



MENTERI KEUANGAN
REPUBLIK INDONESIA

LAMPIRAN I
KEPUTUSAN MENTERI KEUANGAN REPUBLIK
INDONESIA NOMOR **370** /KMK.03/2003
TENTANG PELAKSANAAN PAJAK
PERTAMBAHAN NILAI YANG DIBEBAHKAN
ATAS IMPOR DAN/ATAU PENYERAHAN
BARANG KENA PAJAK TERTENTU DAN/ATAU
PENYERAHAN JASA KENA PAJAK TERTENTU

DAFTAR SUKU CADANG SERTA ALAT KESELAMATAN PELAYARAN
ATAU KESELAMATAN MANUSIA

NO.	KELOMPOK	NAMA BARANG
I	HULL PART	
1	Hull Equipment	• Hatch And Manhole • Mast • Post Rigging • Anchoring And Mooring • Life Saving Equipment And Boat Davit • Awning and Canvas Work • Ladder And Stair Way • Rail • Stanchion And Davit • Skylight And Removeable Plate • Gate Hole • Ramp Door
2	Deck Machinery	• Parts For Windlass • Mooring Winch • Capstan • Boat winch • Steering Gear • Lift • Handling Hoist • Handling Crane • Derrick • Bow Thruster • Hydraulic Pump Unit • Refrigerating Plant
3	Accommodation	• Bulkhead • Lining And Ceilings • Deck Covering • Insulation Door • Side Scuttle And Window • Sanitary Equipment • Commissary Equipment
4	Painting And Cathodic Protection	• Marine Paints • Cathodic Protection • Marine Growth Prevention System • Impress Current Cathodic Protection



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5	Ventilation And Air Conditioning	• Shift Air Conditioning System • Mechanical Ventilation • Natural Ventilation
6	Hull Piping System	• Water Ballast System • Ballast Control System • Fuel Oil Filling And Transfer Line • Deck Wash System • Bilge And Scupper • Water Service System • Steam And Exhaust Piping System • Fire Fighting System • Compressed Air System • Voice Tube
7	Navigation Equipment	• Navigation Equipment • Communication Equipment • Flag And Book • Distress Signal • Navigation Light • Magnetic Compass • Gyro Compass • Steering Control • Doppler Sonar • Echo Sounder • Radar System • Radio Direction Finder • Decca Navigator • Loran C Receiver • Central Clock System • Horn Control System • Window Wiper • Anemometer And Anemoscope • Loading Computer
II	MACHINERY PART	
8	Main Propulsion Unit	• Parts And Equipment For Main Eropulsion Diesel • Main Propulsion Steam/Gas Turbine
9	Shafting And Propeller	• Shafting • Breaking • Stern tube • Propeller And Its Accessories • Clutch Ang Gearbox



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10	Steam And Generating Plant	• Parts And Equipment For Steam Generating Plant • Fitting And Accessories • Uptake And Funnel • Burner Control
11	Electric Generating Plant	• Parts And Equipments For Main Generator Engine/ Turbine • Auxiliary Generator Engine/ Turbine • Emergency Generator Engine
12	Condensing Equipment	• Parts For Main Condenser • Auxiliary Condenser • Main Condenser Vacuum Pump • Gland Exhaust Fan And Gland Steam Condenser
13	Pumps	• Parts And Equipment For Main Feed Water Pump • Centrifugal Pump • Axial Pump • Rotary Pump • Reciprocating Pump
14	Air Compressor, Reservoir And Fan	• Parts And Equipment For Main/Auxiliary Starting Air Compressor • Control And Ship Service Air Compressor • Emergency Starting Air Compressor • Air Reservoir • Force Draft Fan • Gland Exhaust Fan • Boiler Hood exhaust Fan • Control Air Dryer
15	Heat Exchanger	• Parts And Equipment For Feed Water Heater • Lubricating Oil Cooler • Drain Cooler • Fuel Oil Heater • Fresh Water Cooler • Distilling Plant • And Other Heat Exchanger Of Machinery's Accessory
16	Machinery Piping System	• Main Auxiliary Steam System • Drain And Condensate System • Feed Water System • Fuel Oil Filling • Transfer And Service System • Lubricating Oil System • Sea Water Service System • Starting Control And Service Air System • Bilge Water System



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17	Valve	• Valve For Sea Water • Feed Water • Fuel Oil • Lubricating Oil • Condensate • Fresh Water And Air • Pressure Safety Valve • Pressure Vacuum/Relief Valve
18	Automatic Remote Control And Instrumentation	• Navigation Control • Engine Monitoring System • Cargo Monitoring System • Steam Plant Monitoring System • Miscellaneous Devices • Fire And Gas Detector • Fire Fighting Apparatus • Related Instrumentation And Control
19	Others	• Engine Handling Hoist • Environment Protection Equipment • Heating Coil • Purifier
III	ELECTRIC PART	
20	Lighting Equipment	• Electric Ship Light • Emergency Light • Portable Lamp • Switch • Receptacle And Combination Outlet Box
21	Interior Communication Equipment	• Parts For Common Battery • Automatic Exchange Telephone System • Loudspeaking System • General Alarm • Fire Alarm • Halon/Co2 Alarm • Transceiver System • Engine Order Telegraph • Shaft Revolution And Rudder Angle Indicator



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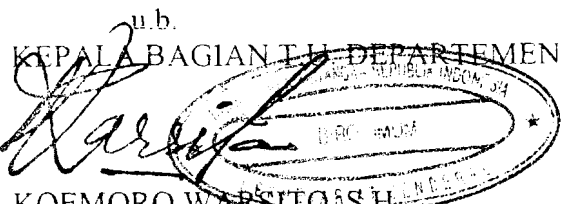
22	Radio Equipment	• Radio Telegraph And Telephone • Lifeboat Portable Radio Equipment • Radio Beacon • Vhr Radio Telephone • Satellite Communication System • Weather Facsimile • Antenna Multicoupler • Ship's Telephone • Broadcasting Radio Receiver • Television Receiver And Antenna • Stereophonic Tape Player
23	Electric Cable And Tools	• Electric Cable And Its Related Accessories • Switchboard • Battery Charging System • Electric Motor And Motor Control • Group Starter Panel • Main Emergency Switchboard
IV	CARGO PART	
24	Cargo Handling Machinery	• Parts For Cargo Handling Machinery, Such As • Cargo Hose • Cargo Pump • Cargo Heater • Cargo Measuring Equipments • Inert gas Generator Plant • Tank Cleaning Equipments • Butter Worth Heater • Self Unloading
25	Cargo Control And Instrumentation	• Cargo Control System • Pressure And Temperature Measurement • Cargo Tank Liquid Level Indicator And Alarm System • Portable Cargo Measurement System

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LAMPIRAN II
KEPUTUSAN MENTERI KEUANGAN REPUBLIK
INDONESIA NOMOR **370** /KMK.03/2003
TENTANG PELAKSANAAN PAJAK
PERTAMBAHAN NILAI YANG DIBEBAHKAN
ATAS IMPOR DAN/ATAU PENYERAHAN
BARANG KENA PAJAK TERTENTU DAN/ATAU
PENYERAHAN JASA KENA PAJAK TERTENTU

DAFTAR SUKU CADANG DAN PERALATAN UNTUK PERBAIKAN
ATAU PEMELIHARAAN PESAWAT UDARA

NO.	KELOMPOK BARANG	ARTICLE	FSC
1.	Suku Cadang Rangka Pesawat Komponen (pesawat udara dan perlengkapan kursi, brake unit, wheel assy, landing gear, dll.	Airframe Parts, Aircraft component, and related accessories, composite	1560, 1610, 1615, 1620, 1630, 1650, 1680
2.	Ban luar dan dalam pesawat udara (baru dan vulkanisir)	Aircraft New Tires, Retreated Tires and Tubes, Pneumatic of Rubber	2620
3.	Mesin torak pesawat udara dan suku cadangnya.	Aircraft and Gasoline, Reciprocating Engine and Related Parts	2810
4.	Mesin turbin pesawat udara dan suku cadangnya, baling-baling	Aircraft gas turbine, jet engine, and related parts, propeller	2840
5.	Mesin roket pendorong pesawat udara dan suku cadangnya	Rocket Engine and Related Parts	2845, 2846
6.	Mesin bantu pesawat udara dan suku cadangnya	Aircraft auxiliary power unit (APU) and related parts	2840, 6115
7.	Perlengkapan mesin terbang untuk jenis mesin torak, jenis mesin gas turbin, mesin jet, mesin roket dan mesin bantu.	Engine Accessories of Aircraft Reciprocating Engine, Gas Turbine Engine, Jet Engine, Rocket Engine, and Auxiliary Power Unit (APU)	2915, 2925, 2935, 2945, 2950, 2995
8.	Bantalan-bantalan anti gesekan tanpa penopang	Bearing Anti Friction Unmounted	3110
9.	Bantalan-bantalan luncur tanpa penompang	Bearing Plain Unmounted	3120
10.	Bantalan-bantalan dengan penopang	Bearing Unmounted	3130
11.	Alat pendingin dan alat pendingin udara, peralatan pemanas dan peralatan tekanan udara	Refrigerator and Air Conditioning, Heating & Pressuizing Equipment for Aircraft	1660
12.	Kipas, perlatan sirkulasi udara dan peralatan peniup angin untuk pesawat udara	Fans, Air Circular and Blower Equipment for Aircraft	1660
13.	Alat pemadam kebakaran pesawat udara dan perlengkapannya	Fire Fighting Equipment and Related Accessories	4210



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14.	Peralatan keamanan dan keselamatan untuk pesawat udara beserta perlengkapannya	Safety and Rescue Equipment and Related Accessories	4220
15.	Peralatan untuk sistem instalasi pipa dan perlengkapannya, rak serbet dispenser, dan katup pembersih bowl	Plumbing Fictures and Accessories Dispenser Towel Rack, Flush Valve, Sink	4510
16.	Peralatan pemanas ruang dan tangki penyimpanan air panas untuk pesawat udara	Space Heating Equipment and Domestic Water Heater Storage Tanks for Aircraft	4520
17.	Pipa dan selang untuk pesawat udara	Pipe and Tube for Aircraft House and Tubing for Aircraft	4710, 4720
18.	Macam-macam sambungan pipa selang yang terbuat dari karet dan metal untuk pesawat udara	Miscellaneous Fitting for House, Pipe and Tube used for Aircraft	4730
19.	Sekrup	Screws	5306
20.	Baut	Bolds	5306
21.	Baut Tanam	Studs	5307
22.	Mur dan Ring	Nuts and Washer	5310
23.	Kunci Paku dan Pasak	Nails, Keys and Ping	5315
24.	Paku Keling	Rivets	5320
25.	Alat-alat Pengencang	Fastening Devices	5325
26.	Material untuk Packing dan Gasket	Packing and Gasket Material	5330
27.	Bermacam-macam Pegas	Cod, Flat and Wire Spring	5360
28.	Ring, Shim and Spacer	Rings, Shims and Spacer	5365
29.	Peralatan Komunikasi Radio dan Televisi, termasuk sistem video entertainment untuk pesawat udara	Radio and Television Communication including Video Entertainment System	5821
30.	Peralatan radio dan navigasi untuk pesawat udara	Radio and Navigation Equipment for Aircraft	5826
31.	Peralatan komunikasi di dalam pesawat udara	Handset, Intercommunication and public address system such as Microphone and Speakers for Air craft	5831, 5965
32.	Peralatan radar untuk Pesawat Terbang	Radar Equipment for Aircraft	5841
33.	Modul-modul elektronik	Electronics Modules	5963
34.	Antena, Tabung Penghantar Gelombang beserta peralatannya	Antennas, Wave Guide and Related Equipment	5985
35.	Konduktor Serat Optik	Fiber Optic Conductors	6015
36.	Kabel Serat Optik	Fibre Optic Cables	6020
37.	Rakitan Kabel Serat Optik	Fibre Optic Cables Assemblies and Harnesses	6020
38.	Peralatan Serat Optik	Fibre Optic Devices	6020
39.	Sambungan Serat Optik	Fibre Optic Interconnect	6060
40.	Perlengkapan Serat Optik dan Suku Cadangannya	Fibre Optic Accessories and Supplies	6070



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41.	Perangkat Serat Optik	Fiber Optic Kits and Sets	6080
42.	Motor Listrik	Motors Electrical	6105
43.	Generator, Starter Generator dan suku cadangnya untuk pesawat udara	Generators and Starter Generator, Electrical Parts for Aircraft	2926, 6115
44.	Fuel Cell Power Uni beserta komponen dan perlengkapannya	Fuel Cell Power Unit Component and Accessories	6116
45.	Alat Pengubah Arus Listrik, berputar maupun yang tidak berputar	Electrical Converters, Rotating and Non Rotating	6125, 6130
46.	Baterai Pesawat Udara yang dapat diisi kembali	Batteries, Rechargeable	6140
47.	Lampu-lampu Pesawat Udara, Ballast, Pegangan Lampu, Starter dan Perlengkapannya.	Electrical Vehicular, Light and Fibers, Electrical Portables, Hand Lighting Equipment, Electrical Lamp Ballast, Lamp Holder, Starters and its related Accessories	6220, 6230, 6240, 6250
48.	Alarm Pesawat dan Sistem Signal	Aircraft Alarm and Signal System	6340
49.	Instrumen navigasi di Kokpit	Cockpit Navigational Instrument	6605
50.	Instrumen Pesawat Udara	Flight Instrument	6610
51.	Peralatan Pengontrol Otomatis seperti Komputer Pengendali Pesawat dan Suku Cadangnya.	Automatic Pilot Machine such as Roll, Yaw and Pitch Computer and Aircraft Gyro and Related Parts	6615
52.	Instrumen Mesin	Engineer Instrument	6620
53.	Alat Ukur Instrumen Cairan dan Gas serta Alat Ukur Mekanis	Liquid and Gas Flow, Liquid Level and Mechanical Motion Measuring Instrument.	6680
54.	Instrumen Pengukur dan Pengendali Tekanan, Suhu dan Kelembapan	Pressure, Temperature, Humidity, Measuring and Controlling Instrument	6685
55.	Perlengkapan Kabin, Kursi, Sarung Kursi, Lapos Dinding untuk pesawat udara	Household furnishing, Seat Cover, Wallpaper for Aircraft	7210
56.	Tiray, Krey dan Gordin pada Pesawat Udara	Draperies Awnings and Shades for Aircraft	7230
57.	Peralatan Dapur Pesawat Udara (Pemanas, Pembuata Kopi, Pendingin dan lain-lain) beserta perlengkapan pelayanannya	Food Cooking, Baking and Serving Equipment (Oven, Coffee Maker, Refrigerator, etc) for Aircraft	7310
58.	Kontainer Khusus Pesawat Terbang, Pengikat Kargo dan Peralatannya.	Specialized Shipping, Stroge, Container, Cargo Tie Down and Equipment	8145, 1670
59.	Bermacam-macam bahan Pabrikan bukan Metal untuk Suku Cadang	Miscellaneous, fabricated, Non Metallic Materials	9390
60.	Batang dan Batang Kecil dan Besar dari Baja	Bars and Rods, Iron and Steel Aluminium	9510
61.	Papan-papan Identifikasi dan Tanda-tanda	Sign, Identifications, Plates	9905



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62.	Alat-alat Ukur Presisi untuk Pesawat Udara	Precision and Measuring Tools for Aircraft	5210, 5220
63.	Peralatan Simulasi dan Pendukung Pelatihan Penerbangan, Teknisi dan Awak cabin, beserta Suku Cadangnya.	Training Aids and Operation Training Devices and Related Parts	6910, 6930
64.	Peralatan untuk Perawatan dan Perbaikan Khusus Pesawat Udara	Aircraft maintenance and Repair Shop Specialize Equipment	4920
65.	Peralatan khusus untuk Pengukuran dan Pengetesan Elektronik Pesawat Terbang	Electrical and Electronic Properties Measuring and Testing Instruments	6625
66.	Motor Pembilas	Flush Motor	4630

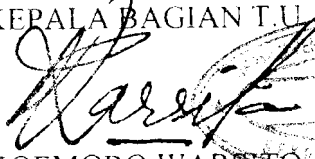
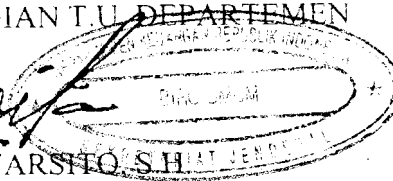
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LAMPIRAN III
KEPUTUSAN MENTERI KEUANGAN REPUBLIK
INDONESIA NOMOR 370 /KMK.03/2003
TENTANG PELAKSANAAN PAJAK
PERTAMBAHAN NILAI YANG DIBEBAHKAN
ATAS IMPOR DAN/ATAU PENYERAHAN
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DAFTAR SUKU CADANG PERALATAN UNTUK PERBAIKAN/PEMELIHARAAN
SERTA PRASARANA KERETA API

NO.	KELOMPOK	NAMA BARANG
I	SARANA KERETA API	
A	LOKOMOTIF	1. LOKOMOTIF DIESEL ELECTRIC DC/DC 2. LOKOMOTIF DIESEL ELECTRIC AC/DC 3. LOKOMOTIF HIDROLIK/DH
	KOMPONEN / SUKU CADANG	
A1	MESIN LOKOMOTIF	1. SUB KELOMPOK MEKANIS ENGINE: • Main Frame Assembly • Main Frame Equipment List Balance Shafts, Idler Shafts & Gears Camshaft, Crossheads, Gear & Bearings Sectional Cover, Crankcase Inspection Opening Cover, Generator End Main Frame, Crankshaft & Main Bearings Switch, Pressure Timing Plate • Fuel Linkage And Governor Drive Drive, Governor Fuel Control Linkage Lever, Fuel Linkage Governor, Over speed Over speed Extension Link Over speed Trip Device • Engine Control Governor Equipment List Engine Control Governor Governor Mounting & Linkage, Engine Control • Fuel Oil, Lube Oil Piping Equipment List Fuel Oil, Lube Oil, Water Piping & Fuel Filter Pressure Bias Governor Air Line Kit Pump & Motor, Fuel Booster • Power Plant Mounting Equipment List Alternator-Generator Alignment & Power Plant Mounting • Forward End Cover Equipment List Forward End Cover With Lube Oil Pump Drive Water Pump Drive, Crankcase Breather Vibration Damper Pump & Connection, Water Pump, Gear & Mounting, Lube Oil Valve, Lube Oil Relief



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| | <ul style="list-style-type: none">• Power Assembly Equipment List<ul style="list-style-type: none">Connecting RodCylinders, Push Rods &Rocker Assemblies With Fuel LinkageFuel Injection Nozzle & Fuel Pump MountingNozzle, Fuel InjectionPiston & RingsPump, Fuel Injection• Turbocharger And Intercooler<ul style="list-style-type: none">Exhaust Stack & InstallationInlet & Discharge Water HeaderIntercoolers & Air Intake ManifoldTurbochargerRotorTurbocharger InstallationWater & Lube Oil Piping• Manifold Equipment List<ul style="list-style-type: none">Manifold, Exhaust• Turbocharger Assembly• Intercooler Assembly• Crank Case Assembly• Gear Case Assembly• Cover Front End• Cover Crank Case Inspection• Dipstick Assembly• Metal Mesh/Oil Charge/Main Bearing• Camshaft Gear Drive• Camshaft Assembly• Bearing Pin• Crank Shaft Assembly• Timing Gear• Balance Shaft/Idler Shaft & Gears• Cylinder Liner Assembly• Connecting Ro Assembly• Piston Assembly• Cover Wilo• Hub• Jacking Ring• Pump/Gear & Mounting• Lube Oil Filter• Breather• Cylinder Head• Prechamber• Rocker Support• Valve• Governor Assy• Over Speed Governor• V-Belt• Ring• Seal• Screen |
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- Sleeve
- Dca Liquid
- Gasket
- Test Kit
- Stinger
- Collar
- Hose

2. AIR INTAKE SYSTEM :

- Air Inlet
- Air Cleaner
- Air Filter
- Turbo Super Charger
- Air Piping & Fitting
- Air Intake Manifold
- Exhaust Manifold
- Stack

3. COOLING SYSTEM :

- Cooler Drive With Cooling Plat
- Voith Cooling
- Unit
- Cooler Joint
- Variable Speed Fan With Impeller
- Water Tank
- Water Inlet Header
- Discharge Header
- Piping
- Radiator
- Fan Drive
- Cooler & Mounting
- Water Pump
- Air Cooler
- Shutter
- Regulating
- Valve Assy
- Water Treatment
- Bevel Gear Assy
- Temperature Control For Cooling Water

4. FUEL SYSTEM :

- Fuel Tank Arrangement
- Fuel Tank
- Fuel Strainer
- Fuel Injection Pump
- Fuel Nozzle Assy
- Fuel Piping & Fitting
- Fuel Pump With DC Motor
- Fuel Filter Assy
- Pre Fuel Tank



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A2	SISTIM KONTROL : LOKOMOTIF	5. LUBE OIL SYSTEM : • Lube Oil Assy • Lube Oil Filter/Element • Lube Oil Cooler • Lube Oil Pipe System • Preliminary Lubrication Pump Assy • Oil Pump • Relay Valve • Oil Pressure Swicth • Low Oil Swicth 1. CDC / PDC • Miscellaneous Control Equipment - Bus Bar-Cable-Cleat Arrangement - Contactors - Interlock - Magnet Valve - Reverser - Switch • Control Group Equipment List - Control Group - Compartment With Doors & Covers - Panel - Relay - Terminal Board - Voltage Regulator - Cards • Resistor Dynamic Brake • Thyrtor Regulator Assy • Relay Contactor • Interlock • Magnet Switch Reverser • Control Group • Compartement with Doors and Caver • Panel • Terminal Board • Voltage Regulator • Circuit Breaker • Dead Man Pedal System • Motor Start • Pressure Switch • Throttle Valve • Pantograph • GTO Inverter 2. AC/DC KIT - ADDITIONAL • Adapter • Base Asm • Bolt
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| | <ul style="list-style-type: none">• Bracket• Brk/Switch Asm• Bushing• C Filter• Cable• Cb Cover• Circ Brkr• Circuit Breaker• Clamp• Compressor Arr Panel• Conn.• Connector• Const Diag• Constr Dia• Constr Diag• Cont Supt• Cont/Intl Cm• Cont/Intlk• Cover• Cover Circ Brkr• Cplg Stl Coup• Decal Brightstar Sir• Decal Load• Did Panel• Diesel Engine• Diode• Diode Asm• Door Latch Toggle• Element• Equipment List Gta11• Exhauster Blwr Motor• Flex Air Duct• Ftg Cnd Strain Rel• Ground Block• Holder• Hose• Ind Plate• Interlock Control• Kit, Retrofot Single• Kit, Connector At Kit• Kit, Connector Cps Conn Kit• Kit, Connector D7up Conn Kit• Kit, Connector Db25 Kit• Kit, Connector Jumper Kit• Kit, Connector Lot/Ewt Kit• Kit, Connector Scm Kit• Kit, Retrofit• Kit, Retrofit Bkt Gp32• Kit, Retrofit Cont• Kit, Retrofit Rev Dp32 |
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		• Knife Swit Spdt-Pb • Lamp Eng Rm • Lamp Socket • Latch • Lens • Light Asm Misc. • Loadmeter • Lockwasher • Module • Nut • Panel • Panel Asm • Press Sw • Rectifier Power Block • Reference Item Kit Miscel • Relay • Resis Pnl • Resistor • Reverser • Rotary Switch • Schematic Electrical • Screw • Sensor • Shunt • Sonalert Sona • Support Asm • Switch • Switch Dpdt Vco • Switch Pressure • Switch Spdt-Pb • Switch Spdt-Red-Pb • Temp Probe • Terminal • Thyrite • Transd Asm • Vacuum Switch Efvs • Washer Narrow • Wire - Shield 2+Drain • Wire, Lock • Wire-Cable
A3	SISTIM TRANSMISI LISTRIK: LOKOMOTIF	1. TRACTION, EXCITER, AUX. GENERATOR: • Field Coils • Armature • Gear Case • Brush Holder & Carbon Brush • Power Take Off Gear Unit • Bearing • Auxiliaries



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		• Traction Generator And Auxiliary Power • Auxiliary Generator • Exciter • Gear Unit - Power Take-Off • Traction Generator • Rectifier
		2. TRACTION MOTOR: • Housing • Field Coils • Armatur • Gear Box • Brush Holder & Carbon Brush • Bearing • Duct TM • Motor Suspension • Accessories TM • Starting Motor Assy • Armatur Shaft Pinion & Draft Gear • Rewinding Kit • Traction Motor Assy
A4	SISTIM TRANSMISI HIDROLIK : LOKOMOTIF	1. TURBO TRANSMISSION: • Housing Assy • Filter Pump • Main Control • Output Drive • Reversing Valve • Step Up Gear • Gear Wheels • Cover • Rotor Uniform Part • Input & Output Drive Part • Intermediate Shaft Selector Part • Selection Seavenger Pump • Transmission Suspension • Elektrik Instrument • Pressure Switch 2. GARDAN SHAFT ASSY : • Gardan Shaft • Join Coupling
A5	SISTIM PENGGEREMAN : LOKOMOTIF	1. AIR BRAKE SYSTEM : • Air Compressor and Spare Part • Check Valve • Angle Cock • Hose Connection & Pipe



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A6	BOGI : LOKOMOTIF	• Air Reservoir • Drain Cock & Stop Cock • Valve Parts • Brake Coupling • Cylinder • Automatic Drivers • Brake • Double Check Valve with Rubber Packing • Charge Over Cock • Charging Cut Off Pilot • Regulating Cylinder • Tact Ventel • Bell / H o r n • Window Wipper Arrangement • Brake Shoe • Distributor Valve Assy • Slang Air Brake • Slack Adjuster • Emergency Brake • Inner Parts Distributor Valve 2. HAND BRAKE AND BRAKE MECHANISM: • Rigging • Hand Brake Lever • Sand Blaser 1. BOGIE ASSEMBLY • Truck Equipment List - Axle Alternator (17mm24ak1) - Bolster & Truck Frame - Brake Rigging - Journal Bearing Accessories (Axle Alternator) - Journal Bearing With Housing - Motor Suspension - Sand Pipe Arrangement - Snubber, Horizontal (41a244100aap5) - Snubber, Vertical (41a244100aap2) - Spring Rigging - Traction Motor (5ge761a19) - Traction Motor Accessories - Traction Motor Gear Case Lubricator - Wheel, Axle, Gear & Journal Bearing 2. WHEEL AND AXLE ASSEMBLY: • Combined/Wheel Set • Axle • Drive Gear • Journal Bearing • Bearing • Axle Box
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A7 BODI : LOKOMOTIF		3. JOURNAL BOX AND SPRING ASSEMBLY 4. SWING BOLSTER ASSEMBLY: • Center Plate Assembly & Center PI • Upper and Lower Swing Bolster Assembly • Spring Assembly • Vertical & Horizontal Oil Damper • Snubber • Conical Rubber Bounded • Rubber Block • Air Spring • Disc. Brake • Brake Pad • Block Rem • T-Link • Colipper • Shock Absorber & Kit • Antimonium & Banka Tin • Pen dan Bush • Kawat Las Roda • Wear Plate • Tas Pot • King Pen • Swingen Pendel • Rubber Journal Spring • Bahan Baja Pegas 1. UNDER FRAME AND PLATFORM: • Car Body to Traction Motor • Cable Connector • CauplerArrangement • Power Plant Moecting • Uncompling Lever Arrangement • Cable Clumps Steel • Truin Line Jumper & Receptable • Platform Signal Light Arrangement • Sido Steps & Hand Rail • Way Side & Batterry Receptable • Platform Equipment List - Battery Box Cover Arrangement - Bell, Locomotive - Cable Clamps, Steel - Cable Cleats - Coupler, Draft Gear & Yoke - Fuel Hose Arrangement - Fuel Tank - Fuel Tank Arrangement - Pilot Arrangement - Platform
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		Platform Signal Light Arrangement Sand Hose Arrangement Side Step & Handrail Arrangement Spillage Tank Arrangement Traction Motor Air Duct (End) Traction Motor Air Duct (Middle) Traction Motor Cable Connection Trainline Jumpers & Receptacles Uncoupling Lever Arrangement Wayside & Battery Receptacles
		2. NOSE CAB ASSEMBLY, ROOF FLAP TO ENGINE • Nose Cab Equipment List Cover Arrangement Door Latch Handbrake Handbrake Rigging Light
		3. OPERATORS CAB ASSEMBLY: • Operator Cab Equipment List Control Console, Long Hood Lead Control Console, Short Hood Lead Controller Daylight Signal Arrangement Dome Light Arrangement Door Latch, Control Compartment Door Latch, Engine, Nose, Operator Or Radiator Cab Door Latch, Locker Door Latch, Operator Cab Door Latch, Roof Door Seal Arrangement Engine Gage Panel Fire Extinguisher Arrangement Foot Switch Arrangement Handbrake Rigging Headlight Operator Cab Accessories Operator's Seat Arrangement Speed Recorder Speed Recorder Arrangement Switch, Deadman Switch, Sander Transmitter/Driver Vigilance Control Panel, 17fm547a1 Window Arrangement Window Wing Window Wiper Arrangement • Auxiliary Cab Equipment List • Operator Cab



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- Accessories
- Arrangement
- Control Console
- Engine Gauge Panel
- Slidding Window
- Window Wing
- Dome Light Arrangement
- Dours Latch Control Arrangement
- Switch Sander & Dead Man
- Engine Cab
- Blower Unit
- Signal Middie Front & Rear

4. ENGINE CAB EQUIPMENT LIST

- Air Compressor Drive Shaft
- Automatic Fire Extinguisher
- Blower (Traction Motor)
- Blower Unit
- Braking Resistor, Dynamic
- Door Latch
- Engine Cab
- Engine Cab Accessories
- Exhaust Cover Arrangement
- Flexible Coupling (Compressor End)
- Flexible Coupling (Engine End)
- Lube Oil Cooler
- Lube Oil Filter
- Lube Oil Piping Arrangement
- Water Piping Arrangement

5. RADIATOR CAB EQUIPMENT LIST

- Air Compressor & Radiator Fan Drive
- Air Compressor Piping
- Crossover Walk Arrangement
- Daylight Signal Arrangement
- Diverter Valve
- Door Latch
- Engine Air Intake Arrangement
- Exhauster/Blower
- Expansion Tank Arrangement
- Fire Extinguisher Arrangement
- Gear Unit
- Hatch Cover Arrangement
- Headlight
- Magnet Valve
- Radiator Arrangement
- Radiator Cab
- Radiator Fan Guard Arrangement

6. CAB HEATER/AIR CONDITIONER/WATER COOLER



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	7. AIR BRAKE EQUIPMENT LIST • Air Brake Equipment • Air Compressor • Air Compressor Filter Arrangement • Air Filter, Centrifugal • Brake Cylinder • Horn • Valve, Application Brake • Valve, Automatic Drain • Valve, Bell • Valve, Brake • Valve, Check • Valve, Check & Strainer • Valve, Control • Valve, Double Check • Valve, Emergency Brake • Valve, Horn • Valve, Magnet • Valve, Pilot • Valve, Relay • Valve, Safety • Valve, Sanding • Valve, Vent 8. EXTERIOR : • Bingkai Jendela • Kaca Jendela • Pelat Baja • Pintu • Kunci-kunci • Pelat Baja Kembang • Baja Kanal • Pipa Baja • Cat • Rubber Bellow 9. ACCESSORIES INTERIOR : • Kursi • Plate Alumunium • Rak Barang • Lis Karet • Ceiling Fan • Exhaust Fan • Melamine Plastic Hard Board 10. MODULE LAVATORY : • Module Floor Stainless Steel • Module GFRP
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A8	ALAT PERANGKAI OTOMATIS LOKOMOTIF, KERETA REL	1. AUTOMATIC CAUPIER ASSY 2. CAUPLER BODY 3. KNUCKLE 4. RUBBER DRAFT GEAR
A9	ALAT BANTU LOKOMOTIF,	1. SAVETY AUXILIARY : • Fire Extinghuiser • Day Light Signal Arrangement • Head Light Assy • Fire Signal Device with Fuse • Radio Locomotive • Water Treatment for Engine Coking System 2. INDICATOR SPEED AUXILIARY • Spedo meter • Auxiliary of Electric Connection • Locomotive Cable & Wire • Terminal Connection • Fiting Parts 3. GENERAL PURPOSE HARDWARE • Compression Fittings • Copper Tubing & Fittings • General Purpose Conduit & Fittings • Locomotive Cable & Wire • Pipe & Fittings • Steel Tubing & Fittings • Terminal Connections • Terminals 4. BATTERY & KALLILOG 5. COMPLER ELECTRIC • MCB • Matching • Cable
A10	MESIN PENYEGAR UDARA LOKOMATIF	1. MOTOR COMPRESSOR 2. BLOWER 3. CONDENSOR 4. THERNOSTATIC EXPANSION VALVE 5. FILTER DRIER 6. LOW & HAIGH PRESSURE CUT OUT SWITCH 7. DISCHARGE BY PASS VALVE 8. CONTRACTOR 9. RELAY



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B	KERETA KERETA REL	10. CIRCUIT BREAKER 1. DIESEL (KRD) (Diesel Rail Car) 2. LISTRIK (KRL) (Electric Rail Car) 3. DIESEL ELEKTRIK (KRDE) (Diesel Electric Rail Car) 4. TMC (Track Motor Car)
	KERETA	1. PENUMPANG KELAS EKSEKUTIF (K1) (Passenger Coach Executive Class) 2. PENUMPANG KELAS BISNIS (K2) (Passanger Coach Business Class) 3. PENUMPANG KELAS EKONOMI (K3) (Passenger Coach Economic Class) 4. MAKAN (KM) (Dining Coach) 5. PEMBANGKIT (BP) (Power Cars)
	GERBONG	1. PENGANGKUT BATUBARA (KKBW) (Coal Wagon) 2. PENGANGKUT KONTENER (CFW) (Container Flat Wagon) 3. PENGANGKUT BARANG 4. PENGANGKUT HEWAN 5. TANKI (Tank Wagon)
	KOMPONEN / SUKU CADANG	
B1	MESIN	1. DIESEL ENGINE RAILWAY APPLICATION 2. SUB KELOMPOK MEKANIS ENGINE: • Main Frame Assembly • Crank Case Assembly • Gear Case Assembly • Cover Front End • Cover Crank Case Inspection • Dipstick Assembly • Metal Mesh/Oil Charge/Main Bearing • Camshaft Gear Drive • Camshaft Assembly • Bearing Pin • Crank Shaft Assembly • Timing Gear • Balance Shaft/Idler Shaft & Gears • Cylinder Liner Assembly • Connecting Rod Assembly • Piston Assembly • Cover Wilo • Hub • Jacking Ring • Pump/Gear & Mounting • Lube Oil • Breather



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	• Cylinder Head • Prechamber • Rocker Support • Valve • Governor Assy • Over Speed Governor • V-Belt • Ring • Seal • Screen • Sleeve • DCA Liquid • Gasket • Test Kit • Stinger • Collar • Hose • Turbo Super Charger 3. AIR INTAKE SYSTEM: • Air Inlet • Air Cleaner • Air Filter • Turbo Super Charger • Air Piping & Fitting • Air Intake Manifold • Exhaust Manifold • Stack 4. COOLING SYSTEM: • Cooler Drive With Cooling Plat • Voith Cooling • Unit • Cooler Joint • Variable Speed Fan With Impeller • Water Tank • Water Inlet Header • Discharger header • Piping • Radiator • Fan Drive • Cooler & Mounting • Water Pump • Air Cooler • Shutter • Regulating • Valve Assy • Water Treatment • Bevel Gear Assy • Temperature Control For Cooling Water
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B2	SISTEM KONTROL	5 FUEL SYSTEM: • Fuel Tank Arrangement • Fuel Tank • Fuel Strainer • Fuel Injection Pump • Fuel Nozzle Assy • Fuel Piping & Fitting • Fuel Pump With DC Motor • Fuel Filter Assy • Pre Fuel Tank 6 LUBE OIL SYSTEM: • Lube Oil Assy • Lube Oil Filter/Element • Lube Oil Cooler • Lube Oil Pipe System • Preliminary Lubrication Pump Assy • Oil Pump • Relay Valve • Oil Pressure Switch • Low Oil Switch 1. RESISTOR DYNAMIC BRAKE 2. THRYSTOR REGULATOR ASSY 3. RELAY CONTACTOR 4. INTERLOCK 5. MAGNET SWITCH REVERSER 6. CONTROL GROUP 7. COMPARTMENT WITH DOORS AND COVERS 8. PANEL 9. TERMINAL BOARD 10. VOLTAGE REGULATOR 11. CIRCUIT BREAKER 12. DEAD MAN PEDAL SYSTEM 13. MOTOR START 14. PRESSURE SWITCH 15. THROTTLE VALVE 16. PANTOGRAPH 17. GTO INVERTER 18. HIGH VOLTAGE RELAY 19. SNUBBER ASSY 20. VOLTAGE DEVIDER 21. DISTRIBUTION BOARD 22. DC/DC CONVERTER 23. CONVERTER CONTROL BOARD 24. REVERSE INPUT POLARITY MODULE 25. CHOPPER MODULE 26. DOUBLE PULSE BOARD 27. CHOPPER CONTROL BOARD
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B3	SISTEM TRANSMISI LISTRIK	28. DYNAMIC VOLTAGE LIMITATION 29. RECTIFIER MODULE 1. TRACTION, EXCITER, AUX. GENERATOR: • Field Coils • Armature • Gear Case • Brush Holder & Carbon Brush • Power Take Off Gear Unit • Bearing • Auxiliaries 2. TRACTION MOTOR: • Housing • Field Coils • Armature • Gear Box • Brush Holder & Carbon Brush • Bearing • Duct TM • Motor Suspension • Accessories TM • Starting Motor Assy • Armature Shaft Pinion & Draft Gear • Rewinding Kit • Traction Motor Assy • IGBT • IGBT Driver • Power Supply Module • Control Board • Mother Board • Contactor Control • Converter • Interface Converter • Filter Capacitor • Control Relay
B4	SISTEM TRANSMISI HIDROLIK	1. TURBO TRANSMISSION: • Housing Assy • Filter Pump • Main Control • Output Drive • Reversing Valve • Step Up Gear • Gear Wheels • Cover • Rotor Uniform Part



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B5	SISTEM PENGGEREMAN:	• Input & Output Drive Part • Intermediate Shaft Selector Parts • Selection Seavenger Pump • Transmission Suspension • Electric Instrument • Pressure Switch 2. GARDAN SHAFT ASSY: • Gardan Shaft • Joint Coupling 1. AIR BRAKE SYSTEM: • Air Compressor and Spare Parts • Check Valve • Angle Cock • Hose Connection & Pipe • Air Reservoir • Drain Cock & Stop Cock • Valve Parts • Brake Coupling • Cylinder • Automatic Drivers • Double Check Valve With Rubber Packing • Charge Over Cock • Charging Cut Off Pilot • Regulating Cylinder • Tact Ventel • Bell/Horn • Window Wipper Arrangement • Brake Shoe • Distributor Valve Assy • Slang Air Brake • Slack Adjuster • Emergency Brake • Inner Parts Distributor Valve • Dual Chamber Air Dryer • Electronic Control Unit • Brake Control Unit • Magnet Valve • Block Brake Unit • Block Brake Unit with Spring Parking Brake • Anti Skid Valve • Pulse Generator - Speed Sensor • Brake Pipe Coupling • Brake Pad • Pipe Seamless for Brake
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B6	BOGIE:	2. HAND BRAKE AND BRAKE MECHANISM: • Rigging • Hand Brake Lever • Sand Blaser • Hand Brake Bellcrank 1. BOGIE ASSEMBLY • Bogie Kits Bolsterless • Bogie Casting Component • Bogie Ancillary Component • Pipe Transom 2. WHEEL AND AXLE ASSEMBLY: • Combined/Wheel Set • Axle • Drive Gear • Journal Bearing • Bearing • Axle Box 3. JOURNAL BOX AND SPRING ASSEMBLY 4. SWING BOLSTER ASSEMBLY: • Center Plate Assembly & Center PI • Upper and Lower Swing Bolster Assembly • Spring Assembly • Vertical & Horizontal Oil Damper • Snubber • Conical Rubber Bounded • Pegas Daun • Rubber Block • Air Spring • Disc. Brake • Brake Pad • Block Rem • T-Link • Colipper • Shock Absorber & Kit • Antimonium & Banka Tin • Pin & Brush • Kawat Las Roda • Wear Plate • Tas Pot • King Pen
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B7	BODI:	• Swingen Pendel • Rubber Journal Spring • Bahan Baja Pegas • Adjuster Spring • Axle Box Housing • Bolster Anchor Rubber • Bolster Spring • Bottom Center Plate • Center Plate liner • Center plate Stuffing • Conical Bonded Rubber Spring • Guide Rubber • Hanger Bracket • Rubber Buffer • Rubber for Side Bearer • Side Bearer Housing • Swing Link • Traction Rod • Upper Center Plate • Wearing Plate Assy • Rotary Shok absorber • Conection Link 1. UNDER FRAME AND PLATFORM: • Car Body to Traction Motor • Cable Connector • Coupler Installation • Power Plant Mocenting • Uncoupling Lever Installation • Cable Clamps Steel • Train Line Jumper & Receptacle • Platform Signal Light Arrangement • Side Steps & Hand Rail • Way Side & battery Receptacle • Channel Steel A36/SS400/SM400/SM490 • Plate SPAC/Corten/SPAH/SUS • Plate High Strength Grade • Plate SS400/SPHC/SPCC 2. LANTAI: • Pelat Baja Gelombang • Unitex • Underseal Coating • Pelat Baja Kembang 3. EXTERIOR: • Bingkai Jendela • Kaca Jendela • Pelat Baja SS400 • Pintu
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B8	ALAT PERANGKAI OTOMATIS	• Kunci-kunci • Pelat Baja Kembang • Baja Kanal SS400 • Pipa Baja • Cat • Rubber Bellow • Load Breaker Switch (LBS) 4. ACCECORIES INTERIOR: • Kursi • Plate Aluminium • Rak Barang • Lis Karet • Ceiling Fan • Exshaust Fan • Melamine Plastic Hard Board • Single/Double Leaf Door Engine • Flush Valve • Ceiling Speaker • Hand Shower • Gas Spring • Cable WL • Heated Cabinet • Cold Storage • Insulation Material • Microwave • Read Lamp Cleff • Karpet Floor • Vinyle Floor • Double Hook • Lonleum 5. MODULE LAVATORY: • Module Floor Stainless Steel • Module GFRP • Resin • Gelcoat • Mat Strand 1. AUTOMATIC COUPLER ASSY 2. COUPLER BODY 3. KNUCKLE 4. RUBBER DRAFT GEAR 5. TWIST LOCK
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B9	ALAT BANTU:	1. SAFETY AUXILLARY: • Fire Extinghuiser • Day Light Signal Arrangement • Head Light Assy • Fire Signal Device with Fuse 2. INDICATOR SPEED AUXILLARY: • Speedo Meter • Auxliliary of Electric Connection • Terminal Connection • Fitting Parts 3. COUPLER ELECTRIC • MCB • Matching • Cable • Male/Female Connector • Cable Shoe • Crimping Equipment
B10	MESIN PENYEGAR UDARA	1. AIR CONDITIONER • Compressors • Motor Blower Evaporator • Condensor Coil • Thermostatic Expansion Valve • Filter Drier • Low and high Pressure Cut Out Switch • Discharge by Pass Valve • Contactor • Timer Relay • Mini Circuit Breaker (MCB) • Coil Evaporator • Motor + Fan Condensor • Fan Evaporator / Blower • Receiver Tank • Low Frequency Relay (LFR) • Low Voltage Relay (LVR) • Phase Sequence Relay (PHCR) • Connector Plug • Cassing Air Conditioner



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II	PRASARANA KERETA API	
A.	SISTEM PERSINYALAN KERETA API :	
	1. SIGNAL DIESEL GENERATOR	1. ENGINE CONTROLLER 2. VOLTAGE REGULATOR 3. DIESEL SPARE PARTS 4. GENERATOR SPARE PARTS
	2. POWER CUBICLE	1. CONTROL TRANSFORMER 2. CONTACT BLOCK 3. PHASE MONITOR 4. CIRCUIT BREAKER 5. AUTOMATIC TRANSFER SWITCH 6. CONTROL BOARD 7. AMMETER 8. VOLTMETER 9. STABILIZER 10. FUSES 11. FUSES
	3. SIGNAL POWER CUBICLE	1. TRANSFORMER 2. POWER SUPPLY 3. CIRCUIT BREAKER 4. VOLTMETER 5. AMMETER 6. AUX CONTACT 7. INDICATION LAMP 8. BYPASS SWITCH 9. INVERTER 10. BATTERY CHARGER 11. BATTERY BANK
	4. BATTERY CHARGER	1. POWER FAILURE SWITCH 2. CONTROL BOARD 3. AMMETER 4. VOLTMETER 5. TRANSISTOR POWER STAGE 6. SILICON DIODE 7. OUTPUT BYPASS ASSEMBLY
	5. INVERTER	1. CONTROL BOARD 2. REVERSE POLARITY CIRCUIT BOARD 3. VOLTMETER 4. DUAL SCR MODULE 5. POWER BLOCK



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		6. TRANSISTOR MODULE 7. STATIC TRANSFER SWITCH 8. FREQUENCY METER 9. TRANSFORMER
	6. PERALATAN TELEKOMUNIKASI UNTUK PERSINYALAN	1. TELEPHONE CONCENTRATOR 2. TELEPHONE CONSOLE 3. SIGNAL POST TELEPHONE 4. LEVEL CROSSING TELEPHONE 5. TALK BACK 6. MASTER TALK BACK 7. CHECK LOG SPARE PARTS 8. MODEM OPTICAL FIBER SPARE 9. COMMUNICATION PARTS
	7. PANEL (LOKAL & PUSAT)	1. CONTROL PANEL / WORKSTATION 2. VIDEO DISPLAY UNIT (VDU) 3. PUSH BUTTON 4. INDICATION LAMP / LED 5. KEY SWITCH 6. TRACKER BALL 7. MOUSE 8. COVER PLATE 9. MIMIC PANEL 10. FRAME 11. PROGRAMMABLE LOGIC CONTROL
	8. RACK MODUL	1. RACK MOUNTING SPARE 2. RELAY 3. RELAY HOLDER 4. CASE & FRAME INVERTER 5. EQUALIZER 6. RESISTOR 7. POWER SUPPLY 8. TRANSFORMER 9. EARTHING / LIGHTNING PROTECTION MATERIAL *)
	9. WAYSIDE SPARE	1. POINT MACHINE PARTS 2. RODDING 3. ELECTRIC LOCK PARTS 4. POINT DETECTOR PARTS 5. IMPEDANCE BOND 6. TRACK CIRCUIT PARTS 7. AXLE COUNTER PARTS 8. WHEEL DETECTION 9. RAIL INSULATION 10. INSULATED RAIL JOINT



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		11. RAIL CONNECTOR 12. SIGNAL HEAD PARTS 13. SIGNAL LAMP 14. SIGNAL LENS 15. LEVEL CROSSING PARTS 16. RAIL TOOLS
	10. VITAL PROCESSOR INTERLOCKING (VPI) (SISTEM PERSINYALAN VPI)	1. VPI MODULES 2. DC/DC CONVERTER 3. POWER SUPPLY 4. HARDNESS WIRE 5. PLUG COUPLER 6. VPI TESTER 7. VPI WORKSTATIONS / SOFTWARE 8. HAND HELD TERMINAL 9. LIGHTNING PROTECTION 10. RELAY 11. COMMUNICATION PARTS 12. FUSES
	11. ANSALDO (SISTEM PERSINYALAN ANSALDO)	1. GENISYS CONTROL SYSTEM 2. RELAY P 150 3. INDUSTRIAL RELAY REMOTE SWITCH RELAY 4. BLOCK SYSTEM EQUIPMENT 5. GENISYS WORKSTATION / SOFTWARE 6. TIMER CONTROL CARD 7. LIGHTNING PROTECTION 8. FUSES
	12. SOLID STATE INTERLOCKING (SSI) (SISTEM PERSINYALAN SSI)	1. MULTI PROCESSOR INTERLOCKING 2. PANEL PROCESSOR INTERLOCKING 3. DIAGNOSTIC MODULE 4. DATA LINK MODULE 5. TRACK FUNCTION MODULE 6. MULTIPLEXER SCANNER 7. TECHNICIAN TERMINAL 8. COMMUNICATION PARTS 9. SSI TESTER 10. SSI WORKSTATION / SOFTWARE 11. RELAYS 12. LIGHTNING PROTECTION 13. SURGE ARRESTER 14. FUSES



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	13. WESTRACE (SISTEM PERSINYALAN WESTRACE)	1. SUPPORT EQUIPMENT 2. CONSUMABLE SPARE 3. COMPULSARY SPARE 4. WESTRACE MODULES 5. TELEMETRY / CONTROL SYSTEM 6. OPTICAL FIBRE SPARE 7. COMMUNICATION PARTS 8. LEVEL CROSSING CONTROL 9. WESTRACE WORKSTATION / SOFTWARE 10. WESTRACE TESTER 11. LIGHTNING PROTECTION 12. RELAY 13. FUSES
	14. RELAY INTERLOCKING SYSTEM (MIS 801 & DRS 60)	1. MIS 801 MODULES 2. MODULE BLOCK SYSTEM 3. FUSE CATRIDGE 4. RELAY SIGNAL K 50 5. RELAY SIGNAL DRS 60 6. FREQUENCY BLOCK MODUL
	15. GENERA LOGIC 1 (GL - 1)	1. CPU BOARD 2. MEMORY BOARD 3. INPUT / OUTPUT MODULE 4. DC/DC CONVERTER 5. RELAY 6. LIGHTNING PROTECTION 7. FUSES
	16. SINYAL MEKANIK	1. SUKU CADANG BLOK 2. KAWAT BAJA 3. KONTAK REL 4. KUNCI LISTRIK 5. RODA KAWAT 6. TOKEN LESS BLOCK 7. SUKU CADANG INTERLOCKING 8. PERKAKAS HENDEL 9. SUKU CADANG TIANG SINYAL 10. SEMAT 11. SUKU CADANG WESEL 12. RANTAI LORAK 13. SUKU CADANG SALURAN KAWAT



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B.	ALIRAN ATAS (OHC) (KHUSUS KERETA REL LISTRIK / KRL)	1. LIGHTNING ARRESTER 2. STEADY BRACE 3. SECTION INSULATOR 4. HALF SECTION 5. STEADY ARM SYNTHETIC 6. HANGER INSULATOR 7. CROSS CLAMP 8. FEED EAR 9. FRP 10. DISCONNECTING SWITCH 11. SUSPENSION INSULATOR 12. POLE BAND 13. WIRE CLIP 14. COMPRESSION DEAD END CLAMP 15. DEAD END FITTING 16. COMPRESSION TEMS 17. SLEEVE 18. COMPRESSION ANCHOR FITTING 19. COMPRESSION TERMINAL 20. CONNECTOR CLAMP 21. DOUBLE EAR 22. HANGER EAR 23. HANGER BAR 24. WIRE TERMINAL 25. AUTOMATIC TENSIONING DEVICE 26. WIRE TURBUCKLE 27. FULL OF FITTING 28. LINE GUARD 29. ARCHING HORN 30. SUPPER STANDED WIRE 31. CV CABLE 32. CABLE HEAD 33. TROLLY WIRE 34. DRUM JACK 35. WITH SHAFT FOR M-T 36. TENSION METER 37. TENSION HOIST 38. HAND WINCH 39. VOLTAGE DETECTOR 40. INSULATED LADDER 41. CATTENARY MEASURING 42. STEEM INSULATOR FOR 1500 VDC
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C.	GARDU LISTRIK (KHUSUS KERETA REL LISTRIK / KRL)	1. FIXET CONTACT 2. MOVING CONTACT 3. MOVABIC ARC. CONTACT HSCB 4. FIXING ARC. CONTACT HSCB 5. VOLTAGE SENSOR 6. UPS REMOTE CONTROL 7. MODUL DO 8. MODUL DI MODEM 9. MODUL CPU 10. POWER UNIT 11. POWER UNIT SIGNAL HARDCABIN 12. OPEN CURRENT RELAY 13. MOTOR CHARGING 14. ISOLATING MEASURING AMPLIFIER 15. RELAY 126C 16. BOARD 1500 VRS IN TC (RSS) 17. RECUIVIER 3 MW 18. AUXILIARIES BOARD IN RSS 19. AUTOMATIC PROGRAMMABLE 20. LOW VOLTAGE 21. CABLE 22. CABLE DC 1500 V 23. LIGHTNING ARRESTER IN CIRCUIT BREAKER 24. CABINET 25. EARTHING SYSTEM 26. HIGHT SPEED CIRCUIT BREAKER 27. VACUUM CIRCUIT BREAKER 28. REMOTE SUPERVISORY CONTROL 29. FUSE ELEMENT 30. AUXILIARY RELAY 31. DELTA I RELAY 32. DC REVERSE 33. OVER CURRENT RELAY 34. DC RECORDING AMMETER 35. CLOSSING COIL 36. TRIPPING COIL 37. BATTERY OF SUBSTATION 38. CR-700 2 SUBRACKS FOR CENTRAL CONTROLLER 39. PS 951 POWER SUPPLY MODULE 40. CPU MODULE FOR CENTRAL TASK 41. ADAPTOR CASING 42. TM 11 SU TRANSMISSION 43. 490-7 DIGITAL INPUT MODULE 44. IM 306 INTERFACE MODULE FOR 35-11SU/F 45. CENTRAL UNIT CUDI WITH DROP 46. DIGITAL SIGNAL CHANNEL V24 47. REGENERATIVE REPEATER 2G 48. LINE UP TERMINAL UNIT LTC
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		49. MODEM MB 124 50. CAPASITOR 51. DISCONNECTIN SWITCH 52. TEST EQUIPMENT 53. TOOL FOR SUBSTATION
D.	SISTEM TELEKOMUNIKASI KERETA API	
	1. SISTEM RADIO MIKROWAVE DIGITAL/ ANALOG KERETA API	1. DIGITAL TRANSMITTER 2. MODULATOR 3. UP CONVERTER 4. LOCAL OSCILATOR 5. AMPLIFIER RF 6. DIGITAL RECEIVER 7. DEMULATOR 8. DOWN CONVERTER
	2. SISTEM ANTENA PARABOLA	1. 2 M GRIDPAK ANTENA 2. 3 M GRIDPAK ANTENA 3. 4 M GRIDPAK C/W 4. MOUNTING 5. TOWER
	3. SISTEM CATU DAYA	1. GENERATOR 2. GENSET 3. RECTIFIER 4. BATTERY 5. PANEL DISTRIBUTION 6. FILTER SOLAR CELL 7. SOLAR CELL 8. PANEL SOLAR CONTROL FLC
	4. PERALATAN DIGITAL / ANALOG MULTIPLEKS	1. THIN ORDER MULTIPLEX 2. SECOND ORDER MULTIPLEX 3. PRIMARY PCM MULTIPLEX 4. DROP/INSERT MULTIPLEX 5. FDM MULTIPLEX 6. TERMINATING CIRCUIT CARD
	5. TRAIN DISPATCHING SYSTEM (SISTEM PENGATURAN PERJALANAN KERETA API)	1. TERMINAL EQUIPMENT 2. RELAY STATION VHF 3. LINK EQUIPMENT 4. WAY STATION RADIO 5. WAY WIRE STATION 6. LOCOMOTIVE RADIO 7. UTILITY RADIO SYSTEM BASE STATION RADIO 8. URS WAY STATION RADIO 9. URS LOCOMOTIVE RADIO



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		10. TD LOGGER CARTRIDGE TAPE
	6. REMOTE CONTROL SUPERVISORY SYSTEM	1. RSC REGIONAL CONTROL CENTRE 2. COMBINED SCCRSC 3. SUB STATION 4. SENSOR ACCESSORIES
	7. SENTRAL TELEPON OTOMAT KERETA API (TOKA)	1. BASIC SYSTEM EQUIPMENT 2. PROCESSOR MAGAZINE 3. COMMON CARDS 4. PORT CARDS 5. LINE FILTER MAGAZINE 6. GROUP SWITCH MAGAZINE 7. POWER EQUIPMENT
	8. JARINGAN TELEX KERETA API	1. TWKP 2. KLV 3. T 100 4. T 1000 S 5. AT & T 6. T 1200
	9. SALURAN FISIK	1. FIBRE OPTIC CABLE 2. GROUND CABLE 3. OPEN WIRE 4. AIR CABLE 5. DROP WIRE 6. XLPE CABLE
E.	SUKU CADANG PERALATAN DI BALAI YASA	1. RADIO LINK EQUIPMENT SPARE UNIT 2. POWER SUPPLY EQUIPMENT SPARE UNIT 3. PCM MULTIPLEX SPARE UNIT 4. TRAIN DISPATCHING SPARE UNIT 5. SUPERVISORY SYSTEM SPARE UNIT 6. TEST EQUIPMENT 7. SYSTEM SPARE UNIT 8. TRAINING EQUIPMENT WORKSHOP FACILITIES 9. DIGITAL TRANSMITTER (TX) 10. TRANSMISSION ANALYZER (RX) 11. SPECTRUM ANALYZER 12. CHANEL SET PCM 5 13. RADIO COMMUNICATION TESTER 14. MICROWAVE REPEATER CHECKER 15. MICROWAVE FREQUENCY COUNTER 16. PORTABLE OSCILLOSCOPE



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		17. JITER MODULE 18. RTU INPUT MODULE TEST BOX 19. 2 W TEST BOX 20. TOOL KIT 21. V.S. TESTER 22. ATENUATOR SET 23. BIT ERROR TATE SET 24. AEMC PROBE 25. LEVEL METER 26. SIGNAL GENERATOR 27. FMP3 (MOBILE RADIO SET) 28. POWER METER 29. AUDIO GENERATOR 30. POWER SUPPLY 31. SWR 32. MULTIMETER 33. LCR METER 34. LOGIC PROBE & PULSER 35. IC TESTER 36. MECHANICAL WORKSHOP FACILITIES
F.	JALAN REL DAN JEMBATAN KERETA API	1. RAIL 2. SWITCH / TURN OUT 3. RAIL FASTENING 4. SLEEPER (BANTALAN) 5. STEEL BRIDGES 6. BALLAST (BALAS UKURAN 2X6 CM)
G.	FASILITAS STASIUN KERETA API	1. SISTIM TAYANGAN JADUAL KA 2. CCTV UNTUK TIKETING KA 3. VENDING MACHINE (KARTU TIKET KA) 4. AUTOMATIC LOCKER
III	PERALATAN UNTUK PERBAIKAN / PEMELIHARAAN KERETA API	1. Hand Tie Temper Machine (HTT) 2. Multi Tie Temper Machine (MTT) 3. Ballast Profiling Machine (PBRUSP/SSP) 4. Ballast Compactor Machine (VDM) 5. Ballast Cleaning Machine 6. Rail Welding Machine (K344 APT) 7. Universal Purpose Machine (TG) 8. Track Recording Car (EM 120) 9. Hydrolic Tamping Machine (HTM) 10. Track Motor Car 11. Rail Jack 12. Track Gauge Measurenicat Device 13. Rail Optic 14. Rail Lubricator



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		64. Reamer 65. Special Steel for Machine Purpose 66. Water Pump 67. Tackle Block 68. Steel Reinforement 69. Pneumatic Concrete Breaker 70. Bubut Roda 71. Bubut Umum 72. Mesin Tes Pegas 73. Bagie Cam Industry equipment 74. Soil Invetigation 75. Soil Laboratory 76. Ballast Testing 77. Geodetic
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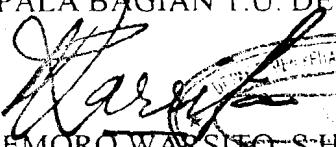
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Salinan sesuai dengan aslinya
KEPALA BIRO UMUM

BOEDIONO

u.b.

KEPALA BAGIAN T.U. DEPARTEMEN


KOEMORO WARSITO, S.H.
NIP 060041898

