

ERL MAINTENANCE SUPPORT SDN BHD

Co. Reg. No. 199901023674 (498574-T)



CEO OFFICE

DOCUMENTATION MANUAL

Ref.No. G00.OMM.M11160.BT.1007.A

Location	Reference	Rev.	Date	Page No.	Document Name
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Release

Released:	Thomas Baake	Chief Executive Officer	21/09/2021	<i>Th. Baake</i>
Checked:	Suriani Farisa Md Isa	Human Resource	20.8.2021	<i>Suriani Farisa Md Isa</i>
Checked:	Nauwalah Amat Mustakim	Finance & Administration	17/9/21	<i>Nauwalah Amat Mustakim</i>
Checked:	Sukhbir Singh	Safety & Security	30.8.21	<i>SS</i>
Checked:	Gan Lee Hong	Procurement	06.09.21	<i>gan</i>
Checked:	Raefendy Ismail	Material Management	01.09.2021	<i>Raefendy Ismail</i>
Checked:	James L. Boudville	Operations	1.9.2021	<i>James L. Boudville</i>
Checked:	Norhandee Nordin	Operations - Transportation	28.08.2021	<i>Norhandee Nordin</i>
Checked:	Omar Zakir	Operations - Control Centre	1.9.2021	<i>Omar Zakir</i>
Checked:	^f Ham Mow Wai	Maintenance	08.09.2021	<i>Ham Mow Wai</i>
Checked:	^f Anthony Arokianathan	Wayside	08.09.2021	<i>Anthony Arokianathan</i>
Checked:	Jayaraj Savarimuthu	Rolling Stock & Engineering	08.09.2021	<i>Jayaraj Savarimuthu</i>
Checked:	Norazman Abu Hassan	Rolling Stock	08.09.2021	<i>Norazman Abu Hassan</i>
Checked:	Noel.D	Systems	30 Aug 2021	<i>Noel.D</i>
Checked:	Abdul Halim Baharom	Infrastructure	21.9.21	<i>Abdul Halim Baharom</i>
Checked:	Muhamad Dzulfaqar Yusoff	Project and Engineering	8/9/2021	<i>Muhamad Dzulfaqar Yusoff</i> ^f
Checked:	Thomas Baake	Chief Executive Officer	06/09/2021	<i>Th. Baake</i>
Checked:	Haryati Khalil	CEO Office	17.8.21	<i>Haryati Khalil</i>
Checked:	Nurasyiqin Josni	CEO Office	16.8.2021	<i>Nurasyiqin Josni</i>
Author:	Md Azim Abdullah	CEO Office	17.8.2021	<i>Md Azim Abdullah</i>
	Name	Department	Date	Signature

Amendments or additions to this procedure must be indicated with a vertical black line in the adjacent left margin.

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Change Record and Configuration Control

Revision	Date	Modification	Name
A	2 Aug 2021	<ul style="list-style-type: none"> Department Restructuring – New department name and codes as per Memo Ref.No. OMG.STF.M11110.1027.A & OMG.STF.M11110.1026.A Update the latest Company Organisation Chart Ref.No. G00.OMG.M11110.BB.0005.* Profile at a new location under CEO department carrying same code OMM <p><i>Note: Old Document Ref.No. G00.OMM.M11160.BT.1001.A</i></p>	Md Azim

Planning Of Changes Reference For Revision: G00.OMM.M11160.BT.1007.A					
Issues To Consider	Checked (Please mark X)				Remarks
1) Are there any negative impact?	YES		NO	X	
2) Will the integrity of QEMS be affected?	YES		NO	X	
3) Resources available?	YES	X	NO		Adequate
4) Allocation or relocation of responsibilities and authorities required?	YES		NO	X	

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1 Purpose

The Documentation Manual is a reference for documentation control in ERL Maintenance Support Sdn. Bhd. (E-MAS). This manual provides the reader with information on documentation codes and templates to be used for all official correspondence matters.

This manual is established in accordance to Clause 7.5.2 of ISO 9001:2015, Quality Management System (2nd Revision)¹ and Clause 7.5.2 of ISO 14001:2015, Environmental Management System (2nd Revision)¹ standard requirements.

2 Scope, Distribution & Access

This manual applies to all departments that produce documented records. Access to this manual is to all E-MAS personnel. This manual is available in E-MAS Portal and Document Management System (EDMS).

3 Documentation Templates

The following are the E-MAS Office Templates.

- Letter & Letter to ERLSB Template (To be printed on E-MAS letterhead)
- Report Template
- Minutes of Meeting Template
- Memo Template
- Procedure Template
- Presentation Template
- File Label Template
- Working Chart Template
- General Contract Template

Office Templates are available at E-MAS Portal.

4 List of Contents & Attachments

Below are the contents of the Documentation Manual.

Document Name	Reference Code	Doc#
General Codes	G00.OMM.M11160.BT.1008.*	149804
Location Codes	G00.OMM.M11160.BT.1009.*	150028
Subject Codes	G00.OMM.M11160.BT.1010.*	150029
Type of Document Codes	G00.OMM.M11160.BT.1011.*	150030

An asterisk (*) is used to refer to the latest version.

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5 Appendix

Document Name	Reference Code	Doc#
ISO 9001:2015, Quality Management (2 nd Revision)	G00.OMQ.M11413.QG.1001.*	130537
ISO 14001:2015, Environmental Management System (2 nd Revision)	G00.OMQ.M11412.QG.1001.*	130536

¹ Refer Appendices for related ISO documentation.
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E-MAS Internal HOD Codes

Code	
	Directors / CEO Code
BOD	Board of Directors
OMG	Chief Executive Officer
	Head of Departments Function Codes
OMM	Document Controller - Under CEO Office
OMQ	Quality & Environment Management - Under CEO Office
OMA	Finance - Head of Department
OMB	Administration - Head of Department
OME	Systems - Head of Department
OMH	Human Resource - Head of Department
OMN	Maintenance - Head of Department
OMO	Operations - Head of Department
OMR	Rolling Stock - Head of Department
OMD	Project & Engineering - Head of Department
OMI	Infrastructure - Head of Department
OMX	Rolling Stock & Engineering - Head of Department
OMW	Wayside - Head of Department
OMU	Procurement - Head of Department
OML	Material Management - Head of Department
OMZ	Safety & Security - Head of Department

Note: Codes may vary in accordance to the company organization chart,
G00.OMG.M11110.BB.0005.*. An asterisk (*) is used to refer to the latest version.

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E-MAS Departmental Codes

	Department
CEO	Chief Executive Officer
OPS	Operations
OTR	Drivers & Stations
OCC	Operation Control Center
MTN	Maintenance
RST	Rolling Stock
PNE	Project & Engineering
SYS	Systems
MMT	Material Management
RSX	Rolling Stock & Engineering
WSE	Wayside
INF	Infrastructure
FAD	Finance & Administration
PRC	Procurement
HRD	Human Resource
SAS	Safety & Security

Note: Codes may vary in accordance to the company organization chart,
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External Codes

ABB	Affin Bank Berhad
ABR	Abrar Group International
ACS	Airconsult Frankfurt
AON	Insurance
ARU	ARUP
ARY	SPYTL, Air Rail Intermodality
ATD	Siemens Germany ATD, Site Infrastructure
BCB	CIMB Bank Berhad
BKR	Bank Kerjasama Rakyat Malaysia Berhad
BOM	BOMBA
BTM	Bumi Tunggal Maju
CEL	Celcom
CLE	Siemens Germany VT 31, Overhead Contact Line OCL
CPM	SYZ Consortium, Commercial Project Manager
CRC	Changchun Railway Vehicle Co. Ltd
CRW	Careware System Sdn Bhd
CTW	SPYTL, Civil & Track Work
CUS	Royal Customs and Excise Department
CWY	SPYTL, Civil Works
DBK	Dewan Bandaraya Kuala Lumpur (KL Town Council)
DEB	Deutsche Bank (M)
DEC	Deutsche Eisenbahn Consult
DIS	Distribution List eg. SEMASA, PUTRA, Bomba, KTMB eg.
DOE	Department of Environment (DOE)
DOS	Department of Security and Health (DOSH)
DWE	Siemens Germany VT4 T, SE4 Depot and Workshop
DWI	DWI Tasik Sdn Bhd (Developer)
E&Y	Ernst & Young (Tax Consultants)
EDM	Electronic Data Management System (EDMS)
ELP	Siemens VT 4 T SE2 Earthing and Lighting Protection, EMC
ELT	Siemens
EME	Siemens Germany VT4 T, SE4 Building Services
EMK	Siemens Kuala Lumpur, VT4 T, SE4 Building Services
EMS	E-MAS
EMW	Siemens AG + Siemens Electrical Engineering (SEE)
EMY	SPYTL, E&M Equipment
ENE	Siemens Germany VT4T1, Management for System Engineering
ENG	Siemens Kuala Lumpur VT4T1, Management for System Engineering
EOE	Eastern & Oriental Express

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EPU	Economic Planning Unit
ERL	Express Rail Link Sdn Bhd
FAN	Framatone Advanced Nuclear Power GmbH
FCY	SPYTL, Fare Collection / Ticketing
GDP	GDP Architects
GEO	GEO Power Sdn. Bhd (ERL Baggage Handler)
GPM	SYZ Consortium, General Project Manager
HAK	Hawk Rent A Car
HBM	Halcrow & Bovis McLachan
HCS	Hamburg Consult
HIS	HSS Integrated Sdn Bhd (Consultant)
HKA	Hijas Kasturi Associates Sdn (Developer BTS)
HSB	HSSI-Halcrow (Consultant)
IFV	Infovision / EDMS
ILC	International Legal Counsellors
INT	Siemens Switzerland VT E3, Signaling / Traffic Management System
IPP	Institute Penyelidikan & Kemajuan Pertanian Malaysia
ITL	Interfleet Technology Ltd
IVU	Ivu Traffic Technology
JBA	Jabatan Bekalan Air (Water Authority)
JBE	Jabatan Bekalan Elektrik (Electric Authority)
JBH	Jabatan Buruh (Labour Department)
JBI	Jabatan Imigresen (Immigration Department)
JKR	Jabatan Kerja Raya (Roads Department)
JPJ	Jabatan Pengangkutan Jalan (Transportation Department)
JTM	Jabatan Telekomunikasi Malaysia (Telecommunication Department)
KAC	KLIA Consultancy Services Sdn Bhd
KEL	Kelsan Technologies
KIA	Kuala Lumpur International Airport (Developer KLIA)
KLL	KL Linear City S/B (Developer)
KPM	KPMG Public Accountants
KPT	KPMG Tax Services Sdn Bhd
KSD	Kuala Lumpur Sentral Sdn Bhd (Developer KLS)
KTA	KTA Tenaga Sdn Bhd (Electrical Contractor)
KTM	Keretapi Tanah Melayu Bhd (KTMB)
LLM	Lembaga Lebuhraya Malaysia (Malaysian Highway Authority)
LRT	Pengurusan LRT (LRT 2)
MAB	Malaysia Airports Bhd
MAX	Maxis Telecommunications
MIN	Min Consult Sdn Bhd (Consultant)
MIS	Miscellaneous

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MMT	MTrans Monorail Sdn Bhd
MOL	Motorola
MOT	Ministry of Transport
MOW	Ministry of Work
MRC	Malaysian Resources Corporation Bhd (MRCB)
NEW	Newag Rail Roder
PBB	Public Bank Berhad
PCB	PCBK International Company Limited
PCM	SYZ Consortium, Contract Manager
PCO	SYZ Consortium, Process Controller
PDS	Pejabat Daerah Sepang (Sepang District Council)
PDT	Agensi Pengangkutan Awam Darat (APAD)
PDY	SPYTL, Platform Screen Doors
PLC	Polis Diraja Malaysia
PME	Siemens VT44 KLIA Germany, Project Management
PMK	Siemens VT44 KLIA Kuala Lumpur, Project Management
PMS	Project Management Spares Parts
PPJ	Perbadanan Putrajaya Sdn Bhd (Local Authority Putrajaya)
PSE	Siemens Germany VT313, Traction Power Supply
PTJ	Putrajaya Holding Sdn Bhd (Developer)
PUT	Putra - Mui Plaza
PWB	Perkhidmatan Wajar Bersih
QMI	QMI Quest Sdn Bhd
REL	Railway Electrification VT 3 T (PSE + CLE)
RLP	Rahmat & Lim Partners
RS1	Circular to distrib. list 1 in Germany and Kuala Lumpur
RS2	Circular to com. distrib. List 2 in Germany
RS3	Circular to distrib. list 3 in Germany
RS4	Circular to distrib. list 4 Partners in KL
RSE	Siemens Germany VT 842, Rolling Stock
RSS	Circular Spare Parts Contract
SAG	Siemens AG, Erlangen
SAM	Siemens AG, Munich
SBK	Siemens Bangkok
SCE	Siemens Germany EV NL S1, SCADA
SCN	Siemens Communication Networks
SCR	Schalke
SEE	Siemens Electrical Engineering Sdn Bhd, Kuala Lumpur
SES	Shaiw Engineering Services
SGS	SGS (Malaysia) Sdn. Bhd.
SIA	Sukhum Int Audit

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SJN	Sinar Jernih Sdn Bhd
SKM	Suruhanjaya Komunikasi dan Multimedia
SLB	Shook Lin & Bok
SOC	Pertubuhan Keselamatan Sosial
SPD	Suruhanjaya Pengangkutan Awam Darat
SPG	Siemens Power Generation, Kuala Lumpur
SPM	SYZ Consortium, Site Project Manager
SSB	Semasa Sentral Sdn. Bhd.
SST	Site Safety Training
SUP	Supplier
SWK	Scott Wilson Kirkpatrick
SWM	Scott Willson (M)
SYZ	Siemens-YTL Consortium
TAX	Lembaga Hasil Dalam Negeri
THT	Tabung Haji Technologies
TLE	Siemens Germany VT 213, Telecom
TNB	Tenaga Nasional Bhd
TPM	SYZ Consortium, Technical Project Manager
TRD	Third Party
TWE	Siemens Germany VT4 T SE3, Track Work
TWY	SPYTL, Track Work
UDC	UDC International Limited
UPM	Universiti Putra Malaysia
V00	Siemens VT other Departments
V44	Siemens Germany VT44, Head Office Transportation
V4L	Siemens Germany VT4, Head Office
V4T	Siemens Germany VT 4 T
V85	Siemens Germany VT 852
VER	Veritas Architects
VRW	Siemens Germany VT Accounts Department
VTD	Siemens AG VT D
YTC	YTL Corporation Sdn. Bhd.
YTL	Syarikat Pembinaan Yeoh Tiong Lay Sdn. Bhd.
YTP	YTL Power Services
ZFF	Siemens Germany Finance Department
ZFR	Siemens Germany Legal Department
ZNC	Zain & Co
ZPB	Zainuddin Parsons Brickerhoff (M) Sdn Bhd (Track Work Consultant KTMB)
ZRG	Siemens Germany Logistics Department

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Location Codes

General Location	Sub - Location	Detailed Location	Description
W00			All Way Sections
	W01		Way Section 1: KLS – BTS
	W02		Way Section 2: BTS – X Over
	W03		Way Section 3: X Over – B25
	W04		Way Section 4: B36 – B42
	W05		Way Section 5: B44 – B47
	W06		Way Section 6: B48
	W07		Way Section 7: B50
W00	B00		Bridges
	W01	B01	Bridge 1, Jalan Travers
		B02	Bridge 2, Jln. Ang Seng Footbridge
		B06	Bridge 6a, Federal Highway Viaduct
		B08	Bridge 8a, KL Seremban Viaduct
		B11	Bridge 11, KTM Track Crossing
		B12	Bridge 12, Sungai Midah
	W02	B14	Bridge 14, Turf Club Road Bridge
		B15	Bridge 15a, Sungai Pati Liat
	W03	B17	Bridge 17, Seremban Expressway/ Slip Road
		B18	Bridge 18, UPM Future Road
		B19	Bridge 19, B13 State Road
		B21	Bridge 21, UPM Future Road
		B22	Bridge 22, UPM Future Road
		B22a	Bridge 22a,b,c ; UPM Future Road/ Upper North Wetlands/ Wetlands maintenance Access Road
		B23	Bridge 23, Access Track (Mardi)
		B25	Bridge 25, Putra Jaya Upper West Wetlands
	W04	B36	Bridge 36, B15 State Road
		B42	Bridge 42, 42a ;B15 State Road/ Petronas Gas Pipeline Tunnel
	W05	B44	Bridge 44, Sungai Langat
		B45	Bridge 45, B18 State Road
		B46	Bridge 46, Access Track
		B47	Bridge 47, Access Road & Petronas Gas Pipeline
	W06	B48	Bridge 48a,b,c; Access Road/Monsoon Drain/Access Road
	W07	B50	Bridge 50, Viaduct (Sungai Labu) KLIA Perimeter Road
W00	W00	S00	Stations General
	W01	S10	Kuala Lumpur Sentral Station (KLS)

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	W02	S20	Bandar Tasik Selatan Station (BTS)
	W04	S30	Putrajaya/Cyberjaya Station (PCS)
	W06	S40	Salak Tinggi Station (STS)
	W07	S50	(KLIA) Kuala Lumpur International Airport
		S60	(KLIA2) Kuala Lumpur International Airport 2
A00			Alignment Control Plan
	A01		Alignment Control Plan Sector 1
	A02		Alignment Control Plan Sector 2
	A03		Alignment Control Plan Sector 3
	A04		Alignment Control Plan Sector 4
	A05		Alignment Control Plan Sector 5
	A06		Alignment Control Plan Sector 6
	A07		Alignment Control Plan Sector 7
E00			Systems Engineering General
	E01		Reserved
		E10	Systems Signaling
		E20	Systems Telecommunications
	E02		Reserved
	E03		Reserved
	E04		Reserved
	E05		Reserved
	E06		Reserved
	E07		Earthwork and Drainage Sector
F00			Civil Works
	F01		Civil Works - retaining wall, drainage, culvert Sector 1
	F02		Civil Works - retaining wall, drainage, culvert Sector 2
	F03		Civil Works - retaining wall, drainage, culvert Sector 3
	F04		Civil Works - retaining wall, drainage, culvert Sector 4
	F05		Civil Works - retaining wall, drainage, culvert Sector 5
	F06		Civil Works - retaining wall, drainage, culvert Sector 6
	F07		Civil Works - retaining wall, drainage, culvert Sector 7
G00			General Company wide
H00			Auxiliary Civil Work
	H01		Auxiliary Civil Work Sector 1
	H02		Auxiliary Civil Work Sector 2
	H03		Auxiliary Civil Work Sector 3
	H04		Auxiliary Civil Work Sector 4
	H05		Auxiliary Civil Work Sector 5

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	H06		Auxiliary Civil Work Sector 6
	H07		Auxiliary Civil Work Sector 7
D00			General Depot and Workshop
	D10		Workshop Buildings General
	D11		Main Workshop
	D12		Auxiliary Vehicles Workshop
	D13		Washing Plant
	D14		Spraying Cabin
	D15		Under floor Wheel Lathe
	D16		Service Platforms
	D17		Storage
	D18		Sewerage Treatment Plant
	D19		Depot – TNB Sub Station
	D20		Stabling Yard
	D21		Depot- Pump Room
	D50		Administration Building & Operation Control Centre
	D51		Admin Building & Aux Rooms
	D55		Operation Control Centre (OCC)
W03	U00		Power Supplies
		U10	Traction Power Supply (TPS)
		U20	Overhead Contact Line (OCL)
W03	X00		Double Cross Over
R00			Rolling Stock General
R01			2nd series of Rolling Stock
	R10		Rolling Stock ERL
	R11		2nd series of ERL RollingStock
	R20		Rolling Stock CRS
	R21		2nd series of CRS RollingStock

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Subject Codes

System	Sub-System	Sub-Sub-Syst.	Further Levels	Description
01000				PNE ERC General
		01010		Diagnostic Equipments
		01020		Rework Workstation
		01030		General Electronic Equipments
		01040		General Tools
	02000			PNE SD General
	03000			PNE – Internal Project
	04000			PNE – External Project
	09000			PNE Management
10000				General Information
			10001	Notes
			10002	E-MAS General
	10100			General Company Documents
			10101	World Class Company Project
			10102	Merdeka Day 2003
			10103	Formula 1 2004 Project
			10104	Formula 1 2005 Project
			10105	Low Cost Carrier Terminal Project
			10106	Formula 1 2006 Project
			10107	Measurable Targets for 2006
			10108	KL-Singapore Project
			10109	Measurable Targets for 2007
			10110	Formula 1 2007 Project
			10111	New Delhi-Airport Metro Express Line
			10112	Mumbai Metro
			10113	Abu Dhabi Metro
			10114	Formula 1 2008 Project
			10115	Measurable Target 2008
			10116	Hyderabad Metro Lines 1 to 3 (MMTS) Project
			10117	Bangkok Airport Rail Link Project
			10118	Measurable Target 2009
			10119	Company Event
			10120	Handling of Secondment of Staff for External Business/Project
			10121	Formula 1 2009 Project
			10122	Measurable Target 2010
			10123	Formula 1 2010 Project
			10124	Measurable Target 2011
			10125	Formula 1 2011 Project

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System	Sub-System	Sub-Sub-Syst.	Further Levels	Description
			10126	Measurable Target 2012
			10127	Formula 1 2012 Project
			10128	Measurable Target 2013
			10129	Formula 1 2013 Project
			10130	Measurable Target 2014
			10131	Formula 1 2014 Project
			10132	Measurable Target 2015
			10133	Formula 1 2015 Project
			10134	Measurable Target 2016
			10135	Formula 1 2016 Project
			10136	Measurable Target 2017
			10137	Formula 1 2017 Project
			10138	Measurable Target 2018
			10140	Measurable Target 2019
			10141	Measurable Target 2020
			10142	Measurable Target 2021
		10200		Specifications / Project - Tender / Correspondence
			10201	Sentul - Batu Caves Project
			10202	KLIA-ERL BHS Interface
			10203	Klang Express - KL Sentral Project
			10204	UPM and Serdang Hospital KLIA Transit Station
			10205	LCCT Station at KM51
			10206	LCCT at Labu
			10207	LCCT KLIA - KLIA2
			10208	Mid-Valley Mega-mall and Gardens Transit Station
			10209	YMAX
			10210	China Projects
			10220	Mumbai Monorail
			10230	YTL Perak Hanjoong Cement Plant
			10240	KTMB ETS MRO Contract Batu Gajah
			10250	Makkah Metro Project
		10500		Overall Company Activities
			10501	Account & Administration General
			10502	Asset Management
			10510	Conceptual Design
			10520	Preliminary Design
			10530	Detailed Design
			10540	Procurement / Manufacturing
			10541	Purchase Order
			10550	Construction
			10560	Installation of Overall SYZ Activities (General Project)

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System	Sub-System	Sub-Sub-Syst.	Further Levels	Description
			10570	Commissioning / Testing on Completion (incl. Integration)
			10571	Test on Completion Without RSE
			10572	Test on Completion With RSE
			10573	Performance Test
			10580	Training
			10581	Training Certification
			10585	Additional Service
			10590	Supervision
		10600		KTM - Documentation for Tender, Contracts and etc
	11000			Company Management
		11010		SAP General
		11015		SAP BASIS
		11020		SAP HR
			11021	SAP HR (Payroll)
		11030		SAP – FI (Financial)
			11031	SAP – FI (General Ledger)
			11032	SAP – FI (Accounts Receivable)
			11033	SAP – FI (Accounts Payable)
			11034	SAP – FI (Fixed Assets)
			11035	SAP – FI (Treasure)
		11040		SAP – CO (Controlling)
		11050		SAP – SD (Sales Distribution)
		11060		SAP – MM (General)
			11061	SAP – MM (Inventory)
			11062	SAP – MM (Purchasing)
		11070		SAP – PM (Plant Maintenance)
		11080		SAP – PM (Operations)
		11090		SAP – Interface
			11095	SAP – Reports
		11100		Company General
		11110		Company Organization Structure
		11120		Company Staff, description of tasks, notice of absence
		11130		Interface Management (old documents)
		11140		Time Scheduling
			11141	SDS / PMS Establishing
			11142	Monthly Updates
			11143	Company Review, Review MoM
			11144	Process Control Division MoM
		11150		E-MAS Procedures and Manuals
			11151	Office Instructions

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System	Sub-System	Sub-Sub-Syst.	Further Levels	Description
			11152	Reserved
			11153	Office Hardware and Software
			11154	Management Procedure
		11160		Office Procedure
			11161	Engineering Change Notice
		11170		Office and Site Equipment / Installation
			11171	Product Delivery of Technical Manuals
		11180		Hummingbird
			11185	SIPORT
		11190		MICROBUS
			11191	Staff Roster
		11200		Supplier
			11210	Supplier - DE-Consult
			11215	Supplier - VT4 FA
			11230	Offer
			11231	General Agreement
			11232	EPC Negotiation
		11240		Consortium Agreement / MoU's (external SYZ)
		11250		Consortium Agreement / MoU's (internal SAG, SEE)
		11290		Legal Matters
		11300		Info vision Documents
			11301	Case Management – Shook Lin & Bok
		11400		Quality Management
			11401	Operating License
			11403	Site Safety
			11410	Quality Manual / Quality Plan
			11411	Calibration
			11412	Standards: ISO 14001:2015
			11413	Standards: ISO 9001:2015
			11420	Standards
			11421	Standards: Integrated Management System [IMS]
			11422	Standards: ISO 4001:2004
			11423	Standards: QMR/Auditors
			11424	Standards: Environmental Aspects and Environmental Impact [EAEI]
			11425	Standards: Audit [Internal and External Audits]
			11426	Quality and Environmental Documentation
			11427	NCR LOG (For MRQ Use Only)
			11430	Configuration Management
			11440	System Assurance / Safety
			11450	Safety Documents

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System	Sub-System	Sub-Sub-Syst.	Further Levels	Description
			11451	Safety Management Plan
			11452	Emergency Response Plan
			11453	Preliminary Assessment of System Access Gate Locations
			11454	Assessment of Proposed Access Gate Locations
			11455	Fencing Standards Risk Assessment
			11456	Errant Vehicle Impact
			11460	ISO 9001:2000 (Not In Used)
			11465	Standards: ISO 9001:2008
			11470	Employee Suggestion Form / E-MAS Improvement Program
			11480	Complaint
		11500		Public Relations Work
		11600		Supporting Studies
		11650		Approval / Review Procedures / Approval / Review Documents
		11700		Human Resource Documentation (General)
			11710	Budget, Business Plan / HRD Capital Expenditure
			11715	Traveling, Business Trips / Company Car
			11720	Manpower Planning, Recruitment & Selection
			11730	Employment & Exit
			11740	Medical & Insurance
			11745	Claims Management
			11750	Personnel Management
			11751	Compensation & Benefit Package
			11752	Sexual Harassment
			11755	Performance & Evaluation
			11760	Salary Management
			11770	SAP HR / HRM System
			11780	Employee / Industrial Relations
			11785	Employee Welfare
			11790	Government Agencies
		11800		Stations / Building Works Architects
		11840		Station Building Works - Civil & Structure Consultants
		11880		Track Work Consultant
		11881		Consulting / Employment Services
		11890		Automatic Fare Collection Consultants
		11900		Design Management
		11901		Newsletter
			11950	Testing Procedures – FAT
			11951	Testing Procedures – FAT - SCE

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System	Sub-System	Sub-Sub-Syst.	Further Levels	Description
			11953	Testing Procedures – FAT - OCL
			11954	Testing Procedures – FAT - TPS
			11955	Testing Procedures – FAT - INT
			11956	Testing Procedures – FAT - TLE
			11957	Testing Procedures – FAT - EME
			11958	Testing Procedures – FAT - DWE
			11959	Testing Procedures – FAT - RSE
			11960	Testing Procedures - Commissioning
			11961	Testing Procedures – Commissioning - SCE
			11963	Testing Procedures – Commissioning - OCL
			11964	Testing Procedures – Commissioning - TPS
			11965	Testing Procedures – Commissioning - INT
			11966	Testing Procedures – Commissioning - TLE
			11967	Testing Procedures – Commissioning - EME
			11968	Testing Procedures – Commissioning - DWE
			11969	Testing Procedures – Commissioning - RSE
			11970	Testing Reports – FAT
			11971	Testing Reports – FAT - SCE
			11973	Testing Reports – FAT - OCL
			11974	Testing Reports – FAT - TPS
			11975	Testing Reports – FAT - INT
			11976	Testing Reports – FAT - TLE
			11977	Testing Reports – FAT - EME
			11978	Testing Reports – FAT - DWE
			11979	Testing Reports – FAT - RSE
			11980	Testing Reports – Commissioning
			11981	Testing Reports – Commissioning - SCE
			11983	Testing Reports – Commissioning - OCL
			11984	Testing Reports – Commissioning - TPS
			11985	Testing Reports – Commissioning - INT
			11986	Testing Reports – Commissioning - TLE
			11987	Testing Reports – Commissioning - EME
			11988	Testing Reports – Commissioning - DWE
			11989	Testing Reports – Commissioning - RSE
			11990	Testing Procedures – Test on Completion
			11991	Testing Procedures – Integration Test Without RSE
			11992	Testing Procedures – Integration Test With RSE
			11993	Testing Procedures – Performance Test
			11995	Testing Reports – Integration Test Without RSE
			11996	Testing Reports – Integration Test With RSE
			11997	Testing Reports – Performance Test

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System	Sub-System	Sub-Sub-Syst.	Further Levels	Description
	12000			Engineering Activities
			12030	Defect Liability
			12040	Reliability Data Request
			12050	Maintainability
			12060	Endemic Failures
			12070	Availability of Engineering Activities
		12100		Correspondence
		12200		KLS Terminal
		12250		Section between KLS Terminal and BTS Station
		12300		BTS (Bandar Tasik Selatan) Station
			12320	KLIEX Development
			12330	Double Cross Over
			12340	KL City Heliport
		12350		Section between BTS and Putrajaya Station
		12400		Putrajaya Station
		12450		Section between Putrajaya Station and Depot / Workshop
		12500		DWE - Depot / Workshop
		12550		Section between Depot / Workshop and Salak Tinggi Station
		12600		Salak Tinggi Station
		12650		Section between Salak Tinggi Station and KLIA
		12700		KLIA
		12710		Platform Screen Doors
		12750		Air/Rail Intermodality of Engineering Activities
		12800		Permanent Way
		12805		Alignment of Engineering Activities
		12810		Topography / Survey
		12850		Overall Cable Planning
		12860		Overall Master Key System
		12900		System Engineering Documents for Sub-Systems
		12905		Operations Concept
		12910		Maintenance Concept
		12920		Civil Works
		12921		Civil Works- Earthworks MPP Crossing
		12922		Civil Works- Structures and Bridges
		12925		Building Structures and Station Layout
		12927		Trackwork
		12930		Overhead Contact Line OCL
		12940		Traction Power Supply
		12949		Earthing & Bonding of Engineering Activities
		12950		Signalling

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			12951	Operation Control System
		12957		Operations Control and PIDS
		12958		SCADA – Engineering Activities
		12960		Telecommunication of Engineering Activities
		12970		E&M Equipment
		12974		Escalators / Lifts of Engineering Activities
		12976		Reserved
		12977		Air/Rail Intermodality (Baggage Handling, CICO)
		12980		Depot / Workshop Equipment
		12990		Rolling Stock
	13000			Commercial Project Management
		13100		Calculation
		13200		General Data / Audits Z-Rundschreiben
		13201		Auditors - KPMG
		13300		Insurance
			13310	Hermes / Accounts
			13311	Account Documentation
		13400		Guarantees / Bonds / Placement Funds
		13500		Materials / Logistic / Transport
			13510	Shipment / Transportation
			13530	Customs Clearance / Appeal
			13531	Tax Services (KPMG)
			13532	Tax License
			13533	Immigration
			13540	Tariffs / Duties / Taxes
			13550	Material
			13560	Orders
		13600		Cost Administration
			13601	Terms of Payment
			13610	AKO / Costs of Administration
			13620	Industrial Training
		13700		Invoices (milestones, certificates, utilization, etc)
			13760	Payment Schedules
			13770	Payment Control
		13800		Reporting / Economic Information / EBIT / RISK
			13820	Balance Clarification
			13840	Price Indices / Price Formulae
		13900		Others – eg. Advertising Cost (Recruitment)
			13910	Receiver of Revenue
			13920	Bank Accounts
			13921	Loans E-MAS

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			13930	Bonus Incentive
	14000			Contract & Variation Management (Claims)
			14001	Renewal of Contracts
		14100		Procedures & Forms
		14200		Technical Changes (TAEM, KAEM)
		14300		Changes to Time Schedule
		14400		Additional Services of Contract & Variation Management / Claims
		14500		Contract Management / Retained Functions
		14600		O&M Contract Interpretation
			14601	AOI – Administration Overhead Items – Clause 5.6
	15000			Operation and Maintenance
		15010		Training Concept / Letter of Intent
		15011		Operation Examination Protocol for OCC
		15012		Operation Examination Protocol for Train Drivers
		15013		Operation Examination Protocol for Station Supervisor
		15100		Information Technology
		15110		Operation Manual
			15111	Operation Procedure Manual for OCC
			15112	Operation Procedure Manual for Stations
			15113	Operation Procedure Manual for Train Drivers
			15114	Operation Procedure Manual for Communications
		15120		Maintenance Manual
		15130		Plant Description
		15140		As Built Drawings
		15150		Notice
		15400		Safety & Security
		15410		Security Access
		15420		Preliminary Investigation
		15500		Spares
		15510		Tools
		15600		Normal Operations
			15610	Degraded Operations
			15620	Emergency Operations
			15630	Safety Operations
			15631	PICOP
			15640	Trial Run Concept
			15650	Safety Certification
		15700		ARUP Documentation of Normal Operations
			15880	Incidents, Accidents and Dangerous Events
			15881	Working Procedure

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System	Sub-System	Sub-Sub-Syst.	Further Levels	Description
		15900		Additional Services of Operation and Maintenance
			15910	YTL Additional Services
	16000			Correspondence / reports
			16101	EPU / MOT Correspondence
			16102	Environmental Impact Assessment
			16110	Correspondence from / to ERLSB
		16200		Consortium Meetings / Reports / Correspondence
			16201	Board Meetings
			16202	Meetings in Germany
			16203	General/ Other Meetings in Kuala Lumpur, external - ERLSB /E-MAS /SYZ
			16204	MoM of Technical Committee
			16205	MoM of 16101-EPU / MOT
			16206	MoM of Commercial Committee
			16207	MoM with Subcontractor
			16208	MoM with Supplier
			16209	MoM Internal Meeting
			16250	Project Status Reports
			16260	TS Internal Monthly Report
			16270	Monthly Report – ERLSB – SYZ etc
			16300	Supervisory Board Meetings
			16 00	E-MAS Website
	17000			Company Financing
		17100		Technology Transfer
		17200		Reserved
	18000			Site Company Management (Right of Way, Squatters, etc.)
		18100		Site Civil Works
			18110	Site Land Acquisition
			18120	Site Progress Report
			18130	Site / Construction Office
		18200		Site Survey Plans
			18250	Safety and Health
		18300		Bridges and Viaducts
		18400		Earthworks and Drainage
		18500		Buildings and Stations Work
		18600		Utility Diversion and Protection
	19000			Interface Management
		19100		Reserved for THT / YTL
		19200		Interfaces / from Civil Works
			19250	Interfaces / from Government Agencies

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			19270	Interfaces / from Track Works
		19300		Interfaces / from Overhead Contact Line
		19400		Interfaces / from Traction Power Supply
			19450	Interfaces / from Earthing & Lightning Protection
		19500		Interfaces / from Signalling
			19570	Interfaces / from Operation Control System
			19580	Interfaces / from SCADA
		19600		Interfaces / from Telecommunication
		19700		Interfaces / from E/M-Equipment SPYTL
			19750	Interfaces / from E/M-Equipment Siemens
			19760	Interfaces / from Automatic Fare Collection
			19770	Interfaces / from Air Rail Intermodality (BHS)
			19780	Interfaces / from Platform Screen Doors
		19800		Interfaces / from Workshop Equipment/Depot
		19900		Interfaces / from Rolling Stock
20000				CTW - Civil and Track Works
		20100		CTW - Route alignment
			20110	CTW - Vertical Long Section
			20120	CTW - Miscellaneous Alignment
		20200		CTW - Site Plans -General Layout
			20210	CTW - Planning Miscellaneous
		20300		CTW - Earthwork & Earthwork for Drainage
		20400		CTW - Earthwork Cross Section
			20410	CTW - Culverts Cross Section
		20500		CTW - Ground Treatment General Arrangement
	21000			CTW - Substructures for Trackbed
		21100		CTW - Foundation Layer Treatment
			21105	CTW - Cut and Fill Profiles
			21110	CTW - Subsoil Drains
			21115	CTW - Replacement for Soft Ground Treatment
			21120	CTW - Piled Embankment
			21125	CTW - Stone Column Improvement Works
			21130	CTW - Instrumentation
			2135	CTW - Contiguous Bored Pile Walls
			21140	CTW - Foundations for Culverts and Retaining Walls
			21145	CTW - Reinforced Earth Walls
		21200		CTW - Embankments
		21300		CTW - Cuttings
		21400		CTW - Protection Layer for Trackbed
		21500		CTW – Drainage of Substructures for Trackbed
	22000			CTW - Tunnels (not used)

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System	Sub-System	Sub-Sub-Syst.	Further Levels	Description
	23000			CTW - Viaducts & Bridges
		23100		CTW - Viaducts
		23200		CTW - Bridges
			23205	CTW - Preliminary Works
			23210	CTW - Piles
			23215	CTW - Excavation
			23220	CTW – Foundation of Bridges (Viaducts & Bridged)
			23230	CTW - Construction of Abutments, Wings, Columns, Crossheads
			23260	CTW - Place Pre-Cast Beams
			23270	CTW - Earthing of Bridges (Viaducts & Bridged)
			23280	CTW - RFC Slabs
			23290	CTW - Parapets & Fittings
			23295	CTW - Backfilling
		23400		CTW - Pedestrian Bridges
	24000			CTW - Passenger Station and Control Center
		24100		CTW - Earthworks
		24200		CTW - Architectural & Structural – All Stations
			24210	CTW - Foundations
			24211	CTW - Structural Works
			24212	CTW - Architectural Works (All Stations)
			24214	CTW - Public Area
			24220	CTW - Earthing Of Civil Structure
			24230	CTW - Structure Opening
			24240	CTW - Platforms
			24250	CTW - Cable Trenches and Riser Shafts
			24260	CTW - Roofing
			24270	CTW - Auxiliary Works (Anchoring...)
			24280	CTW – Drainage of Civil Structures
		24300		CTW - Interiors
			24310	CTW - Sanitary Installation (incl. Pipes)
			24320	CTW - Floors / Ceiling
			24330	CTW - Paintings / Plastering
			24340	CTW - Doors / Windows
			24350	CTW - Signs and Panels
			24360	CTW - Furnishing / Equipment
			24370	CTW - Vacuum Waste Discharge
			24380	CTW - Auxiliary Works od Interior-Passenger Station & Control Centre
	25000			CTW - Buildings Infrastructure
		25100		CTW - Supplies from Public Network

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			25110	CTW - Power of Supplies from Public Network (Buildings Infrastructure)
			25120	CTW - Telecommunications of Supplies from Public Network (Buildings Infrastructure)
			25130	CTW - Water of Supplies from Public Network (Buildings Infrastructure)
			25150	CTW - Gas of Supplies from Public Network (Buildings Infrastructure)
			25160	CTW - Sewerage
			25170	CTW - Fire Alarms
		25200		CTW - Exteriors
			25210	CTW - Access Roads of Exteriors (Buildings Infrastructure)
			25211	CTW - Structural Works – Workshop Building
			25212	CTW - Structural Works – External Building
			25213	CTW - Architectural Works – Workshop Building
			25214	CTW - Technical Rooms – Workshop Building
			25215	CTW - Structural Works – Administration Building
			25216	CTW - Architectural Works – Administration Building
			25217	CTW - Technical Rooms – Administration Building
			25218	CTW - Control Rooms
			25220	CTW - Parking Facilities
			25230	CTW - Landscaping
			25240	CTW - Signs and Panels
			25250	CTW - Auxiliary Works of Exterior
			25260	CTW - Drainage of Exteriors (Building Infrastructure)
	26000			CTW - Cable Troughs, Ducts & Chambers
		26100		CTW - Cable Ducts
		26200		CTW - Cable Troughs and Chambers
		26300		CTW - Combined Services Pipe / Duct Routing
	27000			CTW - Superstructures for Track (Trackwork)
		27100		CTW - Ballast
		27200		CTW - Rails
			27210	CTW - Grinding
		27300		CTW - Sleepers
		27400		CTW - Turnouts & Crossovers
		27500		CTW - Welding
		27600		CTW - Buffer Stops
		27800		CTW - Stray Current Protection
		27900		CTW - Earthing of Superstructure for Track (Trackwork)
	28000			CTW - Special Civil Structures

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		28100		CTW - Retaining Walls
			28110	CTW - Retaining Walls : Details & Cross Section
		28200		CTW - Protection Barriers - Safety & Noise
		28300		CTW – Drainage of Special Civil Structures
			28310	CTW - Drainage : Details
		28400		CTW - Culverts
			28410	CTW - Culverts : Details
		28500		CTW - Miscellaneous
	29000			CTW - Auxiliary Civil Structures
		29100		CTW - Utilities Relocation
			29105	CTW - General Layout of all utilities
			29110	CTW - Power of Utilities Relocation (Auxiliary Civil Structures)
			29120	CTW - Telecommunications of Utilities Relocation
			29125	CTW - Rediffusion Diversion
			29126	CTW - Time Telekom Diversion
			29130	CTW - Water of Utilities Relocation
			29140	CTW - Drainage of Utilities Relocation
			29150	CTW - Gas of Utilities Relocation
			29160	CTW - Sewerage
		29200		CTW - Earthworks Footprint
		29250		CTW - Construction Footprint
		29300		CTW - Landscaping / Surface Restoration Along the Line
		29400		CTW - Roads Diversions
		29500		CTW - Carriageway Construction Details
		29600		CTW - Miscellaneous Highway Details
		29700		CTW - Fencing & Gate Details
30000				Overhead Contact Line (OCL)
	31000			OCL - Foundations
	32000			OCL - Poles
	33000			OCL - Supporting Structures
		33100		OCL - Tubes
		33200		OCL - Insulators
		33300		OCL - Fixation Equipment
		33400		OCL - Supplementary Equipment
	34000			OCL - Wires and Cables
	35000			OCL - Feeder Lines and Return Conductor
	36000			OCL - Switches and Accessories
	37000			OCL - Earthing and Bonding Of OCL
	38000			OCL - Spare Parts and Tools
		38100		OCL - Spare Parts (Parts & Tools)

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		38200		OCL – Tools of Spare Parts & Tools
	39000			OCL - Layout Drawings and Schematics
		39100		OCL - Plan for Overhead Contact Line
			39110	OCL - Catenary List
			39120	OCL - List for Return Conductor and Feeder
			39130	OCL - Sketch of Design for the top of the Pole
			39140	OCL - Overview Plan for OCL Sectioning
		39200		OCL - Schedule for Foundation
			39210	OCL - Schedule for Poles and Fittings
		39400		OCL - Drawing for Catenary Lowering
		39500		OCL - Special Drawing for Installation
		39600		OCL – Proofs
			39610	OCL - Proofs for Safety Distance
		39700		OCL - Cross Section Drawing
		39800		OCL - Report for Statistical Proof
		39900		OCL - Technical Support
			39910	OCL - Track Possession Request
40000				TPS - Traction Power Supply (Substation 132/25 kV)
	41000			TPS - High Voltage Switchgear 132 kV (8DN9)
		41100		TPS - Substation 132 25 kV
			41110	TPS - Incoming Feeder 132 kV
			41120	TPS - Metering Panel of 132 kV
			41130	TPS - Bus Sectionaliser
			41140	TPS - Transformer Feeder
			41150	TPS - 132 / 25 kV Cable of 132 kV HV Switchgear
		41200		TPS - Metering Panel of 132 kV
		41300		TPS - Bus Sectionaliser of High Voltage Switchgear 132 kV (8DN9)
		41400		TPS - Transformer Feeder
		41500		TPS - 132 kV Cable of HV Switchgear
	42000			TPS - 132/25 kV Power Transformer
	43000			TPS - Medium Voltage Switchgear 25 kV (8DA10)
		43100		TPS - Incoming Feeder 25 kV
		43200		TPS - Bus Sectionaliser of Medium Voltage Switchgear 25 kV (8DA10)
		43300		TPS - Outgoing Cable Feeder
		43400		TPS - Auxiliary Transformer Feeder
		43600		TPS - 25 kV Cables and Switchgear Termination
		43800		TPS - 25 kV Cables and Cable Sealing End to the OCL
	44000			TPS - Auxiliary Power Supply
		44100		TPS - Auxiliary Transformer 25 kV / 240 V

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System	Sub-System	Sub-Sub-Syst.	Further Levels	Description
		44200		TPS - AC Distribution of Auxiliary Power Supply
		44300		TPS - Battery & Charger
		44400		TPS - DC Distribution
	45000			TPS - Protection Equipment
		45100		TPS - Protection at 132 kV Side
		45200		TPS - Protection for Power Transformer
		45300		TPS - Protection for 25 kV Switchgear (integrated in 8DA10)
		45500		TPS - Protection for OCL
	46000			TPS - Control Equipment
		46100		TPS - Local Control Panel (integrated in 8DA10 and 8DN9)
		46200		TPS - SCADA Interface
	47000			TPS - Additional Equipment of Traction Power Supply (Substation 132/25 kV)
		47100		TPS - Control Cables
		47200		TPS - Low Voltage AC/DC Cables
		47300		TPS - Erection Equipment & Material
		47400		TPS - Telephone Interface
	48000			TPS - E&M Building Services
		48100		TPS - Air Conditioning (Control Room) of E&M Building Services
		48200		TPS - Grounding System
		48300		TPS - Fire Protection Interface
		48400		TPS - Workshop Equipment in Substation
	49000			TPS - Earthing & Bonding of Traction Power Supply (Substation 132/25 kV)
50000				INT - Signaling
		50600		INT - General Documentation
			50610	INT - General Descriptions
			50660	INT - Training Program
	51000			INT - Indoor Interlocking Equipment
			51011	INT - Signal Scheme
		51100		INT - General Arrangements
		51200		INT - Functional Specification Locking Tables
		51300		INT - Outdoor Equipment
		51400		INT - Mechanical Assembly
			51401	INT - Frame and Cabinet Construction
			51404	INT - Signalling Room Design Layout
		51500		INT - Train Detection Indoor
	52000			INT - Outdoor Interlocking Equipment

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			52011	INT - Cable Ways Along Track
			52050	INT - Points
		52100		INT - Signals
			52120	INT - Mounting Bracket
		52200		INT - Point Machine
			52220	INT - Point Lock and Fittings for Hollow Sleepers CKA12-1
		52300		INT - Axle Counter of Outdoor Interlocking Equipment
		52400		INT - Cables
			52410	INT - Cables, General
		52500		INT - Level Crossing
		52600		INT - Route Indicator
		52700		INT - Shunt Signal
		52800		INT – Cabinets of Outdoor Interlocking Equipment
	53000			INT - Traffic Management System (TMS)
			53010	INT - Preparation and Design
			53011	INT - LCP, Preparation and Design
			53012	INT - CTC, Preparation and Design
			53023	INT - CTC, Engineering (Automatic Function)
			53024	INT - CTC, Engineering, Target System
			53026	INT - CTC, Engineering Cable Plans OCC, Equipment Location
		53100		INT - Local Control-Traffic Management System
		53200		INT - CTC
		53300		INT - Software Licenses
		53400		INT - OCC
			53410	INT - OCC Room Layout
		53500		INT - TMS – PIDS Interface
		53600		INT - TMS – Software Licenses
	54000			INT - Automatic Train Protection (ATP)
			54002	INT - Cable Plans
			54003	INT - Cable Distribution Plans
		54100		INT - Indoor
		54200		INT - Outdoor
		54300		INT - Trainborne
	55000			INT - Passenger Information Display System (PIDS)
			55010	INT - Preparation and Engineering
		55100		INT - Station Equipment Indoor
		55200		INT - Station Equipment Outdoor
		55300		INT - OCC Equipment
		55400		INT - TMS Interface
	57000			INT - Sitas

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		57100		INT - TMS – Uninterrupted Power Supply (UPS)
	58000			INT - SCADA
		58100		INT - Software VICOS
		58200		INT - VICOS Hardware
			58210	INT - VICOS P500 Control & Operating System
			58220	INT - RTU
			58230	INT - Spare Parts of VICOS Hardware(SCADA)
60000				TLE - Telecommunications
	61000			TLE - Transmission System
		61100		TLE - Software & Documentation of Transmission System
			61150	TLE - Transmission Layout Diagram
		61200		TLE - Cabinets & Accessories
			61211	TLE - Cabinets (2 Nodes)
		61300		TLE - Racks & Basic Boards
		61400		TLE - Interface Boards
		61500		TLE - Interface Cables & Accessories
		61600		TLE - Interphase NMS (Network Management System)
		61700		TLE - Installation Material of Transmission System
		61800		TLE - Special Test Equipment & Special Tools
		61900		TLE - Spare Parts of Transmission System
	62000			TLE - Cable System
		62100		TLE – Cable System Documentation
			62150	TLE - Fiber Optic Distribution Diagram
		62200		TLE - Fiber Optic Cables & Accessories
		62300		TLE - LCX / Cables & Accessories
		62400		TLE - Telephone Cables & Accessories
		62500		TLE - Control Cables & Accessories
		62600		TLE - Copper Cables (Control & Power)
		62700		TLE - Installation Material of Cable System
			63710	TLE – Telecom System - Installation
		62800		TLE - Special Test Equipment & Special Tools
		62900		TLE - Spare Parts of Cable System
	63000			TLE - Telephone System
		63100		TLE - Software & Documentation of Telephone System
			63150	TLE - Telephone System Diagram
		63200		TLE - Telephone Exchange Cabinets & Accessories
			63231	TLE - HICOM 350E Redundant Main Processor
		63300		TLE - Telephone System PC & Consoles
		63400		TLE - Telephone Subscriber Units
		63500		TLE - Telephone Cordless Phone & Local Loop
		63600		TLE - NMS Interface of Telephone System

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System	Sub-System	Sub-Sub-Syst.	Further Levels	Description
		63700		TLE - Installation Material of Telephone System
			63710	TLE - Telecom System - Installation
		63800		TLE - Special Test Equipment & Special Tools
		63900		TLE - Spare Parts of Telephone System
	64000			TLE - Radio System
		64100		TLE - Software & Documentation of Radio System
			64125	TLE - Radio System Documentation
			64150	TLE - Layout Diagram
		64200		TLE - Radio Central System Cabinets & Accessories
		64300		TLE - Radio Base Station Cabinets & Accessories
			64311	TLE - Radio Base Station Cabinets
		64400		TLE - Racks / Boards & Consoles
		64500		TLE - Mobile Radios
			64517	TLE - Operator Console
			64519	TLE - Train Cab Loudspeaker
			64543	TLE - Train Cab Handset
		64600		TLE - NMS Interface of Radio System
		64700		TLE - Installation, Cable & Antenna Material
			64741	TLE - Radio Mast / Monopole / Manhole / Underground Cables
			64742	TLE - 45 M Monopole – Base & Platform
			64750	TLE - 30 M Monopole – Base & Platform
			64751	TLE - 45 M Monopole – Base & Platform
		64800		TLE - Special Test Equipment & Special Tools
		64900		TLE - Spare Parts of Radio System
	65000			TLE - Closed Circuit TV System
		65100		TLE - Software & Documentation of Closed Circuit TV System
			65130	TLE - CCTV System
			65150	TLE - CCTV Layout
		65200		TLE - Cabinets, Racks & Accessories
		65300		TLE - PC - Control Units & Consoles
		65400		TLE - Onboard TV Train Equipment & Transmission
		65500		TLE - Cameras & Accessories
		65600		TLE - NMS Interface of Closed Circuit TV System
		65700		TLE - Installation Material of Closed Circuit TV System
		65800		TLE - Special Test Equipment & Special Tools
		65900		TLE - Spare Parts of Closed Circuit TV System
	66000			TLE - Public Address System
		66100		TLE - Software & Documentation of Public Address System

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System	Sub-System	Sub-Sub-Syst.	Further Levels	Description
			66150	TLE - Public Address System Documentation
		66200		TLE - Cabinets, Racks & Accessories of Public Address System
		66300		TLE - Consoles & Call Stations
		66400		TLE - 7kHz Multiplexers
		66500		TLE - Loudspeakers & Noise Sensors
		66600		TLE - NMS Interface of Public Address System
		66700		TLE - Installation Material of Public Address System
		66800		TLE - Special Test Equipment & Special Tools
		66900		TLE - Spare Parts of Public Address System
	67000			TLE - Centralized Clock System
		67100		TLE - Software & Documentation
			67150	TLE - Centralised Clock System Documentation
		67200		TLE - Central Master Clock System Panel
		67300		TLE - Sub-Master Clock System Panel
			67311	TLE - GPS
			67313	TLE - Interface Board of Sub-Master Clock System Panel (Centralised Clock System)
			67314	TLE - Clock Interface Time Distribution Board
		67400		TLE - Time Signal Receiver
			67411	TLE - Line Amplifier, Fron & Side View
			67412	TLE - Lighting Protection Device
			67413	TLE - Antenna of Time Signal Receiver
		67500		TLE - Clocks
		67600		TLE - Control Data Interface
		67700		TLE - Installation Material of Centralized Clock System
			67720	TLE - Installation Material
		67800		TLE - Special Test Equipment & Special Tools
		67900		TLE - Spare Parts of Centralized Clock System
	68000			TLE - Auxiliary System of Telecommunication
		68100		TLE - Software & Documentation of Auxiliary System
			68150	TLE - Auxiliary System Documentation
		68200		TLE - UPS Cabinets
		68300		TLE - Battery Cabinets
		68400		TLE - Power Distribution Panel
		68600		TLE - NMS System of Auxiliary System
		68700		TLE - Installation Material of Auxiliary System
		68800		TLE - Special Test Equipment & Special Tools
	69000			TLE - IP Transmission \ IP Backbone
70000				EME - Electromechanical Equipment
	71000			EME - AC & Ventilation Equipment

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		71100		EME - AC / Ventilation Units
		71200		EME - Control System for AC & Ventilation
		71300		EME - Refrigeration Plants
			71350	EME - Cooling Water Pipes
		71400		EME - Air Ducts / Networks of AC & Ventilation Equipment (Electromechanical Equipment)
		71500		EME - Track Ventilation
		71600		EME - Smoke Exhaust Systems
		71900		EME - Special Tools and Test Equipment
	72000			EME - Fire Protection System
		72100		EME - Fire Alarm Equipment
		72200		EME - CO ₂ - Flooding System
		72300		EME - Portable Fire Extinguishers
		72500		EME - Fire Hose Reels
			72510	EME - Pipes and Installation Material
		72600		EME - Sprinkler System
			72650	EME - Sprinkler Pump - and Control system
		72900		EME - Special Tools and Test Equipment
	73000			EME - Electrical Services Equipment
		73100		EME - Cable Trench & Equipment Layout
		73200		EME - Power Distribution for MV & LV / Distribution Board
		73300		EME - LV- Installation Equipment
			73310	EME - Cable Routing
			73320	EME - External Cable Routing
			73340	EME - Section Power Layout
		73400		EME - Lighting Equipment / Socket / Small Power Layout
		73500		EME - Earthing, Bonding & Lightning Protection
			73550	EME - Electro Magnetic Compatibility - EMC
		73600		EME - Reserved
		73700		EME - Emergency Power Supply
		73800		EME - Emergency Lighting
		73900		EME - Special Tools and Test Equipment
	74000			EME - Escalators / Lifts Of Electromechanical Equipment
		74100		EME - Escalators
		74200		EME - Lifts
		74900		EME - Special Tools and Test Equipment
	75000			EME - Platform Screen Doors - Infrastructure
		75100		EME - Supports and Structures of Platform Screen Doors
			75110	EME - Threshold
			75120	EME - Header Structure

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			75130	EME - Support Posts and Structural Truss
		75200		EME - Doors and Panels
		75300		EME - Door Control
		75900		EME - Special Tools and Test Equipment
	76000			EME - Automatic Fare Collection Of Electromechanical Equipment
		76100		EME - Ticket Vending Machines
		76200		EME - Ticket Counter
		76300		EME - Turnstiles
		76400		EME - Magnetic Coded Ticket
		76500		EME - FCE Equipment in the Control Centre
		76900		EME - Special Tools and Test Equipment
	77000			EME - Baggage Handling System
		77100		EME - Baggage Containers
		77200		EME - Counters
		77300		EME - Baggage Lifts
		77400		EME - Electrical Control Equipment
		77500		EME - Conveyors
		77600		EME - Tractors & Dollies
		77700		EME - Check-in Computer Equipment incl. Software
		77800		EME - Baggage Reconciliation Equipment
		77900		EME - Special Tools and Test Equipment
	78000			EME - Flight Information Display System
	79000			EME - Building Monitoring System(BMS)
80000				DWE - Workshop Equipment
	81000			DWE - Lifting Equipment
		81100		DWE - Cranes
			81110	DWE - Girder
			81111	DWE - Crane A, 10 t
			81112	DWE - Crane B, 2 + 2 t
			81113	DWE - Crane C, 2 t
			81114	DWE - Crane D, 1 t
			81115	DWE - Crane E, 2 t
			81116	DWE - Crane F, 1 t
			81120	DWE - Jib
			81121	DWE - Jib Crane 2000 kg
			81122	DWE - Jib Crane 1000 kg
			81123	DWE - Jib Crane 1000 kg
			81130	DWE - Gantry
		81200		DWE - Jacks
			81210	DWE - Mobile Lifting Jacks

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System	Sub-System	Sub-Sub-Syst.	Further Levels	Description
			81211	DWE - Lifting Jack 12, 5 t
			81212	DWE - Lifting Jack, 20 t
		81300		DWE - Hoists
			81310	DWE - Underfloor Lifting Line
			81320	DWE - Bogie Hoist
		81400		DWE - Stands
		81500		DWE - Lifting Appliance
		81600		DWE - Special Lifting
		81610		DWE - Lifting Table
	82000			DWE - Cleaning, Surface, Treatment
		82100		DWE - Cleaning
			82111	DWE - Train Washing Plant
			82112	DWE - Cleaning Machine – Small Parts
			82115	DWE - Ultrasonic Bath
			82124	DWE - Cleaner For Internal Train
			82125	DWE - Britannia Train Wash Machine
			82126	DWE - Industrial Effluent Treatment System
			82127	DWE - Sewage Treatment Plant
		82200		DWE - Surface
			82211	DWE - Spraying Cabin
			82221	DWE - Sand Blasting Equipment
		82300		DWE - Heat
	83000			DWE - Measuring and Testing
		83100		DWE - Geometry
			83120	DWE - Balancing Machine
		83200		DWE - Electric
			83281	DWE - Battery Charger Fixed Installed
		83300		DWE - Material
			83310	DWE - Magnetic Flow Detector for Axles and Wheel Sets
			83320	DWE - Ultrasonic Wheelset Testing Station
		83400		DWE - Special
			83416	DWE - Air Conditioning
			83417	DWE – Electronic Pinch Force meter
		83500		DWE - Test Stand
			83510	DWE - Motor Test
			83520	DWE - Bogie Loading and Measuring
			83530	DWE - Test Stand Brake
			83540	DWE - Air Compressor of Test Stand
			83550	DWE - Gear Box Vibration Test Bench
	84000			DWE - Transport and Handling
		84100		DWE - Road Vehicle

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System	Sub-System	Sub-Sub-Syst.	Further Levels	Description
			84111	DWE - Service Car, Mini Bus
			84112	DWE - Service Trailer; Electrical Installation, on road
			84113	DWE - Exhausting Vehicle for Toilets
			84120	DWE - Track Vehicle
			84121	DWE - Shunting Locomotive, Diesel – Electro
			84122	DWE - Trailer with Telescopic Train, on rail
			84123	DWE - Service Trailer; Fixed Mechanical Installation, on rail
			84124	DWE - Service Trailer; Fixed Electrical Installation, on rail
			84130	DWE - Rail / Road Vehicle
			84131	DWE - Rail / Road Shunting Vehicle
		84200		DWE - Transport
			84211	DWE - Platform Truck with Trailer
			84212	DWE - Material Handling Vehicle
			84213	DWE - Reach Truck Type Toyota 6FBRE12
			42840	DWE - Bodyworks – For Re-Railing Equipment
			84242	DWE - Bodyworks – For Rescue Equipment
		84300		DWE - Container
		84400		DWE - Maintenance Vehicle
	85000			DWE - Machinery and Tools
		85100		DWE - Machines
			85111	DWE - Under floor Wheel Lathe
			85113	DWE - Column Drilling, Metal Type AX 3/sv-6
			85116	DWE - Grinding Machine Pedestal Type DC 15/300
			85117	DWE - Rail Grinder For Rail Welding Type MTX 350S
			85161	DWE - Hydraulic Wheel Press
			85163	DWE - Sewing Machine Type 1245
			85168	DWE - Hydraulic Press, Hand operated
		85200		DWE - Tools (Machinery & Tools)
			85242	DWE - Hydraulic Bearing Removal Equipment
			85260	DWE - Welding Tools
	86000			DWE - Material Supply and Disposal
		86100		DWE - Solid
		86200		DWE - Liquid
			86210	DWE - Oil & Grease Device
			86223	DWE - Mobile Filling, Draining & Flushing Unit
			86231	DWE - Diesel Filling Station
			86241	DWE - Mobile Filling, Draining, Flushing Unit
		86300		DWE - Gaseous
			86310	DWE - Compressed Air System
			86311	DWE - Compressed Air Main Workshop

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			86312	DWE - Small Compressors
			86313	DWE - Compressed Air Spray Cabin
			86314	DWE - Compressed Air Test Equipment Brake
			86315	DWE - Compressed Air Train Washing Plant
	87000			DWE - Stores, Installation and Furniture
		87100		DWE - Store Handling
		87200		DWE - Storage System
			87210	DWE - Pallet Rack
			87220	DWE - Two-tier Shelving System
			87230	DWE - Bogie Storage
			87240	DWE - Tool Storage
			87250	DWE - Storage System Auxiliary Workshop
		87300		DWE - Access Facility of Store, Installation and Furniture
			87310	DWE - Roof Work Platform, Type A
			87320	DWE - Roof Work Platform, Type B
		87400		DWE - Furniture
			87481	DWE - Bogie Turn Table
		87500		DWE - Assembling / Disassembling Stand
	88000			DWE - Safety and Rescue Equipment
		88100		DWE - Safety
		88200		DWE - Rescue, Re-railing Equipment
			88210	DWE - Rescue, Re-railing Equipment
			88220	Skate
			89200	Oil Interceptor
90000				Rolling Stock – General
			90001	RSE - General instructions
				RSE - Train Layout Drawing – List Of Documents
				RSE - Description of Train Part List to Corresponding Manuals
				RSE - Transformer Monitoring
	91000			RSE - Mechanical Parts
			91001	RSE - General Instructions
			91002	RSE - Mechanical Assembly Material
			91003	RSE - Train Assembly
			91010	RSE - Body shell
			91011	RSE - Under frame of Mechanical Part
			91012	RSE - Side Wall
			91013	RSE - Roof
			91014	RSE - End Wall
			91015	RSE - Underframe Equipment Mounting
			91016	RSE - Painting and Exterior Labeling

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System	Sub-System	Sub-Sub-Syst.	Further Levels	Description
			91017	RSE - Roof Equipment Installation
			91020	RSE - Train Head & Driver's Cab
			91021	RSE - Train Head Structure (GFRP)
			91022	RSE - Spoilers
			91023	RSE - Driver's Cab Interior
			91024	RSE - Driver's Desk
			91025	RSE - Driver's Seat
			91026	RSE - Windscreen / Side Walls
			91027	RSE - Exterior Lighting & Destination Indicator
			91028	RSE - Driver's Cab Electrical Compartments
			91029	RSE - Emergency Equipment
			91030	RSE - Gangway
			91040	RSE - Automatic Coupler
			91041	RSE - Obstacle deflector
			91050	RSE - Doors
			91051	RSE - Driver's Cab Door
			91052	RSE - ERL Passenger Compartment Door
			91053	RSE - CRS Passenger Compartment Door
			91054	RSE - Baggage Compartment Door
			91055	RSE - Moveable Step
			91056	RSE - Other Door Equipment
			91057	RSE - Door Equipment Covers
			91058	RSE - Door Control incl. Software
			91060	RSE - Train Interiors
			91061	RSE - Insulation
			91062	RSE - Floor & Floor Structure
			91063	RSE - Draught Screens, Stanchions & Hand Rails
			91064	RSE - Baggage & Luggage Racks
			91065	RSE - Seat Boxes
			91066	RSE - Table & Litter Bins
			91067	RSE - Passenger Compartment Windows
			91068	RSE - Interior Painting and Labeling
			91069	RSE - Emergency Equipment
			91070	RSE - Seats
			91071	RSE - ERL Seats
			91072	RSE - ERL Flat-Up Seats
			91073	RSE - CRS Seats
			91080	RSE - Interior Wall Panels & Ceiling
			91081	RSE - ERL Wall Panels
			91082	RSE - CRS Wall Panels
			91083	RSE - Ceiling

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System	Sub-System	Sub-Sub-Syst.	Further Levels	Description
			91084	RSE - Lighting Passenger Compartment
			91090	RSE - Toilet
			91091	RSE - Toilet Compartment Door
			91092	RSE - Vacuum Toilet Equipment
			91093	RSE - Fresh Water / Waste Water System
			91100	RSE - Baggage Compartment of Mechanical Parts
			91101	RSE - Floor and Floor Structure
			91102	RSE - Cupboards
			91103	RSE - Baggage Compartment Ceiling
			91104	RSE - Lighting, Fixings, Smoke Detector Installation
			91105	RSE - Baggage Handling Equipment (YTL)
			91110	RSE - Air-conditioning & Ventilation of Mechanical Parts
			91111	RSE - Air-conditioning Unit Passenger Compartment
			91112	RSE - Air Ducts & Diffusers of Mechanical Parts
			91113	RSE - Air-conditioning System for Driver's Cab
			91120	RSE - Bogies & Suspension
			91121	RSE - Running Gear, complete
			91122	RSE - Bogie Frame
			91123	RSE - Suspension Systems
			91124	RSE - Drive System Installation
			91125	RSE - Bogie to Car Body Connection
			91126	RSE - Additional Bogie Mounted Equipment of Mechanical Parts
			91127	RSE - Bogie Piping and Wiring
			91130	RSE - Brake & Pneumatic System
			91131	RSE - Bogie Mounted Brake Equipment
			91132	RSE - Electro-pneumatic Brake Equipment
			91133	RSE - Brake Control Unit (BCU) incl. Software
			91134	RSE - Air Supply Unit of Mechanical Parts
			91135	RSE - Windscreen Washer & Wiper System
			91136	RSE - Signal Equipment (Horn)
			91137	RSE - Air Piping & Connections of Mechanical Parts
			91140	RSE - Car Body Assembly
			91141	RSE - Cable Ducts on Underframe
			91142	RSE - Cable Ducts in Train Interior
			91143	RSE - Wiring of Mechanical Parts (Rolling Stock)
			91144	RSE - Cooling Water Piping
	92000			RSE - Electrical Parts
			92001	RSE - General Instruction of Electrical Parts
			92002	RSE - Electrical Assembly Material
			92010	RSE - Pantograph

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System	Sub-System	Sub-Sub-Syst.	Further Levels	Description
			92011	RSE - Pantograph
			92012	RSE - Pantograph Pneumatic Equipment
			92020	RSE - Vacuum Circuit Breaker
			92030	RSE - I & U Transformer
			92031	RSE - Voltage Transformer
			92032	RSE - Line Current Transformer
			92033	RSE - Earth Current Transformer
			92040	RSE - Insulators, Bushings etc.
			92041	RSE - Surge Arrester
			92042	RSE - HV Bushing
			92043	RSE - Post Insulator
			92050	RSE - HV-Cabling
			92051	RSE - T-Plug Connection
			92052	RSE - HV-Coupling
			92060	RSE - Main Transformer
			92061	RSE - Transformer
			92062	RSE - Transformer Cooling Unit
			92070	RSE - Traction Converter
			92071	RSE - Traction Converter Container
			92072	RSE - Installation of Electrical Part
			92073	RSE - Traction Cooling Unit TCU (ASG)
			92080	RSE - Drive Unit
			92081	RSE - Traction Motor
			92082	RSE - Flexible Coupling
			92083	RSE - Gear Unit
			92084	RSE - Drive Unit Monitoring
			92090	RSE - Traction Cooling Unit Of Electrical Parts
			92091	RSE - Traction Cooling Container
			92092	RSE - Traction Cooling Unit Supports
			92093	RSE - Traction Cooling Pump System
			92100	RSE - Electrical Cabinets
			92101	RSE - Electrical Cabinets in Driver's Cab
			92102	RSE - Electrical Boxes Underfloor
			92103	RSE - Roof Cornice Plates
			92110	RSE - Auxiliary Converter
			92111	RSE - Auxiliary Converter
			92120	RSE - Battery of Electrical Part
			92121	RSE - Battery (Complete)
			92130	RSE - Traction Control System
			92131	RSE - Central Control Unit (ZSG)
			92132	RSE - Functional Descriptions

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System	Sub-System	Sub-Sub-Syst.	Further Levels	Description
			92133	RSE - Bogie Temperature Monitoring System
			92134	RSE - Control Box 110 V DC
			92135	RSE - Bogie Stability Monitoring System
			92140	RSE - Drivers Desk
			92141	RSE - Master Controller
			92142	RSE - Driver's Display
			92143	RSE - Speedometer
			92144	RSE - Switches and Control Indicators
			92150	RSE - Passenger Communications / PIDS
			92151	RSE - Passenger Announcement System
			92152	RSE - PCS Control Panel & Microphone
			92153	RSE - Passenger Emergency Unit
			92154	RSE - Train Destination Indicator
			92160	RSE - Software of Electrical Part
			92170	RSE - Lighting of Electrical Part
			92171	RSE - Train Interior Lighting
			92172	RSE - Driver's Cab Lighting
			92173	RSE - Exterior Lighting
			92180	RSE - Electrical Systems
			92181	RSE - Electrical Couplers
			92182	RSE - On-Board Train Radio System (by TLE)
			92183	RSE - On-Board Sitrail System (by TLE)
			92184	RSE - On-Board ATP System (by INT)

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Type of Document Codes

Main Key	Description	Sub Key	Description
A	Integrated Management System Document (EMS / Quality)	A	IMS Plan
A	Integrated Management System Document (EMS / Quality)	B	IMS Policy
A	Integrated Management System Document (EMS / Quality)	C	Auditing
A	Integrated Management System Document (EMS / Quality)	D	Report
A	Integrated Management System Document (EMS / Quality)	E	Certificate
A	Integrated Management System Document (EMS / Quality)	F	Procedures
A	Integrated Management System Document (EMS / Quality)	G	Form
A	Integrated Management System Document (EMS / Quality)	H	General
A	Integrated Management System Document (EMS / Quality)	I	Training
B	General Company Management	A	System Structure
B	General Company Management	B	Organization Charts
B	General Company Management	C	Human Resources Policies / Procedures
B	General Company Management	D	Configuration Trees
B	General Company Management	E	Staffing Plans
B	General Company Management	K	Documentation Plans
B	General Company Management	L	Document Lists / Distribution
B	General Company Management	M	Transmittal Sheets
B	General Company Management	N	Name List
B	General Company Management	T	Technical Procedures
C	General Descriptions	A	Company Procedure Manual
C	General Descriptions	B	Emergency Response Procedures
C	General Descriptions	C	Flowchart
C	General Descriptions	D	Commercial Administration Procedures
C	General Descriptions	E	Concept description
C	General Descriptions	F	Plant Description
C	General Descriptions	I	Internal Service Request
C	General Descriptions	M	Master File Creation Request
C	General Descriptions	P	Pictures

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C	General Descriptions	W	Sales promotion literature, technical
C	General Descriptions	X	Technical papers, publications
C	General Descriptions	Y	Material for presentations
C	General Descriptions	Z	Reference materials
D	General Technical Requirements	A	Coding system
D	General Technical Requirements	B	Loading specifications
D	General Technical Requirements	C	Component and equipment specifications
D	General Technical Requirements	D	Process specification
D	General Technical Requirements	E	Material specifications
D	General Technical Requirements	F	Change notices
D	General Technical Requirements	G	Circulars
D	General Technical Requirements	H	Transport specifications
D	General Technical Requirements	J	Program Specification
D	General Technical Requirements	K	Project Documentation
D	General Technical Requirements	L	Terms of supply and services
D	General Technical Requirements	M	Erection
D	General Technical Requirements	N	Commissioning
D	General Technical Requirements	P	Scope of Work
D	General Technical Requirements	Q	Forms
D	General Technical Requirements	S	Safety & Security
D	General Technical Requirements	T	Performance Standards
E	Commercial (Finance)	A	Master General Ledger
E	Commercial (Finance)	B	General Ledger
E	Commercial (Finance)	C	Credit
E	Commercial (Finance)	D	Debit
E	Commercial (Finance)	F	Accrual/Deferral
E	Commercial (Finance)	I	Invoices
E	Commercial (Finance)	J	Journal
E	Commercial (Finance)	M	Performa Invoice
E	Commercial (Finance)	P	Payment
E	Commercial (Finance)	R	Receipts
E	Commercial (Finance)	S	Statements/Accounting Documents
E	Commercial (Finance)	V	Voucher
E	Commercial (Finance)	W	Budget
E	Commercial (Finance)	X	Asset Class
E	Commercial (Finance)	Y	Asset
E	Commercial (Finance)	Z	Asset Retirement
F	Time Scheduling	A	MIP (Master Implementation Program)
F	Time Scheduling	B	Project Master Schedule (PMS)
F	Time Scheduling	C	Suppliers Detailed Schedules of SYZ-

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			Partners (SDS)
F	Time Scheduling	D	Payment Schedule
F	Time Scheduling	E	Reserved
F	Time Scheduling	G	Project
F	Time Scheduling	N	Training Schedule
G	Contract Documents	A	Employers Requirements
G	Contract Documents	B	General Conditions of the Contract
G	Contract Documents	C	EPC Contract
G	Contract Documents	D	Contract General Part
G	Contract Documents	E	Consultancy Agreement
G	Contract Documents	H	Variation Management
H	Norms and Standards	A	Mechanical
H	Norms and Standards	B	Electrical
H	Norms and Standards	C	Electronically
H	Norms and Standards	D	Civil
H	Norms and Standards	E	IT Systems Related
H	Norms and Standards	F	Reserved
I	Interface Management	A	Interface Matrix
I	Interface Management	B	List of Responsibilities
I	Interface Management	C	Interface Description Catalogue
I	Interface Management	D	Interface Control Sheets
I	Interface Management	E	Interface Agreements
I	Interface Management	P	Program/ Specification
I	Interface Management	S	SAP Achieve Object
J	Commercial (General)	A	Activities
J	Commercial (General)	B	Cost Allocations
J	Commercial (General)	C	Cost Centre
J	Commercial (General)	E	Audits
J	Commercial (General)	I	Reserved
J	Commercial (General)	M	Forms
J	Commercial (General)	O	Orders
J	Commercial (General)	P	Pricing
J	Commercial (General)	R	Reports
J	Commercial (General)	S	Statistics
K	Commercial (Order Process)	A	Customer
K	Commercial (Order Process)	B	Reports
K	Commercial (Order Process)	C	Confirmation/Agreements
K	Commercial (Order Process)	D	Notes

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K	Commercial (Order Process)	M	Materials
K	Commercial (Order Process)	P	Purchase Orders
K	Commercial (Order Process)	Q	Quotation from Vendor
K	Commercial (Order Process)	R	Purchase Requests
K	Commercial (Order Process)	S	Service / Products
K	Commercial (Order Process)	V	Vendor
K	Commercial (Order Process)	Y	Quotation to Customer
L	Commercial (Shipment)	A	Customer
L	Commercial (Shipment)	C	Custom Clearance
L	Commercial (Shipment)	D	Delivery Notes
L	Commercial (Shipment)	P	Performa Invoice
L	Commercial (Shipment)	T	Tax Exemption
M	Licensing Documents	A	Reserved
M	Licensing Documents	B	Civil works licensing procedure
M	Licensing Documents	C	Water licensing procedure
M	Licensing Documents	D	Energy licensing procedure
M	Licensing Documents	E	System / Software Licensing
N	Operation Documents	A	Operating Manuals
N	Operation Documents	B	Operator's Manuals
N	Operation Documents	C	Evacuation Manuals
N	Operation Documents	D	Process Guide
N	Operation Documents	E	Train Scheduling
N	Operation Documents	F	Software Manuals
N	Operation Documents	G	Emergency Manuals
N	Operation Documents	P	Safety Manuals
N	Operation Documents	Z	Combined O&M Manuals
O	Minutes of Meeting (MoM)	A	Meeting with Affiliate
O	Minutes of Meeting (MoM)	M	Monthly Meeting
O	Minutes of Meeting (MoM)	S	Meeting with Supplier
O	Minutes of Meeting (MoM)	W	Weekly Meeting
P	Maintenance Manuals	A	Spare parts lists
P	Maintenance Manuals	B	Parts lists
P	Maintenance Manuals	C	Car History Book
P	Maintenance Manuals	E	Equipment
P	Maintenance Manuals	F	Inspection Manuals
P	Maintenance Manuals	G	Maintenance Manuals
P	Maintenance Manuals	H	Running Repair Manuals
P	Maintenance Manuals	J	Heavy Repair Manuals

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P	Maintenance Manuals	L	Maintenance Locations
P	Maintenance Manuals	T	Maintenance Task List
P	Maintenance Manuals	W	Work Order
Q	Quality Management Documents	A	Quality Plan
Q	Quality Management Documents	B	Record Matrix
Q	Quality Management Documents	C	Auditing
Q	Quality Management Documents	D	Quality Reports
Q	Quality Management Documents	E	Certificate of Calibration
Q	Quality Management Documents	F	Safety Procedure
Q	Quality Management Documents	G	Reserved
Q	Quality Management Documents	H	Factory Acceptance Test Plan
Q	Quality Management Documents	J	Commissioning Test Plan
Q	Quality Management Documents	K	Test on Completion Plan
Q	Quality Management Documents	L	Integration Test Plan
Q	Quality Management Documents	M	Reserved
Q	Quality Management Documents	N	Factory Test Procedures
Q	Quality Management Documents	O	Site Access Procedures
Q	Quality Management Documents	P	Procedures
Q	Quality Management Documents	Q	Integration Test Procedures
Q	Quality Management Documents	R	System Performance Test Procedures
Q	Quality Management Documents	S	Site Safety Procedure
Q	Quality Management Documents	T	Factory Test Reports
Q	Quality Management Documents	U	Site Access Reports
Q	Quality Management Documents	V	Commissioning Test Reports
Q	Quality Management Documents	W	Integration Test Reports
Q	Quality Management Documents	X	System Performance Test Reports
Q	Quality Management Documents	Y	Reserved
Q	Quality Management Documents	Z	Test Certificates
R	Reports	A	Company Progress Reports (General)
R	Reports	B	Field Reports
R	Reports	C	Monthly Reports
R	Reports	D	Quarterly Reports
R	Reports	E	Material Receiving Reports
R	Reports	F	Commissioning Reports
R	Reports	G	Stock Holding Reports
R	Reports	H	Weekly Reports
R	Reports	L	SAP Generated Reports
R	Reports	M	Memorandums
R	Reports	N	Work Reports
R	Reports	P	Technical Reports
R	Reports	Q	Daily Report

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R	Reports	R	Travel Reports
R	Reports	S	Experience Reports
R	Reports	T	Computer Programming / Script Reports
R	Reports	V	Health and Safety Reports
R	Reports	W	Damage Failure & Incidents Reports
R	Reports	X	Repair Reports
R	Reports	Z	Forms
S	Training	A	Training Concepts
S	Training	B	Training Plan
S	Training	C	Staff Recruitment
S	Training	D	Training Manuals
S	Training	E	Basic Training
S	Training	F	Maintenance Training
S	Training	G	Operational Training
S	Training	H	Training Material
S	Training	I	Reserved
S	Training	J	Lists of Training Attendees
S	Training	K	Training Certificates
S	Training	L	Certificate of Attendance
S	Training	M	Certificate of Competency
S	Training	N	Certificate of Experience
S	Training	O	Certificate of Appreciation
T	Topography and Alignment	A	System Engineering Annexes
T	Topography and Alignment	B	Diagrams
T	Topography and Alignment	C	Alignment Cassini
T	Topography and Alignment	D	Alignment GPS, Description
T	Topography and Alignment	E	Reserved
T	Topography and Alignment	F	Reserved
T	Topography and Alignment	G	Alignment GPS Drawing
T	Topography and Alignment	H	Alignment GPS Documents and Reports
T	Topography and Alignment	J	Reserved
T	Topography and Alignment	M	Miscellaneous
T	Topography and Alignment	N	Reserved
T	Topography and Alignment	P	Alignment Proposal
T	Topography and Alignment	S	Reserved
T	Topography and Alignment	T	Track Layout
T	Topography and Alignment	W	Reserved
T	Topography and Alignment	X	Cross Section
U	Technical Documents overall Plans	A	Site Development plans
U	Technical Documents overall Plans	B	Plan descriptions

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U	Technical Documents overall Plans	C	Site Plans
U	Technical Documents overall Plans	D	Reserved
U	Technical Documents overall Plans	E	General Arrangement plans
U	Technical Documents overall Plans	F	Loading Plans
U	Technical Documents overall Plans	G	Escape Route and Fire Protection Plans
U	Technical Documents overall Plans	H	Basic Plans
U	Technical Documents overall Plans	J	Site Security Plans
U	Technical Documents overall Plans	K	Method Statement
U	Technical Documents overall Plans	L	Enquiry Documents
U	Technical Documents overall Plans	M	Combined Services Drawings
U	Technical Documents overall Plans	Z	Binder O&M Documents
V	Civil work	A	Site condition plans
V	Civil work	B	Description of engineering works
V	Civil work	C	Construction, permit application plans
V	Civil work	D	Drainage / Culvert
V	Civil work	E	Structural analyses, analysis plans
V	Civil work	F	Basic building plans
V	Civil work	G	General arrangement
V	Civil work	H	Civil work detail plans
V	Civil work	J	Formwork plans
V	Civil work	K	Reserved
V	Civil work	L	Layout drawings
V	Civil work	M	Route alignment
V	Civil work	N	Structural steelworks plans
V	Civil work	P	Pre-stress drawings
V	Civil work	Q	Plumbing
V	Civil work	R	Reinforcement drawings
V	Civil work	S	Water supply drawings
V	Civil work	T	Overall anchoring plans
V	Civil work	U	Survey drawings
V	Civil work	V	Line of route drawings
V	Civil work	W	Architectural drawings
V	Civil work	X	Reserved
V	Civil work	Y	Reserved
V	Civil work	Z	Reserved
W	Warehouse	A	Notice of Arrival
W	Warehouse	B	Material Acceptance
W	Warehouse	C	Material Rejection
W	Warehouse	D	Material Returned for Replacement
W	Warehouse	E	Approved Repair Vendors
W	Warehouse	F	Repair Approval Request

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W	Warehouse	G	Digital Pictures
W	Warehouse	H	List of Material
W	Warehouse	I	Staff Issues
W	Warehouse	L	Lists of Spares
W	Warehouse	O	Obsolescence
W	Warehouse	P	Policy & Procedures
W	Warehouse	S	Stock Taking
W	Warehouse	V	Vendor's Performance
W	Warehouse	W	Warehouse Safety
W	Warehouse	X	Reserved
W	Warehouse	Y	Reserved
W	Warehouse	Z	Reserved
X	Mechanical Engineering Documents	A	Reserved
X	Mechanical Engineering Documents	B	Placement and foundation layout plans
X	Mechanical Engineering Documents	C	Reserved
X	Mechanical Engineering Documents	D	Finishing work plans
X	Mechanical Engineering Documents	E	Fire Protection Plan
X	Mechanical Engineering Documents	F	Dimensioned drawings
X	Mechanical Engineering Documents	G	Flow Diagrams
X	Mechanical Engineering Documents	H	Pipe-work and air-duct layout drawings
X	Mechanical Engineering Documents	J	Isometric Drawing
X	Mechanical Engineering Documents	K	Manufacturing Drawing
X	Mechanical Engineering Documents	L	Arrangement, assembly and installation drawings
X	Mechanical Engineering Documents	M	Transport and erection plans
X	Mechanical Engineering Documents	N	Technical / Plant rooms
X	Mechanical Engineering Documents	P	Reserved
X	Mechanical Engineering Documents	Q	Reserved
X	Mechanical Engineering Documents	R	Component / Equipment descriptions
X	Mechanical Engineering Documents	S	System description
X	Mechanical Engineering Documents	T	Individual anchoring plans
X	Mechanical Engineering Documents	U	Reserved
X	Mechanical Engineering Documents	V	Components lists / Parts Lists
X	Mechanical Engineering Documents	W	Design data sheets
X	Mechanical Engineering Documents	X	Reserved
X	Mechanical Engineering Documents	Y	Analyses and Calculation
X	Mechanical Engineering Documents	Z	Reserved
Y	Electrical Engineering Documents	A	Cover sheets, List of documents
Y	Electrical Engineering Documents	B	Explanations, overview diagram
Y	Electrical Engineering Documents	C	Checklist
Y	Electrical Engineering Documents	D	Plan Layout

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Y	Electrical Engineering Documents	E	Grounding and lightning protection plans
Y	Electrical Engineering Documents	F	Functional diagrams
Y	Electrical Engineering Documents	G	Earthing & Bonding
Y	Electrical Engineering Documents	H	Detail Design of EMC
Y	Electrical Engineering Documents	J	Reserved
Y	Electrical Engineering Documents	K	Design Drawings
Y	Electrical Engineering Documents	L	Mechanical part list, signal list
Y	Electrical Engineering Documents	M	Tag / Label
Y	Electrical Engineering Documents	N	Reserved
Y	Electrical Engineering Documents	P	Proposal
Y	Electrical Engineering Documents	Q	Layout diagrams / Drawings
Y	Electrical Engineering Documents	R	Descriptions
Y	Electrical Engineering Documents	S	Circuit diagrams and tables
Y	Electrical Engineering Documents	T	List of equipment
Y	Electrical Engineering Documents	U	Arrangement drawings
Y	Electrical Engineering Documents	V	Terminal connection diagrams
Y	Electrical Engineering Documents	W	Wiring Diagrams
Y	Electrical Engineering Documents	X	Cable lists, interconnection diagrams
Y	Electrical Engineering Documents	Y	Reserved
Y	Electrical Engineering Documents	Z	Reserved
Z	Human Resource Document	A	Reserved
Z	Human Resource Document	E	Reserved
Z	Human Resource Document	F	Forms
Z	Human Resource Document	G	Employee Guidelines
Z	Human Resource Document	I	Permit
Z	Human Resource Document	J	Job Description
Z	Human Resource Document	M	Bon / Contract / Agreement
Z	Human Resource Document	P	Policies & Procedures
Z	Human Resource Document	R	Report / Interview / Evaluation
Z	Human Resource Document	S	Salary