

## ADDITIONS TO PHASE VII, PROJECT Z68

CODE	DESCRIPTION	QTY	UNIT
04-68-70001	132 kV Circuit Breaker 3150A 40kA with operating mechanism	8	piece(s)
04-68-70002	Steel structures for CB	8	piece(s)
04-68-70003	SF6 gas for CB	1	set
04-68-70004	132 kV 1250A Disconnecter with operating mechanism	18	piece(s)
04-68-70005	132 kV 1250A Disconnecter with Earthing Switch	4	piece(s)
04-68-70006	132 kV 1-ph current tranfo 600-1200/5-5-5 & 2000/5-5 A	12	piece(s)
04-68-70007	132 kV 1-ph current tranfo 150-300/5-5-5 & 2000/5-5 A	9	piece(s)
04-68-70008	132 kV 1-ph current tranfo 800-1600/5 & 2000/5 A	3	piece(s)
04-68-70009	132 kV 1-ph current tranfo 800-1600/5 & 2000/5 A	3	piece(s)
04-68-70010	132 kV 1-ph capacitor voltage tranfo 132/V3/0,11/V3/0,11/V3	12	piece(s)
04-68-70011	132 kV 1-ph inductive voltage tranfo 132/V3/0,11/V3/0,11/V3	6	piece(s)
04-68-70012	132 kV 1-ph lightning arrestors for main transformers	9	piece(s)
04-68-70013	Steel structures including gantries and switchgear supports	1	set
04-68-70014	String insulators complete with disk insulators & fittings	1	set
04-68-70015	Lightning cable	1	set
04-68-70016	HV conductors & accessories	1	set
04-68-70017	Connectors	1	set
04-68-70018	Earthing cables and accessories	1	set
04-68-70019	Lighting	1	set
04-68-70020	Marshalling cubicles	10	piece(s)
04-68-70021	Power transformers 132/33/11 kV, 63/50/40 MVA	3	piece(s)
04-68-70022	33 kV transformer feeder - Tr, 132/33/11 kV	3	piece(s)
04-68-70023	33 kV Outgoing feeders	15	piece(s)
04-68-70024	33 kV Bus Tie with VT	2	piece(s)
04-68-70025	33 kV Bus riser with VT	2	piece(s)
04-68-70026	11 kV transformer feeder - Tr, 132/33/11 kV	3	piece(s)
04-68-70027	11 kV Outgoing feeders	18	piece(s)
04-68-70028	11 kV Earthing Transformer Feeder	3	piece(s)
04-68-70029	11 kV Bus Tie	2	piece(s)
04-68-70030	11 kV Bus riser with VT	2	piece(s)
04-68-70031	11 kV VT feeder	1	piece(s)
04-68-70032	Earthing Transformer 11/0,4 kV & Resistor	3	piece(s)
04-68-70033	36 kV Cable XLPE 1 x 400 sqmm (cu)	1750	meter
04-68-70034	36 kV Cable XLPE 1 x 240 sqmm (cu)	4000	meter
04-68-70035	15 kV Cable XLPE 1 x 400 sqmm (cu)	7500	meter
04-68-70036	15 kV Cable XLPE 1 x 70 sqmm (cu)	100	meter
04-68-70037	Termination 36 kV outdoor, 1x400 mm <sup>2</sup> & accessories	12	piece(s)
04-68-70038	Termination 36 kV indoor, 1x400 mm <sup>2</sup> & accessories	12	piece(s)
04-68-70039	Termination 36 kV outdoor, 1x240 mm <sup>2</sup> & accessories	45	piece(s)
04-68-70040	Termination 36 kV indoor, 1x240 mm <sup>2</sup> & accessories	45	piece(s)
04-68-70041	Termination 15 kV outdoor, 1x400 mm <sup>2</sup> & accessories	72	piece(s)
04-68-70042	Termination 15 kV indoor, 1x400 mm <sup>2</sup> & accessories	72	piece(s)
04-68-70043	Termination 15 kV outdoor, 1x70 mm <sup>2</sup> & accessories	6	piece(s)
04-68-70044	Termination 15 kV indoor, 1x70 mm <sup>2</sup> & accessories	6	piece(s)
04-68-70045	Low voltage AC distribution switchgear	1	piece(s)

04-68-70046	110 V DC Distribution boards for two batteries	1 piece(s)
04-68-70047	110 V DC Battery equipment	2 piece(s)
04-68-70048	Relay panel - 132 kV OH Feeder	4 piece(s)
04-68-70049	Relay panel - 132 kV Transformer Feeder	3 piece(s)
04-68-70050	Relay panel - 132 kV Bus coupler	1 piece(s)
04-68-70051	Relay panel - 132 kV Busbar protection	1 piece(s)
04-68-70052	Microcomputer-based Substation Control System	1 set
04-68-70053	Control panel - 132 kV OH Feeder	4 piece(s)
04-68-70054	Control panel - 132 kV Transformer Feeder	3 piece(s)
04-68-70055	Control panel - 132 kV Bus Coupler	1 piece(s)
04-68-70056	Control panel - 132 kV Synchronizing panel	1 piece(s)
04-68-70057	On Load Tap Changer Control Panel	3 piece(s)
04-68-70058	Control panel - 33 kV Switchgear	1 set
04-68-70059	Control panel - 11 kV Switchgear	1 set
04-68-70060	Signaling panel - Common signals	1 piece(s)
04-68-70061	Metering panel - For 132 kV OH Feeders	1 piece(s)
04-68-70062	Metering panel - For 33 kV Feeders	1 piece(s)
04-68-70063	Metering panel - For 11 kV Feeders	1 piece(s)
04-68-70064	LV cables, cable trays, terminations & accessories	1 set
04-68-70065	Supervisory Marshalling Cubicles	1 piece(s)
04-68-70066	50 kVA diesel generator set with accessories	1 piece(s)
04-68-70067	110 kV 800A, 1-ph disconnecter for N.P. of main transformers	3 piece(s)
04-68-70068	96 kV 1-ph lightning arresters for N.P of main transformers	3 piece(s)
04-68-70069	33 kV Neutral Earthing Equipment incl. resistors & CT cores	3 set
04-68-70070	Power transformers 33/11 kV, 31,5 MVA	2 piece(s)
04-68-70071	33 kV transformer feeder - Tr, 33/11 kV	2 piece(s)
04-68-70072	33 kV Incoming/Outgoing feeders	4 piece(s)
04-68-70073	33 kV Bus Tie with VT	1 piece(s)
04-68-70074	33 kV Bus riser with VT	1 piece(s)
04-68-70075	11 kV transformer feeder - Tr, 33/11 kV	2 piece(s)
04-68-70076	11 kV Outgoing feeders	12 piece(s)
04-68-70077	11 kV Bus Tie	1 piece(s)
04-68-70078	11 kV Bus riser with VT	1 piece(s)
04-68-70079	11 kV VT feeder	1 piece(s)
04-68-70080	11 kV Auxiliary Transformer feeder	2 piece(s)
04-68-70081	Auxiliary Transformer 11/0,4 kV	2 piece(s)
04-68-70082	11 kV Neutral Earthing Equipment incl. resistors & CT cores	2 set
04-68-70083	36 kV Cable XLPE 1 x 400 sqmm (cu)	250 meter
04-68-70084	36 kV Cable XLPE 1 x 240 sqmm (cu)	2150 meter
04-68-70085	15 kV Cable XLPE 1 x 400 sqmm (cu)	500 meter
04-68-70086	15 kV Cable XLPE 1 x 240 sqmm (cu)	3250 meter
04-68-70087	15 kV Cable XLPE 1 x 70 sqmm (cu)	200 meter
04-68-70088	Termination 36 kV outdoor, 1x400 mm2 & accessories	12 piece(s)
04-68-70089	Termination 36 kV indoor, 1x400 mm2 & accessories	12 piece(s)
04-68-70090	Termination 36 kV outdoor, 1x240 mm2 & accessories	24 piece(s)
04-68-70091	Termination 36 kV indoor, 1x240 mm2 & accessories	24 piece(s)
04-68-70092	Termination 15 kV outdoor, 1x400 mm2 & accessories	18 piece(s)
04-68-70093	Termination 15 kV indoor, 1x400 mm2 & accessories	18 piece(s)
04-68-70094	Termination 15 kV outdoor, 1x240 mm2 & accessories	36 piece(s)
04-68-70095	Termination 15 kV indoor, 1x240 mm2 & accessories	36 piece(s)
04-68-70096	Termination 15 kV outdoor, 1x70 mm2 & accessories	6 piece(s)

04-68-70097	Termination 15 kV indoor, 1x70 mm <sup>2</sup> & accessories	6 piece(s)
04-68-70098	Low voltage AC distribution switchgear	1 piece(s)
04-68-70099	110 V DC Distribution boards for two batteries	1 piece(s)
04-68-70100	110 V DC Battery equipment	1 piece(s)
04-68-70101	Control panel - 33 kV Switchgear	1 set
04-68-70102	Control panel - 11 kV Switchgear	1 set
04-68-70103	Signaling panel - Common signals	1 piece(s)
04-68-70104	On Load Tap Changer Control Panel	2 piece(s)
04-68-70105	Metering panel - For 33 kV Feeders	1 piece(s)
04-68-70106	Metering panel - For 11 kV Feeders	1 piece(s)
04-68-70107	LV cables, cable trays, terminations & accessories	1 set
04-68-70108	Supervisory Marshalling Cubicles	1 piece(s)
04-68-70109	50 kVA diesel generator set with accessories	1 piece(s)
04-68-70110	Earthing material	1 set
04-68-70111	Power transformers 33/11 kV, 31,5 MVA	2 piece(s)
04-68-70112	33 kV transformer feeder - Tr, 33/11 kV	2 piece(s)
04-68-70113	33 kV Incoming/Outgoing feeders	4 piece(s)
04-68-70114	33 kV Bus Tie with VT	1 piece(s)
04-68-70115	33 kV Bus riser with VT	1 piece(s)
04-68-70116	11 kV transformer feeder - Tr, 33/11 kV	2 piece(s)
04-68-70117	11 kV Outgoing feeders	12 piece(s)
04-68-70118	11 kV Bus Tie	1 piece(s)
04-68-70119	11 kV Bus riser with VT	1 piece(s)
04-68-70120	11 kV VT feeder	1 piece(s)
04-68-70121	11 kV Auxiliary Transformer feeder	2 piece(s)
04-68-70122	Auxiliary Transformer 11/0,4 kV	2 piece(s)
04-68-70123	11 kV Neutral Earthing Equipment incl. resistors & CT cores	2 set
04-68-70124	36 kV Cable XLPE 1 x 400 sqmm (cu)	250 meter
04-68-70125	36 kV Cable XLPE 1 x 240 sqmm (cu)	2150 meter
04-68-70126	15 kV Cable XLPE 1 x 400 sqmm (cu)	500 meter
04-68-70127	15 kV Cable XLPE 1 x 240 sqmm (cu)	3250 meter
04-68-70128	15 kV Cable XLPE 1 x 70 sqmm (cu)	200 meter
04-68-70129	Termination 36 kV outdoor, 1x400 mm <sup>2</sup> & accessories	12 piece(s)
04-68-70130	Termination 36 kV indoor, 1x400 mm <sup>2</sup> & accessories	12 piece(s)
04-68-70131	Termination 36 kV outdoor, 1x240 mm <sup>2</sup> & accessories	24 piece(s)
04-68-70132	Termination 36 kV indoor, 1x240 mm <sup>2</sup> & accessories	24 piece(s)
04-68-70133	Termination 15 kV outdoor, 1x400 mm <sup>2</sup> & accessories	18 piece(s)
04-68-70134	Termination 15 kV indoor, 1x400 mm <sup>2</sup> & accessories	18 piece(s)
04-68-70135	Termination 15 kV outdoor, 1x240 mm <sup>2</sup> & accessories	36 piece(s)
04-68-70136	Termination 15 kV indoor, 1x240 mm <sup>2</sup> & accessories	36 piece(s)
04-68-70137	Termination 15 kV outdoor, 1x70 mm <sup>2</sup> & accessories	6 piece(s)
04-68-70138	Termination 15 kV indoor, 1x70 mm <sup>2</sup> & accessories	6 piece(s)
04-68-70139	Low voltage AC distribution switchgear	1 piece(s)
04-68-70140	110 V DC Distribution boards for two batteries	1 piece(s)
04-68-70141	110 V DC Battery equipment	1 piece(s)
04-68-70142	Control panel - 33 kV Switchgear	1 set
04-68-70143	Control panel - 11 kV Switchgear	1 set
04-68-70144	Signaling panel - Common signals	1 piece(s)
04-68-70145	On Load Tap Changer Control Panel	2 piece(s)
04-68-70146	Metering panel - For 33 kV Feeders	1 piece(s)
04-68-70147	Metering panel - For 11 kV Feeders	1 piece(s)

04-68-70148	LV cables, cable trays, terminations & accessories	1 set
04-68-70149	Supervisory Marshalling Cubicles	1 piece(s)
04-68-70150	50 kVA diesel generator set with accessories	1 piece(s)
04-68-70151	Earthing material	1 set
04-68-70152	Power transformers 33/11 kV, 5 MVA	2 piece(s)
04-68-70153	33 kV transformer feeder - Tr, 33/11 kV	2 piece(s)
04-68-70154	33 kV Incoming/Outgoing feeders	2 piece(s)
04-68-70155	33 kV Bus Tie with VT	1 piece(s)
04-68-70156	33 kV Bus riser with VT	1 piece(s)
04-68-70157	11 kV transformer feeder - Tr, 33/11 kV	2 piece(s)
04-68-70158	11 kV Outgoing feeders	8 piece(s)
04-68-70159	11 kV Bus Tie	1 piece(s)
04-68-70160	11 kV Bus riser with VT	1 piece(s)
04-68-70161	11 kV VT feeder	1 piece(s)
04-68-70162	11 kV Auxiliary Transformer feeder	2 piece(s)
04-68-70163	Auxiliary Transformer 11/0,4 kV	2 piece(s)
04-68-70164	11 kV Neutral Earthing Equipment incl. resistors & CT cores	2 set
04-68-70165	36 kV Cable XLPE 1 x 400 sqmm (cu)	7503 meter
04-68-70166	15 kV Cable XLPE 1 x 400 sqmm (cu)	300 meter
04-68-70167	15 kV Cable XLPE 1 x 240 sqmm (cu)	2250 meter
04-68-70168	15 kV Cable XLPE 1 x 70 sqmm (cu)	200 meter
04-68-70169	Termination 36 kV outdoor, 1x400 mm <sup>2</sup> & accessories	12 piece(s)
04-68-70170	Termination 36 kV indoor, 1x400 mm <sup>2</sup> & accessories	12 piece(s)
04-68-70171	Termination 15 kV outdoor, 1x400 mm <sup>2</sup> & accessories	12 piece(s)
04-68-70172	Termination 15 kV indoor, 1x400 mm <sup>2</sup> & accessories	12 piece(s)
04-68-70173	Termination 15 kV outdoor, 1x240 mm <sup>2</sup> & accessories	24 piece(s)
04-68-70174	Termination 15 kV indoor, 1x240 mm <sup>2</sup> & accessories	24 piece(s)
04-68-70175	Termination 15 kV outdoor, 1x70 mm <sup>2</sup> & accessories	6 piece(s)
04-68-70176	Termination 15 kV indoor, 1x70 mm <sup>2</sup> & accessories	6 piece(s)
04-68-70177	Low voltage AC distribution switchgear	1 piece(s)
04-68-70178	110 V DC Distribution boards for two batteries	1 piece(s)
04-68-70179	110 V DC Battery equipment	1 piece(s)
04-68-70180	Control panel - 33 kV Switchgear	1 set
04-68-70181	Control panel - 11 kV Switchgear	1 set
04-68-70182	Signaling panel - Common signals	1 piece(s)
04-68-70183	On Load Tap Changer Control Panel	2 piece(s)
04-68-70184	Metering panel - For 33 kV Feeders	1 piece(s)
04-68-70185	Metering panel - For 11 kV Feeders	1 piece(s)
04-68-70186	LV cables, cable trays, terminations & accessories	1 set
04-68-70187	Supervisory Marshalling Cubicles	1 piece(s)
04-68-70188	50 kVA diesel generator set with accessories	1 piece(s)
04-68-70189	Earthing material	1 set
04-68-70190	Power transformers 33/11 kV, 5 MVA	2 piece(s)
04-68-70191	33 kV transformer feeder - Tr, 33/11 kV	2 piece(s)
04-68-70192	33 kV Incoming/Outgoing feeders	2 piece(s)
04-68-70193	33 kV Bus Tie with VT	1 piece(s)
04-68-70194	33 kV Bus riser with VT	1 piece(s)
04-68-70195	11 kV transformer feeder - Tr, 33/11 kV	2 piece(s)
04-68-70196	11 kV Outgoing feeders	8 piece(s)
04-68-70197	11 kV Bus Tie	1 piece(s)
04-68-70198	11 kV Bus riser with VT	1 piece(s)

04-68-70199	11 kV VT feeder	1 piece(s)
04-68-70200	11 kV Auxiliary Transformer feeder	2 piece(s)
04-68-70201	Auxiliary Transformer 11/0,4 kV	2 piece(s)
04-68-70202	11 kV Neutral Earthing Equipment incl. resistors & CT cores	2 set
04-68-70203	36 kV Cable XLPE 1 x 400 sqmm (cu)	7503 meter
04-68-70204	15 kV Cable XLPE 1 x 400 sqmm (cu)	300 meter
04-68-70205	15 kV Cable XLPE 1 x 240 sqmm (cu)	2250 meter
04-68-70206	15 kV Cable XLPE 1 x 70 sqmm (cu)	200 meter
04-68-70207	Termination 36 kV outdoor, 1x400 mm <sup>2</sup> & accessories	12 piece(s)
04-68-70208	Termination 36 kV indoor, 1x400 mm <sup>2</sup> & accessories	12 piece(s)
04-68-70209	Termination 15 kV outdoor, 1x400 mm <sup>2</sup> & accessories	12 piece(s)
04-68-70210	Termination 15 kV indoor, 1x400 mm <sup>2</sup> & accessories	12 piece(s)
04-68-70211	Termination 15 kV outdoor, 1x240 mm <sup>2</sup> & accessories	24 piece(s)
04-68-70212	Termination 15 kV indoor, 1x240 mm <sup>2</sup> & accessories	24 piece(s)
04-68-70213	Termination 15 kV outdoor, 1x70 mm <sup>2</sup> & accessories	6 piece(s)
04-68-70214	Termination 15 kV indoor, 1x70 mm <sup>2</sup> & accessories	6 piece(s)
04-68-70215	Low voltage AC distribution switchgear	1 piece(s)
04-68-70216	110 V DC Distribution boards for two batteries	1 piece(s)
04-68-70217	110 V DC Battery equipment	1 piece(s)
04-68-70218	Control panel - 33 kV Switchgear	1 set
04-68-70219	Control panel - 11 kV Switchgear	1 set
04-68-70220	Signaling panel - Common signals	1 piece(s)
04-68-70221	On Load Tap Changer Control Panel	2 piece(s)
04-68-70222	Metering panel - For 33 kV Feeders	1 piece(s)
04-68-70223	Metering panel - For 11 kV Feeders	1 piece(s)
04-68-70224	LV cables, cable trays, terminations & accessories	1 set
04-68-70225	Supervisory Marshalling Cubicles	1 piece(s)
04-68-70226	50 kVA diesel generator set with accessories	1 piece(s)
04-68-70227	Earthing material	1 set
04-68-70228	132 kV Circuit Breaker 3150A 40kA with operating mechanism	5 piece(s)
04-68-70229	Steel structures for CB	5 piece(s)
04-68-70230	SF6 gas for CB	1 set
04-68-70231	132 kV 1250A Disconnecter with operating mechanism	12 piece(s)
04-68-70232	132 kV 1250A Disconnecter with Earthing Switch	2 piece(s)
04-68-70233	132 kV 1-ph current tranfo 600-1200/5-5-5 & 2000/5-5 A	6 piece(s)
04-68-70234	132 kV 1-ph current tranfo 150-300/5-5-5 & 2000/5-5 A	6 piece(s)
04-68-70235	132 kV 1-ph current tranfo 800-1600/5 & 2000/5 A	3 piece(s)
04-68-70236	132 kV 1-ph current tranfo 800-1600/5 & 2000/5 A	3 piece(s)
04-68-70237	132 kV 1-ph capacitor voltage tranfo 132/V3/0,11/V3/0,11/V3	6 piece(s)
04-68-70238	132 kV 1-ph inductive voltage tranfo 132/V3/0,11/V3/0,11/V3	6 piece(s)
04-68-70239	132 kV 1-ph lightning arrestors for main transformers	6 piece(s)
04-68-70240	Steel structures including gantries and switchgear supports	1 set
04-68-70241	String insulators complete with disk insulators & fittings	1 set
04-68-70242	Lightning cable	1 set
04-68-70243	HV conductors & accessories	1 set
04-68-70244	Connectors	1 set
04-68-70245	Earthing cables and accessories	1 set
04-68-70246	Lighting	1 set
04-68-70247	Marshalling cubicles	6 piece(s)
04-68-70248	Power transformers 132/33/11 kV, 63/50/40 MVA	2 piece(s)
04-68-70249	Earthing Transformer 11/0,4 kV & Resistor	2 piece(s)

04-68-70250	36 kV Cable XLPE 1 x 400 sqmm (cu)	1800 meter
04-68-70251	15 kV Cable XLPE 1 x 400 sqmm (cu)	1800 meter
04-68-70252	Termination 36 kV outdoor, 1x400 mm <sup>2</sup> & accessories	12 piece(s)
04-68-70253	Termination 36 kV indoor, 1x400 mm <sup>2</sup> & accessories	12 piece(s)
04-68-70254	Termination 15 kV outdoor, 1x400 mm <sup>2</sup> & accessories	12 piece(s)
04-68-70255	Termination 15 kV indoor, 1x400 mm <sup>2</sup> & accessories	12 piece(s)
04-68-70256	Low voltage AC distribution switchgear	1 piece(s)
04-68-70257	110 V DC Distribution boards for two batteries	1 piece(s)
04-68-70258	110 V DC Battery equipment	2 piece(s)
04-68-70259	Relay panel - 132 kV OH Feeder	2 piece(s)
04-68-70260	Relay panel - 132 kV Transformer Feeder	2 piece(s)
04-68-70261	Relay panel - 132 kV Bus coupler	1 piece(s)
04-68-70262	Relay panel - 132 kV Busbar protection	1 piece(s)
04-68-70263	Microcomputer-based Substation Control System	1 set
04-68-70264	Control panel - 132 kV OH Feeder	2 piece(s)
04-68-70265	Control panel - 132 kV Transformer Feeder	2 piece(s)
04-68-70266	Control panel - 132 kV Bus Coupler	1 piece(s)
04-68-70267	Control panel - 132 kV Synchronizing panel	1 piece(s)
04-68-70268	On Load Tap Changer Control Panel	2 piece(s)
04-68-70269	Signaling panel - Common signals	1 piece(s)
04-68-70270	Metering panel - For 132 kV OH Feeders	1 piece(s)
04-68-70271	LV cables, cable trays, terminations & accessories	1 set
04-68-70272	Supervisory Marshalling Cubicles	1 piece(s)
04-68-70273	110 kV 800A, 1-ph disconnecter for N.P. of main transformers	2 piece(s)
04-68-70274	96 kV 1-ph lightning arresters for N.P of main transformers	2 piece(s)
04-68-70275	33 kV Neutral Earthing Equipment incl. resistors & CT cores	2 set
04-68-70276	Power transformers 132/33/11 kV, 63/50/25 MVA	1 piece(s)
04-68-70277	132 kV Circuit Breaker 3150A 40kA with operating mechanism	6 piece(s)
04-68-70278	Steel structures for CB	6 piece(s)
04-68-70279	SF6 gas for CB	1 set
04-68-70280	132 kV 1-ph current tranfo 600-1200/5-5-5-5 A	3 piece(s)
04-68-70281	132 kV 1-ph current tranfo 300/5-5-5-5 A	3 piece(s)
04-68-70282	132 kV 1-ph capacitor voltage tranfo 132/V3/0,11/V3/0,11/V3	3 piece(s)
04-68-70283	132 kV 1-ph capacitor voltage tranfo 132/V3/0,11/V3	1 piece(s)
04-68-70284	132 kV Bushing for power transformer	6 piece(s)
04-68-70285	132 kV Bushing for neutral of power transformer	2 piece(s)
04-68-70286	33 kV Neutral Earthing Reactor	1 piece(s)
04-68-70287	33 kV Porcelain bushing for power transformer	6 piece(s)
04-68-70288	33 kV Porcelain bushing for neutral of power transformer	2 piece(s)
04-68-70289	33 kV Indoor CT 300-600/5/5/5 A	9 piece(s)
04-68-70290	33 kV Indoor CT 1000/5/5/5 A	3 piece(s)
04-68-70291	33 kV Indoor CT 1500/5/5 A	3 piece(s)
04-68-70292	33 kV Indoor VT 33/V3/0,11/V3 kV	3 piece(s)
04-68-70293	33 kV Indoor CB 1600 A	6 piece(s)
04-68-70294	33 kV Indoor CB 800 A	3 piece(s)
04-68-70295	11 kV Neutral Earthing Resistor	1 piece(s)
04-68-70296	11 kV Porcelain bushing for PT	9 piece(s)
04-68-70297	11 kV Indoor CT 300/5/5 A	9 piece(s)
04-68-70298	11 kV Indoor CT 1500/5/5/5 A	3 piece(s)
04-68-70299	11 kV Indoor CT 1500/5/5 A	3 piece(s)
04-68-70300	11 kV Indoor CT 300/5 A	3 piece(s)

04-68-70301	11 kV Indoor VT 11/V3/0,11/V3 kV	6 piece(s)
04-68-70302	11 kV Indoor CB 1600 A	6 piece(s)
04-68-70303	11 kV Indoor CB 800 A	3 piece(s)
04-68-70304	33 kV Cable XLPE 1 x 400 sqmm (cu)	1 set
04-68-70305	11 kV Cable XLPE 1 x 400 sqmm (cu)	1 set
04-68-70306	33 kV Cable termination kit	1 set
04-68-70307	11 kV cable termination kit	1 set
04-68-70308	110 V DC Ni-Cd battery 185 Ah, 92 cells	2 set
04-68-70309	110 V DC Battery charger 60 A	2 piece(s)
04-68-70310	Clamps, connectors & micellaneous	1 set
04-68-70311	Complete Circuit Breaker 132 kV 1250 A	2 set
04-68-70312	Set (3 phase) of fixed and moving contacts for 132 kV CB	2 set
04-68-70313	Set (3 phase) of gasket/seals for 132 kV CB	4 set
04-68-70314	Set (3 phase) of contacts for isolator 132 kV 1250 A	4 set
04-68-70315	Set (3 phase) of contacts for isolator 132 kV 1600 A	2 set
04-68-70316	Set of closing coil for 132 kV CB	4 set
04-68-70317	Set of tripping coil for 132 kV CB	4 set
04-68-70318	Set of SF6 gas cylinder, 40 kg	4 set
04-68-70319	Operating motor for 132 kV CB	2 set
04-68-70320	Operating motor for 132 kV isolator	4 set
04-68-70321	Set of operating switches for 132 kV CB	2 set
04-68-70322	Set of limit switches	4 set
04-68-70323	Ammeter	6 piece(s)
04-68-70324	Voltmeter	6 piece(s)
04-68-70325	MW meter	4 piece(s)
04-68-70326	MVAr meter	4 piece(s)
04-68-70327	Set of MCBs	4 piece(s)
04-68-70328	Distance protection relay for 132 kV switchgear	1 piece(s)
04-68-70329	Differential protection relay for 132 kV switchgear	2 piece(s)
04-68-70330	Overcurrent relay for 132 kV switchgear	2 piece(s)
04-68-70331	Restricted Earth Fault relay for 132 kV switchgear	2 piece(s)
04-68-70332	Tripping relay for 132 kV switchgear	6 piece(s)
04-68-70333	Trip circuit supervision relay for 132 kV switchgear	4 piece(s)
04-68-70334	Current transducer	2 piece(s)
04-68-70335	Voltage transducer	2 piece(s)
04-68-70336	MW transducer	2 piece(s)
04-68-70337	MVAr transducer	2 piece(s)
04-68-70338	Multi-window integral solid state alarm fascia	2 piece(s)
04-68-70339	ammeter selector switch	6 piece(s)
04-68-70340	Voltmeter selector switch	6 piece(s)
04-68-70341	Selector switch, key operated	4 piece(s)
04-68-70342	Control discrepancy switch	6 piece(s)
04-68-70343	Complete Circuit Breaker 33 kV 1250 A	1 set
04-68-70344	Complete Circuit Breaker 33 kV 1600 A	1 set
04-68-70345	Set of closing coil for 33 kV CB	5 set
04-68-70346	Set of tripping coil for 33 kV CB	5 set
04-68-70347	Spring charging motor for 33 kV CB	5 set
04-68-70348	33 kV voltage transformer	6 piece(s)
04-68-70349	33 kV current transformer (incoming feeder)	6 piece(s)
04-68-70350	33 kV current transformer (outgoing feeder)	6 piece(s)
04-68-70351	Pilot wire protection relay for 33 kV switchgear	2 piece(s)

04-68-70352	Overcurrent relay for 33 kV switchgear	2 piece(s)
04-68-70353	Earth fault relay for 33 kV switchgear	2 piece(s)
04-68-70354	Restricted earth fault relay for 33 kV switchgear	2 piece(s)
04-68-70355	Auto-reclose relay for 33 kV switchgear	2 piece(s)
04-68-70356	Complete Circuit Breaker 11 kV 1250 A	1 set
04-68-70357	Complete Circuit Breaker 11 kV 2000 A	1 set
04-68-70358	Set of closing coil for 11 kV CB	5 set
04-68-70359	Set of tripping coil for 11 kV CB	5 set
04-68-70360	Spring charging motor for 11 kV CB	5 set
04-68-70361	11 kV voltage transformer	6 piece(s)
04-68-70362	11 kV current transformer (incoming feeder)	6 piece(s)
04-68-70363	11 kV current transformer (outgoing feeder)	6 piece(s)
04-68-70364	Overcurrent relay for 11 kV switchgear	2 piece(s)
04-68-70365	Earth fault relay for 11 kV switchgear	2 piece(s)
04-68-70366	Auto-reclose relay for 11 kV switchgear	2 piece(s)
04-68-70367	132 kV bushing including flange gasket	3 piece(s)
04-68-70368	33 kV bushing including flange gasket	6 piece(s)
04-68-70369	11 kV bushing including flange gasket	6 piece(s)
04-68-70370	OLTC drive motor	2 piece(s)
04-68-70371	Set of glass for each type of oil level gauge	3 piece(s)
04-68-70372	Temperature indicator	3 piece(s)
04-68-70373	Silicagel breather	3 piece(s)
04-68-70374	Silicagel	25 kg
04-68-70375	SF6 gas handling unit and accessories	1 set
04-68-70376	Hydraulic crimping tool with electric motor and accessories	1 set
04-68-70377	Hydraulic crimping tool with hydraulic pump and accessories	1 set
04-68-70378	Hydraulic cutting tool with blades for conductors	1 set
04-68-70379	Hydraulic pallet truck	1 set
04-68-70380	Circular hole saw and accessories	1 set
04-68-70381	Manual crimping pliers and accessories	7 set
04-68-70382	Portable AVO meter and accessories	7 set
04-68-70383	Electric percussion hammer drill with 25mm chuck & accessories	1 set
04-68-70384	Electric percussion hammer drill with 18mm chuck & accessories	1 set
04-68-70385	Mould for cross-over connectors, Cadweld type XBMY6Y6	10 EACH
04-68-70386	Mould for tee connectors, Cadweld type TACY6Y6	10 EACH
04-68-70387	Mould for cable to ground rod connectors Cadweld typeGTCP173Y6	10 EACH
04-68-70388	Weld metal Cadweld 150F20, cable to ground rod connectors	1200 EACH
04-68-70389	Copper-clad ground rod 3/4 inch Dia.x6feet long no. 613460	350 EACH
04-68-70390	Handle Clamp to suit C price key mould, Cadweld L160	3 EACH
04-68-70391	Toolbox and Tool kit Cadweld T315A and T396	3 EACH
04-68-70392	Mould Sealer Cadweld T403	10 EACH
04-68-70393	Stranded hard drawn copper conductor 120mm2	10 km
04-68-70394	Pilot Cable	12 km
04-68-70395	Air Conditioning/Heating Units, Capacity 18000 BTU/hr	7 Each
04-68-70396	Air Conditioning/Heating Units, Capacity 12000 BTU/hr	3 Each
04-68-70397	132 kV Circuit Breaker 3150A 40kA with operating mechanism	1 unit
04-68-70398	Steel structures for CB	1 unit
04-68-70399	SF6 gas for CB	1 unit
04-68-70400	132 kV 1250A Disconnecter with operating mechanism	2 unit
04-68-70401	132 kV 1-ph current tranfo 150-300/5-5-5 & 2000/5-5 A	1 unit
04-68-70402	Switchgear steel structure supports	40 unit

04-68-70403	HV Conductors	600 ml
04-68-70404	HV Connectors	130 unit
04-68-70405	Earthing cable	900 ml
04-68-70406	Terminals for earthing equipment	400 unit
04-68-70407	Bolts, nuts, screws, washers, rods and cable clamps	8000 unit
04-68-70408	Cable Grips	250 unit
04-68-70409	Plates and copper derivation for earthing equipment	600 unit
04-68-70410	Cable Collars	2000 unit
04-68-70411	PVC Pipes	170 ml
04-68-70412	Marshalling cubicles	1 unit
04-68-70413	Earthing Transformer 11/0,4 kV & Resistor	1 unit
04-68-70414	Relay panel - 132 kV Transformer Feeder	1 unit
04-68-70415	Control panel - 132 kV Transformer Feeder	1 unit
04-68-70416	On Load Tap Changer Control Panel	1 unit
04-68-70417	LV cables	2500 ml
04-68-70418	Cable trays	500 ml
04-68-70419	Termination	200 unit
04-68-70420	33 kV Neutral Earthing Equipment incl. resistors & CT cores	1 unit
04-68-70421	Anchor bolts diam= 36mm with nuts and washers	34 piece(s)
04-68-70422	Anchor bolts diam= 33mm with nuts and washers	639 piece(s)
04-68-70423	Anchor bolts diam= 24mm with nuts and washers	46 piece(s)
04-68-70424	Anchor bolts diam= 20mm with nuts and washers	900 piece(s)
04-68-70425	11kV dummy pannels	2 unit
04-68-70426	33kV dummy pannels	1 unit
04-68-70427	Microhmmeter MOM 600 A - FOC	1 unit
04-68-70428	Breaker analyser system TM 1600 - FOC	1 unit
04-68-70429	Step-up Transformer Magnus - FOC	1 unit
04-68-70430	Phase angle meter PAM 360 - FOC	1 unit
04-68-70431	Relay Testing Unit Sverker 750 - FOC	2 unit
04-68-70432	Portable battery load unit for the test BTS 100 - FOC	1 unit
04-68-70433	Primary injection test set KAM 5/2,5 - FOC	1 unit
04-68-70434	Three phase automatic relay test set ART/3 - FOC	2 unit
04-68-70435	Insulation tester BM 11D/E1 - FOC	1 unit
04-68-70436	Insulation tester BMM 2000 - FOC	1 unit
04-68-70437	Low r�sistance ohmmeter BT 51 - FOC	2 unit
04-68-70438	Capacitance and insulation Power factor test set CB:100) - FOC	1 unit
04-68-70439	Industrial scopemeter FL 123 - FOC	2 unit
04-68-70440	Digital thermometer FI 600c - FOC	2 unit
04-68-70441	Multimeter METRAHIT 26 M - FOC	8 unit
04-68-70442	Adapter Ref : BD PACK 1 - FOC	8 unit
04-68-70443	Clamp Meter ref : FLUKE - 336 - FOC	8 unit
04-68-70444	Multimeter ref : FLUKE - 175 - FOC	8 unit
04-68-70445	Clamp Meter ref: FLUKE 80i-110s - FOC	8 unit
04-68-70446	Analog multimeter ref : UNIGOR 120 - FOC	8 unit
04-68-70447	Phase rotation controler FI 9040 - FOC	8 unit
04-68-70448	Self generator head-phone S 7601 - FOC	2 unit
04-68-70449	Standard extension plugs male /female Ref : G295 - FOC	2 unit
04-68-70450	Multi function calibrator AOIP Ref : JN 6532 - FOC	2 unit
04-68-70451	Tools kit for tests ref : C 11 - FOC	5 unit
04-68-70452	Lap top computer for tests - FOC	2 unit
04-68-70453	Hook ladder 5m - FOC	4 unit

04-68-70454	Insulated single ladder, length : 3m - FOC	8 unit
04-68-70455	Two section extension ladder : extended length : 6m - FOC	8 unit
04-68-70456	Polypropylen rope diameter : 10mm (100m) - FOC	3 unit
04-68-70457	Polypropylen rope diameter : 14mm (100m) - FOC	3 unit
04-68-70458	Polypropylen rope diameter : 20mm (100m) - FOC	3 unit
04-68-70459	Single steel rope slings, strength : 1T, length : 1m - FOC	10 unit
04-68-70460	Single steel rope slings, strength : 1.5T, length : 1m - FOC	10 unit
04-68-70461	Single steel rope slings, strength : 2T, length : 1m - FOC	10 unit
04-68-70462	Flat polypropylen fiber sling, strength 2T, length 2m - FOC	10 unit
04-68-70463	Flat polypropylen fiber sling, strength 2T, length 5m - FOC	10 unit
04-68-70464	D-shackle, strength : 1T - FOC	8 unit
04-68-70465	D-shackle, strength : 2T - FOC	8 unit
04-68-70466	D-shackle, strength : 3T - FOC	8 unit
04-68-70467	Straight shaft jack with handle, strength : 3T - FOC	3 unit
04-68-70468	Tirfor fitted with 30m steel rope, lifting strength 1.6T - FOC	3 unit
04-68-70469	Tirfor fitted w 100m steel rope, lifting strength 2,5T - FOC	4 unit
04-68-70470	Chain block fitted with a 6m chain, strength : 1T - FOC	3 unit
04-68-70471	Snatch block, strength : 2T - FOC	8 unit
04-68-70472	Steel rope, strength : 2T, length : 100m - FOC	3 unit
04-68-70473	Come-along, strength : 2T - FOC	4 unit
04-68-70474	Hydraulic crimping press with pump - FOC	2 unit
04-68-70475	Compression dies cable cross diam 377mm sections - FOC	2 unit
04-68-70476	Torque wrench, 0.5 daNm to 10 daNm range - FOC	4 unit
04-68-70477	Torque wrench, 0.5 daNm to 10 daNm range - FOC	4 unit
04-68-70478	Standard tools : spanners, srewdrivers, pliers - FOC	4 unit
04-68-70479	Spécific tools (ALROC) for XLPE cable striping - FOC	10 unit
04-68-70480	Hydraulic pump Solhyflex with jack V20U + 2S1 ) - FOC	2 unit
04-68-70481	Correspondings dies 13UE240CU- 20UE400CU ) - FOC	2 unit
04-68-70482	Greenlee type ratchet punch (cable gland) - FOC	4 unit
04-68-70483	Crimping tool for wire end conn dia from 1mm <sup>2</sup> to 1.6mm <sup>2</sup> - FOC	20 unit
04-68-70484	Crimping tool for wire end conn dia from 1mm <sup>2</sup> to 2.6mm <sup>2</sup> - FOC	20 unit
04-68-70485	Crimping tool for wire end conn dia from 2.6mm <sup>2</sup> to 6.6mm <sup>2</sup> -FOC	20 unit
04-68-70486	FOC	30 unit
04-68-70487	Heavy Duty Safety Boots to DIN EN 345-1S3	10 Pair
04-68-70488	Compaq Evo D310 P4 2.0A GHZ	9 Each