

LAMPIRAN I KEPUTUSAN MENTERI KEUANGAN REPUBLIK INDONESIA

NOMOR : 329/KMK.04/1999

TANGGAL : 18 Juni 1999

TENTANG : PENETAPAN KAPAL, PESAWAT UDARA, KERETA API, SERTA SUKU CADANG DAN PERALATAN UNTUK PERBAIKAN/PEMELIHARAANNYA SEBAGAI BARANG KENA PAJAK YANG BERSIFAT STRATEGIS UNTUK PEMBANGUNAN NASIONAL

**DAFTAR SUKU CADANG KAPAL DAN ALAT KESELAMATAN  
PELAYARAN / KESELAMATAN MANUSIA**

NO	KELOMPOK	NAMA BARANG
<b>I</b>	<b>HULL EQUIPMENT</b>	
1	HULL EQUIPMENT	- NATCH AND MANHOLE - MAST - POST RIGGING - ANCHORING AND MOORING - LIFESAVING EQUIPMENT AND BOT DAVIT - AWNING AND CANVAS WORK - LADDER AND STAIRWAY - RAIL - STANCHION AND DAVIT - SKYLIGHT AND REMOVABLE PLATE - GATE HOLE - RAMP DOOR
2	DECK MACHINERY	- PARTS FOR WINDLASS - MOORING WINCH - CAPSTAN - BOATW INCH - STEERING GEAR - LIFT - HANDLING NOIST - 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
5	VENTILATION AND AIR CONDITIONING	- SHIF AIR CONDITIONING SYSTEM - MECHANICAL VENTILATION - NATURAL VENTILATION
6	NULL PIPING SYSTEM	- WATER BALLAST SYSTEM - BALLAST CONTROL SYSTEM - FUEL OIL FILLING AND TRANSFER LINE - DECK WASH SYSTEM - BILGE AND SCUPER - 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 - DI CCA NAVIGATOR - SATELLITE NAVIGATOR - LORAN C RECEIVER - CENTRAL CLOCK SYSTEM

		<ul style="list-style-type: none"> <li>- HORN CONTROL SYSTEM</li> <li>- WINDOW WIPER</li> <li>- ANEMOMETER AND ANEMOSCOPE</li> <li>- LOADING COMPUTER</li> </ul>
<b>II</b>	<b>MACHINERY PART</b>	
8	MAIN PROPULSION UNIT	<ul style="list-style-type: none"> <li>- PART AND EQUIPMENTS FOR MAIN</li> <li>- PROPULSION DIESEL</li> <li>- MAIN PROPULSION STEAM /GAS TURBINE</li> </ul>
9	SHAFTING AND PROPELLER	<ul style="list-style-type: none"> <li>- SHAFTING</li> <li>- BEARING</li> <li>- STERN TUBE</li> <li>- PROPELLER AND ITS ACCESSORIES</li> <li>- CLUTCH AND GEAR BOX</li> </ul>
10	STEAM GENERATING PLANT	<ul style="list-style-type: none"> <li>- PART AND EQUIPMENT FOR STEAM GENERATING PLANT</li> <li>- FITTING AND ACCESSORIES</li> <li>- UPTAKE AND FUNNEL</li> <li>- BURNER CONTROL</li> </ul>
11	ELECTRIC GENERATING PLANT	<ul style="list-style-type: none"> <li>- PARTS AND EQUIPMENTS FOR MAIN GENERATOR ENGINE/TURBINE</li> <li>- AUXILIARY GENERATOR ENGINE/TURBINE</li> <li>- EMERGENCY GENERATOR ENGINE</li> </ul>
12	CONDENSING EQUIPMENT	<ul style="list-style-type: none"> <li>- PARTS FOR MAIN CONDENSER</li> <li>- AUXILIARY CONDENSER</li> <li>- MAIN CONDENSER VACUUM PUMP</li> <li>- GLAND EXHAUST FAN AND GLAND STEAM CONDENSER</li> </ul>
13	PUMPS	<ul style="list-style-type: none"> <li>- PARTS AND EQUIPMENT FOR MAIN FEED WATER PUMP</li> <li>- CENTRIFUGAL PUMP</li> <li>- AXIAL PUMP</li> <li>- ROTARY PUMP</li> <li>- RECIPROCATING PUMP</li> </ul>
14	AIR COMPRESSOR, RESERVOIR AND FAN	<ul style="list-style-type: none"> <li>- PARTS AND EQUIPMENT FOR MAIN/AUXILIARY STARTING AIR COMPRESSOR</li> <li>- CONTROL AND SHIP SERVICE AIR COMPRESSOR</li> <li>- EMERGENCY STARTING AIR COMPRESSOR</li> <li>- AIR RESERVOIR</li> <li>- FORCE DRAFT FAN</li> <li>- GLAND EXHAUST FAN</li> <li>- BOILER HOOD EXHAUST FAN</li> <li>- CONTROL AIR DRYER</li> </ul>
16	MACHINERY PIPING SYSTEM	<ul style="list-style-type: none"> <li>- PART AND EQUIPMENT FOR FEED WATER HEATER</li> <li>- LUBRICATING OIL COOLER</li> <li>- DRAIN COOLER</li> <li>- FUEL OIL HEATER</li> <li>- FRESH WATER COOLER</li> <li>- DISTILLING PLANT</li> <li>- AND OTHER HEAT EXCHANGER OF MACHINERY'S ACCESSORY</li> </ul>
17	VALVE	<ul style="list-style-type: none"> <li>- VALVE FOR SEA WATER</li> <li>- FEED WATER</li> <li>- FUEL OIL</li> <li>- LUBRICATING OIL</li> <li>- CONDENSATE</li> <li>- FRESH WATER AND AIR</li> <li>- PRESSURE SAFETY VALVE</li> <li>- PRESSURE VACUUM/RELIEF VALVE</li> </ul>
18	AUTOMATIC, REMOTE CONTROL AND INSTRUMENTATION	<ul style="list-style-type: none"> <li>- NAVIGATION CONTROL</li> <li>- ENGINE MONITORING SYSTEM</li> <li>- CARGO MONITORING SYSTEM</li> <li>- STEAM PLANT MONITORING SYSTEM</li> <li>- MISCELLANEOUS DEVICES</li> <li>- FIRE AND GAS DETECTOR</li> <li>- FIRE FIGHTING APPARATUS</li> <li>- RELATED INSTRUMENTATION AND CONTROL</li> </ul>
19	OTHERS	<ul style="list-style-type: none"> <li>- ENGINE HANDLING HOIST</li> <li>- ENVIRONMENT PROTECTION EQUIPMENT</li> <li>- HEATING COIL</li> <li>- PURIFIER</li> </ul>
<b>III</b>	<b>ELECTRIC PART</b>	
20	LIGHTING EQUIPMENT	<ul style="list-style-type: none"> <li>- ELECTRIC SHIP LIGHT</li> <li>- EMERGENCY LIGHT</li> <li>- PORTABLE LAMP</li> <li>- SWITCH</li> <li>- RECEPTACLE AND COMBINATION OUTLET BOX</li> </ul>

21	INTERIOR COMMUNICATION EQUIPMENT	<ul style="list-style-type: none"> <li>- PARTS FOR COMMON BATTERY</li> <li>- AUTOMATIC EXCHANGE TELEPHONE SYSTEM</li> <li>- LOUDSPEAKING SYSTEM</li> <li>- GENERAL ALARM</li> <li>- FIRE ALARM</li> <li>- HALON/CO2 ALARM</li> <li>- TRANSCEIVER SYSTEM</li> <li>- ENGINE ORDER TELEGRAPH</li> <li>- SHAFT REVOLUTION AND RUDDER ANGLE INDICATOR</li> </ul>
22	RADIO EQUIPMENT	<ul style="list-style-type: none"> <li>- RADIO TELEGRAPH AND TELEPHONE</li> <li>- LIFEBOAT PORTABLE RADIO EQUIPMENT</li> <li>- RADIO BEACON</li> <li>- VHF RADIO TELEPHONE</li> <li>- SATELLITE COMMUNICATION SYSTEM</li> <li>- WEATHER FACSIMILE</li> <li>- ANTENNA MULTICOUPLER</li> <li>- SHIP'S TELEPHONE</li> <li>- BROADCASTING RADIO RECEIVER</li> <li>- TELEVISION RECEIVER AND ANTENNA</li> <li>- STEREOPHONIC TAPE PLAYER</li> </ul>
23	ELECTRIC CABLE AND TOOLS	<ul style="list-style-type: none"> <li>- ELECTRIC CABLE AND ITS RELATED ACCESSORIES</li> <li>- SWITCHBOARD</li> <li>- BATTERY CHARGING SYSTEM</li> <li>- ELECTRIC MOTOR AND MOTOR CONTROL</li> <li>- GROUP STARTER PANEL</li> <li>- MAIN EMERGENCY SWITCHBOARD</li> </ul>
<b>IV</b>	<b>CARGO PART</b>	
24	CARGO HANDLING MACHINERY	<ul style="list-style-type: none"> <li>- PARTS FOR CARGO HANDLING MACHINERY, SUCH AS</li> <li>- CARGO HOSE</li> <li>- CARGO PUMP</li> <li>- CARGO HEATER</li> <li>- CARGO MEASURING EQUIPMENTS</li> <li>- INERT GAS GENERATOR PLANT</li> <li>- TANK CLEANING EQUIPMENT</li> <li>- BUTTERWORTH HEATER</li> <li>- SELF UNLOADING</li> </ul>
25	CARGO CONTROL AND INSTRUMENTATION	<ul style="list-style-type: none"> <li>- CARGO CONTROL SYSTEM</li> <li>- PRESSURE AND TEMPERATURE MEASUREMENT</li> <li>- CARGO TANK LIQUID LEVEL INDICATOR AND ALARM SYSTEM</li> <li>- PORTABLE CARGO MEASUREMENT SYSTEM</li> </ul>

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Kepala Biro Umum  
u.b.  
Kepala Bagian Tata Usaha Departemen

Menteri Keuangan,  
  
ttd.  
  
Bambang Subianto

Mustafa Husien, S.H.  
NIP. 060051103

LAMPIRAN II KEPUTUSAN MENTERI KEUANGAN REPUBLIK INDONESIA

NOMOR : 329/KM.K.04/1999

TANGGAL : 28 Juni 1999

TENTANG : PENETAPAN KAPAL, PESAWAT UDARA, KERETA API, SERTA SUKU CADANG DAN PERALATAN UNTUK PERBAIKAN/PEMELIHARAANNYA SEBAGAI BARANG KENA PAJAK YANG BERSIFAT STRATEGIS UNTUK PEMBANGUNAN NASIONAL

**DAFTAR SUKU CADANG DAN PERALATAN  
UNTUK PERBAIKAN / PEMELIHARAAN PESAWAT UDARA**

NO	KELOMPOK BARANG	ARTICLE	FSC
1.	Suku Cadang Rangka Pesawat Komponen (pesawat udara dan perlengkapan kursi, brake, landing gear, dll.	Antraric parts, Aricarft component and related accesories, com posite.	1560, 1610, 1615, 1620, 1630, 1650, 1680
2.	Ban luar dan dalam pesawat udara (baru dan vulkanisir)	Aircraft New Tires, Retreated Tires, and Tabes, Penumatic of Rubber.	2620
3.	Mesion 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 rocket pendorong pesawat udara dan suku cadangnya.	Rocket Engine and Related Parts.	2845, 2860
6.	Mesin bantu pesawat udara dan suku cadangnya.	Aircraft auxiliary power unit (APU) and related parts.	2840, 6195
7.	Perlengkapan mesin terbang untuk jenis mesin lorak, jenis mesin gas turbin, mesin jet, mesin roket dan mesin bantu.	Engine Accessories of Aircaft 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 Unm ounted.	3110
9.	Bantalan-bantalan luncur tanpa penopang.	Bearing Plain Unm ounted.	3120
10.	Bantalan-banlatan dengan penopang	Bearing Mounted	3130
11.	Alat pendingin dan alat pendingin udara, peralatan pemanas dan peralatan tekanan udara.	Reingerator and Air Conditioning, Heating & Pressuizing Equipm ent for Aircraft	1660
12.	Kipas, peralatan sirkulasi udara dan peralatan peniup angin untuk pesawat udara.	Farts, Air Circular dan Blower Equipm ent for Aircraft	1660
13.	Alat pemadam kebakaran pesawat udara dan perlengkapan.	Fire Fighting Equipm ent and Related Accessories	4210
14.	Peralatan keamanan dan keselamatan untuk pesawat udara beserta perlengkapannya.	Safety and Resque Equipm ent and Related Accessories	4220
15.	Peralatan untuk sistem instalasi pipa dan perlengkapannya, rak seiber, dispenser, dan katup pembersih bowl.	Plum bing Fictures and Accessories, Dispenser Towel Rack, Flush Valve, Sink.	4510
16.	Peralatan pemanas ruang dan tangksi penyimpanan air panas untuk pesawat udara.	Spare Heating Equipm ent and Domestic Water Heater Storage Tank for Aircraft.	4520
17.	Pipa dan selang untuk pesawat udara.	Pipe and Tube for Aricraft House and Tubing for Aircraft.	4710, 4720
18.	Macam-macam sambungan pipa, selang yang terbuat dari karet dan metal untuk pesawat udara.	M iscellaneous Fitting for House, Pipe and Tube used for Aircraft.	4730
19.	Sekrup	Serews.	5306
20.	Baut	Bolts	5306
21.	Baut Tanam		5307
22.	Mur dan Ring	Moors and Washers	5310
23.	Kunci Paku dan Pasak	Nails, Keys and Pins	5315
24.	Paku Keling	Rings	5320
25.	Alat-alat Pengencang	Fastening Devices	5825
26.	Material untuk Packing and Gasket	Packing and Gasket Material	5330
27.	Bermacam-macam Pegas	Dod, Flat and W ire Spring	5360
28.	Ring, Shim and Spacer	Rings, Shim s, and Spacer	5365
29.	Peralatan Komunikasi Radio dan Televisi, termasuk Sistem Valeo, Entertainment untuk pesawat udara.	Radio and Television Comm unication 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 Microphones and Speakers for Aircraft	5831, 5965
32.	Peralatan Radar untuk Pesawat Terbang	Radar Equipment for Aircraft	5841
33.	Modul-modul elektronik	Electronics Moduls.	5963
34.	Antenne Tabung Penghantar Gelombang beserta peralatannya	Anetennas, Wave Guide and Related Equipment.	5985
35.	Konduktor Serat Optik	Fiber Optic Conductor	6015
36.	Kabel Serat Optik	Fiber Optic Cabies.	6020
37.	Rakitan Kabel Serta Optik	Fiber Optic Cables Assemblies and Harusseses	6020
38.	Peralatan Serat Optik	Fiber Optic Devices	6030
39.	Sam bungan Serat Optik	Fiber Optic Intercepneet	6060
40.	Perlengkapan Serat Optik dan Suku Cadangnya	Fiber Optic Accessories and Supplies	6070
41.	Perangkap Serat Optik	Fiber Optic Kits and Sets	6080
42.	Motor Listrik	Motors Electrical	6105
43.	Generator, Starter Generator dan suku cadangnya untuk pesawat udara	Generator and Starter Generator, Electrical Parts for Aircraft	2926, 6115
44.	Fuel Cell Power unit beserta komponen dan perlengkapannya	Fuel Ceil Power Unit Component and Accessories	6116
45.	Alat Pengubah Arus Listrik, berputer maupun yang tidak berputar	Electrical Converters, Rotating and Non Rotating	6125, 6130
46.	Baterai Pesawat Udara yang dapat diisi kembali	Batteries, Rechargeable	6140
47.	Lam pu-lam pu Pesawat Udara, Ballast Pegangan Lam pu, Starter dan perlengkapannya	Electrical Vehicular, Light and Fairs, Electrical Portables, Hand Lighting Equipment, Electrical Lamp Baliast, Lam ps Holder, Stariers, 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 Instrum ents	6605
50.	Instrumen Pesawat Udara	Flight Instrument	6610
51.	Peralatan Pengontrol Otomatis seperti Kom puter Pengendali Pesawat dan Suku Cadangnya	Automatic Pilot Machine such as Roll, Yaw and Pitch Com puter and Aircraft Gyro and Related Parts.	6615
52.	Instrumen Mesin	Engineer Instrum ent	6620
53.	Alat Ukur Instrumentasi Catmin dan Gas serta Alat Ukur Mekanis.	Liquid and Gas Glow, Ligid Level and Mechanical Motion Measuring Instrument.	6680
54.	Instrum entasi Pengukur dan Pengendali Tekanan, Suhu dan Kelembaban.	Prsure, Temperature, Hum idity, Measuring and Controlling Instrum ent.	6685
55.	Perlengkapan Kabin, Kursi, Sarung, Kursi Lapis di dinding untuk Pesawat Udara.	Household Furnishing, Sent Cover, Wall Paper for Aircraft.	7210
56.	Tirai, Krey dan Gordin pada pesawat Udara.	Draperies Awnigs and Shades for Aircraft.	7230
57.	Peralatan Dapur Pesawat Udara (Pemas, Pembuat Kopi, Pendingin dan lain-lain) beserta perlengkapan pelayanannya.	Food Cooking, Baking and Serving Equipm ent (Oven, Coffee Maker, Retrigrator, etc) for Aircraft.	7310
58.	Kontainer Khusus Pesawat Terbang, Pengikat Kargo dan Peralatannya.	Spemalized Shipping, Storage Contaner, Cargo Tie Down and Equipment.	8145, 1670
59.	Bermacam-macam bahan bukan Metal untuk Cuku Cadang.	M iscellarious, Fabricated, Non Metallic Materials.	9390
60.	Batang dan Batang Kecil dari Besi dan Baja.	Bars and Rods, Iron and Steel, Allum m unium .	9810
61.	Papan-papan identifikasi dan tanda-tanda.	Sign Identification, Plates	9905
62.	Alat-alat Ukur Prests, untuk Pesawat Udara.	Pressision and Measuring Toots for Aircraft.	5210, 5220
63.	Peralatan Simulasi dan Pendukung Pelatihan Penerbang, Teknisi dan Awak Cabin, beserta Suku Cadangnya.	Training Aids and Operations 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	Electrical and Electronic Properties	6625

	Pengetesan Elektronik Pesawat Terbang.	Measuring and Testing Instruments.	
66.	Motor Pembilas	Motor	4630

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Menteri Keuangan,  
  
ttd.  
  
Bambang Subianto

Mustafa Husien, S.H.  
NIP. 060051103

NOMOR : 329/KM K.04/1999

TANGGAL : 28 Juni 1999

TENTANG : PENETAPAN KAPAL, PESAWAT UDARA, KERETA API, SERTA SUKU CADANG DAN PERALATAN UNTUK PERBAIKAN/PEMELIHARAANNYA SEBAGAI BARANG KENA PAJAK YANG BERSIFAT STRATEGIS UNTUK PEMBANGUNAN NASIONAL

**DAFTAR SUKU CADANG DAN PERALATAN  
UNTUK PERBAIKAN / PEMELIHARAAN SERTA PRASARANA KERETA API**

NO	KELOMPOK	NAMA BARANG
1.	<b>MESIN : LOKOMOTIF, KERETA REL DIESEL, PEMBANGKIT LISTRIK</b>	<p><b>a. Mekanis Engine :</b> Main Frame Assembly, Crank Case Assembly, Cover From End, Cover Crank Case Inspection, Dipstick Assembly, Metal Oil Charge/Main Bearing, Cam shaft Gear, Camshaft Assembly, Bearing Pin, Crank Surf Assembly, Timing Gear, Balaned Shaft/Idler Shak &amp; Gear, Cylinder Liner Assembly, Connecting Rod Assembly, Piston Assembly, Cover wilo, Nub, Jacking Ring, Pump/Gear, Lube Oil, Breather, Cylinder Head, Praihamber, Rocket Support, Valve Governor, Over Governor, V-Belt, Ring, Seal, Olvesi, Sleeve, DCA liquid, Gasket, Test Kit, Sting, Collar, Hose Turbe Super Charger.</p> <p><b>b. Air Intake System :</b> Air Inlet, Air Cleaner, Air Filter, Turbo Super Changer, Air Piping &amp; Fitting, Air Intake Mainfold, Entake Manifold, Stack.</p> <p><b>c. Cooling System :</b> Cooler Drive With Cooling Plat, Voith Cooling Lan, Cooler Joint, Varamble Speed Fan With Inspektor, Water Tank, Water Inlet Header, Deciarage Header, Piping Radiator, Fan Drive, Valve Assy, Water Treatment, Tem peratur Control For Cooling Water.</p> <p><b>d. Fuel System :</b> Fuel Tank Arrangenael, Fuel Tank, Fuel Strainer, Fuel Slicetion Pump, Fuel Nozzle Assy, Fuel Piping &amp; Fitting, Fuel Pump With DC Motor, Fuel Filter Assy, Pre Fuel Tank.</p> <p><b>e. Lube Oil System :</b> Lube Oil Assy, Lube Oil Filter/Elemen, Lube Oil Cooler, Lube Oil Pipe System, Pump Assy, Oil Pump, Relay Valve, Oil Pessure Switch, Low Oil Switch.</p>
2.	<b>SISTEM KONTROL : LOKOMOTIF, KERETA REL DIESEL/LISTRIK, PEMBANGKIT LISTRIK</b>	Resistor Dynamic Brake, Thrystor Regulator Assy, Relay Connector, Interlock, Magnet Switch Revciser, Comiel Group, Compartment with Doors Cover, Panel, Terminal Board, Voltage Registor, Circuit Breaker, Dead Man Pedal System, Motor Start, Perssure Switch, Thornle Valve, Pantograph, GTO Inverler.
3.	<b>SISTEM TRANSMISI LISTRIK : LOKOMOTIF, KERETA REL LISTRIK</b>	<p><b>a. Traction Exciler, Aux. Generator :</b> Field Cols, Arnature, Gear Case, Brush Roider &amp; Carrun Brush, Power Take Oil Gera Unit, Bearing Auxillary.</p> <p><b>b. Traction Motor</b> Heaving Fleid Coils, Armature Gear Box, Brush Motor &amp; Carbon Brush, Bearing Duel TM, Accssories TM, Staring Motor Assy, Armature Shaft Pinien &amp; Draft Gear, Re m ing Kit, Traction Motor Assy.</p>
4.	<b>SISTIM TRANSMISI HIDROLIK LOKOMOTIF, KERETA REL DIESEL</b>	<p><b>a. Turbo Transm ission :</b> Hearing Assy, Filter Pump, Main Control, Output Drive, Reversing Valve, Step Up Gear, Gear Wheel, Cover Rotor Uniform Part, Input &amp; Output Drive Part, Intermediate Shaft Scicolor Fares. Selection Seavenger Pump, Transm ission, Electric Instrument, Pressure Switch.</p> <p><b>b. Gardan Shaft Assy :</b> Gardam Shaft, load Coupling.</p>
5.	<b>SISTEM PENGGEREMAN : LOKOMOTIF KERETA REL DIESEL/LISTRIK, KERETA GERBONG</b>	<b>a. Air Brake System :</b> Air Compressor and Spare Parts, Check Valve, Angine Cock, Hose Connection & Pipe, Drain Cock & Stop Cock, Valve Parts, Coupling Cylinder, Automatis Drivers, Brake Double Check Valve With Rubber Packing, Charge Over Cock, Charging Cut Off Pilot, Regulating Cylinder, Tast Ventel, Bell Horn, W ipper

<p>6. <b>BOGI</b>  <b>LOKOMOTIF, KERETA REL</b>  <b>DIESEL/LISTRIK, KERETA GERBONG</b></p>	<p>Arrangemeni, Brake Shoe, Slang Air Brake, Slack Adjustiel, Sinergency Brake, Inner Parts Distributor Valve.</p> <p><b>b. Hand Brake And Brake Mechanism :</b>  Hand Brake Lever, Sand Blaser.</p> <p><b>a. Bogie Assembly</b></p> <p><b>b. Wheel and Axle Assembly :</b>  Com bised/Wheel Set. Axle, Drive Gear, Journal Bearing, Bearing Axle Box.</p> <p><b>c. Journal Box and Spring Assembly</b></p> <p><b>d. Swing Rolster Assembly :</b>  Center Plate Assembly &amp; Center PI, Upper and Lower swing Bolster Assembly, Spring Assem bly, Horizonmi Oil Damper, Snubber, Rubber Bounded, Pegas Daun, Rabber Brock, Air Spring, Disc. Drake, Brake Pad, Block Rem , Colipper, Shock Absorber &amp; Kit, Banka Tin, Pin, &amp; Brush, Kawat Las Roda, Wear Plate, Tas Pot, King Pen, Swingen Pendal, Rabber Journal Spring, Bahan Baja Pegas.</p>
<p>7. <b>BODI</b>  <b>LOKOMOTIF, KERETA REL</b>  <b>DIESEL/LISTRIK, KERETA GERBONG</b></p>	<p><b>a. Under Prame and Platform :</b>  Body to Tractam Motor, Cable Connector Coopter Arrangement, Power Plant Mounting, Lever Arrangement, Cable Clumps Shet, Line Bumper &amp; Receptable, Pintform , Shic Sleps &amp; Wat Sale &amp; Battery Reseptable.</p> <p><b>b. Nesetable Assembly, Roof Flap to Engine</b></p> <p><b>c. Operators Cab Assembly :</b>  Cab. Acessories, Arrangement, Control Engine Gauge Panel, Sliding Window, Wing, Dome Light Arrangement, Dours Control Arrangement, Switch Sander, Engine Cab, Blower Unit, Signal Middle Front &amp; Rear.</p> <p><b>d. Lantai : Pelat Baja Gelombang Unitex</b></p> <p><b>e. Interior :</b>  Rangka Jendela, Kaca Jendela, Pelat Baja, Pintu, Kanel Kunci, Pelat Baja Kembang, Baja Kanal, Pipa Baja, Cat, Rubber Bellow .</p> <p><b>f. Accessories Interior :</b>  Kursi Plate Alum inium , Rak Barnag, Lis Karet, Ceiling Fan, Exhaust Fun, Melamine Plastic Hard Board.</p> <p><b>g. Module Lavatory :</b>  Module Floor Stainless Steel, Module GFRP.</p>
<p>8. <b>ALAT PERANGKAT OTOMATIS</b>  <b>LOKOMOTIF KERETA REL</b>  <b>DIESEL/LISTRIK, KERETA GERBONG</b></p>	<p>Automatic Coupler Assy, Coopley Body, Knuckle Rubber D rail Gear.</p>
<p>9. <b>ALAT BANTU</b>  <b>LOKOMOTIF, KERETA REL</b>  <b>DIESEL/LISTRIK, KERETA GERBONG .</b></p>	<p><b>a. Safety Auxliary :</b>  Day Light Signal Arrangement, Nead Light Assy, Fire Signal Device with Fuse, Water Treatment for Engine System .</p> <p><b>b. Indicator Speed Auxliary :</b>  Speeds Motor, Auxiliary of Electric Connection, Cable &amp; wire, Terminal Connection.</p> <p><b>c. Battery &amp; Kallilog</b></p> <p><b>d. Coupler Electric, MCB, Matching, Cable.</b></p>
<p>10. <b>MESIN PENYEGAR UDARA</b>  <b>LOKOMOTIF KERETA REL</b>  <b>DIESEL/LISTRIK KERETA</b></p>	<p>Motor Compressors, Blower, Condensor, Theprostate Expansion Valve, Filter Drier, Low &amp; High Pressure Cut Out Switch, Dischange By Pass Valve, Conlactur, Relay, Circuit Breaker.</p>
<p>II. <b>PRASARANA KERETA API</b></p>	
<p>1. <b>SISTEM PERSINYALAN KERETA API :</b></p> <p><b>a. SIGNAL DIESEL GENERATOR</b></p> <p><b>b. POWER CUBICLE</b></p> <p><b>c. SIGNAL POWER CEBICLE</b></p>	<p>Engine Controller, Voltage Regulator, Diesel Spare Part, Generator Spare Part</p> <p>Control Transformer, Contact Bloc Phase Monitor, Check Breaker, Automatic Transfer Switch, Control Bourd, Disconnecter Switch, Ammeter, Voltmeter.</p> <p>Breaker, Aux. Contact, Transformer Relay, Relay Socket, DC Multi Voltmeter, DC/AC Multimeter, AC Ammeter, Indicator Lamp, Bypass Switch Inverter, Battery Charger, Battery Bank.</p>

<b>d. BATTERY CHARGER</b>	Elec. Power Failure Switch, Electronic Control Basid, DC Ammeter, DC Voltmeter, Fuses, Transistor Power Stage, Silicon Diode Output Bypase Assembly.
<b>e. INVERTERS</b>	Electronic Control Board, Reverse Polarity Circuit Board, AC Voltmeter, Dual SCR Module, Power Block, Transistor Module Static Transfer Switch, Prequerey Meter, Transformer.
<b>f. PERALATAN TELEKOMUNIKASI UNTUK PERSINYALAN</b>	Telephone Concentrator, Telephone Console, Signal Post Telephone, Level Crossing Telephone, Talk Back, Master Talk-back, Check Log, Spare Part, Opucal Fiber Spare Communications.
<b>g. PANEL (LOKAL &amp; PUSAT)</b>	Control Panel, Work Station, Push Button, Key Switch, Tracker Ball, Mouse, Cover Plate, Minic Panel, Frame, Programmable Logic Controller, Indication Lamp.
<b>h. RAK MODUL</b>	Rack Mounting Spare, Relay Holder, Case & Prame Invertor, Equalizer, Resister, Power Supply, Transformer, Earthing / Lighting Protection Material.
<b>i). VITALPROCESSING INTERLOCKING (VPI)</b>	VPI Housing, Input Board, Output Board, PD Board, CPUPD Board, CSEX Board, DI Board, VRD Board, AC/DC Converter, Power Supply Vital / Non Vital, LO Bus, hardness Wire, Plug Coupler, Workstation, Hand Held Terminal.
<b>j. WAYSIDE SPARE</b>	Point Machine, Rodding, Electric Lock, Point Detector, Impedancy Bond, Track Circuit, Axle Counter, Pulser Transmitter, Pulsat Receiver, Wheel Detector, Axle Conter Evacuation, Axle Counter, Master Slave, Rail Insulation, Inslated Rail Joint, Rail Connector Tools, Signal, Signal Lens, Level Crossing, Rail Tools.
<b>k. SIGNAL ANSALDO (PERSINYALAN SISTEM ANSALDO)</b>	Genisys Control System, Relay P 150, Industrial Relay, Remote Switch Relay, Block System Equipment, Panel Control Spare Part, Genisys Workstation, Timer Control Card.
<b>l. SIGNAL SOLID STATE INTERLOCKING (SSI) (PERSINYALAN SISTEM SSI)</b>	Multi Processor Module, Panel Processor Module, Dat Link Module, Track Punchon Module, Multi Power, Seamer, Technician Terminal, Data Link, Diagnosure Module, Surge Arrester, Lighting Protection, Safety Fuses, SSI-Tester, SSI Workstation/Software.
<b>m. W ESTRACE INTERLOCKING (PERSINYALAN SISTEM W ESTRACE)</b>	Support Equipment, Consumable Spare, Compulsary Spaies, Westrace Module, Telemetry Control System Optical Fibre Spare, Communication, Level Crossing Control, Workstation, Earthing Material.
<b>n. PERSINYALAN SISTEM YPI - DBRI</b>	Vital Link TEMPL-20 System, M.K. Audio Frequency, Track Circuit T-21, Modem, TEMPL-41, Master Controller, Operator Control Unit, Transformer Power, DC/DC Converter, Panel Control Spare Part.
<b>o. SIGNAL MODULAR INTERLOCKING SYSTEM 801 (MIS 801)</b>	Module Mis.801, Module Block System, Fuse Cartridge, Cover Plate Optical Signal, Signal Lens, Relay Signal DRS-60, Relay Signal K-50.
<b>p. SINYAL MEKANIK</b>	Indicator Blok Kawat Baja 4 mm, Kawat Baja 5 mm, Kontak Rel Kunci Listrik, Roda Kawat, Token leas bluck laterlacking Spare Part, Perkakas Hendel, hendel, Lengan Sinyal, Semat, Roda Wesel.
<b>2. ALIRAN ATAS (OHC) (Khusus Kereta Rel Listrik / KRL)</b>	Lighting Arrester, Steady Brace, Section Insulator, Half Suction, Steady Ann, Synthetic, Hanger Insulator, Cruse Clamp, Feed Ear, FRP, Disconnecting Switch, Suspension Insulator, Pole Band, Wise Clip, Compression Dead End Clamp, Dead Und Fitting, Compression Tems, Sleeve, Compression Anchor Fitting, Compression Terminal Connector Clamp, Doubel Ear, Hanger Ear, Hanger Bar, Wire Terminal, Automatic Tensioning Device, Line Guard, Arching Horn, Copper Standard Wire, CV Cable, Cable Head, Trully, Wire, Drum Jack, With Shaft for M-T, Tension Meter, Tension Hoist, Hand Winch, Voltage Detector, Insulated Ladder, Caltenary Measuring.
<b>3. GARDU LISTRIK (Khusus Kereta Rel Listrik / KRL)</b>	Fixed Contact Moving Contact, Movable Are Contact MSCB, Fixing Are. Contact HSCB, Voltage Sensor, UPS Control, Module Do, Modul D1 Modem, Module CPU, Power Unit, Power Unit Signal. Open Current Relay, Motor Charging, Isolating, Measuring Apmplifier, Relay 126C, Board VRS in To (RSS), Rectifier 3 M2, Auxiliaries Board in KSS, Automatic Programmable, Low Voltage, Cable Including, Cable DC 1500 v, Lighting in Creunt Breaker, Cabinet, Earthing System Height Speed Circuit Breaker, Vacuum Circuit Auxiliary Relay, Delia I Relay, DC Reverse, Current Relay, DC Recording Ammeter, Closing Coil, Tripping Coil, Battery for Subtation, CR 700 - 2 Subracks for central Controller, PS 951 Power Supply

	Module, CPU Module for Central Task, Adaptor Casing, TM 11 SL Transmission, 490 Front Connector for Screw Terminal 430 - 7 Digital Input Module, IM 306, module for 35-11 SU/F, Central Unit "CUDP", Digital Signal Channel V24, Regenerative, Line Up Terminal Unit UTC, Modem Mis 124 Capentor, Disconnecting Switch, Test Equipment Tool for Substation.
<b>4. SISTEM TELEKOMUNIKASI KERETA API</b>	
<b>a. SISTIM RADIO MIKROWAVE DIGITAL/ANALOG KERETA API</b>	<b>Digital Transmitter :</b> Mikrowave Up Converter, Local Oscillator, Amplifier, Digital Receiver, Demodulator, Down Converter, Amplifier RP.
<b>b. SISTIM ANTENA PARABOLA</b>	2M Gridpak Antene, 3M Gridpak Antene, 4M Gridpak c w, Monitoring Tower.
<b>c. SISTIM CATU DAYA</b>	Generator : Genset, Rectifier, Battery, Panel, Filter Solar Cell, Solar Cell, Panel Control PLC, Rectifier, Battery.
<b>d. PERALATAN DIGITAL ANALOG MULTIPLEKS</b>	Third Order Multiplier, Second Order Multiplex, Primary PCM Multiple, Drop/Insert Multiplex, FDM Multiplex, Terminating Cireim Card.
<b>e. TRAIN DISPATCHING SYSTEM (SISTIM PENGATURAN PERJALANAN KERETA API)</b>	Terminal Equipment, Relay Statopm VHF, Lint Equipment, Way Station Radio, Way Wire Station, Utiliry Radio System Base Station Radio. URS Way Station Radio, URS Locomotif Radio, TD Logger Cartridge Tape, Lokomotif Radio.
<b>f. REMOTE CONTROL SUPERVISORY SYSTEM .</b>	RSCC Regional Control Centre, Combined SCC/RSCC, Sub Station Sensor Accessories.
<b>g. SUKUCADANG, PERALATAN UJI DI BALAI YASA</b>	Sream Link Equipment Spare Unit, Power Supply Equipment Spare, PCM Multiplex Spare Unit, Train Dispacrun System Spare Unit, Supervisory System Spare Unit, Test Equipment Microwave, Test Equipment PCM Multiplex, Test Equipment Spare Centre, Test Equipment Mauntenance, Training Equipment, Workshop.
<b>h. SENTRAL TELLTON OTOMAT KERETA API (TOKA)</b>	Base System Equipment, Processor Magazine, Part Cards, Line Filter Magazine, Group Switch Magazine, Power Equipment.
<b>i. JARINGAN TELEX KERETA API</b>	W KP.KLN. T 100, T 1000 S. AT & T.
<b>j. SALURAN FISIK</b>	Cable, Ground Cable, Open Wire, Air Cable Drop Wire, KLPE Cable.
<b>5. JALAN REL DAN JEMBATAN KERETA API</b>	Swich Turn Out, Rail Fastening, Sleeper, Steel Bridges.
<b>6. FASILITAS STASIUN KERETA API</b>	System Tayangan Jadwal KA, CCTV untuk Ticketing KA, Yending Machine (Kartu Ticket KA), Automatic locker.
<b>III. PERALATAN UNTUK PERBAIKAN / PEMELIHARAAN KERETA API</b>	Hand Tie Temper Machine (HTT), Multi tie Temper Machine (MTT), Ballast Profiling Machine (PBR/USP/SSP), Ballast Compactor Machine (VDM), Unilast Clearing Machine, Rail Welding Machine (K355 APT), Universal Purpose Machine (TG), Track Recording Car (EM 120), Hydrolic Tamping Machine (HTM), Track Motor Car, Rail Jack, Track Gauge Measurement Device, Rail Optic, Rail Lubricator, Machack, Rail Ultrasonic Test, Ultrasonic Thickness Indicator, Toolkit Engine, Rollers For Sliding Bridge, Manual Jack, Hydrolic Jack, Hand Winch, Winch Machine, Air Impact Wrench, torsion Wrench / Installation Tool For Bolts, Rivel Cutter, Trolley, Air Compressor Machine, Preumatic Boring Machine, Preumatic Riveling Machine, Band Saw Machine, Flame Calting Machine, Boring Machine, Welding Machine, Gantry Craw, Over Head and Mobile Crane, Rivel Stamping Machine, Grinding Machine Profil, Electric for Rivel Electric Generator, Welding Generator, Rivel Heater Furnace, Preumatic Hammer, Hammer hean, Driving Die for River, Blasting Machine, Bending Machine, Waterpass (Level), airless Spray Painting, Paint Tinckness Meter, Eygrometer, Hight Strength Bolt/Huck Bolt Rivel, Ordinary Bolt, Drift Pins, Steel Grid, Paint, Drill Bilts Reamer, Special Steel For Machine Purpose, Water Pump, Tackle Block, Steel Reinforcement, Preumatic Contrete Breaker, Bubut Roda, Bubut Umum, Mesin Tes Pegas, Bogie, Cam Industry, Equipment, Soil Investigation, Soil Laboratory, Ballas Testing, Geodetic.

Kepala Biro Umum  
u.b.  
Kepala Bagian Tata Usaha Departemen

ttd.

Bambang Subianto

Mustafa Husien, S.H.  
NIP. 060051103