

PiC Jabatan

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## FORM ISIAN DATA PERALATAN LABORATORIUM MITRA

 Balai Termodinamika Motor dan Propulsi (BTMP)
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No.	Nama Peralatan	Spesifikasi teknis
=		1 unit Mesin Riset Hydra Merk Ricardo
		1 unit Dinamometer max speed 4500/6500 rpm, Max Power 37 kW
	Engine Test Cell 1	Sensor suhu, thermokopel 1 dan 3 mm, untuk mengukur suhu benda dan lingkungan uji
1		Lab View dan NI kontroler untuk mengukur tekanan pada ruang bakar
•	Engine real con r	Sistem suplai bahan bakar gas tersedia
		1 Set Sistem suplai bahan bakar
		Program Autotest untuk menjalankan pengujian secara komputerise
		AutoTest untuk sistem kontrol dan managemen data
		2 unit Dynamometer Max Power 15 kW dan 30 kW
		Sensor suhu, thermokopel 1 dan 3 mm, untuk mengukur suhu benda dan lingkungan uji
2	Engine Test Cell 3	Sistem suplai bahan bakar gas tersedia
		AutoTest untuk sistem kontrol dan managemen data merk Cussons
		Program Autotest untuk menjalankan pengujian secara komputerise
		1 Unit Dynamometer max Speed 8000 RPM, Max Power 150 kW merk Froude Consine
	Engine Test Cell 4  Engine Test Cell 5	Sensor suhu, thermokopel 1 dan 3 mm, untuk mengukur suhu benda dan lingkungan uji
4		Sistem suplai bahan bakar gas tersedia
7		
		AutoTest untuk sistem kontrol dan managemen data merk Cussons
		Program Autotest untuk menjalankan pengujian secara komputerise
		2 unit Dynamometer Max Power 15 kW dan 30 kW
		Sensor suhu, thermokopel 1 dan 3 mm, untuk mengukur suhu benda dan lingkungan uji
6		Sistem suplai bahan bakar gas tersedia
		AutoTest untuk sistem kontrol dan managemen data merk Cussons
		Program Autotest untuk menjalankan pengujian secara komputerise
		1 Unit Dynamometer max Speed 6000 RPM, Max Power 250 kW merk Froude Consine
7		Sensor suhu, thermokopel 1 dan 3 mm, untuk mengukur suhu benda dan lingkungan uji
	Engine Test Cell 6	Sistem suplai bahan bakar gas tersedia
		AutoTest untuk sistem kontrol dan managemen data merk Cussons
		Program Autotest untuk menjalankan pengujian secara komputerise
8	NOx 4000 VM Analyser	merk Signal, rentang ukur '0 - 40 ppm
	THC 3000 HM Analyser	merk Signal, rentang ukur '0 - 40 ppm
	CO 7100 M Analyser	merk Signal, rentang ukur '0-1000 ppm
	CO2 7200 M Analyser	merk Signal, rentang ukur '0 - 5%
	Micro Balance	Alat timbang filter, merk Sartorius, resolusi 0,001 mg, max beban 70 mg
	Flash Point Tester Bomb Calorimeter	Test titik sambar, merk koehler Pengukuran LHV, merk Gallenkamp
	Termometer Gelas	alat ukur suhu, merk MILLER&WEBER INC USA
16	Hot Plate Viscosimeter	Pernanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE
16 17 18	Hot Plate Viscosimeter DensityMeter	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berät jenis, merk APPAAR Austria
16 17 18 19	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur alliran udara, Merk Cusson
16 17 18 19 20	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter	Pemanas, merk Cirnaweh  Mengukur viskositas, merk SCHOTT GERATE  Mengukur berat jenis, merk APPAAR Austria  Mengukur aliran udara, Merk Cusson  mengukur timing injeksi, merk Kent-moore Tach-N-Time (USA)
16 17 18 19 20 21	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur timing injeksi, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL 415
16 17 18 19 20 21 22	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter	Pemanas, merk Cirnaweh  Mengukur viskositas, merk SCHOTT GERATE  Mengukur berat jenis, merk APPAAR Austria  Mengukur aliran udara, Merk Cusson  mengukur timing injeksi, merk Kent-moore Tach-N-Time (USA)
16 17 18 19 20 21 22 23	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Ama 60 01-6213	Pemanas, merk Cirnaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur timing injeksi, merk KPent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL
16 17 18 19 20 21 22 23	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Ama i60 D1-6213 Emissions SPC 472	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur trining injeksi, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Alat ukur emisi, merk AVL
16 17 18 19 20 21 22 23 24	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Ama (60 D1-6213 Emissions SPC 472 AVL 439 Opacimeter	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merik Cusson mengukur timing injeksi, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Talat ukur emisi, merk AVL Standard : Nozel venturi sonik Nozel venturi merk Cetac Thermokopel merk Pyro controle
16 17 18 19 20 21 22 23 24	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Ama i60 D1-6213 Emissions SPC 472	Pemanas, merk Cirnaweh  Mengukur viskositas, merk SCHOTT GERATE  Mengukur berat jenis, merk APPAAR Austria  Mengukur aliran udara, Merk Cusson  mengukur timing injeksi, merk Kent-moore Tach-N-Time (USA)  Alat ukur emisi, merk AVL 415  Alat ukur emisi, merk AVL  Alat ukur emisi, merk AVL  Latur emisi, merk AVL  Sandard: Nozel venturi sonik  Nozel venturi merk Cetac  Thermokopel merk Pyro controle  pressure transmitter merk Bailey Sereg
16 17 18 19 20 21 22 23 24	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Ama (60 D1-6213 Emissions SPC 472 AVL 439 Opacimeter	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merik Cusson mengukur timing injeksi, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL standard : Nozel venturi sonik Nozel venturi sonik Nozel venturi merk Cetiac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hygrometer elektronik merk Endress hauser
16 17 18 19 20 21 22 23 24	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Ama (60 D1-6213 Emissions SPC 472 AVL 439 Opacimeter	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur timing injeksi, merk KPent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL Salat ukur emisi, merk AVL Standard: 'Nozel venturi sonik Nozel venturi merk Cetac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hygrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk AceVelon & GPL
16 17 18 19 20 21 22 23 24	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Ama (60 D1-6213 Emissions SPC 472 AVL 439 Opacimeter	Pemanas, merk Cinaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur berat jenis, merk APPAAR Austria Mengukur taming injeksi, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Nozel venturi sonik Nozel venturi sonik Nozel venturi merk Cetiac Thermokopel merk Pyro controle pressure transmitter merk Balley Sereg Hygrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Acetylen & GPL Standard : Orfice
16 17 18 19 20 21 22 23 24	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Ama (60 D1-6213 Emissions SPC 472 AVL 439 Opacimeter	Pemanas, merk Ciraweh  Mengukur viskositas, merk SCHOTT GERATE  Mengukur berat jenis, merk APPAAR Austria  Mengukur aliran udara, Merk Cusson  mengukur timing injeksi, merk Kent-moore Tach-N-Time (USA)  Alat ukur emisi, merk AVL 415  Alat ukur emisi, merk AVL  India ukur emisi, merk emisi, me
16 17 18 19 20 21 22 23 24 25	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Ama (60 D1-6213 Emissions SPC 472 AVL 439 Opacimeter	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur timing injeksi, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL Listandard: Nozel venturi sonik Nozel venturi merk Cetisa Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hygrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Acetylen & GPL Standard: Orifice Fluid manometer merk Airflow Orrifice plate Pressure transmitter merk FCO322SEN+TRAN
16 17 18 19 20 21 22 23 24 25	Hof Plate  Viscosimeter  DensityMeter  Laminar Flowmeter  Dissel Timing meter  Variable sampling smoke meter  Anna 60 D1-6213  Emissions SPC 472  AVL 439 Opacimeter  Kalibrasi Aliran Udara	Pemanas, merk Cimaweh  Mengukur viskositas, merk SCHOTT GERATE  Mengukur berät jenis, merk APPAAR Austria  Mengukur aliran udara, Merk Cusson mengukur triming jinjesi, merk Kent-moore Tach-N-Time (USA)  Alat ukur emisi, merk AVL 415  Alat ukur emisi, merk AVL Alat ukur emisi, merk AVL  Alat ukur emisi, merk AVL  Alat ukur emisi, merk AVL  Istandari : Nozel venturi sonik  Nozel venturi merk Cetac  Thermokope merk Pyro controle pressure transmitter merk Bailey Sereg  Hygrometer elektronik merk Endress hauser  Digital Thermohigrometer merk TFA  Pressure gauge merk Acetylen & GPL  Strandari : Orifice  Fluid manometer merk Airflow  Orifice plate  Pressure transmitter merk FC0322SEN+TRAN  Digital Thermohigrometer merk TFCA
16 17 18 19 20 21 22 23 24	Hof Plate  Viscosimeter  DensityMeter  Laminar Flowmeter  Dissel Timing meter  Variable sampling smoke meter  Anna 60 D1-6213  Emissions SPC 472  AVL 439 Opacimeter  Kalibrasi Aliran Udara	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur triming jinjesis, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Alat ukur emisi, merk AVL Istandari C. Nozel venturi sonik Nozel venturi merk Cetac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hygrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Acetylen & GPL Fluid manometer merk Airflow Ornfice plate Pressure transmitter merk FCO322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel- indikator merk TEA Barograph merk Lambrecht Thermokopel- indikator merk TZ4M Autonics
16 17 18 19 20 21 22 23 24 25	Hof Plate  Viscosimeter  DensityMeter  Laminar Flowmeter  Dissel Timing meter  Variable sampling smoke meter  Anna 60 D1-6213  Emissions SPC 472  AVL 439 Opacimeter  Kalibrasi Aliran Udara	Pemanas, merk Cinaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur timigi njeksi, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL Standard: Nozel venturi sonik Nozel venturi merk Cetac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hygrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Acetyten & GPL Standard: Ordfice Fluid manometer merk Arflow Orrifice plate Pressure transmitter merk FC0322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel + indikator merk T24M Autonics Blower & motor
16 17 18 19 20 21 22 23 24 25	Hof Plate  Viscosimeter  DensityMeter  Laminar Flowmeter  Dissel Timing meter  Variable sampling smoke meter  Anna 60 D1-6213  Emissions SPC 472  AVL 439 Opacimeter  Kalibrasi Aliran Udara	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur triming jinjesia, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Alat ukur emisi, merk AVL Standard: Nozel venturi sonik Nozel venturi merk Cetac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hygometer elektronik merk Endress hauser Digital Thermohigometer merk TFA Pressure gauge merk Acetylen & GPL Standard: Orifice Fluid manometer merk Airflow Orrifice plate Pressure transmitter merk FC0322SEN+TRAN Digital Thermohigometer merk TFA Barograph merk Lambrecht Thermokopel - indikator merk TZ4M Autonics Blower & motor
16 17 18 19 20 21 22 23 24 25	Hof Plate  Viscosimeter  DensityMeter  Laminar Flowmeter  Diesel Triming meter  Variable sampling smoke meter  Anna (60 D1-6213  Emissions SPC 472  AVL 439 Opacimeter  Kalibrasi Aliran Udara	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur trining injeksi, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Nozel venturi sonik Nozel venturi merk Cetac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hygrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure quage merk Aceylen & GPL Standard : Orfice Fluid manometer merk Airflow Orrifice plate Pressure transmitter merk FC0322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel + indikator merk TZ4M Autonics Blöwer & motor Standard : Usubble Usubble meter merk repels, 0 s.d. 1000 ml Hydrogen gases set
16 17 18 19 20 21 22 23 24 25	Hof Plate  Viscosimeter  DensityMeter  Laminar Flowmeter  Diesel Triming meter  Variable sampling smoke meter  Anna (60 D1-6213  Emissions SPC 472  AVL 439 Opacimeter  Kalibrasi Aliran Udara	Pemanas, merk Cinaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur berat jenis, merk APPAAR Austria Mengukur taring injeksi, merk Keut-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL Standard : Nozel venturi sonik Nozel venturi merk Cetiac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hygrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Acetylen & GPL Standard : Orifice Fluid manometer merk Airlico Orifice plate Pressure transmitter merk FC0322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel + indikator merk TZ4M Autonics Blower & motor standard : Dubble bubble meter merk syeleco, 0 s.d. 1000 ml Hydrogen gases set
16 17 18 19 20 21 22 23 24 25	Hof Plate  Viscosimeter  DensityMeter  Laminar Flowmeter  Diesel Triming meter  Variable sampling smoke meter  Anna (60 D1-6213  Emissions SPC 472  AVL 439 Opacimeter  Kalibrasi Aliran Udara	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur trining injeksi, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Nozel venturi sonik Nozel venturi merk Cetac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hygrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure quage merk Aceylen & GPL Standard : Orfice Fluid manometer merk Airflow Orrifice plate Pressure transmitter merk FC0322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel + indikator merk TZ4M Autonics Blöwer & motor Standard : Usubble Usubble meter merk repels, 0 s.d. 1000 ml Hydrogen gases set
16 17 18 19 20 21 22 23 24 25 26	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Ama 60 D1-6213 Emissions SPC 472 AVL 439 Opacimeter Kalibrasi Aliran Udara Kalibrasi Aliran Udara	Pemanas, merk Cinaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur timig injeksi, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL Sandard : Nozel venturi sonik Nozel venturi merk Cetac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hygrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Acetyten & GPL Standard : Orfice Fluid manometer merk Airflow Ornfrice plate Pressure transmitter merk FCO322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel + indikator merk TZ4M Autonics Blower & motor standard : bubble bubble meter merk speloo, 0 s.d. 1000 ml Hydrogen gases set Anak trimbangan Thermometer gelas merk ASLW Timer/counter merk ASLW Timer/counter merk ASLW Timer/counter merk ASLW Timer/counter merk merk ASLW Timer/counter merk AUSIAS
16 17 18 19 20 21 22 23 24 25 26	Hof Plate  Viscosimeter  DensityMeter  Laminar Flowmeter  Diesel Triming meter  Variable sampling smoke meter  Anna (60 D1-6213  Emissions SPC 472  AVL 439 Opacimeter  Kalibrasi Aliran Udara	Pemanas, merk Ciraweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur timing injeksi, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Distandard : Nozel venturi sonik Nozel venturi merk Cetiac Thermokopel merk Pyro contole pressure transmitter merk Bailey Sereg Hygrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Acetylen & GPL Standard : Orifice Fluid manometer merk Arlino Orifice plate Pressure transmitter merk FC0322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel + indikator merk TZ4M Autonics Blower & motor standard : bubble bubble meter merk supleo, 0 s.d. 1000 ml Hydrogen gases set Anak trimbangan Hydrometer Merk Zeal England Thermomoter gleas merk ASLW Timer/counter merk KASLW Timer/counter merk KALU Timer/counter
16 17 18 19 20 21 22 23 24 25 26	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Ama 60 D1-6213 Emissions SPC 472 AVL 439 Opacimeter Kalibrasi Aliran Udara Kalibrasi Aliran Udara	Pemanas, merk Ciraweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berät jenis, merk APPAAR Austria Mengukur berät jenis, merk APPAAR Austria Mengukur allran udara, Merk Cusson mengukur timing jinjesis, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Nozel venturi sonik Nozel venturi merk Cetac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hygrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Acetylen & GPL Standard: Orifice Fluid manometer merk Airliov Orifice plate Pressure transmitter merk FC0322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel + indikator merk TZ4M Autonics Blöwer & motor standard: bubble bubble meter merk supelco, 0 s.d. 1000 ml Hydrogen gases set Anak timbangan Hydrometer Merk Zeal England Thermomoter gleas merk ASLW Timericounter merk ASLW Timericounter merk RALU Timericounter Triger and balance set Pressure gauge merk WIKA
16 17 18 19 20 21 22 23 24 25 26	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Ama 60 D1-6213 Emissions SPC 472 AVL 439 Opacimeter Kalibrasi Aliran Udara Kalibrasi Aliran Udara	Pemanas, merk Cinaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur taliran udara, Merk Cusson mengukur timigi njeksi, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL Standard: Nozel venturi sonik Nozel venturi merk Cetac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hygrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Acetyten & GPL Standard: Orfice Fluid manometer merk Ariflow Orrifice plate Pressure transmitter merk FC0322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel + indikator merk TZ4M Autonics Blower & motor standard: bubble bubble meter merk supelco, 0 s.d. 1000 ml Hydrogen gases set Anak timbangan Hydrometer Merk Zeal England Thermometer gelas merk ASLW Timer/counter merk AUIONICS Pulse counter Triger and balance set Pressure gauge merk WIKA Digital Thermohigrometer merk TFA
16 17 18 19 20 21 22 23 24 25 26	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Ama 60 D1-6213 Emissions SPC 472 AVL 439 Opacimeter Kalibrasi Aliran Udara Kalibrasi Aliran Udara	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur triming jinjesis, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Standard: Nozel venturi sonik Nozel venturi merk Cetac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hygrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Acetylen & GPL Strandard: Orifice Fluid manometer merk Airflow Orifice plate Pressure transmitter merk FC0322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel + indikator merk TZ4M Autonics Blower & motor Standard: Usubble bubble meter merk speleo, 0 s.d. 1000 ml Hydrogen gases set Anak timbangan Hydrometer Merk Zeal England Thermomore glass merk ASLW Timerfoounter merk AUtonics Pulse counter Triger and balance set Pressure gauge merk WINIA Digital Thermohigrometer merk TFA Domp ada motor merk TUthill
16 17 18 19 20 21 22 23 24 25 26	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Ama 60 D1-6213 Emissions SPC 472 AVL 439 Opacimeter Kalibrasi Aliran Udara Kalibrasi Aliran Udara	Pemanas, merk Ciraweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur timing jinjesi, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Standard: Nozel venturi sonik Nozel venturi merk Cetac Thermokopel merk Pyro controle pressure transmiter merk Bailey Sereg Hygrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Acetylen & GPL Standard: Orifice Fluid manometer merk Arifico Orifice plate Pressure transmiter merk FC0322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel i- indikator merk TZ4M Autonics Blower & motor Standard: Dubble bubble meter merk supelco, 0 s.d. 1000 ml Hydrogen gases set Anak timbangan Hydrometer Merk Zeal England Thermomore gleas merk ASLW Timericounter merk ASLW Timericounter merk ASLW Timericounter merk ALU Digital Thermohigrometer merk TFA Dompa dan motor merk TUttilill Pressure Transmiter merk Bailey sereg dan indikator merk Coreci Thermoscopel merk Pyro controle
16 17 18 19 20 21 22 23 24 25 26	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Arna 60 D1-6213 AVL 439 Opacimeter Kalibrasi Aliran Udara Kalibrasi Aliran Udara Kalibrasi Aliran Udara	Pemanas, merk Cinaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur berat jenis, merk APPAAR Austria Mengukur tarining injeksi, merk Keut-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL Standard : Nozel venturi sonik Nozel venturi merk Cetiac Thermokopel merk Pyro controle pressure transmiter merk Bailey Sereg Hygrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Acetylen & GPL Standard : Orifice Fluid manometer merk Airliko Orifice plate Pressure transmiter merk FC0322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel + indikator merk TZ4M Autonics Blower & motor standard : bubble bubble meter merk supelco, 0 s.d. 1000 ml Hydrogen gases set Anak timbangan Hydrometer Merk Zeal England Thermometer gleas merk ASLW Timer/counter merk Autonics Pressure gauge merk KALW Timer/counter merk Autonics Pressure gauge merk WIKA Digital Thermohigrometer merk TFA Pompa dan motor merk Tuthill Tressure Transmitter merk Falley sereg dan indikator merk Coreci Thermokopel merk Pyro controle Flow transmitter merk Enferses hauser
16 17 18 19 20 21 22 23 24 25 26	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Ama 60 D1-6213 Emissions SPC 472 AVL 439 Opacimeter Kalibrasi Aliran Udara Kalibrasi Aliran Udara	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur triming jinjesi, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Alat ukur emisi, merk AVL Istandard: Nozel venturi sonik Nozel venturi merk Cetac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hygrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Acetylen & GPL Standard: Orifice Fluid manometer merk Arflow Orifice plate Pressure transmitter merk FC0322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel - indikator merk TZ-4M Autonics Blower & motor Standard: Dubble bubble meter merk supelco, 0 s.d. 1000 ml Hydrogen gases set Anak timbangan Hydrometer merk AU- Hydrogen gases set Anak timbangan Thermometer gelas merk ASLW Timer/couler merk AU- Timer devoler merk AU- Digital Thermohigrometer merk TA Digital Thermohigrometer merk TA Digital Thermohigrometer merk TA Digital Thermohigrometer merk T- Pressure gauge merk AU- Digital Thermohigrometer merk T- Pressure gauge merk AU- Digital Thermohigrometer merk T- Pressure gauge merk AU- Digital Thermohigrometer merk T- Pressure gauge merk MiKA Digital Thermohigrometer merk T- Pompa dan motor merk T- Dempa dan motor merk T- Tirger and balance set Pressure gauge merk MiKA Digital Thermohigrometer merk FA- Pompa dan motor merk T- Tirger and balance set Pressure gauge merk Pyro controle Flow transmitter merk Endress hauser Timbangan electronic merk Mettler
16 17 18 19 20 21 22 23 24 25 26	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Arna 60 D1-6213 AVL 439 Opacimeter Kalibrasi Aliran Udara Kalibrasi Aliran Udara Kalibrasi Aliran Udara	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur triming jinjesi, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Standard: Nozel venturi sonik Nozel venturi merk Cetac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hygometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Acetylen & GPL Standard: Orifice Fluid manometer merk Kriflow Orifice plate Pressure transmitter merk FC0322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel - indikator merk TZ-4M Autonics Blower & motor Standard: bubble bubble meter merk supelco, 0 s.d. 1000 ml Hydrogen gases set Anak timbangan Hydrometer merk KJEU Timer/counter merk ALU Timer/counter merk Endress hauser Timbangan electronic merk TFA Pompa dan motor merk TLU Timer/counter merk Bailey sereg dan indikator merk Coreci Thermokopel merk Pyro controle Flow transmitter merk Endress hauser Timbangan electronic merk Mettler converter board merk Analog Device Timer merk Analog Device
16 17 18 19 20 21 22 23 24 25 26	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Arna 60 D1-6213 AVL 439 Opacimeter Kalibrasi Aliran Udara Kalibrasi Aliran Udara Kalibrasi Aliran Udara	Pemanas, merk Cinaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur berat jenis, merk APPAAR Austria Mengukur ternis jeniska, merk Keru-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Standard : Nozel venturi sonik Nozel venturi merk Cetiac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hygrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Acetylen & GPL Standard : Orifice Fluid manometer merk Afflow Orifice plate Pressure transmitter merk FC0322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel + indikator merk TZ4M Autonics Blower & motor standard : bubble bubble meter pleas merk ASLW Timer/counter merk supelco, 0 s.d. 1000 ml Hydrogen gases set Anak trmbangan Hydrometer Merk Zeal England Thermometer gleas merk ASLW Timer/counter merk Autonics Pulse counter Triger and balance set Pressure gauge merk WIKA Digital Thermohigrometer merk TFA Pompa dan motor merk Tuthill Pressure Tranmiter merk Faleley sereg dan indikator merk Coreci Thermokopel merk Pyro controle Flow transmitter merk Faleres hauser Timbangan electronic merk Mettler converter board merk Analog Device Timer merk Accer
16 17 18 19 20 21 22 23 24 25 26	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Arna 60 D1-6213 AVL 439 Opacimeter Kalibrasi Aliran Udara Kalibrasi Aliran Udara Kalibrasi Aliran Udara	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur trining jinjesi, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Standard: Nozel venturi sonik Nozel venturi merk Cetac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hygometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Acetylen & GPL Standard: Orfice Fluid manometer merk Arflow Ornfice plate Pressure transmitter merk FC0322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel - indikator merk TZ-4M Autonics Blower & motor Standard: Jubble bubble meter merk supelco, 0 s.d. 1000 ml Hydrogen gases set Anak timbangan Hydrometer merk ALU Timer Govale - indikator merk TA Pressure gauge merk ALU Timer Govale - indikator merk TA Pressure gauge merk WIKA Digital Thermohigrometer merk TPA Pompa dan motor merk Tuthill Pressure Tranmiter merk Bailey sereg dan indikator merk Coreci Thermokopel merk Pyro controle Flow transmitter merk Endress hauser Timbangan electronic merk Mettler converter board merk Analog Device Timber merk Gemany
16 17 18 19 20 21 22 23 24 25 26	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Arna 60 D1-6213 AVL 439 Opacimeter Kalibrasi Aliran Udara Kalibrasi Aliran Udara Kalibrasi Aliran Udara	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur trining injeksi, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Standard: Nozel venturi sonik Nozel venturi merk Cetac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hygrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure quage merk Acepten & GPL Standard: Orfice Fluid manometer merk Airflow Orrifice plate Pressure transmitter merk FC0322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel + indikator merk TZ4M Autonics Blöwer & motor Standard: Subblie bubble meter merk supelco, 0 s.d. 1000 ml Hydrogen gases set Anak timbangan Hydrometer Merk Zeal England Thermometer gelas merk ASLW Timer/counter merk Autonics Pulse counter Triger and balance set Pressure qauge merk WIKA Digital Thermohigrometer merk TFA Pompa dan motor merk Tuthill Pressure Tranmiter merk Bailey serg dan indikator merk Coreci Thermokopel merk Pyro controle Flow transmitter merk Endress hauser Timbangan electronic merk Mettler converter board merk Analog Device Timer merk Kacher Digital Thermohigrometer merk TFA Hidrometer merk Germany Furnace merk Besancon Thermostics bath merk Besancon
16 17 18 19 20 21 22 23 24 25 26 27	Hot Plate  Viscosimeter  DensityMeter  Laminar Flowmeter  Diesel Triming meter  Variable sampling smoke meter  Anna (60 D1-6213  Emissions SPC 472  AVL 439 Opacimeter  Kalibrasi Aliran Udara  Kalibrasi Aliran Udara  Kalibrasi Aliran Udara  Kalibrasi Aliran Bahan bakar	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur timing jinjeksi, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Standard: Oxocal venturi sonik Nozel venturi merk Cetiac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hygrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Acetylen & GPL Standard: Oxfrice Fluid manometer merk Artinov Orrifice plate Pressure transmitter merk FC0322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel i indikator merk TZ4M Autonics Blower & motor Standard: Jubble bubble meter merk supelco, 0 s.d. 1000 ml Hydrogen gases set Anak timbangan Hydrometer Merk Zeal England Thermometer gleas merk ASLW Timericounter merk Autonics Pulse counter Triger and balance set Pressure gauge merk WilkA Digital Thermohigrometer merk TFA Pompa dan motor merk Tuthill Pressure Tranmitter merk Bailey sereg dan indikator merk Coreci Timber merk decer Digital Thermohigrometer merk FrA Hydrometer Merk Ceress hauser Timbangan electronic merk Mettler converter board merk Analog Device Timer merk Accer Digital Thermohigrometer merk TFA Hidrometer merk Gesancon Thermostatic bath merk Heraeus sensor
16 17 18 19 20 21 22 23 24 25 26 27	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Arna 60 D1-6213 AVL 439 Opacimeter Kalibrasi Aliran Udara Kalibrasi Aliran Udara Kalibrasi Aliran Udara	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur timing nijeksi, merk Kent-more Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Standard: Nozel venturi sonik Nozel venturi merk Cetac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hydrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Acetylen & GPL Standard: Orifice Platid manometer merk Airliow Orrifice plate Pressure transmitter merk FC0322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel + indikator merk TZ4M Autonics Blower & motor Standard: Dubble bubble meter merk supelco, 0 s.d. 1000 ml Hydrogen gases set Anak timbangan Hydrometer Merk Zeal England Thermometer gelas merk ASLW Timer/counter merk AUnoics Pulse counter Triger and balance set Pressure gauge merk R. Bailey serg dan indikator merk Coreci Thermokopel merk Pyro controle Flow transmitter merk Endress hauser Timbangan electronic merk TTA Pompa dan motor merk Tuthill Pressure Transmiter merk Rediese shauser Timper and balance set Pressure gauge merk MIKA Digital Thermohigrometer merk TFA Pompa dan motor merk Tuthill Pressure Transmiter merk Redieses hauser Timbangan electronic merk Mettler converter board merk Anabog Device Timer merk Autonics Digital Thermohigrometer merk TFA Hodometer merk Germany Furnace merk Besancon Thermometer platina merk Heraeus sensor
16 17 18 19 20 21 22 23 24 25 26 27	Hot Plate  Viscosimeter  DensityMeter  Laminar Flowmeter  Diesel Triming meter  Variable sampling smoke meter  Anna (60 D1-6213  Emissions SPC 472  AVL 439 Opacimeter  Kalibrasi Aliran Udara  Kalibrasi Aliran Udara  Kalibrasi Aliran Udara  Kalibrasi Aliran Bahan bakar	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur timing nijeksi, merk Kent-moore Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Sandard: Toxel venturi sonik Nozel venturi merk Cetiac Thermokopel merk Pyro controle pressure transmitter merk Bailey Sereg Hydrometer elektronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Aceyber & GPL Standard: Orlfice Fluid manometer merk kirliow Orrfice plate Pressure transmitter merk FC03223EN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel + Indikator merk TZ4M Autonics Blower & motor Standard: Dubble bubble meter merk supelco, 0 s.d. 1000 ml Hydrogen gases set Anak timbangan Hydrometa plases set Pressure gauge merk ASLW Timer/counter merk Xeal England Thermometer gelas merk ASLW Timerrecombingometer merk TFA Pompa dan motor merk Tuthill Pressure Transmitter merk Retreas bauser Timbangan electronic merk Mettler converter board merk Analog Device Timer merk Autonics Pulse counter Timper and balance set Pressure gauge merk Aslure Timper and balance set Pressure gauge merk MiKA Digital Thermohigrometer merk TFA Pompa dan motor merk Tuthill Pressure Transmiter merk Endress hauser Timbangan electronic merk Mettler converter board merk Analog Device Timer merk Acter Digital Thermohigrometer merk TFA Hidrometer merk Germany Furnace merk Besancon Thermomater platna merk Heraeus sensor Minate analog Scanner merk Schlumberger Computing (reference) multimeter merk Schlumberger Thermometer fallbrator merk Corpice
16 17 18 19 20 21 22 23 24 25 26 27	Hot Plate  Viscosimeter  DensityMeter  Laminar Flowmeter  Diesel Timing meter  Variable sampling smoke meter  Anna (60 D1-6213  Emissions SPC 472  AVL 439 Opacimeter  Kalibrasi Aliran Udara  Kalibrasi Aliran Udara  Kalibrasi Aliran Udara  Kalibrasi Aliran Bahan bakar	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat jenis, merk APPAAR Austria Mengukur aliran udara, Merk Cusson mengukur timing injeksi, merk Kent-moore Tach-N-Tirne (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Standard : Ordice pressure transmitter merk Bailey Sereg Hygrometre delktronik merk Endress hauser Digital Thermohigrometer merk TFA Pressure gauge merk Acetylen & GPL Standard : Ordice Fluid manometer merk Airflow Ornfice plate Pressure transmitter merk FC0322SEN+TRAN Digital Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel + indikator merk TZ4M Autonics Blower & motor standard : bubble bubble meter merk supelco, 0 s.d. 1000 ml Hydrogen gases set Hydrometer Merk Zeal England Thermometer gleas merk ASLIV Timer/counter merk Autonics Pulse counter Triger and balance set Pressure gauge merk KutlKA Digital Thermohigrometer merk TFA Pompa dam motor merk TFA Hidrometer Merk Gesenon Thermometer platam merk Heraeus sensor Minate analog scanner merk Schlumberger Computing (reference) multimeter merk Schlumberger Thermometer kalibrator merk Cropico
16 17 18 19 20 21 22 23 24 25 26 27	Hot Plate  Viscosimeter  DensityMeter  Laminar Flowmeter  Diesel Timing meter  Variable sampling smoke meter  Anna (60 D1-6213  Emissions SPC 472  AVL 439 Opacimeter  Kalibrasi Aliran Udara  Kalibrasi Aliran Udara  Kalibrasi Aliran Udara  Kalibrasi Aliran Bahan bakar	Pemanas, merk Cimaweh Mengukur berat jenis, merk APPARA Austria Mengukur berat jenis, merk APPARA Austria Mengukur aliran udara, Merk Cusson mengukur thingi njelek, merk Kent-more Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Standard: Nozel venturi sonik Nozel venturi merk Celiac Thermokopel merk Pyro controle pressure transmitter merk Ediesy Gereg Hygrometer elektronik merk Endress hauser Djajlal Thermohigrometer merk TFA Pressure gauge merk Acetylen & GPL Standard: Ortifice Fluid manometer merk Arillow Ortifice plate Pressure transmitter merk Ediesy Ereg Pressure transmitter merk FC0322SEN+TRAN Djajlal Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel + Indikator merk TZ4M Autonics Blöwer & motor standard: Sububle bubble meter merk supekoo, 0 s.d. 1000 ml Hydrogen gases set Anak timbangan Hydrometer gelas merk ASLW Timer/counter merk Autonics Pulse counter Triger and balance set Pressure gauge merk NEKA Djajlal Thermohigrometer merk TFA Pompa dan motor merk Tuthil Pressure Transmitter merk Endress hauser Timpanga electronic merk Mettler Converter board merk Analog Device Timer merk Aced merk Aced Djajlal Thermohigrometer merk TFA Pompa dan motor merk Tuthil Pressure Transmitter merk Endress hauser Timbangan electronic merk Mettler Converter board merk Analog Device Timer merk Aceder Djajlal Thermohigrometer merk TFA Hidrometer merk Gereanop Thermometer leation merk Mettler Comyuting (reference) multimeter merk Schlumberger Computing (reference) multimeter merk Schlumberger Thermometer kalibrator merk Colpico Thermometer kalibrator merk Colpico Thermometer kalibrator merk Beamax
16 17 18 19 20 21 22 23 24 25 26 27 28	Hot Plate  Viscosimeter  DensityMeter  Laminar Flowmeter  Diesel Timing meter  Variable sampling smoke meter  Anna (60 D1-6213  Emissions SPC 472  AVL 439 Opacimeter  Kalibrasi Aliran Udara  Kalibrasi Aliran Udara  Kalibrasi Aliran Udara  Kalibrasi Aliran Bahan bakar	Pemanas, merk Cimaweh Mengukur viskositas, merk SCHOTT GERATE Mengukur berat lenis, merk APPARA Austria Mengukur talinan udara, Merk Cusson mengukur talinan jinjeksi, merk Kent-more Tach-N-Time (USA) Alat ukur emisi, merk AVL
16 17 18 19 20 21 22 23 24 25 26 27 28	Hot Plate Viscosimeter DensityMeter Laminar Flowmeter Diesel Timing meter Variable sampling smoke meter Anna (60 D1-6213 Emissions SPC 472 AVL 439 Opacimeter  Kalibrasi Aliran Udara  Kalibrasi Aliran Udara  Kalibrasi Aliran Bahan bakar  Kalibrasi Aliran Bahan bakar	Pemanas, merk Cimaweh Mengukur berat jenis, merk APPARA Austria Mengukur berat jenis, merk APPARA Austria Mengukur aliran udara, Merk Cusson mengukur thingi njelek, merk Kent-more Tach-N-Time (USA) Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL 415 Alat ukur emisi, merk AVL Standard: Nozel venturi sonik Nozel venturi merk Celiac Thermokopel merk Pyro controle pressure transmitter merk Ediesy Gereg Hygrometer elektronik merk Endress hauser Djajlal Thermohigrometer merk TFA Pressure gauge merk Acetylen & GPL Standard: Ortifice Fluid manometer merk Arillow Ortifice plate Pressure transmitter merk Ediesy Ereg Pressure transmitter merk FC0322SEN+TRAN Djajlal Thermohigrometer merk TFA Barograph merk Lambrecht Thermokopel + Indikator merk TZ4M Autonics Blöwer & motor standard: Sububle bubble meter merk supekoo, 0 s.d. 1000 ml Hydrogen gases set Anak timbangan Hydrometer gelas merk ASLW Timer/counter merk Autonics Pulse counter Triger and balance set Pressure gauge merk NEKA Djajlal Thermohigrometer merk TFA Pompa dan motor merk Tuthil Pressure Transmitter merk Endress hauser Timpanga electronic merk Mettler Converter board merk Analog Device Timer merk Aced merk Aced Djajlal Thermohigrometer merk TFA Pompa dan motor merk Tuthil Pressure Transmitter merk Endress hauser Timbangan electronic merk Mettler Converter board merk Analog Device Timer merk Aceder Djajlal Thermohigrometer merk TFA Hidrometer merk Gereanop Thermometer leation merk Mettler Comyuting (reference) multimeter merk Schlumberger Computing (reference) multimeter merk Schlumberger Thermometer kalibrator merk Colpico Thermometer kalibrator merk Colpico Thermometer kalibrator merk Beamax