	General arrangement of connections at switching stations and BT locations for tramway type OHE.	22.04.94	FOLDER 11
104	ETI/OHE/G/05101	-	In span jumper connection between catenary	15.01.	FOLDER

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10 9	ETI/OHE/G/05107	A	Antitheft jumper.	28.10. 94	FOLDER 12
11 0	ETI/OHE/G/05121 Sh-1	C	General arrangement of connection to OHE by copper cross feeder (150)	30.09. 93	FOLDER 12
11 1	ETI/OHE/G/05122 Sh-1	C	General arrangement of connection at switching station on double track section by copper cross feeder (150)	30.09. 93	FOLDER 12
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11 3	ETI/OHE/G/05143	B	Suspension of 25 kV feeders (spider) on OHE masts.	14.06. 85	FOLDER 12
11 4	RE/33/G/05145-1	A	Termination of feeder, return conductor and return feeder (copper and aluminium)	04.04. 03	FOLDER 12
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12 4	ETI/OHE/G/05413	B	Connection between OHE and aluminium RC at booster station.	14.06. 85	FOLDER 13
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13 7	ETI/OHE/G/06008	-	Mounting details of double pole Isolator on portals (for 2x25kV)	13.10. 92	FOLDER 15
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14 9	ETI/OHE/SK/523	-	Dropper schedule for anchor spans.	05.02. 88	FOLDER 17
15 0	ETI/OHE/SK/524	A	Counter weight assembly (1200/1200)	26.08. 96	FOLDER 17
15 1	RE/33/531	A	Bracket arrangement in tunnels with soft soil (For DBK Rly projects)	28.04. 65	FOLDER 17
15 2	ETI/OHE/SK/544	-	Typical Sectioning diagram at station with Isolators. (Fo2x25 kV).	26.09. 89	FOLDER 17
15 3	ETI/OHE/SK/551	-	Arrangement of neutral section for conversion with short neutral section.	24.01. 90	FOLDER 17
15 4	ETI/OHE/SK/552	-	Arrangement of short neutral section at existing feeding post.	24.01. 90	FOLDER 18
15 5	ETI/OHE/SK/581	-	Sag and tension chart for catenary (65mm ²) and contact wire (107mm ²) for 1200kgf/1200kgf tension.	02.02. 94	FOLDER 18
15 6	ETI/OHE/SK/582	-	Schematic arrangement of unined overlap.	02.02. 94	FOLDER 18
15 7	ETI/OHE/SK/583	-	Schematic arrangement of insulated overlap	02.02. 94	FOLDER 18
15 8	ETI/OHE/SK/584	-	Dropper schedule for regulated OHE (1200 kgf/1200 kgf tension)	02.02. 94	FOLDER 18
15 9	ETI/OHE/SK/585	-	Dropper schedule for uninsulated overlap spans (1200kgf / 1200kgf tension)	02.02. 94	FOLDER 18
16 0	ETI/OHE/SK/586	A	Dropper schedule for insulated overlap spans (1200kgf / 1200kgf tension)	26.06. 95	FOLDER 18
16 1	ETI/OHE/SK/587	A	Counter weight assembly.	26.08. 96	FOLDER 19
16 2	ETI/OHE/SK/588	-	Counter weight eye rod.	02.02. 94	FOLDER 19
16 3	ETI/OHE/SK/597	-	Typical pneumatic circuit for raising/lowering of pantograph from cab of OHE recording cum test car.	11.02. 94	FOLDER 19
16 4	ETI/OHE/SK/603	-	Schematic arrangement of uninsulated overlap (Three spans and four spans).	15.12. 94	FOLDER 19
16 5	ETI/OHE/SK/604	-	Schematic arrangement of insulated overlap (Three spans and four spans).	15.12. 94	FOLDER 19
16 6	ETI/OHE/ SK/605	-	Sag and tension chart (higher section of OHE)	01.12. 94	FOLDER 19

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167	ETI/OHE/ SK/606	-	Dropper schedule for regulated OHE (for higher section of OHE)	01.12.94	FOLDER 19
168	ETI/OHE/ SK/607	-	Schematic arrangement of uninsulated over lap (Three spans and four spans) for higher section of OHE	01.12.94	FOLDER 19
169	ETI/OHE/ SK/608	-	Schematic arrangement of insulated over lap (Three spans and four spans) for higher section of OHE	01.12.94	FOLDER 20
170	ETI/OHE/ SK/609	-	Schematic arrangement of uninsulated over lap (Three spans and four spans)	01.12.94	FOLDER 20
171	ETI/OHE/ SK/610	-	Schematic arrangement of insulated over lap (Three spans and four spans)	01.12.94	FOLDER 20

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2. ATD Series

1.	TI/DRG/OHE/ATD/RDSO/00001/99/2	-	Regulating equipment (three pulley type) 3:1 ratio (Modified)	29.08.06	FOLDER 21
2.	TI/DRG/OHE/ATD/RDSO/00002/99/3	-	Part Details of Regulating equipment (three pulley type) 3:1 ratio (Modified)	15.05.07	FOLDER 21
3.	TI/DRG/OHE/ATD/RDSO/00003/99/0	-	Adjustment chart of Regulating equipment (three pulley type) 3:1 ratio (Modified)	00-09-99	FOLDER 21
4.	TI/DRG/OHE/ATD/RDSO/00004/00/0	-	Trapezoidal counter weight assembly 3:1 ratio.	19.06.01	FOLDER 21
5.	TI/DRG/OHE/ATD/RDSO/00005/02/1	-	Clevis & Eye (Forged).	11.02.03	FOLDER 21
6.	TI/DRG/OHE/ATD/RDSO/00006/04/0	-	Adjustment chart of Regulating equipment three pulley types (3:1 Ratio) old for composite OHE.	14.10.06	FOLDER 21
7.	TI/DRG/OHE/ATD/RDSO/00007/04/0	-	Adjustment chart of Regulating equipment three pulley type (3:1 Ratio) modified for composite OHE.	14.10.06	FOLDER 21
8.	TI/DRG/OHE/ATD/RDSO/00008/05/0	-	Bolt M-18with castle nut.	30.06.05	FOLDER 21
9.	TI/DRG/OHE/ATD/RDSO/00009/05/0	-	Fixing arrangement of mast Anchor fitting for Anti falling device in three pulley (Mod) ATD	27.09.06	FOLDER 21

Chapter - I - OVERHEAD EQUIPMENT

2. COMPONENTS, FITTINGS, EQUIPMENTS AND SMALL PART STEEL WORKS (SPS)

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1	ETI/OHE/P/150	-	High tensile rustles 'U' bolt 10 mm dia.	19.09. 74	FOLDE R 22
2	RE/33/P/160	A	High tensile rustles pin bolt 10 mm dia.	01.06. 65	FOLDE R 22
3	RE/33/P/250	B	Steel 'U' bolt and nuts dia 14 mm	03.08. 74	FOLDE R 22
4	RE/33/P/260	C	Snap head pin dia 20 mm	30.06. 95	FOLDE R 22
5	RE/33/P/500	-	Rail jumper assembly	01.09. 59	FOLDE R 22
6	RE/33/P/501	B	Rail jumper clamp body grip screw and ferrule nut	14.02. 61	FOLDE R 22
7	RE/33/P/504	A	Rail jumper ferrule	14.02. 61	FOLDE R 22
8	RE/33/P/509	-	Rail jumper extension	06.05. 60	FOLDE R 23
9	RE/33/P/510	A	Earthing rods	11.01. 61	FOLDE R 23
10	RE/33/P/511	-	Earthing rods	06.05. 60	FOLDE R 23
11	RE/33/P/520	A	Earthing rod hook assembly	24.01. 61	FOLDE R 23
12	RE/33/P/521	-	Earthing rod head	24.01. 61	FOLDE R 23
13	RE/33/P/522	-	Earthing rod tongue	24.01. 61	FOLDE R 23
14	RE/33/P/523	-	Earthing rod hook pin and other small parts	24.01. 61	FOLDE R 23
15	RE/33/P/530	-	Insulated Tee junction	22.03. 60	FOLDE R 23
16	RE/33/P/550	-	Automatic come-along clamp (for contact wire)	22.01. 62	FOLDE R 23
17	RE/33/P/560	-	Automatic come- along clamp	25.06. 65	FOLDE R 23
18	ETI/OHE/P/580	-	Contact wire straightener assembly.	11.03. 70	FOLDE R 23
19	ETI/OHE/P/581-599	-	Details of contact wire straightener.	11.03. 70	FOLDE R 23
20	ETI/OHE/P/1009	A	Terminal connector (19mm) multiple holes (bolted type)	10.03. 05	FOLDE R 24
21	ETI/OHE/P/1010	A	Terminal connector (15mm) multiple holes (bolted type)	10.03. 05	FOLDE R 24
22	ETI/OHE/P/1030-2	D	Contact wire parallel clamp large	17.07. 91	FOLDE R 24
23	ETI/OHE/P/1030-3	A	Parallel Clamp (157-65/ 107/150) for WKRE	23.08. 91	FOLDE R 24
24	ETI/OHE/P/1031-2	C	Contact wire parallel clamp part large	24.01.	FOLDE

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				01	R 24
25	ETI/OHE/P/1040-2	E	Contact wire parallel clamp part small	17.07. 91	FOLDE R 24
26	ETI/OHE/P/1040-3	B	Parallel Clamp (90/50)	19.06. 01	FOLDE R 25
27	ETI/OHE/P/1041-2	C	Contact wire parallel clamp part small	19.06. 01	FOLDE R 25
28	ETI/OHE/P/1050-2	D	Parallel Clamp (150/105-150) for WKRE	23.08. 91	FOLDE R 25
29	ETI/OHE/P/1050-3	A	Parallel Clamp (150/160) for WKRE	19.06. 01	FOLDE R 25
30	ETI/OHE/P/1051-2	C	Parallel Clamp part (150/105-150)	19.06. 01	FOLDE R 25
31	ETI/OHE/P/1070-1	B	Bridle wire Clamp (6mm) with two bolts	09.06. 95	FOLDE R 25
32	ETI/OHE/P/1080	A	Contact wire splice (107)	01.06. 88	FOLDE R 25
33	ETI/OHE/P/1080-1	B	Contact wire splice (toothed type)	01.06. 88	FOLDE R 25
34	ETI/OHE/P/1081-1	C	Contact wire splice part	17.11. 87	FOLDE R 25
35	ETI/OHE/P/1081-2	A	Contact wire splice part	19.03. 87	FOLDE R 25
36	ETI/OHE/P/1090	-	Catenary splice (65)	29.06. 71	FOLDE R 25
37	ETI/OHE/P/1091	-	Catenary splice sleeve	29.06. 71	FOLDE R 25
38	ETI/OHE/P/1092	-	Catenary joint socket	29.06. 71	FOLDE R 26
39	ETI/OHE/P/1093	-	Catenary joint socket left	29.06. 71	FOLDE R 26
40	ETI/OHE/P/1094	A	Catenary joint cone	08.10. 84	FOLDE R 26
41	ETI/OHE/P/1102	-	Feeder joint socket	03.10. 72	FOLDE R 26
42	ETI/OHE/P/1104	-	Feeder joint cone	02.08. 96	FOLDE R 26
43	ETI/OHE/P/1110-2	D	Contact wire ending clamp (107)	01.06. 88	FOLDE R 26
44	ETI/OHE/P/1120	B	Catenary ending clamp (65)	01.06. 88	FOLDE R 26
45	ETI/OHE/P/1120-1	A	Catenary ending clamp (65) wedge type	07.12. 93	FOLDE R 26
46	ETI/OHE/P/1121	-	Catenary ending clamp body	20.08. 71	FOLDE R 26
47	ETI/OHE/P/1130	-	Feeder ending clamp (150)	25.09. 87	FOLDE R 26

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48	ETI/OHE/P/1131	-	Feeder ending clamp body	19.08.71	FOLDE R 26
49	ETI/OHE/P/1140	B	Large span wire ending clamp (130)	01.06.88	FOLDE R 26
50	ETI/OHE/P/1143	B	Large span wire joint cone.	20.10.00	FOLDE R 27
51	RE/33/P/1160	J	Suspension clamp	01.06.88	FOLDE R 27
52	RE/33/P/1161	E	Suspension clamp body	03.09.84	FOLDE R 27
53	RE/33/P/1163	D	Suspension clamp lock plate	13.09.65	FOLDE R 27
54	RE/33/P/1170	K	Double suspension clamp	01.06.88	FOLDE R 27
55	RE/33/P/1171	F	Double suspension clamp body	03.09.84	FOLDE R 27
56	RE/33/P/1172	C	Double suspension lock plate	04.02.78	FOLDE R 27
57	RE/33/P/1174	B	Packing saddle	08.01.87	FOLDE R 27
58	RE/33/P/1180	F	Contact wire dropper clip (107)	18.01.94	FOLDE R 27
59	RE/33/P/1181	G	Contact wire dropper clip part	18.01.94	FOLDE R 27
60	RE/33/P/1182	C	Locking wire	06.11.69	FOLDE R 27
61	ETI/OHE/P/1190	B	Catenary dropper assembly.	01.06.88	FOLDE R 28
62	ETI/OHE/P/1191	-	Catenary dropper link.	08.11.85	FOLDE R 28
63	ETI/OHE/P/1192	C	Catenary dropper clip.	01.06.88	FOLDE R 28
64	ETI/OHE/P/1193	-	Dropper.	08.11.85	FOLDE R 28
65	ETI/OHE/P/1194	A	Bridle wire dropper clip.	01.06.88	FOLDE R 28
66	ETI/OHE/P/1210-2	C	Knuckle assembly.	03.06.88	FOLDE R 28
67	ETI/OHE/P/1216	D	Knuckle tube clamp.	03.06.88	FOLDE R 28
68	RE/33/P/1220	E	Contact wire swivel clip	06.11.69	FOLDE R 28
69	RE/33/P/1221	D	Contact wire swivel clip part	27.04.74	FOLDE R 28
70	RE/33/P/1222	C	Contact wire swivel clip pin	06.11.69	FOLDE R 28
71	ETI/OHE/P/1230	-	Standard contact wire crossing assembly.	01.11.17	FOLDE

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72	ETI/OHE/P/1233	-	Contact wire crossing bar.	01.11. 74	FOLDE R 28
73	RE/33/P/1250	D	Double contact wire swivel clip	06.11. 69	FOLDE R 28
74	RE/33/P/1251	A	Double contact wire swivel clip part	16.07. 65	FOLDE R 29
75	ETI/OHE/P/1260-1	A	Strain clamp link assembly	11.03. 96	FOLDE R 29
76	ETI/OHE/P/1263	-	Strain clamp link.	09.08. 74	FOLDE R 29
77	RE/33/P/1270-1	F	Suspension clevis assembly (18 mm)	03.06. 88	FOLDE R 29
78	RE/33/P/1280	C	Double contact wire splice	03.06. 88	FOLDE R 29
79	ETI/OHE/P/1310	-	Pull off Clamp assembly.	12.12. 72	FOLDE R 29
80	ETI/OHE/P/1320	B	`U Clamp (50/50)	03.06. 88	FOLDE R 29
81	ETI/OHE/P/1330	B	`U Clamp (50)	03.06. 88	FOLDE R 29
82	ETI/OHE/P/1350	-	Thimble (10mm)	01.01. 73	FOLDE R 29
83	ETI/OHE/P/1360	B	Steel wire Ending Clamp (90)	03.06. 88	FOLDE R 29
84	ETI/OHE/P/1361	A	Steel wire joint socket.	18.02. 74	FOLDE R 29
85	ETI/OHE/P/1362	B	Steel wire joint cone.	09.10. 84	FOLDE R 29
86	ETI/OHE/P/1370-1	F	Raised register arm clamp.	08.05. 00	FOLDE R 30
87	ETI/OHE/P/1370-2	-	Raised register arm Clamp (150 FB).	01.12. 94	FOLDE R 30
88	ETI/OHE/P/1390-1	D	Crossing clamp.	26.09. 88	FOLDE R 30
89	ETI/OHE/P/1391-1	B	Crossing clamp piece.	01.05. 79	FOLDE R 30
90	ETI/OHE/P/1400	C	Short dropper assembly.	10.01. 89	FOLDE R 30
91	ETI/OHE/P/1410	B	Special dropper assembly.	25.05. 88	FOLDE R 30
92	ETI/OHE/P/1530-1	C	Parallel clamp (105/240) for dc OHE.	19.06. 01	FOLDE R 30
93	ETI/OHE/P/1540	D	Bimetallic parallel clamp (10/20).	10.01. 89	FOLDE R 30
94	ETI/OHE/P/1550	E	Parallel clamp (20/20).	10.01.	FOLDE

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95	ETI/OHE/P/1560	D	Bimetallic parallel clamp (15/20).	10.01. 89	FOLDE R 30
96	ETI/OHE/P/1580 Sh.1	F	Large suspension clamp 20mm.	10.03. 92	FOLDE R 30
97	ETI/OHE/P/1580 Sh.2	-	Large suspension clamp 20mm (with armour rod).	02.11. 92	FOLDE R 30
98	ETI/OHE/P/1600	C	Strain clamp 20 mm.	07.07. 88	FOLDE R 30
99	ETI/OHE/P/1610-1	-	Compression joint.	06.08. 82	FOLDE R 30
100	ETI/OHE/P/1611	B	Compression joint (spider).	01.11. 74	FOLDE R 31
101	ETI/OHE/P/1640	-	Repair sleeves (compression type).	01.11. 74	FOLDE R 31
102	ETI/OHE/P/1790	C	Contact wire ending clamp (150) (for WKRE/dc OHE).	01.12. 94	FOLDE R 31
103	RE/33/P/2041	D	Standard bracket tube Dia. 30/38	22.02. 84	FOLDE R 31
104	ETI/OHE/P/2060	-	Tube cap.	21.11. 85	FOLDE R 31
105	ETI/OHE/P/2064-1	A	Tube cap 30mm.	10.01. 89	FOLDE R 31
106	RE/33/P/2081	E	Large bracket tube Dia 40/49 mm	25.02. 84	FOLDE R 31
107	RE/33/P/2086	C	Large bracket sleeve	25.02. 84	FOLDE R 31
108	ETI/OHE/P/2104-1	A	Tube cap 40mm.	10.01. 89	FOLDE R 32
109	ETI/OHE/P/2110	B	Standard catenary suspension bracket.	03.06. 88	FOLDE R 32
110	ETI/OHE/P/2110-1	D	Standard catenary suspension bracket.	03.06. 88	FOLDE R 32
111	ETI/OHE/P/2111	B	Standard catenary suspension bracket bottom.	22.11. 85	FOLDE R 32
112	ETI/OHE/P/2112	A	Standard catenary suspension bracket top	05.09. 84	FOLDE R 32
113	ETI/OHE/P/2120	B	Standard catenary direct clamp	03.06. 88	FOLDE R 32
114	ETI/OHE/P/2121	A	Standard catenary direct clamp top	04.09. 84	FOLDE R 32
115	ETI/OHE/P/2122	A	Standard catenary direct clamp bottom	04.09. 84	FOLDE R 32
116	ETI/OHE/P/2123	C	Direct catenary clamp grip.	22.11. 85	FOLDE R 32
117	ETI/OHE/P/2124	B	Direct catenary clamp stud	03.06. 88	FOLDE R 32

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118	ETI/OHE/P/2125	B	Bridle wire sleeve.	01.12. 88	FOLDE R 32
119	ETI/OHE/P/2130	B	Large catenary suspension bracket.	03.06. 88	FOLDE R 32
120	ETI/OHE/P/2130-1	C	Large catenary suspension bracket.	03.06. 88	FOLDE R 32
121	ETI/OHE/P/2131	B	Large catenary suspension bracket top.	22.11. 85	FOLDE R 33
122	ETI/OHE/P/2132	B	Large catenary suspension bracket bottom.	22.11. 85	FOLDE R 33
123	ETI/OHE/P/2140	C	Catenary direct clamp (large)	03.06. 88	FOLDE R 33
124	ETI/OHE/P/2141	B	Large catenary direct clamp top.	05.09. 84	FOLDE R 33
125	ETI/OHE/P/2142	B	Large catenary direct clamp bottom	22.11. 85	FOLDE R 33
126	ETI/OHE/P/2150-1	E	Standard register arm hook	03.06. 88	FOLDE R 33
127	ETI/OHE/P/2151-1	C	Register arm hook top	02.05. 79	FOLDE R 33
128	ETI/OHE/P/2152-1	C	Register arm hook bottom	02.05. 79	FOLDE R 33
129	ETI/OHE/P/2160-1	E	Large register arm hook	03.06. 88	FOLDE R 33
130	ETI/OHE/P/2161-1	C	Large register arm hook top	02.05. 79	FOLDE R 33
131	ETI/OHE/P/2162-1	C	Large register arm hook bottom	02.05. 79	FOLDE R 34
132	ETI/OHE/P/2270-4	E	38mm register arm dropper assembly	07.07. 88	FOLDE R 34
133	ETI/OHE/P/2270-5	E	49mm register arm dropper assembly	07.07. 88	FOLDE R 34
134	ETI/OHE/P/2274-1	D	Dropper clip (38mm) for standard bracket tube	07.07. 88	FOLDE R 34
135	ETI/OHE/P/2277	D	Dropper clip (49mm) for large bracket tube	07.07. 88	FOLDE R 34
136	ETI/OHE/P/2340	C	Steady rod	11.03. 96	FOLDE R 34
137	ETI/OHE/P/2341	B	Steady rod piece	11.03. 96	FOLDE R 34
138	ETI/OHE/P/2345	-	Steady rod eye piece	03.10. 72	FOLDE R 34
139	ETI/OHE/P/2345-1	-	Double Vee suspension top eye piece	18.02. 66	FOLDE R 34
140	ETI/OHE/P/2352	A	Bent steady arm swivel	11.03. 96	FOLDE R 34
141	ETI/OHE/P/2360	L	25mm drop bracket assembly	19.07.	FOLDE

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				88	R 34
142	ETI/OHE/P/2380	C	Hook bracket	19.07.88	FOLDE R 34
143	ETI/OHE/P/2390	B	BFB steady arm assembly.	09.05.79	FOLDE R 34
144	ETI/OHE/P/2391	G	Steady arm hook (BFB)	19.11.99	FOLDE R 34
145	TI/DRG/OHE/FTGFE / RDSO/00003/00/0	-	Steady arm hook BFB (Forged)	29.09.00	FOLDE R 35
146	ETI/OHE/P/2392	C	BFB steady arm swivel.	04.04.90	FOLDE R 35
147	RE/33/P/2400	E	Tubular stay arm	19.08.66	FOLDE R 35
148	RE/33/P/2401	C	Stay tube (25 mm)	18.06.66	FOLDE R 35
149	ETI/OHE/P/2402	A	Tubular stay adjuster.	25.09.72	FOLDE R 35
150	ETI/OHE/P/2402-1	B	Tubular stay adjuster (large)	04.04.90	FOLDE R 35
151	ETI/OHE/P/2403-1	C	Tubular stay sleeve.	04.03.05	FOLDE R 35
152	TI/DRG/OHE/FTGFE / RDSO/00004/03/0	-	Tubular stay sleeve (Forged).	17.11.03	FOLDE R 35
153	ETI/OHE/P/2404	C	Stud bolt (10mm)	08.02.77	FOLDE R 35
154	ETI/OHE/P/2410	-	25mm register arm dropper assembly.	04.07.94	FOLDE R 35
155	ETI/OHE/P/2420-1	A	Register arm assembly for mast on platforms.	14.06.85	FOLDE R 36
156	RE/33/P/2421	C	Register arm tube 25mm	25.02.84	FOLDE R 36
157	RE/33/P/2422-1	B	Register arm eye piece 25mm	26.08.88	FOLDE R 36
158	TI/DRG/OHE/FTGFE / RDSO/00002/00/0	-	Register arm eye piece 25mm(Forged)	27.07.00	FOLDE R 36
159	ETI/OHE/P/2423-1	A	Tube cap 25mm.	10.01.89	FOLDE R 36
160	RE/33/P/2431	D	Raised register arm tube 25 mm	25.02.84	FOLDE R 36
161	RE/33/P/2432	E	Raised register arm adjuster 25 mm	11.03.96	FOLDE R 36
162	ETI/OHE/P/2440	-	38mm register arm dropper assembly	04.07.94	FOLDE R 36
163	ETI/OHE/P/2450	-	49mm register arm dropper assembly	04.07.	FOLDE

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				94	R 36
164	ETI/OHE/P/2460	E	25mm register arm dropper assembly.	07.07. 88	FOLDE R 36
165	ETI/OHE/P/2461-1	F	Dropper clip (34mm) for register arm tube.	07.07. 88	FOLDE R 36
166	ETI/OHE/P/2462-1	A	Register arm dropper	19.09. 85	FOLDE R 36
167	ETI/OHE/P/2463	A	Register arm dropper loop.	19.09. 85	FOLDE R 36
168	ETI/OHE/P/2464	-	Register arm dropper loop (short)	18.03. 71	FOLDE R 36
169	ETI/OHE/P/2465	B	Register arm dropper loop.	19.09. 85	FOLDE R 37
170	ETI/OHE/P/2470	E	Raised register arm dropper assembly.	07.07. 88	FOLDE R 37
171	ETI/OHE/P/2471-1	E	Dropper clip (25) for raised register arm.	07.07. 88	FOLDE R 37
172	ETI/OHE/P/2472-1	B	Raised register arm dropper	19.09. 85	FOLDE R 37
173	ETI/OHE/P/2480	-	Raised register arm dropper assembly	04.07. 94	FOLDE R 37
174	ETI/OHE/P/2490-2	E	25mm steady arm clamp	07.07. 88	FOLDE R 37
175	ETI/OHE/P/2520	B	Normal bent steady arm.	11.03. 96	FOLDE R 37
176	ETI/OHE/P/2522	B	Normal bent steady arm eye piece.	06.05. 86	FOLDE R 37
177	ETI/OHE/P/2523	B	Normal bent steady arm hook.	14.10. 92	FOLDE R 37
178	ETI/OHE/P/2540	B	BFB steady arm assembly.	19.08. 70	FOLDE R 37
179	ETI/OHE/P/2540-1	-	BFB steady arm assembly for tramway OHE (regulated).	09.06. 81	FOLDE R 37
180	ETI/OHE/P/2541	E	BFB steady arm eye piece.	14.10. 92	FOLDE R 37
181	ETI/OHE/P/2542	C	BFB steady arm swivel	04.04. 90	FOLDE R 37
182	ETI/OHE/P/2550-1/2	L	Standard antiwind clamp.	11.03. 96	FOLDE R 38
183	ETI/OHE/P/2550-3	E	Antiwind clamp for tramway type OHE(regulated)	11.03. 96	FOLDE R 38
184	RE/33/P/2700	E	Vee suspension assembly	18.09. 84	FOLDE R 38
185	RE/33/P/2701	C	Tramway Vee clamp swivel	18.09. 84	FOLDE R 38
186	ETI/OHE/P/2710	-	Unequal Vee suspension assembly	04.12. 74	FOLDE R 38

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187	RE/33/P/2720	B	Double Vee suspension assembly	04.02.66	FOLDE R 38
188	RE/33/P/2721	C	Double Vee suspension top	18.09.84	FOLDE R 38
189	ETI/OHE/P/2730	A	Section insulator support clamp.	18.09.84	FOLDE R 38
190	ETI/OHE/P/2731	A	Section insulator support clamp part.	18.09.84	FOLDE R 38
191	RE/33/P/2750	A	Double 'Vee' adjuster clamp assembly	09.06.66	FOLDE R 38
192	ETI/OHE/P/3010	C	Double clevis assembly.	19.07.88	FOLDE R 39
193	ETI/OHE/P/3021	C	Mast fitting for hook insulator.	04.03.05	FOLDE R 39
194	TI/DRG/OHE/FTGFE / RDSO/00005/04/0	-	Mast fitting for hook insulator(Forged)	12.08.04	FOLDE R 39
195	TI/DRG/OHE/FTGFE / RDSO/00006/05/0	-	Modified BFB Steady arm assembly with 25 mm Drop bracket (ID-2306).	23.12.05	FOLDE R 39
196	ETI/OHE/P/3050	B	Stay arm/bracket chair.	11.03.96	FOLDE R 39
197	RE/33/P/3070	J	Mast bracket fitting assembly	11.03.96	FOLDE R 39
198	RE/33/P/3070-1	H	Mast bracket fitting assembly (150)	19.07.88	FOLDE R 39
199	RE/33/P/3070-2	D	Mast bracket fitting assembly (200)	19.07.88	FOLDE R 39
200	RE/33/P/3071	F	Mast bracket clevis	02.05.79	FOLDE R 39
201	RE/33/P/3071-1	B	Mast bracket clevis (forged)	17.03.64	FOLDE R 39
202	ETI/OHE/P/3072	A	Mast bracket clevis pin.	19.07.88	FOLDE R 39
203	RE/33/P/3073	D	Mast bracket swivel (150)	02.05.79	FOLDE R 39
204	RE/33/P/3074	E	Mast bracket swivel (200)	02.05.79	FOLDE R 39
205	ETI/OHE/P/3076	C	Standard backing angle.	11.3.96	FOLDE R 39
206	RE/33/P/3100	G	Multiple cantilever extension	11.03.96	FOLDE R 40
207	ETI/OHE/P/3110	C	Register arm extension frame.	11.03.96	FOLDE R 40
208	RE/33/P/3120	H	Multiple cantilever cross arm assembly	11.03.96	FOLDE R 40
209	ETI/OHE/P/3121	A	Multiple cantilever cross arm.	01.04.	FOLDE

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				91	R 40
210	ETI/OHE/P/3122	A	Multiple cantilevers cross arm clamp (200).	11.03.96	FOLDE R 40
211	ETI/OHE/P/3123	A	Multiple cantilevers cross arm clamp (280).	11.03.96	FOLDE R 40
212	ETI/OHE/P/3124	A	Multiple cantilevers cross arm clamp (300).	11.03.96	FOLDE R 40
213	ETI/OHE/P/3131	A	Adopter for single bracket on structures and dropped arm.	11.03.96	FOLDE R 40
214	ETI/OHE/P/3230	C	Anchor fitting assembly on rolled section.	11.03.96	FOLDE R 41
215	ETI/OHE/P/3231	C	Mast anchor fitting (welded)	11.03.96	FOLDE R 41
216	ETI/OHE/P/3231-2	C	Mast anchor fitting (welded) for cement concrete counter weight.	11.03.96	FOLDE R 41
217	ETI/OHE/P/3232	C	Mast guy rod fitting welded.	11.03.96	FOLDE R 41
218	ETI/OHE/P/3233	B	Mast anchor fitting (200)	11.03.96	FOLDE R 41
219	ETI/OHE/P/3234/5	B	Mast guy rod fitting (200)	11.03.96	FOLDE R 41
220	ETI/OHE/P/3236/7	B	Anchor backing angle and spacer	11.03.96	FOLDE R 41
221	ETI/OHE/P/3240	D	Anchor fitting assembly on 'K' series mast, TTC mast 'P' type portal upright	11.03.96	FOLDE R 42
222	ETI/OHE/P/3241-2	B	Anchor fitting assembly on 'K' series mast, TTC mast 'P' type portal upright (for cement concrete counter weight)	11.03.96	FOLDE R 42
223	ETI/OHE/P/3250	D	Anchor assembly on 'N' & 'O' type portal uprights.	11.03.96	FOLDE R 42
224	ETI/OHE/P/3250-A	-	Anchor assembly on 'N' & 'O' type portal uprights with (ISA 150x115x12)	24.05.95	FOLDE R 42
225	ETI/OHE/P/3260	G	Boom anchor assembly on 'N' & 'O' type portals	11.03.96	FOLDE R 42
226	ETI/OHE/P/3270	A	Anchor assembly on BFB portal upright	28.09.88	FOLDE R 42
227	ETI/OHE/P/3280	A	Anchor assembly on G Type portal upright	28.09.88	FOLDE R 42
228	ETI/OHE/P/3290	A	Anchor assembly on R Type portal upright	28.09.88	FOLDE R 42
229	ETI/OHE/P/3300	A	Clamps and plates for mounting of number plate on OHE structures.	18.03.86	FOLDE R 42
230	ETI/OHE/P/3310	-	Anchor fitting assembly on K series, TTC masts & P type portal uprights (with ISA 150x115x12).	24.09.93	FOLDE R 43

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231	ETI/OHE/P/3320	-	Anchor fitting assembly on TM series masts (with ISA 150x115x12)	10.11.94	FOLDE R 43
232	ETI/OHE/P/3330	-	Clamp and plates for Mounting of number plates (retro- reflective type) on OHE structures.	10.03.98	FOLDE R 43
233	TI/DRG/OHE/FTGNF / RDSO/00001/02/1	-	Terminal clamp (15 mm) compression type.	04.03.05	FOLDE R 43
234	TI/DRG/OHE/FTGNF / RDSO/00002/02/1	-	Terminal clamp (19 mm) compression type.	04.03.05	FOLDE R 43
235	TI/DRG/OHE/FTGNF / RDSO/00003/03/0	-	Feeder splice (150)	25.03.03	FOLDE R 43
236	TI/DRG/OHE/FTGNF / RDSO/00004/03/0	-	Feeder splice sleeve.	25.03.03	FOLDE R 43
237	TI/DRG/OHE/FTGNF / RDSO/00005/03/0	-	Feeder joint socket left.	25.03.03	FOLDE R 43
238	TI/DRG/OHE/FTGNF / RDSO/00006/03/0	-	18mm Bus terminal clamp (Compression type).	27.11.03	FOLDE R 43
239	TI/DRG/OHE/FTGNF / RDSO/00007/06/0	-	Parallel clamp (Dia 20 mm/18.75mm).	01.02.06	FOLDE R 43
240	ETI/OHE/P/4001	A	Span wire clip (65)	10.03.92	FOLDE R 44
241	ETI/OHE/P/4002	A	Span wire clip (130)	10.03.92	FOLDE R 44
242	RE/33/P/4010-1	H	Cross span suspension clamp	28.09.98	FOLDE R 44
243	RE/33/P/4011-1	E	Cross span suspension clamp clevis	01.05.79	FOLDE R 44
244	RE/33/P/4012-1	D	Cross span suspension clamp part	01.05.79	FOLDE R 44
245	RE/33/P/4013-1	C	Cross span suspension clamp crank	16.08.74	FOLDE R 44
246	RE/33/P/4030	E	Steady wire clamp	28.09.88	FOLDE R 44
247	RE/33/P/4031	C	Steady wire clamp part	19.09.84	FOLDE R 44
248	ETI/OHE/P/4036	-	'U' bolt saddle.	30.01.73	FOLDE R 44
249	RE/33/P/4080	D	Head span mast fitting assembly (200 mm)	13.08.74	FOLDE R 44
250	RE/33/P/4090	C	Head span mast fitting assembly (250 mm)	13.08.74	FOLDE R 44

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251	RE/33/P/4100	E	Head span mast fitting assembly (300 mm)	28.09.88	FOLDE R 44
252	ETI/OHE/P/4110	C	Head span mast fitting assembly (450 mm)	28.09.88	FOLDE R 45
253	ETI/OHE/P/5000	B	Guy rod assembly	17.05.96	FOLDE R 45
254	ETI/OHE/P/5001/5001-1	D	Anchor bolt	17.05.96	FOLDE R 45
255	ETI/OHE/P/5001-3	C	Anchor bolt	17.05.96	FOLDE R 45
256	ETI/OHE/P/5002	B	Guy rod stirrup.	4.04.90	FOLDE R 45
257	ETI/OHE/P/5004/5/6-1	G	Guy rod dia 25mm.	17.05.96	FOLDE R 45
258	ETI/OHE/P/5007-1	B	Anchor 'V' bolt.	17.05.96	FOLDE R 45
259	ETI/OHE/P/5008	B	Anchor loop.	17.05.96	FOLDE R 45
260	ETI/OHE/P/5011	A	5 tonne buckle	19.09.85	FOLDE R 45
261	ETI/OHE/P/5012	B	5 tonne eye bolt right.	11.04.89	FOLDE R 46
262	ETI/OHE/P/5013	B	5 tonne eye bolt left.	11.04.89	FOLDE R 46
263	ETI/OHE/P/5020	B	9 tonne adjuster	11.04.89	FOLDE R 46
264	ETI/OHE/P/5020-1	-	9 tonne adjuster (eye and clevis type)	09.04.92	FOLDE R 46
265	ETI/OHE/P/5020-2	-	9 tonne adjuster (double clevis type)	24.08.92	FOLDE R 46
266	ETI/OHE/P/5021	A	9 tonne turn buckle.	19.09.85	FOLDE R 46
267	ETI/OHE/P/5022	B	9 tonne eye bolt left	11.04.89	FOLDE R 46
268	ETI/OHE/P/5023	B	9 tonne eye bolt right.	11.04.89	FOLDE R 46
269	ETI/OHE/P/5024	-	9 tonne clevis bolt – Left.	09.04.92	FOLDE R 46
270	ETI/OHE/P/5025	-	9 tonne clevis bolt – Right	24.08.92	FOLDE R 47
271	ETI/OHE/P/5030	C	Anchor double strap assembly.	11.04.89	FOLDE R 47
272	ETI/OHE/P/5040	B	18mm single clevis assembly	11.04.89	FOLDE R 47
273	TI/DRG/OHE/FTGFE / RDSO/00001/00/0	-	18mm single clevis assembly modified	20.07.00	FOLDE R 47

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274	ETI/OHE/P/5060-2	C	Standard guide tube assembly.	17.05. 96	FOLDE R 47
275	ETI/OHE/P/5064/65 /66	B	Details of guide tube attachment for trapezoidal counter weight.	17.05. 96	FOLDE R 47
276	ETI/OHE/P/5064- 1/64-2	A	Guide tube bracket angle (welded) for attachment on BFB mast and portal (for trapezoidal counter weight).	17.05. 96	FOLDE R 47
277	ETI/OHE/P/5090	C	Counter weight assembly.	24.08. 00	FOLDE R 47
278	ETI/OHE/P/5090-1	D	Trapezoidal counter weight assembly.	24.08. 00	FOLDE R 47
279	ETI/OHE/P/5090-3	F	Counter weight assembly (light).	24.08. 00	FOLDE R 47
280	ETI/OHE/P/5090-4	F	Cement concrete counter weight assembly.	17.05. 96	FOLDE R 47
281	ETI/OHE/P/5090-5	B	Counter weight assembly for regulating equipment (3:1)	24.08. 00	FOLDE R 47
282	ETI/OHE/P/5090-6	B	Counter weight assembly (for tramway type OHE) (1250 kgf)	24.08. 00	FOLDE R 47
283	ETI/OHE/P/5091	B	Cast iron base weight.	24.08. 00	FOLDE R 47
284	ETI/OHE/P/5092/93	B	Counter weight piece.	24.08. 00	FOLDE R 48
285	ETI/OHE/P/5094/95	F	Counter weight piece eye rod	04.04. 90	FOLDE R 48
286	ETI/OHE/P/5128	A	Regulating rope and fitting.	10.04. 89	FOLDE R 48
287	ETI/OHE/P/5183	C	Double eye distance rod (dia 20mm)	04.04. 90	FOLDE R 48
288	ETI/OHE/P/5190-1	C	Compensating plate assembly.	22.07. 96	FOLDE R 48
289	ETI/OHE/P/5190-2	C	Equalizing plate assembly.	22.07. 96	FOLDE R 48
290	ETI/OHE/P/5191	B	Compensating plate.	22.07. 96	FOLDE R 48
291	ETI/OHE/P/5191- 1/2	D	Compensating plate.	01.12. 94	FOLDE R 48
292	ETI/OHE/P/5192	B	Equalizing plate.	22.07. 96	FOLDE R 48
293	ETI/OHE/P/5192- 1/2	C	Equalizing plate (for WKRE)	01.12. 94	FOLDE R 48
294	ETI/OHE/P/5193	B	Short equalizing plate.	22.07. 96	FOLDE R 49
295	ETI/OHE/P/5194-1	-	Compensating plate assembly	01.12. 94	FOLDE R 49
296	ETI/OHE/P/5195-2	A	Equalizing plate assembly	26.08.	FOLDE

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297	ETI/OHE/P/5220	F	Guy rod double strap assembly.	04.04.90	FOLDE R 49
298	ETI/OHE/P/5221/2	D	Guy rod double strap	04.04.90	FOLDE R 49
299	ETI/OHE/P/5300	H	Regulating equipment (winch type) 5:1 ratio.	26.06.98	FOLDE R 49
300	ETI/OHE/P/5311	B	Drum	25.08.87	FOLDE R 49
301	ETI/OHE/P/5312/15 / 21/31	D	Part detail of regulating equipment (winch type).	22.07.96	FOLDE R 49
302	ETI/OHE/P/5314/16 -1/17-1/23/24/33- 36	B	Part detail of regulating equipment (winch type.)	22.07.96	FOLDE R 49
303	ETI/OHE/P/5313/32	A	Axles	05.11.84	FOLDE R 49
304	ETI/OHE/P/5318	A	Drum anchor fitting	05.11.84	FOLDE R 49
305	ETI/OHE/P/5319-1	B	Arm anchor fitting	29.11.84	FOLDE R 50
306	ETI/OHE/P/5322	A	Clevis and eye	29.11.84	FOLDE R 50
307	ETI/OHE/P/5341	A	Stainless steel rope end fitting.	05.11.84	FOLDE R 50
308	ETI/OHE/P/5350-1	C	Limiting device for winch type regulating equipment (modified)	26.06.98	FOLDE R 50
309	ETI/OHE/P/5500- 1Sh.1	K	Regulating equipment three pulley type (3:1 ratio)	22.07.96	FOLDE R 50
310	ETI/OHE/P/5500- 1Sh.2	C	Details of regulating equipment (3:1 ratio)	22.07.96	FOLDE R 50
311	ETI/OHE/P/6000	C	Standard stay arm insulator for clean areas.	28.07.04	FOLDE R 50
312	ETI/OHE/P/6000-2	C	Stay arm insulator (for polluted zone).	28.07.04	FOLDE R 50
313	ETI/OHE/P/6001	A	Stay arm insulator tube cap.	28.07.04	FOLDE R 51
314	ETI/OHE/P/6002	-	Stay arm insulator hook cap.	17.12.79	FOLDE R 51
315	ETI/OHE/P/6003	-	Stay arm insulator hook.	17.12.79	FOLDE R 51
316	ETI/OHE/P/6020	A	Standard 9 tonne insulator for clean areas.	27.05.86	FOLDE R 51
317	ETI/OHE/P/6020-1	C	9 tonne insulator (for polluted zones).	27.05.86	FOLDE R 51
318	ETI/OHE/P/6021	-	9 tonne insulator cap.	17.12.79	FOLDE R 51

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319	ETI/OHE/P/6030	B	Standard bracket insulator for clean areas.	27.05.86	FOLDE R 51
320	ETI/OHE/P/6030-1	C	Bracket insulator (for polluted zone).	27.05.86	FOLDE R 51
321	ETI/OHE/P/6031	-	Bracket insulator tube cap.	17.12.79	FOLDE R 51
322	ETI/OHE/P/6032	-	Bracket insulator standard cap.	17.12.79	FOLDE R 51
323	ETI/OHE/P/6060-1	A	Disc insulator assembly (socket type)	03.05.79	FOLDE R 51
324	ETI/OHE/P/6061-1	A	Disc insulator (255mm) (Ball and socket type).	02.06.79	FOLDE R 52
325	ETI/OHE/P/6061-3	A	Disc insulator (255mm) (clevis type)	09.05.79	FOLDE R 52
326	ETI/OHE/P/6068	B	Ball eye.	11.12.92	FOLDE R 52
327	ETI/OHE/P/6069	A	Socket eye	02.05.79	FOLDE R 52
328	ETI/OHE/P/6070	H	3 kV post insulator assembly.	17.05.96	FOLDE R 52
329	ETI/OHE/P/6070-1	-	11 kV post insulator.	22.07.83	FOLDE R 52
330	ETI/OHE/P/6075/6076	C	3Kv pedestal insulator cap clamp.	17.05.96	FOLDE R 52
331	ETI/OHE/P/6090	D	Post insulator assembly (with clamps)	17.05.96	FOLDE R 52
332	ETI/OHE/P/6090-1	C	Standard post insulator for clean areas.	27.05.86	FOLDE R 52
333	ETI/OHE/P/6094	B	Post insulator jumper clamp.	17.05.96	FOLDE R 52
334	ETI/OHE/P/6094-1	A	Post insulator jumper clamp (30mm) for 220 kV traction substations.	17.05.96	FOLDE R 52
335	ETI/OHE/P/6095	B	Post insulator bus bar clamp.	17.05.96	FOLDE R 52
336	ETI/OHE/P/6095-1	A	Post insulator bus bar clamp (50mm) for 220 kV traction substations.	17.05.96	FOLDE R 53
337	ETI/OHE/P/6100	B	Section insulator assembly.	24.05.94	FOLDE R 53
338	ETI/OHE/P/6110	A	Standard sectioning insulator for clean areas.	27.05.86	FOLDE R 53
339	ETI/OHE/P/6120	B	Contact wire end link assembly.	24.05.94	FOLDE R 53
340	ETI/OHE/P/6121	A	Contact wire end link body.	24.05.94	FOLDE R 53
341	ETI/OHE/P/6122-6125	B	Fasteners for section insulator assembly.	24.05.94	FOLDE R 53
342	ETI/OHE/P/6130	A	Section insulator cross beam assembly.	24.05.	FOLDE

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343	ETI/OHE/P/6131	A	Cross beam.	24.05.94	FOLDE R 53
344	ETI/OHE/P/6132/33	A	Fasteners for section insulator assembly.	24.05.94	FOLDE R 53
345	ETI/OHE/P/6140	A	Runner assembly.	24.05.94	FOLDE R 53
346	ETI/OHE/P/6141	A	Runner bracket.	24.05.94	FOLDE R 53
347	ETI/OHE/P/6142	A	Runner left.	24.05.94	FOLDE R 53
348	ETI/OHE/P/6143	A	Runner right.	24.05.94	FOLDE R 54
349	ETI/OHE/P/6150	A	Runner end contact wire ending clamp.	24.05.94	FOLDE R 54
350	ETI/OHE/P/6151	A	Runner end contact wire ending clamp part.	24.05.94	FOLDE R 54
351	ETI/OHE/P/6160	A	Insulator end contact wire ending clamp part.	24.05.94	FOLDE R 54
352	ETI/OHE/P/6161	A	Ending clamp part left (107).	24.05.94	FOLDE R 54
353	ETI/OHE/P/6162	A	Ending clamp part right (107)	24.05.94	FOLDE R 54
354	ETI/OHE/P/6170	C	Parallel clamp double contact wire.	24.05.94	FOLDE R 54
355	ETI/OHE/P/6180-1	A	Section insulator dropper assembly (without double strap).	24.05.94	FOLDE R 54
356	ETI/OHE/P/6180-2	A	Section insulator dropper assembly (with double strap).	24.05.94	FOLDE R 54
357	ETI/OHE/P/6181-1	D	Section insulator double strap assembly.	24.05.94	FOLDE R 55
358	ETI/OHE/P/6260	A	Standard operating rod insulator for clean areas.	27.05.86	FOLDE R 55
359	ETI/OHE/P/6310-1	B	(18mm) bus terminal (multiple bolt)	04.03.05	FOLDE R 55
360	ETI/OHE/P/6311-1	B	Bus terminal piece (multiple holes).	23.01.87	FOLDE R 55
361	ETI/OHE/P/6313	-	Bus terminal cone.	18.05.77	FOLDE R 55
362	ETI/OHE/P/6312/6314	A	Bus terminal cone socket and check nut.	23.01.87	FOLDE R 55
363	ETI/OHE/P/6320	A	18mm bus splice.	19.09.84	FOLDE R 55
364	ETI/OHE/P/6321	B	Bus splices body.	23.01.87	FOLDE R 55
365	RE/33/P/6330	C	18 mm bus tee joint	23.01.87	FOLDE R 55

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366	RE/33/P/6331	D	Bus tee body	23.01.87	FOLDE R 55
367	RE/33/P/6350	B	18 mm bus terminating tee	24.08.74	FOLDE R 56
368	RE/33/P/6351	B	Bus terminating tee body	26.03.74	FOLDE R 56
369	RE/33/P/6600	B	Double wire section insulator	27.02.74	FOLDE R 56
370	ETI/OHE/P/7000	E	Structure bonds.	04.10.91	FOLDE R 56
371	ETI/OHE/P/7011	-	Copper rivet dia 20x30.	04.01.71	FOLDE R 56
372	ETI/OHE/P/7020	B	Earthing station.	06.01.76	FOLDE R 56
373	ETI/OHE/P/7021	A	Earth electrode.	17.05.96	FOLDE R 56
374	ETI/OHE/P/7030	F	Longitudinal rail bond.	25.10.89	FOLDE R 56
375	RE/33/P/7040	E	Earth wire mast clamp	17.05.96	FOLDE R 57
376	RE/33/P/7050	D	Earth wire strain clamp	17.04.89	FOLDE R 57
377	RE/33/P/7501	F	Typical structure number plate (100 mm size)	19.04.89	FOLDE R 57
378	RE/33/P/7502	C	Typical structure number plate (75 mm size)	19.04.89	FOLDE R 57
379	ETI/OHE/P/7503	E	Typical structure number plate (retro reflective type) 125 mm sizes.	02.03.06	FOLDE R 57
380	ETI/OHE/P/7504	-	Typical structure number plate (125mm size).	25.01.05	FOLDE R 57
381	RE/33/P/7511	B	Typical isolator number plate	01.06.79	FOLDE R 57
382	ETI/OHE/P/7531	C	Caution plate 25000 volts ac.	25.05.88	FOLDE R 57
383	ETI/OHE/P/7541	A	Warning board (caution live wire)	27.02.84	FOLDE R 57
384	RE/33/P/7551	C	General caution notice at entrance to Railway station (Hindi and English)	10.12.84	FOLDE R 57
385	RE/33/P/7561	B	General caution notice for staff (Hindi and English)	27.02.84	FOLDE R 58
386	ETI/OHE/P/7572	B	Dead section caution board (electric engine stop).	17.04.89	FOLDE R 58
387	ETI/OHE/P/7573	A	Dead section caution board (caution unwired turnouts)	27.02.84	FOLDE R 58
388	ETI/OHE/P/7574	B	Dead section caution board (power block working limit).	10.12.84	FOLDE R 58
389	ETI/OHE/P/7575	A	Dead section caution board (danger).	27.02.	FOLDE

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				84	R 58
390	ETI/OHE/P/7581	A	Caution for running staff (lowering panto)	27.02.84	FOLDE R 58
391	ETI/OHE/P/7582	A	Caution board for running staff (raising panto)	27.02.84	FOLDE R 59
392	ETI/OHE/P/8060	C	Medium super mast assembly.	20.04.79	FOLDE R 59
393	ETI/OHE/P/8061	C	Medium super mast channel.	22.07.96	FOLDE R 59
394	RE/33/P/8081	B	Pedestal insulator support clamp.	22.07.96	FOLDE R 59
395	RE/33/P/8082	C	Pedestal insulator base support	22.07.96	FOLDE R 59
396	ETI/OHE/P/8083/3-1	B	Post insulator base support on portal booms	22.07.96	FOLDE R 59
397	ETI/OHE/P/8083-2	A	Post insulator base support on TTC booms.	22.07.96	FOLDE R 59
398	ETI/OHE/P/8084/85/86	A	Small parts steel works for mounting of 3kkV 11kV/ 25kV post insulator.	22.07.96	FOLDE R 60
399	ETI/OHE/P/8087	A	Insulator mounting channel for connection of RC to track.	22.07.96	FOLDE R 60
400	ETI/OHE/P/8091	A	Clamping plate and channel for connection of RC to rail.	22.07.96	FOLDE R 60
401	ETI/OHE/P/8094/96	A	Supporting plate and wooden block for connection of RC to rail	22.07.96	FOLDE R 60
402	ETI/OHE/P/9031/45	A	Mounting of 25 kV isolator on OHE structures (steel work details)	26.06.69	FOLDE R 60
403	ETI/OHE/P/9047	A	Guide tube bracket angle for attachment on fabricated mast K150, K175, K200, K225, TTC and P Type portal (for trapezoidal counter wt.).	22.07.96	FOLDE R 60
404	ETI/OHE/P/9048	A	Guide tube bracket angle for attachment on G type portal (for trapezoidal counter wt.).	22.07.96	FOLDE R 60
405	ETI/OHE/P/9049	A	Guide tube bracket angle for attachment on 6" x 6" BFB mast and BFB portal (for trapezoidal counter wt.).	22.07.96	FOLDE R 60
406	ETI/OHE/P/9050/51	A	Guide tube bracket angle for attachment on fabricated mast K150, K175, K200, K225, TTC, P type and G type portal	22.07.96	FOLDE R 60
407	ETI/OHE/P/9052/3/4/5	A	Guide tube support angle for attachment on fabricated mast K150, K175, K200, K225, TTC and on P and G type portal.	22.07.96	FOLDE R 61
408	ETI/OHE/P/9070/1	B	Guy rod 20 mm	13.05.96	FOLDE R 61

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409	RE/33/302	B	Gill sans medium letter and figure 3 inch	13.03.62	FOLDE R 61
410	RE/33/347	B	Warning for neutral section	25.02.84	FOLDE R 61
411	RE/33/348	B	Signals at neutral section for electric engines to switch off power	25.02.84	FOLDE R 61
412	RE/33/349	B	Signals at neutral section for electric engines to switch on power	25.02.84	FOLDE R 61
413	TI/DRG/OHE/NS/RD SO/00001/00/01	A	Signals at neutral section.	17.04.02	FOLDE R 61
414	RE/33/350	B	Arrangement for fixing of danger board for limit of carriage watering under OHE	16.10.59	FOLDE R 61
415	RE/33/355	B	Warning for neutral section	25.02.84	FOLDE R 61
416	RE/33/371	-	Men –working board for equipment	23.11.59	FOLDE R 62
417	RE/33/411	-	Caution board for gang men	27.04.60	FOLDE R 62
418	RE/33/436	C	Caution board for special locations	06.12.89	FOLDE R 62
419	RE/33/493	-	General caution notice for staff (English and Orriya)	29.09.69	FOLDE R 62
420	RE/33/527	A	Gillsons letters and figures	02.06.64	FOLDE R 62
421	ETI/OHE/SK/22	-	Profile of grooved contact wire (107 mm ²).	25.06.72	FOLDE R 62
422	ETI/OHE/SK/97	-	Suspension clamp for wolf conductor (without armour rod).	16.06.72	FOLDE R 62
423	ETI/OHE/SK/99	-	Socket Eye.	16.06.72	FOLDE R 62
424	ETI/OHE/SK/101	-	Bird guard.	09.08.72	FOLDE R 62
425	ETI/OHE/SK/102	-	Number plate.	09.08.72	FOLDE R 62
426	ETI/OHE/SK/103	-	Phase plate.	09.08.72	FOLDE R 62
427	ETI/OHE/SK/104	-	Danger notice plate.	09.08.72	FOLDE R 62
428	ETI/OHE/SK/105	-	Circuit plate.	09.08.72	FOLDE R 62
429	ETI/OHE/SK/106	-	Anti climbing device.	09.08.72	FOLDE R 62
430	ETI/OHE/SK/107	-	Earthing detail.	09.08.72	FOLDE R 62
431	ETI/OHE/SK/534	C	Parallel clamp (large) compression type.	05.07.93	FOLDE R 62
432	ETI/OHE/SK/535	B	Jumper clamp (large) compression type.	30.06.	FOLDE

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				93	R 62
433	ETI/OHE/SK/570	-	Typical arrangement of OHE with insulated copper catenary under over line structures.	18.09.91	FOLDE R 62
434	ETI/OHE/SK/575	A	Parallel clamp (small) compression type.	05.07.93	FOLDE R 62
435	ETI/OHE/SK/576	B	Jumper clamp (small) compression type.	05.07.00	FOLDE R 62
436	TI/DRG/OHE/GUYR OD/RDSO/00001/07/0	-	Schedule Anchor Block for B.G. Tracks.	19.11.07	FOLDE R 62
437	TI/DRG/OHE/GUYR OD/RDSO/00002/07/0	-	Double Guy Rod arrangement with Anchor block for B.G. track.	19.11.07	FOLDE R 62
438	TI/DRG/OHE/GUYR OD/RDSO/00003/07/0	-	Schedule of Anchor Block for B.G. track block cotton soil.	19.11.07	FOLDE R 62
439	TI/DRG/OHE/GUYR OD/RDSO/00004/07/0	-	Guy rod dia 25mm.	19.11.07	FOLDE R 62
440	TI/DRG/OHE/FTGEE /RDSO/00007/1010	-	Standard Register Arm hook (0.D.38 mm)	01-01-10	-
441	TI/DRG/OHE/FTGFE /RDSO/00008/1010	-	Register Arm hook top	01-01-10	-
442	TI/DRG/OHE/FTGEE /RDSO/00009/1010	-	Register Arm hook bottom	01-01-10	-
443	TI/DRG/OHE/FTGEE /RDSO/00010/1010	-	Register Arm hook (0.D.49 mm)	01-01-10	-
444	TI/DRG/OHE/FTGEE /RDSO/00011/1010	-	Register Arm hook top	01-01-10	-
445	TI/DRG/OHE/FTGEE /RDSO/00012/1010	-	Register Arm hook bottom	01-01-10	-
446	TI/DRG/OHE/FTGEE /RDSO/00013/1010	-	Mast Bracket swivel (150)	01-01-10	-
447	TI/DRG/OHE/FTGEE /RDSO/00014/1010	-	Mast Bracket swivel (200)	01-01-10	-
448	TI/DRG/OHE/FTGEE /RDSO/00015/1010	-	25 mm steady Arm clamp	01-01-10	-
449	TI/DRG/OHE/FTGEE /RDSO/00016/1010	-	25 mm drop bracket assembly	01-01-10	-

Chapter - I – OVERHEAD EQUIPMENT

4. GENERAL ARRANGEMENT AND FITTINGS FOR COMPOSITE OHE (ALUMINIUM ALLOY CATENARY AND COPPER CONTACT WIRE)

1	ETI/OHE/G/02121 SH3	-	Schematic arrangement of uninsulated overlap for composite OHE	19.05.79	FOLDER 63
2	ETI/OHE/G/02121	-	Schematic arrangement of uninsulated	04.07.94	FOLDER

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	SH5		overlap for composite OHE (Aluminium alloy catenary and copper contact wire)		63
3	ETI/OHE/G/02131 SH2	A	Schematic arrangement of insulated overlap for composite OHE	25.09.87	FOLDER 63
4	ETI/OHE/G/02131 SH4	-	Schematic arrangement of insulated overlap for composite OHE (Aluminium alloy catenary and copper contact wire)	04.07.94	FOLDER 63
5	ETI/OHE/G/02141 SH2	-	General arrangement of regulated composite OHE at turnouts (overlap and crossed type)	19.05.79	FOLDER 64
6	ETI/OHE/G/03121 SH2	B	Standard termination of regulated composite OHE to suit different tension of conductor	29.03.84	FOLDER 64
7	ETI/OHE/G/03121 SH3	A	Standard termination of regulated composite OHE with equal tension (116 mm ² AAA catenary and 107 mm ² HDGC contact wire)	01.08.97	FOLDER 64
8	ETI/OHE/G/05101 SH2	B	In span jumper connection between A1 alloy catenary and copper contact wire	02.06.86	FOLDER 64
9	ETI/OHE/G/05102 SH2	B	Continuity jumper connection at uninsulated overlap for composite OHE	02.06.86	FOLDER 64
10	ETI/OHE/G/05103 SH2	B	Connections at turnouts for composite OHE	02.06.86	FOLDER 64
11	ETI/OHE/G/05104 SH2	B	Potential ignaling connection at insulated overlap and neutral section for composite OHE	02.06.86	FOLDER 65
12	ETI/OHE/G/05106 SH2	C	Connections at diamond crossing for composite OHE	02.06.86	FOLDER 65
13	ETI/OHE/G/05121 SH3	-	General arrangement of connection to composite OHE by copper cross feeder.	22.04.94	FOLDER 65
14	ETI/OHE/G/5122 SH3	-	General arrangement of connection at switching station on double track section for composite OHE by copper cross feeder.	22.04.94	FOLDER 65
15	ETI/OHE/G/05123 SH3	-	General arrangement of connection at switching station on multiple track section (for composite OHE) by copper cross feeder.	22.04.94	FOLDER 65
16	ETI/OHE/G/05181 SH2	B	Assembly of section insulator for composite OHE.	24.05.94	FOLDER 66
17	ETI/OHE/G/00194	-	Adjustment chart for winch type regulating equipment for composite OHE.	27.10.87	FOLDER 66
18	ETI/OHE/P/1171-1	A	Double suspension clamp body for	26.03.84	FOLDER

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			aluminium alloy catenary.		66
19	ETI/OHE/P/1770	C	Raised register arm clamp(MCI)	16.02.88	FOLDER 66
20	ETI/OHE/SK/123	D	Parallel grooved clamp (14/9)	17.02.88	FOLDER 66
21	ETI/OHE/SK/130	D	Aluminium alloy catenary dropper clip (for all aluminium OHE)	15.06.89	FOLDER 66
22	ETI/OHE/SK/134	D	Catenary splice (cone type) Al. alloy catenary.	28.07.86	FOLDER 67
23	ETI/OHE/SK/176	D	Suspension clamp (MCI) for Al. alloy catenary	26.03.84	FOLDER 67
24	ETI/OHE/SK/205	B	Double suspension lock plate (MCI)	26.03.84	FOLDER 67
25	ETI/OHE/SK/231	C	Parallel groove clamp (18/14)	10.04.85	FOLDER 67
26	ETI/OHE/SK/285	C	Crimp type repair sleeve for AAA stranded catenary wire.	01.09.89	FOLDER 67
27	ETI/OHE/SK/333	D	Catenary dropper Clip assembly ignaling washer	15-06-89	FOLDER 67
28	ETI/OHE/SK/375	A	Span and stagger chart for composite OHE. (for 75 & 112.5 kgf wind pressure)	05.05.84	FOLDER 67
29	ETI/OHE/SK/436	B	Envelope type end fitting assembly for All Aluminium alloy stranded catenary wire (size 19/2.79 mm)	04.05.92	FOLDER 67
30	ETI/OHE/SK/449	-	Dropper schedule for regulated composite OHE equal encumbrances (1400/1400) for 1000/1000 kgf tension.	07.05.84	FOLDER 68
31	ETI/OHE/SK/450	-	Dropper schedule for uninsulated overlap spans of composite OHE.	07.05.84	FOLDER 68
32	ETI/OHE/SK/451	-	Dropper schedule for insulated overlap spans of composite OHE	07.05.84	FOLDER 68
33	ETI/OHE/SK/468	A	Aluminium catenary suspension clamp assembly (MCI)	10.04.85	FOLDER 68
34	ETI/OHE/SK/469	A`	Double suspension clamp assembly (MCI) for Al. alloy catenary.	10.04.85	FOLDER 68
35	ETI/OHE/SK/479	-	Dropper schedule for compensated with unequal Encumbrance (1.4/0.9) for composite OHE	12.02.87	FOLDER 68
36	ETI/OHE/SK/480	-	Dropper schedule for compensated OHE with unequal encumbrance (1.4/0.75) for composite OHE	12.02.87	FOLDER 68
37	ETI/OHE/SK/591	-	Parallel groove clamp (19/14)	23-03-94	FOLDER 68

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5. **GENERAL ARRANGEMENT FOR LOADING MECHANISM**

1	TI/DRG/OHE/COLLAP/ RDSO/0001/99/0	-	Special bracket for collapsible OHE.	23.08.99
2	TI/DRG/OHE/COLLAP/ RDSO/0002/99/0	-	General arrangement of fixing the special bracket assembly & suspension of contact wire.	23.08.99
3	TI/DRG/OHE/COLLAP/ RDSO/0003/99/0	-	General arrangement of suspension of contact wire (S) from existing bracket assembly of tram-way OHE.	24.08.99
4	TI/DRG/OHE/SWL/ RDSO/0004/08/0	-	Motorised arrangement for collapsing the OHE.	03.12.08
5	TI/DRG/OHE/COLLAP/ RDSO/0005/99/0	-	General arrangement for collapsing the OHE.	26.08.99
6	TI/DRG/OHE/COLLAP/ RDSO/0006/99/0	-	General arrangement of fixing of conduit pipe on special bracket assembly & connection of wire rope.	26.08.99
7	TI/DRG/OHE/SWL/ RDSO/0007/08/0	-	General arrangement of Isolator connection to collapsible OHE.	03.12.08
8	TI/DRG/OHE/COLLAP/ RDSO/0008/99/0	-	Special stay arm insulator for collapsible OHE.	30.08.99
9	TI/DRG/OHE/COLLAP/ RDSO/0009/99/0	-	Special jumper clamp.	30.08.99
10	TI/DRG/OHE/SWL/ RDSO/00010/08/0	-	General arrangement (lay out plan) for the swiveling OHE.	03.12.08

Chapter - II - POWER SUPPLY INSTALLATION

1. **GENERAL ARRANGEMENT OF SUBSTATION, LAYOUT, SWITCHING STATION, BT, REMOTE CONTROL AND EARTHING ARRANGEMENT**

1	ETI/PSI/003	C	Typical location and schematic connection Diagram for a three interrupter switching station.	18.12.84	FOLDE R 1
2	ETI/PSI/004	F	Typical General Arrangement of a three interrupter switching station	31.05.02	FOLDE R 1
3	ETI/PSI/004-1	A	Simplified typical general arrangement of a three interrupter switching station by eliminating double pole isolator.	16.03.98	FOLDE R 1

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4	ETI/PSI/005	F	Typical location plan and general arrangement for sectioning and paralleling station.	31.05.02	FOLDE R 1
5	ETI/PSI/005-1	A	Simplified location plan and general arrangement for sectioning and paralleling station by eliminating DP isolator.	16.03.98	FOLDE R 1
6	ETI/PSI/006	E	Typical location plan and general arrangement for a feeding station	03.08.01	FOLDE R 1
7	ETI/PSI/008	A	Outrigger arrangement	08.02.80	FOLDE R 2
8	ETI/PSI/009	A	Typical location plan and general arrangement of a single interrupter switching station.	27.02.75	FOLDE R 2
9	ETI/PSI/009-1	-	Simplified typical general arrangement of single interrupters switching station.	21.03.94	FOLDE R 2
10	ETI/PSI/0010	E	Typical layout of remote control cubical at a switching station.	16.11.88	FOLDE R 2
11	ETI/PSI/0011	-	Typical location plan and general arrangement of a single interrupter feeding station.	24.08.73	FOLDE R 2
12	ETI/PSI/0012	-	Layout and general arrangement of sectioning and paralleling station at Baranagar (Sealdah Divn E.Rly)	08.08.75	FOLDE R 2
13	ETI/PSI/0016	A	General arrangement and terminal connection of 25kv PT type-1 at switching station	10.07.81	FOLDE R 3
14	ETI/PSI/0018	-	Typical location plan and general arrangement for a feeding station.	19.03.84	FOLDE R 3
15	ETI/PSI/0019	-	Typical general arrangement of a four interrupter switching station.	21.03.84	FOLDE R 3
16	ETI/PSI/011	C	Typical general arrangement at a booster transformer station (without cross feeder), Type - I	07.09.80	FOLDE R 3
17	ETI/PSI/011-I	A	Typical general arrangement at a booster transformer station (without cross feeder).	08.01.98	FOLDE R 3
18	ETI/PSI/012	-	Typical general arrangement at a booster transformer station (without cross feeder) Type-II	24.12.70	FOLDE R 3
19	ETI/PSI/013	B	Typical general arrangement at a booster transformer station (with 4- cross feeder), Type-III	30.05.81	FOLDE R 3
20	ETI/PSI/013-I	A	Typical general arrangement at a booster transformer station (with cross feeder).	08.01.98	FOLDE R 3
21	ETI/PSI/014	C	Typical general arrangement at a booster transformer station (with SP isolator and 4-cross feeder). Type-IV	26.05.81	FOLDE R 4
22	ETI/PSI/015	-	Typical general arrangement at a booster transformer station (with 4 cross feeder), Type-V	21.07.75	FOLDE R 4
23	ETI./PSI/016	A	Typical general arrangement at a booster	19.06.	FOLDE

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			transformer station (without cross feeder and 42 kV lightning arrester) – Type –VI	86	R 4
24	ETI/PSI/017	-	280 kVA Booster transformer station Type – VII	27.11.87	FOLDE R 4
25	ETI/PSI/018	A	General arrangement of 280 KVA Booster transformer station (Type III) with four cross feeder.	18.03.88	FOLDE R 4
26	ETI/PSI/019	-	Typical general arrangement at a booster transformer station (for tramway type OHE)	12.04.94	FOLDE R 4
27	TI/DRG/PSI/TSSLO/RDSO/00001/01/0	-	Typical layout of 132/27 kV traction substation (Type-I).	16.07.01	FOLDE R 4
28	TI/DRG/PSI/TSSLO/RDSO/00002/01/0	-	Typical layout of 132/27 kV traction substation (Type – II).	16.01.02	FOLDE R 5
29	TI/DRG/PSI/TSSLO/RDSO/00003/02/0	-	Typical layout of 132/27 kV traction substation (Type-III).	22.02.02	FOLDE R 5
30	TI/DRG/PSI/TSSLO/RDSO/00004/02/0	-	Typical layout of 132/27 kV traction substation (Type-IV) with outgoing feeders and metering facilities.	17.05.02	FOLDE R 5
31	TI/DRG/PSI/TSSLO/RDSO/00005/02/0	-	Typical layout of 132/27 kV traction substation (Type-V).	13.06.02	FOLDE R 5
32	TI/DRG/PSI/TSSLO/RDSO/00006/02/0	-	Typical layout of 132/27 kV traction substation (Type-VI).	09.07.02	FOLDE R 5
33	TI/DRG/PSI/TSSLO/RDSO/00007/02/0	-	Typical layout of 132/27 kV traction substation (Type – VII).	28.08.02	FOLDE R 5
34	TI/DRG/PSI/TSSLO/RDSO/00008/02/0	-	Typical layout of 132/27 kV traction substation (Type-VIII).	27.11.02	FOLDE R 5
35	TI/DRG/PSI/TSSLO/RDSO/00009/02/0	A	Typical layout of 132/27 kV traction substation with single transformer (Type IX).	16.12.02	FOLDE R 6
36	TI/DRG/PSI/TSSLO/RDSO/00010/02/0	G	Typical layout of 132/25 kV traction substation with 132 kV switching station (Type – X).	30.12.02	FOLDE R 6
37	ETI/PSI/022-I	B	Typical layout of 132/25 kV traction substation (Type-II).	23.03.94	FOLDE R 6
38	TI/DRG/PSI/CROOM/RDSO/00001/01/0	-	Typical layout of control room at traction substation.	20.05.01	FOLDE R 6
39	ETI/PSI/0212-1	-	Typical return current connection to buried rail at 132/25 kV traction substation	26.10.98	FOLDE R 6
40	ETI/PSI/0213	A	General arrangement for 132 kV Railway switching station at Aligarh.	20.03.74	FOLDE R 7
41	ETI/PSI/0215	B	Schematic layouts for different types of 132/25 kV traction substation.	21.09.83	FOLDE R 7
42	ETI/PSI/0216	B	Arrangement for typical outdoor illumination of 132/25 kV traction substation.	12.08.83	FOLDE R 7
43	ETI/PSI/0217	B	Typical arrangement of connection for 25 kV potential transformer with 36 mm O/D aluminium Bus bar.	22.12.79	FOLDE R 7

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45	ETI/PSI/0226	B	Typical terminal arrangement for strung bus 'SPIDER' (AAC) conductor at traction substation.	18.03. 94	FOLDE R 8
46	ETI/PSI/0226-I	A	Typical terminal arrangement for strung bus at traction substation with ZEBRA conductor.	18.03. 94	FOLDE R 8
47	ETI/PSI/0227	A	General arrangement and terminal connection for 25 kV PT (Type-II) at traction substation.	10.07. 81	FOLDE R 8
48	ETI/PSI/0227-1	-	General arrangement and terminal connection for 25 kV PT type-II (protection type) at 220 kV traction substation.	10.06. 87.	FOLDE R 8
49	ETI/PSI/0233	-	Typical layout of 132/25kv traction substation showing 25kv feeder for yard / electric loco shed supply.	21.03. 84	FOLDE R 8
50	ETI/PSI/0235	A	Typical layout of 132/25kv Traction substation(with three transformer) Type-1	09.03. 90	FOLDE R 8
51	ETI/PSI/0237	-	Typical layout of 132/25kv Traction substation (with three transformers) Type-111.	30.05. 86	FOLDE R 8
52	ETI/PSI/0239	-	Typical layout of 132/25kv Traction substation (with three transformers) Type -v	05.06. 86	FOLDE R 9
53	ETI/PSI/0240	-	Typical layout of 220/25 kV traction substation Type-I	10.06. 87	FOLDE R 9
54	ETI/PSI/0240-1	-	Typical layout of 220/27kV traction substation type-1		FOLDE R 9
55	ETI/PSI/0242	A	Typical return current connection to buried rail at 220/25Kv traction substation.	18.11. 87	FOLDE R 9
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57	ETI/PSI/0244	-	Typical general arrangement of earth screen wire termination at 220Kv traction substation	10.06. 87	FOLDE R 9
58	ETI/PSI/032	D	25kv drop out fuse assembly.	28.01. 86	FOLDE R 10
59	ETI/PSI/035	B	4 Pole 5 way rotary switches for colour light signaling and emergency load.	13.09. 91	FOLDE R 10
60	TI/DRG/PSI/AT/ RDSO/00001/02/1	-	Arrangement of Mounting 25Kv/240V, 50 kV LT Supply transformer.	18.01. 05	FOLDE R 10
61	ETI/PSI/037	C	Structural details for LT supply transformer T-150	30.09. 86	FOLDE R 10
62	ETI/PSI/038	C	25Kv dropout fuses switch details.	29.08. 89	FOLDE R 10
63	ETI/PSI/039	B	Operating pole for 25Kv dropout fuse switch.	28.01. 86	FOLDE R 11
64	ETI/PSI/0310	-	LV Box assembly for LT supplies transformer	08.05.	FOLDE

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65	ETI/PSI/0312	B	Mounting Arrangement of 100 KVA, 25 kV/240 V LT supply transformer at traction substation.	22.09.89.	FOLDE R 11
66	ETI/PSI/101	B	Structural assembly for a feeding station.	15.02.85	FOLDE R 11
67	ETI/PSI/102	B	Structural assembly for a sectioning and paralleling station.	15.02.85	FOLDE R 11
68	ETI/PSI/103	B	Structural assembly for a three interrupter switching station.	15.02.85	FOLDE R 11
69	ETI/PSI/104	E	Typical fencing and anticlimbing arrangement at switching station.	18.12.84	FOLDE R 11
70	ETI/PSI/105	-	Structural assembly for feeding station (for five cross feeders)	21.03.84	FOLDE R 12
71	ETI/PSI/106	A	Structural assembly for a four interrupter switching station	21.03.84	FOLDE R 12
72	ETI/PSI/111	A	Structural assembly for standard booster transformer station (without cross feeder - Type-I)	11.04.75	FOLDE R 12
73	ETI/PSI/112	B	Structural assembly for a standard booster transformer station (without cross feeder type-II)	02.06.86	FOLDE R 12
74	ETI/PSI/113	A	Structural assembly for a standard booster transformer station (with four cross feeder type-III)	02.06.86	FOLDE R 12
76	ETI/PSI/115	-	Structural assembly for a standard booster transformer station (without cross feeder and 42 kV lightning arrester type - VI)	12.04.84.	FOLDE R 13
77	ETI/PSI/121	F	Typical fencing layout at traction substation (details of fencing panel door ant climbing device etc.)	05.03.91	FOLDE R 13
78	ETI/PSI/201	B	Typical earthing layout of sub sectioning and paralleling station.	28.12.71	FOLDE R 13
79	ETI/PSI/201-I		Typical earthing layout of 25 kV a.c. sub sectioning and paralleling station.	26-10-98	FOLDE R 13
80	ETI/PSI/202	B	Typical earthing layout at a sectioning and paralleling station.	20.12.71	FOLDE R 13
81	ETI/PSI/202-I		Typical earthing layout of 25 kV a.c. sub sectioning and paralleling station.	26-10-98	FOLDE R 13
82	ETI/PSI/203	B	Typical earthing layout of a feeding station.	25.11.71	FOLDE R 13
83	ETI/PSI/204	C	Earthing details for interrupter, LT supply transformer 25kV lightning arrester, PT type-1, S-100 mast, S-101 mast, fencing upright and main mast.	08.07.80	FOLDE R 13
84	ETI/PSI/211-1	A	Typical earthing layout of a booster transformer station.	26.10.98	FOLDE R 14

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85	ETI/PSI/212	B	Typical earthing layout at a booster transformer station (with four cross feeder for type -111,1V and V).	21.01.75	FOLDE R 14
86	ETI/PSI/222	A	Typical arrangement of an earth electrode at traction substation.	11.07.75	FOLDE R 14
87	ETI/PSI/222-I		Typical arrangement of an earth electrode	26-10-98	FOLDE R 14
88	ETI/PSI/224	E	Typical earthing, cable trench and foundation layout of 132/25kV traction substation.	01.03.85	FOLDE R 14
89	ETI/PSI/228	A	Typical earthing arrangement for equipments and structures at traction substation.	30.09.82	FOLDE R 14
89	ETI/PSI/229	-	Typical earthing cable trench & foundation layout of 132/25kV traction substation with shunt capacitor bay .	15.12.84	FOLDE R 15
90	ETI/PSI/301	C	Typical cable run layout of a sub sectioning and paralleling station.	18.12.84	FOLDE R 15
91	ETI/PSI/302	C	Typical cable run layout of a sub sectioning and paralleling station.	18.12.84	FOLDE R 15
92	ETI/PSI/303	B	Typical cable run layout of a feeding station.	30.10.80	FOLDE R 15
93	ETI/PSI/323	E	Typical details of cable run at a two transformer traction substation.	21.03.89	FOLDE R 15
94	ETI/PSI/501	C	Typical drawing for a terminal board.	19.02.75	FOLDE R 15
95	ETI/PSI/512	-	HV Bushing 36kV, 630 A with adjustable arcing horn	13.02.79	FOLDE R 16
96	ETI/PSI/513	-	LV Bushing 3.6 kV, 630A.	13.02.79	FOLDE R 16
97	ETI/PSI/514	-	Name, rating and terminal marking plate.	03.02.79	FOLDE R 16
98	ETI/PSI/516	-	Details of transformer bushing/porcelain housing for BTs, PTs, Ats, CTs and Las.	29.10.84	FOLDE R 16
99	ETI/PSI/521	-	Typical general arrangement of 132kV double pole double break isolator with earthing blade assembly	30.05.79	FOLDE R 17
100	ETI/PSI/5211	A	Cast ell type mechanical integral / interlock for 132kV isolator	09.07.81	FOLDE R 17
101	ETI/PSI/5212	B	Scheme of locking /interlocking arrangement of 132kV isolator at traction substation.	17.03.87	FOLDE R 17
102	ETI/PSI/5213	A	General arrangement of 25Kv outdoor type CT.	04.02.81	FOLDE R 17
103	ETI/PSI/5214	B	Scheme of interlocking arrangement for 25 kV circuit breakers at traction substations.	03.10.86	FOLDE R 17
104	ETI/PSI/5215	-	Scheme of interlocking arrangement for 25 kV circuit breaker at three transformer substation.	02.06.86	FOLDE R 17

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10 5	ETI/PSI/611	A	Existing and proposed arrangement for provision of rail links between RC and rail.	11.12. 85	FOLDE R 18
10 6	ETI/PSI/623	B	Typical control desk.	12.08. 80	FOLDE R 18
10 7	ETI/PSI/624	A	Schematic diagram of 132/25 kV traction substation showing scheme of interlocking of circuit breaker and isolators.	24.02. 84	FOLDE R 18
10 8	ETI/PSI/628	A	Typical layout of zonal repair shop for PSI equipment.	17.06. 87	FOLDE R 18
10 9	ETI/PSI/642	A	Miniature lamp 25V, 1W for use in discrepancy switch on the mimic diagram board in remote control center.	16.05. 85	FOLDE R 18
11 0	ETI/PSI/651	-	Layout of 25 kV/415V emergency power supply equipment.	21.04. 82	FOLDE R 19
11 1	ETI/PSI/704-I	-	Traction power supply arrangement for yard/electric loco shed	17.04. 90	FOLDE R 19
11 2	ETI/PSI/709	A	General scheme of supply for 25 kV ac traction system in Mumbai area after conversion from dc to ac.	10.10. 01	FOLDE R 19
11 3	ETI/PSI/708	-	Typical earthing arrangement of an auxiliary transformer.	31.01. 94	FOLDE R 19
11 4	ETI/PSI/SK/344	-	Castel and bolted type lock with common key for 25 kV ac single pole CB/interrupters.	18.03. 94	FOLDE R 19
11 6	TI/GRG/PSI/MOTIS O/ 00002/06/0	-	Typical assembly of 25kV single and double pole Motorized Isolator.	18.08. 06	FOLDE R 19
11 7	TI/DRG/PSI/ INTERLOCK/RDSO/ 00001/06/0	-	Scheme of interlocking arrangement of 25 kV circuit breaker at traction substation for MRVC.	07.08. 06	FOLDE R 19

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2. GENERAL ARRANGEMENT OF SUBSTATION LAYOUT, SWITCHING STATION, BT, REMOTE CONTROL AND EARTHING ARRANGEMENT FOR 2 X 25KV 'AT' SYSTEM.

1	ETI/PSI/AT/0201	B	Typical layout of 220/2x 25 kV traction substations with scot-connected transformers (for double line section).	18.09.91	FOLDER 21
2	ETI/PSI/AT/0202	-	Typical layout of 132/2x25 traction sub-station with three single phase transformers for single line section (V connection type).	27.10.89	FOLDER 21
3	ETI/PSI/AT/0203	-	Typical layout of 132/2x25 kV traction sub-station with single phase transformer (for single line section)	27.10.89	FOLDER 21

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4	ETI/PSI/AT/00101	A	Typical layout for sub-sectioning and paralleling post (SSP) in 2x25 kV 'AT' system (on double track section).	18.09.91	FOLDER 21
5	ETI/PSI/AT/00102	C	Typical layout for sectioning and paralleling post (SP) in 2x25 kV 'AT' system (on double traction section)	17.02.92	FOLDER 21
6	ETI/PSI/AT/00103	A	Typical layout for sub-sectioning post in 2x25 kV 'AT' system (on single track section)	18.09.91	FOLDER 21
7	ETI/PSI/AT/00104	B	Typical layout for sectioning post in 2x25 kV 'AT' system (on single track section).	18.09.91	FOLDER 21
8	ETI/PSI/AT/00105	-	Typical layout for a Auto transformer post (on double track section)	23.10.90.	FOLDER 21

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3. PROTECTION FOR 2 X 25 kV 'AT' SYSTEM

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2.	ETI/PSI/AT/0204 SH-2/4	B	Differential protection for scot connected transformer (2 x 25 kV system).	29.09.93.	FOLDER 25
3.	ETI/PSI/AT/0204 SH-3/4	B	Protection scheme for single-phase transformer (2x 25 kV system).	29.09.93.	FOLDER 25
4.	ETI/PSI/AT/0204 SH-4/4	B	Protection scheme for 2x 25 kV OHE AT TSS.	29.09.93	FOLDER 25

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4.SHUNT CAPACITORS AND PROTECTION FOR 25 Kv ac TRACTION SYSTEM

1	ETI/PSI/024-I	-	Typical schematic diagram of protection for double transformer traction sub-station.	22.04.94.	FOLDER 22
2	ETI/PSI/0223	E	Typical layout for 25 kV shunt capacitor unit to be installed at 132/25kV traction substation type-I	23.12.97	FOLDER 22
3	ETI/PSI/0228-I	-	Typical schematic diagram of protection for single transformer traction substation	22.04.94	FOLDER 22
4	ETI/PSI/0231-I	A	High speed auto-reclosing scheme for feeder circuit breaker at 25 kV traction substation.	18.03.94.	FOLDER 22
5	ETI/PSI/0232	-	Schematic diagram of remote	25.07.83.	FOLDER

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			controlled flasher arrangement at TSS and OHE masts opposite feeding post.		22
6	ETI/PSI/034	A	Schematic power supply diagram for colour light signaling and other loads from 10KVA, 25 kV/240 V LT supply transformer.	04.05.73.	FOLDER 22
7	ETI/PSI/035-4	-	Out line general arrangement for control & distribution panel for colour light signaling with automatic change over facility (3 sources) for 25 kV ac traction system.	21.03.07	FOLDER 22
8	ETI/PSI/325	-	Typical details of cable run at a two transformer traction substation with shunt capacitor.	15.12.84	FOLDER 22
9	ETI/PSI/326	-	Typical details of cable run at a two transformer traction substation with shunt capacitor.(220 kV)	10.06.87	FOLDER 22
10	ETI/PSI/642	A	Miniature lamp 25 kV, 1W for use in discrepancy switch on the mimic diagram board in remote control centre.	16.05.85	FOLDER 23
11	ETI/PSI/644	C	Schematic interconnection diagram for remote control of power gear and supervision of equipment at traction substation.	21.08.89.	FOLDER 23
12	ETI/PSI/645	C	Schematic interconnection diagram for remote control of power gear and supervision of equipments at controlled station. (SP and SSP).	21.08.89.	FOLDER 23
13	ETI/PSI/646	A	Miniature lamp 30 V, 40 Ma for use in discrepancy switch of telefonbau make on the mimic diagram board in remote control center.	16.05.81.	FOLDER 23
14	ETI/PSI/647	-	Control and relay panel for ac traction substation.	20.07.84.	FOLDER 23
15	ETI/PSI/648	A	Typical layout of remote control center.	30.04.85.	FOLDER 23
16	ETI/PSI/652	-	Typical layout of remote control center for computer based SCADA system.	06.09.90	FOLDER 24
17	ETI/PSI/SK/343	-	Typical schematic protection arrangement of shunt capacitor bank at traction substation.	17.02.94.	FOLDER 24
18	ETI/PSI/702-1	D	General Scheme of supply for 25 kV, 50 Hz, 1 phases traction system.	18.12.97	FOLDER 24
19	TI/DRG/PSI/RCC/00001/07/0	-	Fixing arrangement of mast Anchor fitting for Antifouling device in three pulleys (MOD) ATD.		FOLDER 24

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5. COMPONENTS AND FITTINGS

1.	ETI/PSI/P/6480	C	36 mm Aluminium bus terminal.	10.09.86.	FOLDE R 26
2.	ETI/PSI/P/6480-1	A	Expansion type terminal connector suitable for 36 mm aluminum tubular bus bar to suit 25 kV isolator terminal pad.	7.08.86.	FOLDE R 26
3.	ETI/PSI/P/6480-2	-	50 mm Aluminium bus terminal.	04.06.87	FOLDE R 26
4.	ETI/PSI/P/6480-3	A	Expansion type terminal connector suitable for 50 mm aluminum tubular bus bar to suit 25 kV isolator terminal pad.	26.04.88.	FOLDE R 26
5.	ETI/PSI/P/6481	C	36 mm Aluminium bus terminal.	10.09.86.	FOLDE R 26
6.	ETI/PSI/P/6482	C	Clamping piece.	10.09.86	FOLDE R 26
7.	ETI/PSI/P/6482-1	C	Clamping piece for 36 mm flexible bus splice.	14.11.86	FOLDE R 26
8.	ETI/PSI/P/6490	C	36 mm Aluminium bus splice.	10.09.86	FOLDE R 26
9.	ETI/PSI/P/6490-1.	-	50 mm Aluminium bus splice.	04.06.87.	FOLDE R 26
10.	ETI/PSI/P/6491.	B	36 mm Aluminium bus splice body.	07.08.86	FOLDE R 26
11.	ETI/PSI/P/6500.	C	36 mm Aluminium bus Tee connector.	14.12.88	FOLDE R 26
12.	ETI/PSI/P.6500-1.	-	50 mm Aluminium bus tee connector.	04.06.87	FOLDE R 26
13.	ETI/PSI/P/6501	B	36 mm Aluminium bus tee connector body.	10.09.86.	FOLDE R 26
14.	ETI/PSI/P/6510	D	36 mm Aluminium tee terminal.	10.09.86	FOLDE R 26
15.	ETI/PSI/P/6510-1	-	50 mm Aluminium tee terminal.	10.06.87	FOLDE R 26
16.	ETI/PSI/P/6511	C	36 mm Aluminium tee terminal body.	07.08.86	FOLDE R 26
17.	ETI/PSI/P/6520	B	36/15 mm taps connector.	07.08.86.	FOLDE R 26
18.	ETI/PSI/P/6521.	B	36/15 mm taps connector body.	07.08.86.	FOLDE R 26
19.	ETI/PSI/P/6523	B	Clamping piece (small).	10.09.86.	FOLDE R 26
20.	ETI/PSI/P/6530	C	36/20 mm terminal connector.	07.08.86.	FOLDE R 27
21.	ETI/PSI/P/6531	D	36/20 mm terminal connector body.	13.01.	FOLDE

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22.	ETI/PSI/P/6540	A	Terminal connector for 25 kV PT with 36 mm Aluminium bus bar.	07.02.79	FOLDE R 27
23.	ETI/PSI/P/6541	B	36 mm Aluminium bus bar connector body.		FOLDE R 27
24.	ETI/PSI/P/6550	B	36 mm Aluminium flexible bus splice.	13.11.86	FOLDE R 27
25.	ETI/PSI/P/6550-1	-	50 mm Aluminium flexible bus splice.	22.05.87	FOLDE R 27
26.	ETI/PSI/P/6551	C	36 mm Aluminium bus junction connector body.	13.11.86	FOLDE R 27
27.	ETI/PSI/P/6552	C	36 mm Aluminium bus double sliding body.	13.11.86	FOLDE R 27
28.	ETI/PSI/P/6553	C	Flexible joint.	13.11.86	FOLDE R 27
29.	ETI/PSI/P/6560	B	36 mm Aluminium bus splice cum tee connector.	10.09.86	FOLDE R 27
30.	ETI/PSI/P/6561	B	36 mm Aluminium bus splice cum tee connector body.	10.09.86.	FOLDE R 27
31.	ETI/PSI/P/6570	F	Flexible connector for 25 kV circuit breaker, 25 kV interrupter and 25 kV side of 13.5/20 MVA traction transformer.	18.11.86.	FOLDE R 27
32.	ETI/PSI/P/6580	B	36/20 mm taps connector.	07.08.86	FOLDE R 27
33.	ETI/PSI/P/6580-1	-	50/20 mm taps connector.	04.06.87.	FOLDE R 27
34.	ETI/PSI/P/6581	B	36/20 mm taps connector body.	07.08.86	FOLDE R 27
35.	ETI/PSI/P/6590	B	20 mm Aluminium bus bar tee connector	07.08.86	FOLDE R 28
36.	ETI/PSI/P/6591	B	20 mm Aluminium bus bar tee connector body.	07.08.86.	FOLDE R 28
37.	ETI/PSI/P/6592	D	Clamping piece for 20 mm spider connector.	10.09.86.	FOLDE R 28
38.	ETI/PSI/P/6800	F	Bimetallic terminal connector for 30 mm copper terminal stud and 20 mm spider AAC (RIGID TYPE).	10.09.86	FOLDE R 28
39.	ETI/PSI/P/6830	F	Terminal connector suitable 20 mm spider 'AAC' with terminal pad of 132 kV of isolator and 132 kV MOCB.	07.08.86	FOLDE R 28
40.	ETI/PSI/P/6830-1	D	Terminal connector for aluminum conductors (Bolted type).	08.05.90	FOLDE R 28
41.	ETI/PSI/P/6830-2	A	Terminal connector suitable for 20 mm GOAT "ACSR" with terminal of 22 kV vacuum circuit breaker.	07.08.86	FOLDE R 28
42.	ETI/PSI/P/6831	D	Connector body for 20 mm "AAC" spider conductor.	10.09.86.	FOLDE R 28

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43.	ETI/PSI/P/6841	D	Connector body for 30 mm copper terminal stud.	12.09.86	FOLDE R 28
44.	ETI/PSI/P/6842	D	Clamping piece for 30 mm dia terminal stud.	10.09.86	FOLDE R 28
45.	ETI/PSI/P/6850	D	Flexible bimetallic terminal connector assembly for 25 kV/100 KVA booster transformer.	10.09.86.	FOLDE R 28
46.	ETI/PSI/P/6850-2	B	Flexible bimetallic terminal connector assembly for 25 kV/280 KVA, 500 A. Booster transformers.	30.09.92	FOLDE R 28
47.	ETI/PSI/P/6851	C	Tapped terminal clamp (for 25Kv/100 KVA booster transformer).	06.08.86	FOLDE R 28
48.	ETI/PSI/P/6860	C	Rigid and flexible bimetallic terminal connector for 25 kV current transformers.	12.09.86.	FOLDE R 29
49.	ETI/PSI/P/6096	B	Sliding clamp for 36 mm O/D Aluminium bus bar.	07.08.86	FOLDE R 29
50.	ETI/PSI/P/6096-1	-	Sliding clamp for 50 mm O/D Aluminium bus bar.	22.05.87.	FOLDE R 29
51.	ETI/PSI/P/7520	B	Typical number plate for interrupter and double pole isolator	23-11-71	FOLDE R 29
52.	ETI/PSI/P/7521	B	Typical number plate for potential transformer type-I	23-11-71	FOLDE R 29
53.	ETI/PSI/P/7522	B	Typical number plate for booster transformer	23-11-71	FOLDE R 29
54.	ETI/PSI/P/7523	-	Typical number plate for circuit breaker	04-03-74	FOLDE R 29
55.	ETI/PSI/P/7524	-	Caution plate 132000 Volts	29-05-74	FOLDE R 29
56.	ETI/PSI/P/7525	-	Typical number plate for auxiliary transformer	20-01-78	FOLDE R 29
57.	ETI/PSI/P/7526	-	Typical number plate for power transformer at traction sub station	15-05-80	FOLDE R 29
58.	ETI/PSI/P/7526-1	-	Typical number plate for auto transformer	08-11-89	FOLDE R 29
59.	ETI/PSI/P/7527	A	Typical number plate for potential transformer at traction sub station	06-05-81	FOLDE R 29
60.	ETI/PSI/P/7528	A	Typical number plate for current transformer at traction sub station	06-05-81	FOLDE R 29
61.	ETI/PSI/P/7529	A	Typical number plate for isolator at traction sub station	06-05-81	FOLDE R 29
62.	TI/DRG/PSI/3LTSS/RDSO/00001/07/1	A	Typical schematic diagram for TSS, FP, SSP & SP with 30 MVA Transformer for three (3) line.	05.08.08	FOLDE R 29
63.	TI/DRG/PSI/4LTSS/RDSO/00001/07/1	A	Typical schematic diagram for TSS, FP, SSP & SP with 30 MVA Transformer for four (4) lines.	05.08.08	FOLDE R 29

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6. HIGHER CAPACITY CONNECTORS FOR 220 Kv AND 25 Kv (50 mm O/D ALUMINIUM BUS BAR) SYSTEM.

1.	ETI/PSI/P/11010	C	Bimetallic terminal connector to suit 'ZEBRA' ACSR conductor and 30 dia copper stud of CT/CB/traction power transformer.	12.09.91	FOLDER 30
2	ETI/PSI/P/11020	E	Details of expansion bimetallic terminal connectors suitable for 50 dia Aluminum tubular bus bar to 60 dia copper copper stud of 25 kV CT.	04.10.90	FOLDER 30
3	ETI/PSI/P/11030	C	Bimetallic terminal connector to suit "ZEBRA" (28.58 dia) ACSR conductor and aluminum/copper pad of isolator/CT/BT (for 220 kV system).	03.02.89	FOLDER 30
4	ETI/PSI/P/11040	C	Tee connector to suit" ZEBRA" (28.58 dia) ACSR conductor on both ways for (220 kV system).	03.02.89	FOLDER 30
5	ETI/PSI/P/11050	C	Rigid connector on S.I. to suit "ZEBRA" (28.58 Dia) ACSR conductor (for 220 kV system).	17.02.89	FOLDER 30
6	ETI/PSI/P/11060	E	Details of expansion type terminal connector to suit 50 dia Aluminum tubular bus bar to terminal pad of 25 kV CT/isolator/CB and interrupter.	10.04.90	FOLDER 30
7	ETI/PSI/P/11070	B	Details of rigid type bimetallic terminal connector suitable for 50 dia aluminum tubular bus bar to suit 30 dia copper stud of 25 kV current transformers.	03.02.89	FOLDER 30
8	ETI/PSI/P/11080	B	Details of rigid type terminal connector suitable for 50 dia aluminum tubular bus bar to suit 60 dia copper stud of 25 kV current transformers.	03.02.89	FOLDER 30
9	ETI/PSI/P/11090	C	Rigid type bimetallic connector suitable for 50 dia aluminum tubular bus bar to terminal pad of 25 kV isolator/CT.	03.02.89	FOLDER 30
10	ETI/PSI/P/11100	E	Details of expansion type bimetallic terminal connector suitable for 50 dia aluminum tubular bus bar to suit 30 dia copper studs of 25 kV CT/BT/Traction power transformer.	04.10.90	FOLDER 30
11	ETI/PSI/P/11110	C	Rigid through connector to suit 50 dia aluminum tubular bus bar and	04.10.90	FOLDER 30

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			"SPIDER" AAC conductor for 25 kV PT type II.		
12	ETI/PSI/P/11120	C	Detail of rigid terminal connector suitable for 20 dia aluminum conductor to terminal pad of 25 kV PT type-I and type-II.	03.02.89	FOLDER 31
13	ETI/PSI/P/11130	B	Inter connector suitable for 50 O/D aluminum tube and "SPIDER" AAC conductor (for 25 kV PT type-I).	03.02.89	FOLDER 31
16	ETI/PSI/P/11160	B	Tee connector to suit 50 O/D aluminum tube to 36 O/D aluminum tube (for 25 kV systems).	03.02.89	FOLDER 31
17	ETI/PSI/P/11170	C	Tee connector to suit 50 O/D aluminum bus bar and 15 O/D cadmium catenary (for 25 kV systems).	03.02.89	FOLDER 31
18	ETI/PSI/P/11180	B	Rigid bus splices connector to 50 O/D aluminum tube on both ways (for 25 kV systems).	03.02.89	FOLDER 31
19	ETI/PSI/P/11190	C	Sliding clamp for 50 mm O/D aluminum bus bar (For 25 kV systems).	03.02.89	FOLDER 31
20	ETI/PSI/P/11200	C	Rigid type connector on S.I. to suit 50 O/D aluminum bus bar (for 25 Kv systems).	17.02.89	FOLDER 31
21	ETI/PSI/P/11210	D	Expansion bus coupler on S.I. to 50 O/D aluminum tube (for 25 kV systems).	04.10.90	FOLDER 31
22	ETI/PSI/P/11220	D	Expansion type terminal connector for 25 kV, 60 mm dia. Terminal stud for traction power transformer.	12.09.91	FOLDER 31
23	ETI/PSI/P/11230	C	Expansion type terminal connector for 25 kV, 30 mm dia. Terminal for traction power transformer.	04.10.90	FOLDER 31
24	ETI/PSI/P/11240	C	Tee connector to suit 36 mm O/D aluminum bus bar to 50 mm O/D aluminum bus bar.	04.10.90	FOLDER 31

Chapter - III - CIVIL

1. OHE MAST (STEEL)

1.	ETI/C/0018-2	D	9.5 m standard traction mast (fabricated 'K' series)	14.08.91	FOLDER 1
2.	ETI/C/0071	E	9.5 m standard traction mast (fabricated with batten plates) 'B' series.	14.08.91	FOLDER 1

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3.	ETI/C/0072 SH1	-	Emergency OHE mast on sleeper General arrangement	23.11.82	FOLDER 1
4.	ETI/C/0072 SH2	A	Emergency OHE mast on sleeper Detail of top middle and bottom parts	06.03.91	FOLDER 1
5.	ETI/C/0072 SH3	B	Emergency OHE mast on sleeper (details of base connection)	05.03.91	FOLDER 1
6.	ETI/C/0073	A	Dimension of bolts, nuts and lock nuts for 25kV ac traction.	08.04.93	FOLDER 1
7.	ETI/C/0074	A	16 Dia J Bolts for 25 KVA ac traction	02.02.89	FOLDER 1
8.	ETI/C/0075	-	Washers and split pin for 25 kV ac traction	07.10.87	FOLDER 1
9.	ETI/C/0078 SH1	-	9.5 m long standard traction masts (fabricated with batten plate) 'TM' series.	29.09.93	FOLDER 1
10.	ETI/C/0078 SH2	-	9.5 m long standard traction masts (fabricated with batten plate) 'TM' series (weight schedule)	29.09.93	FOLDER 1
11.	Ti/DRG/CIV/B- MAST / RDSO/00001/08/0	-	10.850 m. long standard traction mast (Fabricated with batten plates) ``B'' Series	08.04.08	FOLDER 1

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2) OHE PORTALS, TTC, DROP ARMS AND SPS

1.	ETI /C/0004 SH 1	A	'N' type portal short upright. NUS1 - 9.945 m long for RL platform	04.03 .91	FOLDER 2
2.	ETI/C/0004 SH2	C	'N' type portal short upright. NUS2 - 9.490 m long for LL platform	04.03 .91	FOLDER 2
3.	ETI/C/0004 SH3	A	'N' type portal short upright. NUS3 - 9.185 m long for HL platform	4.03.91	FOLDER 2
4.	ETI/C/0004 SH4	A	'N' type portal short upright. NUS4 - 8.880 m long for Goods platform	4.03.91	FOLDER 2
5.	ETI /C/0006/68	A	Black weight of 'G' type portal	3.12.74	FOLDER 2
6.	ETI/C/0008 SH1	A	Standard 'N' type portal (rod laced), General arrangement	5.08.88	FOLDER 2
7.	ETI/C/0008 SH2	B	Standard 'N' type portal (rod laced) ,Details of upright	4.03.91	FOLDER 2
8.	ETI/C/0008 SH3	C	Standard 'N' type portal (rod laced), Details of end piece of top boom (length 5380 mm)	4.03.91	FOLDER 2
9.	ETI/C/0008 SH3A	B	Standard 'N' type portal (rod laced) , Details of end piece of top boom (length 5880 mm)	4.03.91	FOLDER 2
10.	ETI/C/0008 SH4	B	Standard 'N' type portal (rod laced), Details of central piece of top boom (length 1.5,3.0,4.5, 6.0,7.5&9.0m)	4.03.91	FOLDER 2
11.	ETI/C/0008 SH5	C	Standard 'N' type portal (rod laced) , Details of splicing and cover angles	4.03.91	FOLDER 2
12.	ETI/C/0008 SH6	A	Standard 'N' type portal (rod laced) , Details of knee bracing	4.03.91	FOLDER 2
13.	ETI/C/0009/69 SH1	B	Two track cantilever structure General arrangement	1.05.89	FOLDER 3
14.	ETI/C/0009/69 SH2	C	Two track cantilever structure Details of upright	4.03.91	FOLDER 3
15.	ETI/C/0009/69 SH3	B	Two track cantilever structure Details of knee plate	4.03.91	FOLDER 3
16.	ETI/C/0009/69 SH4	C	Two track cantilever structure Details of 5.5 m boom	4.03.91	FOLDER 3
17.	ETI/C/0009/69 SH5	C	Two track cantilever structure Details of 8.0 m boom	4.03.91	FOLDER 3
18.	ETI/C/0011/69 SH1	C	Standard 'R' type portal (rod laced).General arrangement	5.08.88	FOLDER 3
19.	ETI/C/0011/69 SH2	C	Standard 'R' type portal (rod laced).Details of upright	4.03.91	FOLDER 3
20.	ETI/C/0011/69	D	Standard 'R' type portal (rod	4.03.91	FOLDER

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	SH3		laced).Details of end piece of top boom (length 11.6 & 12.1 m) `		3
21.	ETI/C/0011/69 SH4	C	Standard `R' type portal (rod laced).Details of central piece of top boom (length 7.5,9.0,10.5,12.0&13.0 m)	4.03.91	FOLDER 3
22.	ETI/C/0011/69 SH5	B	Standard `R' type portal (rod laced).Details of splicing and cover angle.	4.03.91	FOLDER 3
23.	ETI/C/0011/69 SH6	C	Standard `R' type portal (rod laced).Details of knee bracing.	4.03.91	FOLDER 3
24.	ETI/C/0013/69 SH1	E	Standard arrangement of supporting cantilever on the boom of portals and TTC (general arrangement)	2.12.94	FOLDER 4
25.	ETI/C/0013/69 SH2	D	Standard arrangement of supporting cantilever on the boom of portals and TTC (SPS details for conventional OHE)	2.12.94	FOLDER 4
26.	ETI/C/0013/69 SH3	-	Standard arrangement of supporting cantilever on the boom of portals and TTC (for tramway type OHE)	2.12.94	FOLDER 4
27.	ETI/C/0017 SH1	A	General arrangement standard `O' type portal (rod laced)	5.08.88	FOLDER 4
28.	ETI/C/0017 SH2	B	Details of upright standard `O' type portal (rod laced)	4.03.91	FOLDER 4
29.	ETI/C/0017 SH3	B	Details of end piece of top boom (length 10548 & 11048 mm) standard `O' type portal (rod laced)	4.03.91	FOLDER 4
30.	ETI/C/0017 SH4	B	Detail of central piece of top boom (length 1.5, 3.0,4.5, 6.0, 7.5 & 9.0 m) standard `O' type portal (rod Laced)	4.03.91	FOLDER 4
31.	ETI/C/0017 SH5	C	Details of splicing and cover angles standard `O' type Portal (rod laced)	4.03.91	FOLDER 4
32.	ETI/C/0017 SH6	A	Details of knee bracing standard `O' type portal (rod laced)	4.03.91	FOLDER 4
33.	ETI/C/0019/70 SH1	A	Three legged `N' type portal (rod laced), general arrangement	5.08.88	FOLDER 5
34.	ETI/C/0019/70 SH2	A	Details of central upright. Three legged `N' type portal (rod laced).	4.03.91	FOLDER 5
35.	ETI/C/0026 SH-1	C	Special `BFB' portal for 5 tracks. General arrangement..	5.08.88	FOLDER 5
36.	ETI/C/0026 SH-2	B	Special `BFB' portal for 5 tracks. Details of upright.	4.08.98	FOLDER 5
37.	ETI/C/0026 SH-3	A	Special `BFB' portal for 5 tracks. Details of end piece of top boom (length 8.5 and 9.0 m)	4.03.91	FOLDER 5
38.	TI/C/0026 SH-4	A	Special `BFB' portal for 5 tracks. Details of knee bracing.	4.03.91	FOLDER 5

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39.	ETI/C/0027 SH-1	B	Three legged `BFB' portal, General arrangement	4.08.98	FOLDER 5
40.	ETI/C/0027 SH-2	B	Three legged `BFB' portal. Details of central upright.	4.08.98	FOLDER 5
41.	ETI/C/0048	B	Standard `P' type portal, general arrangement and details of upright and end piece	4.03.91	FOLDER 5
42.	ETI/C/0052	-	Black weight of `N' type portal	0.06.74	FOLDER 6
43.	ETI/C/0053	-	Black weight of `O' type portal	2.07.74	FOLDER 6
44.	ETI/C/0056	C	Standard `G' type portal upright and end piece	3.08.91	FOLDER 6
45.	ETI/C/0064	-	Standard portals (N,O,R,P,G, & double BFB type)	2.04.80	FOLDER 6
46.	ETI/C/0076	C	Standard arrangement of supporting cantilevers on the boom of the portals and TTC (To avoid bird nesting).	2.12.94	FOLDER 6
47.	ETI/C/0077 SH-1	-	Two track cantilever structure (TTC-17) General arrangement	3.06.90	FOLDER 7
48.	ETI/C/0077 SH-2	A	Two track cantilever structure (TTC-17), Details of upright	4.03.91	FOLDER 7
49.	ETI/C/0077 SH-3	A	Two track cantilever structure (TTC-17), Details of boom	4.03.91	FOLDER 7
50.	ETI/C/0077 SH-4	A	Two track cantilever structure (TTC-17), Details of knee plate	4.03.91	FOLDER 7
51.	ETI/C/0077 SH-5	A	Two track cantilever structure (TTC-17), SPS details.	4.03.91	FOLDER 7
52.	ETI/C/0079 SH-1	-	OUS1 `O' type portal short upright of length 10.035 m (For Rail level passenger platform only).	04.07.94	FOLDER 7
53.	ETI/C/0079 SH-2	-	OUS2 `O' type portal short upright of length 9.58 m (For low level passenger platform only).	4.07.94	FOLDER 7
54.	ETI/C/0079 SH-3	-	OUS3 `O' type portal short upright of length 9.275 m (For high level passenger platform).	4.07.94	FOLDER 7
55.	ETI/C/0079 SH-4	-	OUS4 `O' type portal short upright of length 8.97 m (For goods platform).	4.07.94	FOLDER 7
56.	TI/DRG/CIV/PORTAL /RDSO/00001/05/0 Sh-1	-	General arrangement for special portal or clear span of 440 m to 60 m for 3 Nos. on D line for Chitpur Terminal of Eastern Railway.	7.06.05	FOLDER 7
57.	TI/DRG/CIV/PORT	-	Details of special end piece (SE) for	7.06.05	FOLDER

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58.	TI/DRG/CIV/PORT AL /RDSO/00001/05/ 0 Sh-3	-	Details of special Boom (SB) for special portal for Clear span of 40m to 60m for 3 Nos. DD ne for Chitpur Terminal of Eastern Railway Nominal length 6.0m,7.5m,9.0m,10.5m,12.0m & 3.0m).	7.06.05	FOLDER 7
59.	TI/DRG/CIV/PORT AL /RDSO/00001/05/ 0 Sh-4	-	Details of cover angle for special portal or Clear span of 40m to 60m for 3 Nos. DD ne for Chitpur Terminal of Eastern Railway.	7.06.05	FOLDER 7
60.	TI/DRG/CIV/ HGAUGE/RDSO/ 00001/05/0	-	Standard plan Height Gauge for level rossing (for clear Span up to 7.3m) Details of structure nd foundation.	8.03.06	FOLDER 7
61.	TI/DRG/CIV/ HGAUGE/RDSO/ 00001/05/0	-	Standard plan Height Gauge for level rossing (for clear Span above 7.3m up to 12.2m) Details f structure and f foundation.	8.03.06	FOLDER 7

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3. STRUCTURAL LAYOUT, STRUCTURES AND FOUNDATIONS FOR TRACTION SUB STATION.

1.	ETI/C/0200 SH-1	H	Structural layout 132/25 kV traction substation (Type I to VI).	15.05.01	FOLDER 8
2.	ETI/C/0200 SH-2	D	Structural layout 132/25 kV traction substation (Type VII to X).	15.05.01	FOLDER 8
3.	ETI/C/0201	D	Details of beam B/1.	15.05.01	FOLDER 8
4.	ETI/C/0202	H	Details of tower T1.	15.05.01	FOLDER 8
5.	ETI/C/0203	G	Details of tower T2.	06.03.91	FOLDER 8
6.	ETI/C/0204	E	Extension of tower T1.	06.03.91	FOLDER 8
7.	ETI/C/0205	E	Extension of tower T2.	05.03.91	FOLDER

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8.	ETI/C/0206	D	Foundation and stub details for towers T1 & T1 extension.	05.03.91	FOLDER 8
9.	ETI/C/0207	D	Foundation and stub details for towers T2 & T2 extension.	04.03.91	FOLDER 8
10.	ETI/C/0208	E	Details of beam B/2 & column C/1 for 132/25 kV station.	05.03.91	FOLDER 8
11.	ETI/C/0210	F	Typical cable trench and foundation layout of 132/25 kV traction substation (Trench cover improved).	06.03.91	FOLDER 9
12.	ETI/C/0211	B	Foundation and stub details of towers T1 extension and T2 extension for 132/25 kV type VI substation only.	05.03.91	FOLDER 9
13.	ETI/C/0213	D	Details of baffle wall at traction substation in zones of wind pressure 112.5 and 75 kgf/m ² .	03.09.84	FOLDER 9
14.	ETI/C/0214	B	Details of RCC Baffle wall at traction substations in zones of wind pressure 150 kgf/m ² .	03.09.84	FOLDER 9
15.	ETI/C/0216	B	Transformer oil drainage arrangement at substation.	11.11.88	FOLDER 9
16.	ETI/C/0217 SH-1	C	Lifting frame for 13.5 MVA transformer core in traction substation, General arrangement	06.03.91	FOLDER 9
17.	ETI/C/0217 SH-2	C	Lifting frame for 13.5 MVA transformer core in traction substation, Small part steel works.	06.03.91	FOLDER 9
18.	ETI/C/0217 SH-3	B	Lifting frame for 13.5 MVA transformer core in traction substation. Small part steel works& Lifting hook details.	05.03.91	FOLDER 9
19.	ETI/C/0217 SH-4	A	Lifting frame for 13.5 MVA transformer core in traction substation. Details of pavement and drains.	19.11.84	FOLDER 9
20.	ETI/C/0219	-	Part layout of foundation and cable trench for 25 kV feeder bay for yard/electric loco shed.	01.05.86	FOLDER 9
21.	ETI/C/0220	-	Part layout of foundation and cable trench for shunt capacitor bay.	29.04.86	FOLDER 10
22.	ETI/C/0222	-	Line diagram of structural layout of 220/25 kV traction substation.	18.06.87	FOLDER 10
23.	ETI/C/0222-I	-	Structural layout of 220/27 kV traction substation (Type-I).	26.05.97	FOLDER 10
24.	ETI/C/0223	A	Typical cable trench layout of 220/25 kV traction substation.	01.07.88	FOLDER 10
25.	ETI/C/0223-I	-	Layout of typical cable trench 220/27 kV traction substation (type-I).	26.05.97	FOLDER 10
26.	ETI/C/0224	A	Details of beam B/4 for 132/25 kV	05.03.91	FOLDER

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27.	ETI/C/0225 SH-1/2	-	Control room for traction substation.	17.08.88	FOLDER 10
28.	ETI/C/0225 SH-2/2	-	Control room for traction substation RCC Details.	04.08.88	FOLDER 10
29.	ETI/C/0226	-	Foundation for towers T1 and T1 Extension for 132/25 kV traction substation (For ZEBRA conductor).	01.08.88	FOLDER 10
30.	ETI/C/0227	-	Foundation for towers T2 and T2 Extension for 132/25 kV traction substation (For ZEBRA conductor).	01.08.88	FOLDER 10
31.	ETI/C/0228	-	Foundation for towers T1 Extension and T2 Extension for 132/25 kV (type VI substation for ZEBRA conductor).	01.08.88	FOLDER 10
32.	ETI/C/0300	E	Details of structure for 132 kV potential transformers.	06.03.91	FOLDER 10
33.	ETI/C/0310	G	Details of structure for 132 kV double poles Isolator.	05.03.91	FOLDER 11
34.	ETI/C/0320	E	Details of structure for 132 kV support insulator.	05.03.91	FOLDER 11
35.	ETI/C/0330	F	Details of structure for 132 kV current transformers.	05.03.91	FOLDER 11
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40.	ETI/C/0370 SH-2	-	Black weight of structure for 42 kV 10 kA lightning arrester and 25 kV support insulator.	26.09.89	FOLDER 11
41.	ETI/C/0380	F	Details of structure for 25 kV single poles Isolator.	05.03.91	FOLDER 11
42.	ETI/C/0390	E	Details of structure for 25 kV potential transformers.	05.03.91	FOLDER 11
43.	ETI/C/0400	G	Details of structure for 132 kV double and triple poles MOCB.	05.03.91	FOLDER 11
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50.	ETI/SK/C/183	A	Details of structure strengthening for 132 kV CT ,LA and PT.	06.03.91	FOLDER 12
51.	ETI/SK/C/188	A	Strengthening of mounting structure for 132 kV CT, LA and PT.	05.03.91	FOLDER 12

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2	ETI/C/0031	D	Drilling schedule for S2 mast.	14.08.98	FOLDER 13
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4	ETI/C/0034 SH-1	K	Details of SPS for switching station	04.03.91	FOLDER 13
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11	ETI/C/0042	E	Drilling schedule for S-5 mast (11.4 m long).	14.08.98	FOLDER 13
12	ETI/C/0043	B	S-100 fabricated mast for Mounting LT supply transformer and dropout fuse switch at Switching station	04.03.91	FOLDER 13
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19	ETI/C/0184	C	Drilling schedule for S-9 mast (9.4 m long).	14.08.98	FOLDER 13
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21	ETI/C/0186 SH-1	E	General arrangement and details of Fencing panel and gate for Switching station.	04.03.91	FOLDER 14
22	ETI/C/0186 SH-2	E	Details of Fencing upright and ant climbing device for switching station	10.06.94	FOLDER 14
23	ETI/C/0187	A	Mounting arrangement for FLASHER on OHE mast.	05.03.91	FOLDER 14
24	ETI/C/0188-B	D	General arrangement and SPS details for mounting DP Isolator on K-250/ B-250 mast at switching station.	04.03.91	FOLDER 14
25	ETI/C/0189 SH-1	A	Structural assembly for 280 kVA booster transformer station (without cross feeder and 42 kV lightning arrester).	17.03.88	FOLDER 14
26	ETI/C/0189 SH-2	B	Details of beam B-100-A for 280 kVA BT support (Span 3.2 m).	05.03.91	FOLDER 14
27	ETI/C/0189 SH-3	B	Details of top beam B-102/1-A for 280 kVA BT to support insulator and lightning arrester (span 3.2 m).	05.03.91	FOLDER 14
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29	ETI/C/0191	-	SPS Details for mounting of A.T. on OHE mast (typical).	30.11.92	FOLDER 15
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5. OHE SUPER MAST AND SPS

1.	ETI/C/P/8010	G	Short super mast assembly.	24.07.89	FOLDER 16
2.	ETI/C/P/8011	A	Short super mast channel.	05.03.91	FOLDER 16
3.	ETI/C/P/8012	A	Batten plate (type- I).	05.03.91	FOLDER 16
4.	ETI/C/P/8013	B	0.8 m super mast cross arm.	05.03.91	FOLDER 16
5.	ETI/C/P/8014	A	Suspension support angle.	05.03.91	FOLDER 16
6.	ETI/C/P/8014-1	B	Suspension support angle (modified arrangement).	05.03.91	FOLDER 16
7.	ETI/C/P/8014-2	B	Suspension support angle.	18.09.98	FOLDER 16
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10.	ETI/C/P/8020	C	Long super mast assembly.	22.08.88	FOLDER 16
11.	ETI/C/P/8021	A	Long super mast channel.	05.03.91	FOLDER 16
12.	ETI/C/P/8022	A	2.8 m super mast cross arm.	05.03.91	FOLDER 16
13.	ETI/C/P/8030	B	Bracket attachment assembly on portal upright (N, O, R, P, G and BFB Type).	22.08.88	FOLDER 16
14.	ETI/C/P/8031	A	Portal bracket attachment.	05.03.91	FOLDER 16
15.	ETI/C/P/8032	B	Front clamping angle.	05.03.91	FOLDER 16
16.	ETI/C/P/8050	C	Super mast assembly on portals.	22.08.88	FOLDER 16
17.	ETI/C/P/8051	A	Portal super mast.	05.03.91	FOLDER 16

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18.	ETI/C/P/8052/3	A	Base clamping angle for portals.	05.03.91	FOLDER 16
19.	ETI/C/P/8054	A	Clamping angle for portals.	05.03.91	FOLDER 16
20.	ETI/C/P/8071	C	Suspension support angles on portals for return conductor.	05.03.91	FOLDER 16
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22.	ETI/C/P/8073/5/7	C	SPS for RC suspension (TTC and portals).	05.03.91	FOLDER 16
23.	ETI/C/P/8078	A	SPS for RC suspension (TTC and portals).	04.03.91	FOLDER 16
24.	ETI/C/P/8100	A	Details of special guide bracket angle for cement concrete counter weight.	04.03.91	FOLDER 17
25.	ETI/C/P/8101	A	Details of guide tube bracket angle for cement concrete counter weight.	04.03.91	FOLDER 17
26.	ETI/C/P/8102	A	Details of guide tube support angle for cement concrete counter weight.	04.03.91	FOLDER 17
27.	ETI/C/P/8103	A	Details of special guide tube support angle for cement concrete counter weight.	04.03.91	FOLDER 17
28.	ETI/C/P/8104	A	Details of guide tube support angle for cement concrete counter weight.	04.03.91	FOLDER 17
29.	ETI/C/P/8111	A	Portal super mast (for 2 x 25 kV AT system OHE).	04.03.91	FOLDER 17
30.	ETI/C/P/8112	A	1.3 m Feeder super mast cross arm (for 2 x 25 kV AT system OHE).	04.3.91	FOLDER 17
31.	ETI/C/P/8113	A	Feeder super mast channel (for 2 x 25 kV AT System OHE).	04.03.91	FOLDER 17
32.	ETI/C/P/8114	A	2.3m portal super mast cross arm feeder (for 2 x 25 kV AT System OHE).	04.03.91	FOLDER 17
33.	ETI/C/P/8115	A	Batten plate type III (for 2x 25 kV AT System OHE).	06.03.91	FOLDER 17
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35.	ETI/C/P/8117	A	Suspension support angle (for 2 x25 kV AT system OHE).	04.03.91	FOLDER 17
36.	ETI/C/P/8118	A	Feeder support clamp (for 2 X25 kV AT System OHE).	04.03.91	FOLDER 17
37.	ETI/C/P/8119 SH-1	-	SPS details for double pole Isolator on mast (for 2 x 25 kV).	20.12.91	FOLDER 17
38.	ETI/C/P/8119 SH-2	-	SPS details for double pole Isolator on 'N' & 'O' type portals (for 2 x 25 kV).	13.10.92	FOLDER 17
39.	ETI/C/P/8120 SH-1	-	General arrangement of short super mast assembly for TM series mast.	- 06.07.94	FOLDER 17
40.	ETI/C/P/8120 SH-	-	Short super mast assembly for TM series	06.07.94	FOLDER

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6) EMPLOYMENT SCHEDULE OF OHE MASTS

1.	ETI/OHE/G/00125 SH1	A	Employment schedule for cantilever mast regulated OHE Al caty-65and 107-cu cont wire. WP 112.5kgf/m2 -- OHE only.	20.09.05	FOLDE R 18
2.	ETI/OHE/G/00125 SH2	A	Employment schedule for cantilever mast regulated OHE Al caty-65and 107-cu cont wire. WP 112.5kgf/m2 -- OHE + EW.	20.09.05	FOLDE R 18
3.	ETI/OHE/G/00125 SH3	A	Employment schedule for cantilever mast regulated OHE Al caty-65and 107-cu cont wire. WP 112.5kgf/m2 -- OHE + RC.	20.09.05	FOLDE R 18
4.	ETI/OHE/G/00125 SH4	A	Employment schedule for cantilever mast regulated OHE Al caty-65and 107-cu cont wire. WP 112.5kgf/m2 -- OHE + EW + RC.	20.09.05	FOLDE R 18
5.	ETI/OHE/G/00153 SH1	F	Employment schedule for cantilever mast regulated OHE caty 65/cu and cont 107/cu, WP 112.5 kgf/m2 -- OHE only.	20.09.05	FOLDE R 18
6.	ETI/OHE/G/00153 SH2	F	Employment schedule for cantilever mast regulated OHE caty 65/cu and cont 107/cu, WP 112.5 kgf/m2 -- OHE + EW.	20.09.05	FOLDE R 18
7.	ETI/OHE/G/00153 SH3	F	Employment schedule for cantilever mast regulated OHE caty 65/cu and cont 107/cu, WP 112.5 kgf/m2 -- OHE + RC.	20.09.05	FOLDE R 18
8.	ETI/OHE/G/00153 SH4	E	Employment schedule for cantilever mast regulated OHE caty 65/cu and cont 107/cu, WP 112.5 kgf/m2 --OHE + EW + RC.	20.09.05	FOLDE R 18
9.	ETI/OHE/G/00154	D	Employment schedule for cantilever mast unregulated OHE caty 65/cu & cont 107/cu WP 112.5 kgf/m2 at 35 degree C and with 28 kgf/m2 at 4 degree C without (EW & RC).	09.08.85	FOLDE R 18
10.	ETI/OHE/G/00156	D	Employment schedule for OHE masts unregulated OHE without RC and also without EW (WP = 150 kgf/m2 at 10 degree C.	31.03.77	FOLDE R 18
11.	ETI/C/0700 SH-1	-	Employment schedule for cantilever masts regulated OHE in Gr.40 A for TARE section only (wind 150 kgf/m2) caty.65/cu, cont.107/cu. OHE only.	06.11.80	FOLDE R 19
12.	ETI/C/0700 SH-2	-	Employment schedule for cantilever masts regulated OHE in Gr.40 A for TARE section only (wind 150 kgf/m2) caty.65/cu, cont.107/cu. OHE+EW.	06.11.80	FOLDE R 19
13.	ETI/C/0700 SH-3	-	Employment schedule for cantilever masts regulated OHE in Gr.40 A for TARE section only (wind 150 kgf/m2) caty.65/cu, cont.107/cu. OHE+RC.	06.11.80	FOLDE R 19

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14.	ETI/C/0700 SH-4	-	Employment schedule for cantilever masts regulated OHE in Gr.40 A for TARE section only (wind 150 kgf/m ²) caty.65/cu, cont.107/cu. OHE+RC+EW.	06.11.80	FOLDE R 19
15.	ETI/C/0700 SH-5	-	Employment schedule for cantilever masts regulated OHE in Gr.40 A for TARE section only (wind 150 kgf/m ²) caty.65/cu, cont.107/cu. UNREGULATED OHE only.	06.11.79	FOLDE R 19
16.	ETI/C/0700 SH-6	B	Employment schedule for cantilever masts regulated OHE in Gr.40 A for TARE section only (wind 150 kgf/m ²) caty.65/cu, cont.107/cu. Notes. (General)	20.09.05	FOLDE R 19
17.	ETI/C/0701 SH-1	B	Employment schedule for cantilever mast regulated OHE for TARE section, wind 150 kgf/m ² (Gr. 40A) only, caty.115/Al, cont. 107/cu. OHE only.	20.09.05	FOLDE R 19
18.	ETI/C/0701 SH-2	B	Employment schedule for cantilever mast regulated OHE for TARE section, wind 150 kgf/m ² (Gr. 40A) only, caty.115/Al, cont. 107/cu. OHE +EW.	20.09.05	FOLDE R 19
19.	ETI/C/0701 SH-3	B	Employment schedule for cantilever mast regulated OHE for TARE section, wind 150 kgf/m ² (Gr. 40A) only, caty.115/Al, cont. 107/cu. OHE +RC.	20.09.05	FOLDE R 19
20.	ETI/C/0701 SH-4	B	Employment schedule for cantilever mast regulated OHE for TARE section, wind 150 kgf/m ² (Gr. 40A) only, caty.115/Al, cont. 107/cu. OHE +EW+ RC.	20.09.05	FOLDE R 19
21.	ETI/C/0702 SH-1	B	Employment schedule for cantilever mast regulated OHE caty. 65/cu, cont.107/cu (WP 75 kgf/m ²). OHE only.	20.09.05	FOLDE R 20
22.	ETI/C/0702 SH-2	B	Employment schedule for cantilever mast regulated OHE caty. 65/cu, cont.107/cu (WP 75 kgf/m ²). OHE +EW.	20.09.05	FOLDE R 20
23.	ETI/C/0702 SH-3	B	Employment schedule for cantilever mast regulated OHE caty. 65/cu, cont.107/cu (WP 75 kgf/m ²). EW+ RC.	20.09.05	FOLDE R 20
24.	ETI/C/0702 SH-4	B	Employment schedule for cantilever mast regulated OHE caty. 65/cu, cont.107/cu (WP 75 kgf/m ²). OHE + EW+ RC.	20.09.05	FOLDE R 20
25.	ETI/C/0702 SH-5	B	Employment schedule for cantilever mast regulated OHE caty. 65/cu, cont.107/cu (WP 75 kgf/m ²). Unregulated OHE.	20.09.05	FOLDE R 20
26.	ETI/C/0703 SH-1	A	Employment schedule for cantilever mast regulated OHE caty.115/Al, cont.107/cu (WP 75 kgf/m ²) OHE only.	20.09.05	FOLDE R 20
27.	ETI/C/0703 SH-2	A	Employment schedule for cantilever mast	20.09.	FOLDE

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			regulated OHE caty.115/Al, cont.107/cu (WP 75 kgf/m2) OHE + EW.	05	R 20
28.	ETI/C/0703 SH-3	A	Employment schedule for cantilever mast regulated OHE caty.115/Al, cont.107/cu (WP 75 kgf/m2) OHE + RC.	20.09.05	FOLDE R 20
29.	ETI/C/0703 SH-4	A	Employment schedule for cantilever mast regulated OHE caty.115/Al, cont.107/cu (WP 75 kgf/m2) OHE + EW + RC.	20.09.05	FOLDE R 20
30.	ETI/C/0704	B	Employment schedule for Tramway type regulated OHE (WP 75kgf/m2) without EW and without RC.	20.09.05	FOLDE R 20
31.	ETI/C/0705	B	Employment schedule for Tramway type regulated OHE (WP 112.5 kgf/m2) without EW and without RC.	20.09.05	FOLDE R 20
32.	ETI/C/0706	B	Employment schedule for Tramway type regulated OHE (WP 150 kgf/m2) without EW and without RC.	20.09.05	FOLDE R 21
33.	ETI/C/0707	A	Employment schedule for 8" X 8" X 35 lbs BFB (9.5m long) (WP 150 kgf/m2) for TARE section Gr. 40A only.(Cu OHE)	20.09.05	FOLDE R 21
34.	ETI/C/0708	B	Employment schedule for 8" X 8" X 35 lbs BFB (9.5 m long) (WP 112.5 kgf/m2) caty 65/cu and cont 107/cu.	20.09.05	FOLDE R 21
35.	ETI/C/0709	A	Employment schedule for OHE mast overlap central location with 3.0m implantation .Caty 65/cu and Cont 107/cu. WP 75 Kgf/m2	08.08.85	FOLDE R 21
36.	ETI/C/0710	A	Employment schedule for OHE mast (9.5m) overlap central location with 3.0m implantation. Caty 65/cu and Cont 107/cu WP 112.5 kgf/m2.	08.08.85	FOLDE R 21
37.	ETI/C/0711	A	Employment schedule for OHE mast (9.5m) overlap inter location with 3.0m implantation. Caty 65/cu and Cont 107/cu. WP 75 kgf/m2.	08.08.85	FOLDE R 21
38.	ETI/C/0712	A	Employment schedule for OHE mast (9.5m) overlap inter location with 3.0m implantation. Caty 65/cu and Cont 107/cu. WP 112.5 kgf/m2.	08.08.85	FOLDE R 21
39.	ETI/C/0713	B	Employment schedule for 9.5m long 200X200X49.9 kg mast Caty 65/cu and Cont 107/cu, WP 75 kgf/m2.	20.09.05	FOLDE R 21
40.	ETI/C/0714	B	Employment schedule for 9.5m long 200X200X49.9 kg mast Caty 65/cu and Cont 107/cu, WP 112.5 kgf/m2.	20.09.05	FOLDE R 21
41.	ETI/C/0715	A	Employment schedule for OHE mast (9.5m) overlap anchor location with 3.0m implantation .Caty 65/cu and Cont 107/cu WP 75 kgf/m2.	08.08.85	FOLDE R 22

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42.	ETI/C/0716	A	Employment schedule for OHE mast (9.5m) overlap anchor location with 3.0m implantation. Caty 65/cu and Cont 107/cu.WP 112.5 kgf/m2.	08.08.85	FOLDE R 22
43.	ETI/C/0717 SH-1	A	Employment schedule for OHE mast (9.5m) wind pressure 112.5 kgf/m2 for composite OHE (1000+1000) kgf tension. OHE only.	21.09.05	FOLDE R 22
44.	ETI/C/0717 SH-2	A	Employment schedule for OHE mast (9.5m) wind pressure 112.5 kgf/m2 for composite OHE (1000+1000) kgf tension. OHE + EW.	21.09.05	FOLDE R 22
45.	ETI/C/0717 SH-3	A	Employment schedule for OHE mast (9.5m) wind pressure 112.5 kgf/m2 for composite OHE (1000+1000) kgf tension. OHE + RC.	21.09.05	FOLDE R 22
46.	ETI/C/0717 SH-4	A	Employment schedule for OHE mast (9.5m) wind pressure 112.5 kgf/m2 for composite OHE (1000+1000) kgf tension. OHE + EW+RC.	21.09.05	FOLDE R 22
47.	ETI/C/0718	B	Employment schedule for OHE mast (9.5m) wind pressure 112.5kgf/m2 with 3.0m implantation composite OHE (1000+ 1000) kgf tension. Overlap anchor location.	19.10.05	FOLDE R 22
48.	ETI/C/0719	B	Employment schedule for OHE mast (9.5m) wind pressure 112.5 kgf/m2 with 3.0m implantation composite OHE (1000 + 1000) kgf tension overlap central location.	19.10.05	FOLDE R 22
49.	ETI/C/0720	B	Employment schedule for OHE mast (9.5m)wind pressure 112.5kgf/m2 with 3.0m implantation composite OHE (1000 + 1000) kgf Tension . Overlaps inter location.	19.10.05	FOLDE R 22
50.	ETI/C/0721 SH-1	-	Employment schedule for regulated OHE mast (9.5m) wind pressure 75kgf/m2 for composite OHE (1000+1000) kgf tension. OHE only.	26.08.86	FOLDE R 23
51.	ETI/C/0721 SH-2	-	Employment schedule for regulated OHE mast (9.5m) wind pressure 75kgf/m2 for composite OHE (1000+1000) kgf tension. OHE + EW	26.08.86	FOLDE R 23
52.	ETI/C/0721 SH-3	-	Employment schedule for regulated OHE mast (9.5m) wind pressure 75kgf/m2 for composite OHE (1000+1000) kgf tension. OHE + RC	26.08.86	FOLDE R 23
53.	ETI/C/0721 SH-4	-	Employment schedule for regulated OHE mast (9.5m) wind pressure 75kgf/m2 for composite OHE (1000+1000) kgf tension. OHE+EW+RC	26.08.86	FOLDE R 23
54.	ETI/C/0722	-	Employment schedule for regulated OHE mast (9.5m)wind pressure 75 kgf/m2 for composite OHE with extra setting distance. Overlap anchor location.	01.09.86	FOLDE R 23

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55.	ETI/C/0723	-	Employment schedule for regulated OHE mast (9.5m) wind pressure 75 kgf/m ² for composite OHE with extra setting distance. Overlap central location.	01.09.86	FOLDE R 23
56.	ETI/C/0725	A	Employment schedule for prestressed spun concrete mast (PC 42) 9.5 m long. Conventional OHE, normal location WP 150, 112.5 and 75 kgf/m ² .	14.12.89	FOLDE R 23
57.	ETI/C/0724	-	Employment schedule for regulated OHE mast (9.5m) wind pressure 75 kgf/m ² for composite OHE with extra setting distance. Overlap inters location.	01.09.86	FOLDE R 23
58.	ETI/C/0726 SH-1	-	Employment schedule for OHE mast (9.5m) for wind pressure 150kgf/m ² copper OHE. --OHE only	19.07.88	FOLDE R 23
59.	ETI/C/0726 SH-2	-	Employment schedule for OHE mast (9.5m) for wind pressure 150kgf/m ² copper OHE. --OHE + EW	19.07.88	FOLDE R 23
60.	ETI/C/0726 SH-3	-	Employment schedule for OHE mast (9.5m) for wind pressure 150kgf/m ² copper OHE. --OHE + RC	19.07.88	FOLDE R 23
61.	ETI/C/0726 SH-4	-	Employment schedule for OHE mast (9.5m) for wind pressure 150 kgf/m ² copper OHE. -- OHE + EW + RC.	19.07.88	FOLDE R 23
62.	ETI/C/0727	-	Employment schedule for OHE mast (9.5m) for wind pressure 150kgf/m ² copper OHE, with Higher Implantation. Overlap anchor location.	19.07.88	FOLDE R 24
63.	ETI/C/0728	-	Employment schedule for OHE mast (9.5m) for wind pressure 150kgf/m ² copper OHE, with Higher Implantation. Overlap central location.	19.07.88	FOLDE R 24
64.	ETI/C/0729	-	Employment schedule for OHE mast (9.5m) for wind pressure 150kgf/m ² copper OHE, with Higher Implantation. Overlap inter location	19.07.88	FOLDE R 24
65.	ETI/C/0730 SH-1	-	Employment schedule for OHE mast (9.5m) Wind-112.5 kgf/m ² copper OHE, 1200 kg tensions for high speed 160 km/h. --OHE only.	23.12.88	FOLDE R 24
66.	ETI/C/0730 SH-2	-	Employment schedule for OHE mast (9.5m) Wind-112.5 kgf/m ² copper OHE, 1200 kg tensions for high speed 160 km/h. -- OHE + EW.	23.12.88	FOLDE R 24
67.	ETI/C/0730 SH-3	-	Employment schedule for OHE mast (9.5m) Wind-112.5 kgf/m ² copper OHE, 1200 kg tensions for high speed 160 km/h --OHE + RC.	23.12.88	FOLDE R 24
68.	ETI/C/0730 SH-4	-	Employment schedule for OHE mast (9.5m) Wind-112.5 kgf/m ² copper OHE, 1200 kg tensions for high speed 160 km/h. --OHE + EW + RC.	23.12.88	FOLDE R 24
69.	ETI/C/0730-1	-	Employment schedule for OHE mast (9.5 m)	23.12.	FOLDE

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			W.P. 112.5 Kgf/m ² copper OHE (1200 + 1200) caty.65 mm ² , cont.107mm ² (for high speed 160Kmph) overlap anchor location with 3:1 regulating equipment.	93	R 24
70.	ETI/C/731	-	Employment schedule for OHE mast (9.5m) Wind-112.5 kgf/m ² , copper OHE, with 1200 kg tensions, with Higher Implantation for high speed 160 km/h. overlap inter location.	23.12.88	FOLDE R 25
71.	ETI/C/732	-	Employment schedule for OHE mast (9.5m) Wind -112.5 kgf/m ² , copper OHE, with 1200 kg tensions, with Higher Implantation for high speed 160 km/h. overlap central location.	23.12.88	FOLDE R 25
72.	ETI/C/733	-	Employment schedule for OHE mast (9.5m) Wind -112.5 kgf/m ² , copper OHE, with 1200 kg tensions, with Higher Implantation for high speed 160 km/h. overlap anchor location.	23.12.88	FOLDE R 25
73.	ETI/C/0733-1	-	Employment schedule for OHE mast (9.5m) W.P.112.5 kgf/m ² Copper OHE (1200 + 1200) caty. 65 mm ² cont.107mm ² (For high speed 160 kmph) overlap anchor location with 3:1 regulating equipment (with higher setting).	23.12.93	FOLDE R 25
74.	ETI/C/0734 SH-1	-	Employment Schedule for OHE Mast (9.5 m) wind 75 kgf/m ² AAAOHE, with 1000 kg tensions. OHE only.	08.09.89	FOLDE R 25
75.	ETI/C/0734 SH-2	-	Employment Schedule for OHE Mast (9.5 m) wind 75 kgf/m ² AAA OHE, with 1000 kg tensions OHE+EW.	08.09.89	FOLDE R 25
76.	ETI/C/0734 SH-3	-	Employment Schedule for OHE Mast (9.5 m) wind 75 kgf/m ² AAAOHE, with 1000 kg tensions OHE+RC	08.09.89	FOLDE R 25
77.	ETI/C/0734 SH-4	-	Employment Schedule for OHE Mast (9.5 m) wind 75 kgf/m ² AAA OHE,with 1000 kg tensions OHE+EW+RC	08.09.89	FOLDE R 25
78.	ETI/C/0735	-	Employment Schedule for OHE Mast (9.5 m) wind 75 kgf/m ² AAA OHE, with 1000 kg tension. Overlap central location with higher implantation.	08.09.89	FOLDE R 25
79.	ETI/C/0736	-	Employment Schedule for OHE Mast (9.5 m) wind 75 kgf/m ² AAA OHE, with 1000 kg tension. Overlap inters location with higher implantation.	08.09.89	FOLDE R 25
80.	ETI/C/0738 SH-1	-	Employment Schedule for OHE Mast (9.5 m) wind 112.5 kgf/m ² AAA OHE, with 1000 kg tensions OHE only.	08.09.89	FOLDE R 26
81.	ETI/C/0738 SH-2	-	Employment Schedule for OHE Mast (9.5 m) wind 112.5 kgf/m ² AAA OHE, with 1000 kg tensions OHE + EW	08.09.89	FOLDE R 26

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82.	ETI/C/0738 SH-3	-	Employment Schedule for OHE Mast (9.5 m) wind 112.5 kgf/m 2 AAA OHE, with 1000 kg tensions. OHE + RC	08.09.89	FOLDE R 26
83.	ETI/C/0738 SH-4	-	Employment Schedule for OHE Mast (9.5 m) wind 112.5 kgf/m 2 AAA OHE, with 1000 kg tensions. OHE +EW +RC.	08.09.89	FOLDE R 26
84.	ETI/C/0739	-	Employment Schedule for OHE Mast (9.5 m) wind 112.5 kgf/m 2 AAA OHE, with 1000 kg tensions. Overlap central location with higher implantation.	08.09.89	FOLDE R 26
85.	ETI/C/0740	-	Employment Schedule for OHE Mast (9.5 m) wind 112.5 kgf/m 2 AAA OHE, with 1000 kg tensions. Overlap inter location with higher implantation	08.09.89	FOLDE R 26
86.	ETI/C/0741	-	Employment Schedule for OHE Mast (9.5 m) wind 112.5 kgf/m 2 AAA OHE, with 1000 kg tensions. Overlap anchor location with higher implantation	08.09.89	FOLDE R 26
87.	ETI/C/0742 SH-1	-	Employment schedule for OHE mast (9.5 m) for 2 X 25 kV with copper OHE with (1000+1000) tension, wind pressure 112.5 kgf/m 2. (OHE+AT feeder) and without EW.	23.10.89	FOLDE R 26
88.	ETI/C/0742 SH-2	-	Employment schedule for OHE mast (9.5 m) for 2 X 25 kV with copper OHE with (1000+1000) tension, wind pressure 112.5 Kgf/m 2. (OHE+AT feeder), without EW and with extra setting.	23.10.89	FOLDE R 26
89.	ETI/C/0742 SH-3	-	Employment schedule for OHE mast (9.5 m) for 2 X 25 kV with copper OHE with (1000+1000) tension, wind pressure 112.5 Kgf/m 2. (OHE+AT feeder) + EW.	23.10.89	FOLDE R 26
90.	ETI/C/0742 SH-4	-	Employment schedule for OHE mast (9.5 m) for 2 X 25 kV with copper OHE with (1000+1000) tension, wind pressure 112.5 Kgf/m 2. (OHE+AT feeder) + EW and with extra setting.	23.10.89	FOLDE R 26
91.	ETI/C/0743 SH-1	-	Employment schedule for OHE Mast (9.5 m) for 2 X 25 kV composite OHE with (1000+1000) tension, wind pressure 112.5 Kgf/m 2. (OHE+AT feeder) and without EW.	07.02.90	FOLDE R 27
92.	ETI/C/0743 SH-2	-	Employment schedule for OHE Mast (9.5 m) for 2 X 25 kV composite OHE with (1000+1000) tension, wind pressure 112.5 Kgf/m 2. (OHE+AT feeder),without EW and with extra setting.	07.02.90	FOLDE R 27
93.	ETI/C/0743 SH-3	-	Employment schedule for OHE Mast (9.5 m) for 2 X 25 kV composite OHE with (1000+1000) tension, wind pressure 112.5 Kgf/m 2.	07.02.90	FOLDE R 27

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			(OHE+AT feeder +EW).		
94.	ETI/C/0743 SH-4	-	Employment schedule for OHE Mast (9.5 m) for 2 X 25 kV composite OHE with (1000+1000) tension, wind pressure 112.5 Kgf/m 2. (OHE+AT feeder +EW) and with extra setting.	07.02. 90	FOLDE R 27
95.	ETI/C/0747 SH-1	-	Employment schedule for OHE mast (9.5 m), W.P 112.5 kgf/m2 copper OHE (cat. 65 mm2. cont.150 mm2 F.B.) (1200 + 1200 with 3:1 regulating equipment). OHE only.	22.04. 93	FOLDE R 27
96.	ETI/C/0747 SH-2	-	Employment schedule for OHE mast (9.5 m), W.P 112.5 kgf/m2 copper OHE (cat. 65 mm2. cont.150 mm2 F.B.) (1200 + 1200 with 3:1 regulating equipment). OHE + EW.	22.04. 93	FOLDE R 27
97.	ETI/C/0747 SH-3	-	Employment schedule for OHE mast (9.5 m), W.P 112.5 kgf/m2 copper OHE (cat. 65 mm2. cont.150 mm2 F.B.) (1200 + 1200 with 3:1 regulating equipment). OHE + RC.	22.04. 93	FOLDE R 27
98.	ETI/C/0747 SH-4	-	Employment schedule for OHE mast (9.5 m), W.P 112.5 kgf/m2 copper OHE (cat. 65 mm2. cont.150 mm2 F.B.) (1200 + 1200 with 3:1 regulating equipment). OHE + EW + RC.	22.04. 93	FOLDE R 27
99.	ETI/C/0748	-	Employment schedule for OHE mast (9.5 m) WP 112.5 kgf/m2 copper OHE (caty. 65 mm2, cont.150 mm2 F.B.).with (1200 + 1200) (overlap central location with higher setting).	22.04. 93	FOLDE R 27
100	ETI/C/0749	-	Employment schedule for OHE mast (9.5 m) WP 112.5 kgf/m2 copper OHE (caty. 65 mm2, cont.150 mm2 F.B. with 1200 + 1200) with 3:1 ATD (overlap anchor location with higher setting).	22.04. 93	FOLDE R 27
101	ETI/C/0750	-	Employment schedule for OHE mast (9.5 m) WP 112.5 kgf/m2 copper OHE (caty. 65 mm2, cont.150 mm2 F.B. with 1200 + 1200) (overlap inter location with higher setting).	22.04. 93	FOLDE R 27
102	ETI/C/0755 SH-1	-	Employment Schedule for OHE mast (9.5 m) wind - 150 kgf/m ² cat- 65cu, cont-150 cu (FB) with (800+1200) kgf tension. OHE only.	24.03. 95	FOLDE R 28
103	ETI/C/0755 SH-2	-	Employment Schedule for OHE mast (9.5 m) wind - 150 kgf/m ² cat- 65cu, cont-150 cu (FB) with (800+1200) kgf tension. OHE + EW.	24.03. 95	FOLDE R 28
104	ETI/C/0755 SH-3	-	Employment Schedule for OHE mast (9.5 m) wind - 150 kgf/m ² cat- 65cu, cont-150 cu (FB) with (800+1200) kgf tension. OHE + RC.	24.03. 95	FOLDE R 28
105	ETI/C/0755 SH-4	-	Employment Schedule for OHE mast (9.5 m) wind - 150 kgf/m ² cat- 65cu, cont-150 cu (FB) with (800+1200) kgf tension. OHE + EW + RC.	24.03. 95	FOLDE R 28
106	ETI/C/0756 SH-1		Employment Schedule for OHE mast (9.5 m) wind - 75 kgf/m ² cat- 65cu, cont-150 cu FB	24.03. 95	FOLDE R 28

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			with (800+1200) kgf tension. OHE only.		
107	ETI/C/0756 SH-2	-	Employment Schedule for OHE mast (9.5 m) wind - 75 kgf/m ² cat- 65cu, cont-150 cu FB with (800+1200) kgf tension. OHE + EW.	24.03.95	FOLDE R 28
108	ETI/C/0756 SH-3	-	Employment Schedule for OHE mast (9.5 m) wind - 75 kgf/m ² cat- 65cu, cont-150 cu FB with (800+1200) kgf tension. OHE + RC.	24.03.95	FOLDE R 28
109	ETI/C/0756 SH-4	-	Employment Schedule for OHE mast (9.5 m) wind - 75 kgf/m ² cat- 65 cu, cont-150 cu FB with (800+1200) kgf tension. OHE + EW + RC.	24.03.95	FOLDE R 28
110	ETI/C/0757 SH-1	-	Employment Schedule for OHE mast (9.5 m) wind - 112.5kgf/m ² cat- 65 cu, cont-150 cu FB with (800+1200) kgf tension. OHE only.	24.03.95	FOLDE R 28
111	ETI/C/0757 SH-2	-	Employment Schedule for OHE mast (9.5 m) wind - 112.5kgf/m ² cat- 65 cu, cont-150 cu FB with (800+1200) kgf tension. OHE + EW.	24.03.95	FOLDE R 28
112	ETI/C/0757 SH-3	-	Employment Schedule for OHE mast (9.5 m) wind - 112.5kgf/m ² cat- 65 cu, cont-150 cu FB with (800+1200) kgf tension. OHE + RC.	24.03.95	FOLDE R 28
113	ETI/C/0757 SH-4	-	Employment Schedule for OHE mast (9.5 m) wind - 112.5kgf/m ² cat- 65 cu, cont-150 cu FB with (800+1200) kgf. Tension. OHE + EW + RC.	24.03.95	FOLDE R 28

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7) OHE FOUNDATION**

1.	ETI/C/0005/68	-	Chart for portal foundation.	21.11.68	FOLDE R 29
2.	ETI/C/0007/68	E	Muff for OHE structures.	21.10.02	FOLDE R 29
3.	ETI/C/0012/69	E	Structure muff for sand cored foundation.	06.02.02	FOLDE R 29
4.	ETI/C/0014/70	-	Dwarf mast foundation for loose soil (SBC=5500 kg/m ²).	24.01.70	FOLDE R 29
5.	ETI/C/0023/70	A	Typical side bearing foundation on banks.	01.05.85	FOLDE R 29
6.	ETI/C/0032	B	Details of foundation for fencing upright.	21.10.02	FOLDE R 29
7.	ETI/C/0057	C	Pile foundation for OHE structure in loose banks.	21.10.02	FOLDE R 29
8.	ETI/C/0058 SH-1	E	Volume chart and equivalent chart of foundation.	30.08.99	FOLDE R 29
9.	ETI/C/0058 SH-2A	D	Volume chart and equivalent chart of foundation for NEW PURE GRAVITY TYPE.	06.02.02	FOLDE R 29
10.	ETI/C/0058 SH-3A	B	Volume chart and equivalent chart of foundation for DRY BLACK COTTON soil (NBC Type).for 16500 and 11000 kgf/m ² , 3.0m depth.	06.02.02	FOLDE R 29
11.	ETI/C/0058 SH-4	B	Volume chart and equivalent chart of	06.02.	FOLDE

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			foundation for NEW PURE GRAVITY Type (500 mm exposed).	02	R 29
12.	ETI/C/0058 SH-5	B	Volume chart and equivalent chart of foundation for DRY BLACK COTTON soil only for 8000 kgf/m ² (NBC Type) 2.5 m depth.	06.02.02	FOLDE R 29
13.	ETI/C/0058 SH-6	B	Volume chart and equivalent chart of foundation (for a direct load of 4000 kg).	06.02.02	FOLDE R 29
14.	TI/DRG/CIV/FND/RDSO/00001/04/0 SH.-1	1	Volume chart and equivalent chart of foundation (Side bearing, Side gravity & W.B.C.).	04.06.09	FOLDE R 30
15.	TI/DRG/CIV/FND/RDSO/00001/04/0 SH.-2	1	Volume chart and equivalent chart of foundation (N. G. Type).	04.06.09	FOLDE R 30
16.	TI/DRG/CIV/FND/RDSO/00001/04/0 SH.-3	1	Volume chart and equivalent chart of foundation for DRY BLACK COTTON SOIL (NBC Type) for 16500 & 11000 Kgf/m ² 3.0 m depth.	04.06.09	FOLDE R 30
17.	TI/DRG/CIV/FND/RDSO/00001/04/0 SH.-4	1	Volume chart and equivalent chart of NEW PURE GRAVITY FOUNDATIONS (500 mm. Exposed)	04.06.09	FOLDE R 30
18.	TI/DRG/CIV/FND/RDSO/00001/04/0 SH.-5	1	Volume and equivalent chart of foundations for DRY BLACK COTTON SOIL only (8000Kg/m ²) NBC Type 2.5m depth.	04.06.09	FOLDE R 30
19.	ETI/C/0059	B	Details of OHE foundation in soft rock (SBC = 45000 kgf/m ²).	21.10.02	FOLDE R 30
20.	ETI/C/0060	B	Details of OHE foundation in hard rock (SBC=90000 kgf/m ²).	21.10.02	FOLDE R 30
21.	ETI/C/0061	-	Arrangement of treating black cotton soil at the location of OHE foundation on stable bank.	03.03.76	FOLDE R 30
22.	ETI/C/0062	B	Short bored pile foundation for traction mast (permissible BM and volume).	21.10.02	FOLDE R 30
23.	ETI/C/0063	B	Chart for portal foundation in dry black cotton soil (SBC=16500 kgf/m ²).	14.03.78	FOLDE R 30
24.	ETI/C/0080	A	Details of foundation in hard rock for PORTALS.	21.10.02	FOLDE R 30
25.	ETI/C/0209	C	Details of foundation for 132/25 kV traction substation structures.	21.10.02	FOLDE R 30
26.	ETI/SK/C/131	-	Typical design of pure gravity foundation.	21.12.77	FOLDE R 30
27.	ETI/SK/C/142	-	Typical design of side gravity foundation.	24.02.78	FOLDE R 30

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8. MISCELLANEOUS

1.	ETI/C/0002	A	Details of base plate for mast on drains	16.07.70	FOLDER
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2.	ETI/C/0010	C	Bolted base connection for portals located in drains.	04.03.91	FOLDER 31
3.	ETI/C/0045 SH-1	D	132 kV emergency tower (with RSJ) outline diagram	18.03.86	FOLDER 31
4.	ETI/C/0045 SH-2	E	132 kV emergency tower (with RSJ) structural drawings	20.08.75	FOLDER 31
5.	ETI/C/0068	H	Protective screen at foot over and road over bridge.	11.09.08	FOLDER 31
6.	ETI/C/0069	C	Danger plate in level crossing gauge for electrified section	06.04.00	FOLDER 31

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9. SPUN PRESTRESSED CEMENT CONCRETE (PSC) OHE MAST

1.	ETI/SK/C/214 SH-1	E	MS Bracket fitting for PSC General arrangement and SPS details	09.02.90	FOLDE R 32
2.	.ETI/SK/C/214 SH-2	A	SPS details for earth wire clamp on PSC mast	22.06.94	FOLDE R 32
3.	ETI/SK/C/242	A	RC arrangement in PSC mast	22-09-95	FOLDE R 32
4.	ETI/OHE/SK/537 SH-1	D	Earthing and bonding of PSC mast.	28.12.94	FOLDE R 32
5.	ETI/OHE/SK/537 SH-2	B	Typical earthing arrangement in spun PSC mast with 18 mm dia rod.	28.12.94	FOLDE R 32

Note:-

This Master list is valid for two year from the date of issue. There after it's validity ceases to exist. Any updation / correction in between shall be advised to the customer separately in the form of a correction slip.

6.0 Referenced Documents of External Origin

Nil

7.0 Associated Records

Nil

8.0 Responsibility and Authority

Activity	Responsible	Approver	Supporting	Consulted	Informed
Creation, maintenance of this document	DD/TI	HOD/TI	SE/JE/ISO	MR/ISO-Cell	All groups through Intranet

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Cpmpliance of directives contained in this document	All groups in charges	HOD/TI	SE/JE concerned		
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9.0 Abbreviations

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