



KEMENTERIAN LINGKUNGAN HIDUP DAN KEHUTANAN
DIREKTORAT JENDERAL PENGENDALIAN PENCEMARAN DAN KERUSAKAN LINGKUNGAN
DIREKTORAT PENGENDALIAN PENCEMARAN AIR

Jalan D.I. Panjaitan Kav. 24, Kebon Nanas, Jakarta 13410 Indonesia • Telepon & Faksimile: 021-8517257

SURAT KETERANGAN LULUS UJI KONEKTIVITAS
Nomor: KT.6/PPA/PPI/PKL.2/12/2019

Berdasarkan hasil uji konektivitas terhadap peralatan sensor dan logger, maka Direktorat Pengendalian Pencemaran Air Kementerian Lingkungan Hidup dan Kehutanan (KLHK) menerangkan bahwa perusahaan pada daftar terlampir dinyatakan **Lulus Uji Konektivitas** dalam hal sistem pemantauan kualitas air limbah secara terus menerus dan dalam jaringan bagi usaha dan/atau kegiatan (SPARING), Kementerian Lingkungan Hidup dan Kehutanan.

Surat Keterangan Lulus Uji Konektivitas ini berlaku selama 2 tahun dan mulai berlaku sejak 1 Januari 2020 Sampai dengan 31 Januari 2022. Uji konektivitas ini belum mengatur parameter pencemar yang diukur, metode pengukuran, *range* pengukuran, akurasi pengukuran, limit deteksi alat untuk setiap parameter, serta validitas data. KLHK tidak menjamin konektivitas diluar spesifikasi terlampir dan adanya perubahan sistem SPARING.

Pengaturan yang lebih detail diatur pada Peraturan Menteri Lingkungan Hidup dan Kehutanan RI No.P.93/MENLHK/SETJEN/KUM.1/8/2018, tentang Pemantauan Kualitas Air Limbah Secara Terus Menerus Dan Dalam Jaringan (SPARING) bagi usaha dan/atau kegiatan dan Peraturan Menteri Lingkungan Hidup Dan Kehutanan RI Nomor P.80/Menlhk/Setjen/Kum.1/10/2019 Tentang Perubahan Atas Peraturan Menteri Lingkungan Hidup Dan Kehutanan Nomor P.93/Menlhk/Setjen/Kum.1/8/2018 Tentang Pemantauan Kualitas Air Limbah Secara Terus Menerus Dan Dalam Jaringan Bagi Usaha Dan/Atau Kegiatan.

Adapun Surat Keterangan Lulus Uji Konektivitas Nomor: KT.5/PPA/IABP/PKL.2/8/2019 tanggal 15 Agustus 2019 dinyatakan tidak berlaku lagi.

Demikian Surat Keterangan ini dibuat untuk dapat dipergunakan sebagaimana mestinya.



Jakarta, 31 Desember 2019

Luckmi Purwandari, ST., M.Si
NIP. 19671115 199603 2 006

DAFTAR PERUSAHAAN LULUS UJI KONEKTIVITAS

No.	Nama Perusahaan	Tanggal Lolos Uji	Data Logger		Keterangan Parameter									
					pH		TSS		Amonia		COD		Dobt	
			Brand	Type	Brand	Type	Brand	Type	Brand	Type	Brand	Type	Brand	Type
1	PT Tata Tirta Utama	20 Oktober 2019	Star Log	M 500	Chemtec	S 401 DIG	Chemtec	S 461 S	Chemtec	S 470	Chemtec	S 480 UV	Chemtec	S 101F, S 425C
2	PT Bata Multi Teknika	20 Oktober 2019	BMT	EMDS 1.0	BMT	S 401 DIG	BMT	S 461 S	BMT	S 470	BMT	S480 UV/SAC254	BMT	S 101F, S 425C
3	PT Swahusada Multi Guna	19 Oktober 2019	WTW	Type DIQ/S 284	WTW	Sensolyt700 IQ/Set	WTW	CarboVis 705 IQ TS	WTW	AmmoLyt Plus 700	WTW	CarboVis 705 IQ TS	MJK	Shuttle Ultrasonic Level Transmitter (Open Channel) Expert 3400 (Open Channel) MagFlux 7100 (In-Pipe) Open Channel Flowmeter 713
4	PT. Inter Pacific Cemerlang	15 Oktober 2019	Interpac	Interpac 01	Global Water Probest Tritos	WQ 201-O PPH-500 ToH-D/TPH	Probest Tritos	PSS-800-SS Lisa UV	Probest	PINH3-900	Probest Tritos	PUV COD Lisa UV	GE (Close Pipe) Eastflo (Close Pipe) Pulsar (Open Tunnel)	Aquatrans Sonalok Microflow
5	Ganeca Environmental Services	19 Oktober 2019	MantaInk Remota	GanecaInk	Eureka Water Probes	Manta+	Eureka Water Probes	Manta+	Eureka Water Probes	Manta+	-	-	Eureka Water Probes	Manta+
6	PT. Biosfer Saintek Indonesia	19 Oktober 2019	IPC Chemitec Woodberry	007 0012	Chemitec	S401DIG	Chemitec	S461LT-S461TN	Chemitec	S470NH4	Chemitec	S 480 UV, SAC 254	Chemitec	S103C CH2200 Ultrasonic : S100F Open Channel 4204P-S425C
7	PT Chemviro Buana Indonesia	15 Oktober 2019	CBI	BSPro Series	Broad Sensor	pH820412	Broad Sensor	TSS 610210-1	Broad Sensor	NH4-N 620910	Broad Sensor	UV254COD	Pulsar	Microflow-I
8	PT. Surya Tirta Cemerlang	20 Oktober 2019	Modberry	M 300 & M 500	Chemitec	S401DIG, Range 0	Chemitec	S 461 TN	Chemitec	S480/NH4	Chemitec	S 480 UV, SAC 254 COD	Magnetic Flow Meter Ultrasonic Transit Time Flow Meter Ultrasonic Open Channel Flow Meter	S 103 C CH 2200 S 101 F 4204P S425C
9	PT Forbes Marshall Indonesia	24 November 2019	Forbes Marshall	IT4-20 mA converting to RS 485	Forbes Marshall-AWA	2 Pole Combination Potentiostatic	Forbes Marshall-AWA	UV Optical Absorption type	tidak dilakukan uji konektivitas		Forbes Marshall-AWA	UV Optical Absorption type	tidak dilakukan uji konektivitas	
10	PT PGAS Solution	24 November 2019 & 20 Desember 2019	Picobox	Aplus Communicator 1000	Kaciso	Online Digital pH Se	Kaciso	TSS Online Suspended Particle Sensor	Kaciso	Online NH4-N Ammonia Nitrogen Sensor	Kaciso	Online Environmentally Friendly COD Sensor	Kaciso	KOCF3000 Ultrasonic Open Channel Flow Meter
11	PT Sensor Teknologi Indonesia	18 November 2019	Sensync	Sensync Qua	Hoashi Atlas Scientific	SEN0169 ENV-50-pH	Probest	PSS-800-SS	Probest	PINH3-900	Probest	PUVCOD-900	Sea Kaciso	Inline Open Channel
12	CV Fortuna Argatech	23 November 2019	Argatech	GEOVOS-1000 EXTV3-ON	Rika DFRobot	RK500-12 SEN0169	Rika Probest	RK500-07 PSS-800-SS DSC500	Unwll	NH4-N Ammonia Nitrogen PINH3-900	Probest	PUV-COD DSC500	Holykal Boqu (Open Channel) Tmeasurement (Use Water)	HPT611 - UTG21-DS
13	Has Environmental	19 November 2019	In-Situ S::Can	MACE FLO Xcl Con::Cube	In-Situ S-Can	AquaTROLL500 pH::yser	S::Can In-Situ	Spectro::yser AquaTROLL500	In-Situ S::Can	AquaTROLL500 Ammo::yser	S::Can	Spectro::yser	In-Situ	Mace Ultrasonic Coppler Insert (Close Pipe) Mace Ultrasonic Velocity Area Doppler (Close/Open Channel) Mace Echo Flo (non touch water level sensor)
14	PT. Organica Water Solutions	23 November 2019	Moxa	UC-8112-ME-T Adm4017 + C/W Software	E+H	CPS 11D	E+H	CUS52D	E+H	CAS40D	E+H	CAS51D	tidak dilakukan uji konektivitas	
15	PT. Alfa Pegasus	24 November 2019	LOKAL	Adm4017 + C/W Software	HACH	DPD1P1	HACH	SOLITAX sc	HACH	AN-ISE sc	HACH	UVAS sc	tidak dilakukan uji konektivitas	

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Direktur Pengendalian Pencemaran Air

No.	Nama Perusahaan	Tanggal Lotes Uji	Data Logger		Keterangan Parameter									
					pH		TSS		Amonia		COD		Debit	
			Brand	Type	Brand	Type	Brand	Type	Brand	Type	Brand	Type	Brand	Type
16	PT. Prajasatech Indonesia	25 November	LOKAL	OLINSPL002	Thermo Scientific Hamilton Process Instruments Krick ThermoTech	Aquasensors Polyte Plus pHSense Stratos PTI	Thermo Scientific Instruments ThermoTech	AquaSensors Data SolSense PTI	Thermo Scientific ThermoTech	21100P PTI	LAR Process Instruments ThermoTech	CODQuickUltra UV254 PTI	NivoControls ThermoTech Siemens	NivoMag PTI SITrans
17	PT SUCOFINDO (PERSERO)	21 Desember 2019	Linkwise	AC1000 Apus	Kacise	OnLine Digital PH S	Kacise	Fiber Turbidity Sensor - Self Cleaning Turbidity Sensor	Kacise	Online Ammonia Nitrogen Sensor	Kacise	KWS-100	Kacise	KOCF3000 Ultrasonic Open Channel Flow Meter
18	PT. Arasains	20 Desember 2019	Go System	Blue Sense	Go System YSI HORIBA	pH 481 5215 Transmitter CAN bus Exo Sensor HP-489	Go System HORIBA	Isa Sensor Transmitter Blue Box OPSA-150	HORIBA YSI	ISA NH 3 Exo Sensor	Go System HORIBA	Isa Sensor Transmitter Blue Box OPSA-150	Flotech	ISolv
19	PT Endress + Hauser Indonesia	22 Desember 2019	Endress+Hauser	RSG45, RSG35	Endress+Hauser	CPF810	Endress+Hauser	CUS51D CUS52D	Endress+Hauser	CAS40D	Endress+Hauser	CAS8COD CAS51D	Endress+Hauser	Electromagnetic Flow Meter - Promag Ultrasonic Flow Meter
20	PT. Megah Surya Persada	20 Desember 2019	WTW Sensortechnik Mainsberg (STM) Linkwise	IQ System-DIG MV 4010 & 5010 Picobox AC1000	WTW MENSBERGD Kacise	IQ SENSOR-Sensor,yl 700 IQ EGA 153 I KWS-750	WTW Kacise	IQ Sensor-Viso Turbidity Sensor KWS-950	WTW Kacise	IQ Sensor- Ammonia,yl 700 IQ KWS-202	WTW Kacise	UV 701 IQ SAC IQ SENSOR CarboVis 70x IQ KWS-100	Magflux Kacise	7200 Sensor DN 100 EN/PN16 KOCF3000
21	PT Triton Kencana Tira	20 Desember 2019	SOM Log Manufacture	Local Manufacture	Chemtec	S 401 DIG	Chemtec	S 481 S / S 481 TN	Chemtec	S 470	Chemtec	S 480 SAC254	Chemtec	S 101 F (Ultrasonic Clamp On), S425 C (Ultrasonic Open Channel)
22	PT. DKH Trading Indonesia	20 Desember 2019	Schneider electric	TM221CE16R	HACH	DPDIP	HACH	SOLITAX	HACH	Aminex	HACH	EZ700, UVAS	HACH	HACH U53 (Open Channel)
23	PT Setitama Mega konsultan	22 Desember 2019	PICOBX KING PIGEON	AC - 1000 RTU S272	RIKA KACISE	RK500-02 KWS-750	APURE KACISE	TD - 30 KWS-950	Kacise	KWS-202	KACISE	KWS-100	APURE KACISE	MO - 6000 KOCF3000
24	PT. Soasri Mitra Teknik	22 Desember 2019	PICOBX YDOC	AC1000 ML-317	Protous Instruments Xian Kacise Optronics Tech	P-S-PH PH Sensor KWS-750 online pH Sensor	Protous Instruments Xian Kacise Optronics Tech	P-S-TU Turbidity Sensor KWS-950 online TSS Sensor	Protous Instruments Xian Kacise Optronics Tech	P-S-ISE-NH3 Ammonia Nitrogen sensor KWS-202 Online ammonia nitrogen sensor	Protous Instruments Xian Kacise Optronics Tech	P-S-TRY Tryptophan Sensor KWS-100 COD Sensor	ABB (Close Pipe) Siemens (Close Pipe) Siemens (Open Tunnel) Xian Kacise Optronics Tech (Open Tunnel)	Electromagnetic Flow Sensor Electromagnetic Flow Sensor Ultrasonic Flow Sensor KOCF 3000 Ultrasonic Flow Sensor
25	PT Daun Baru Engineering	21 Desember 2019	Monta System	Dafud1	Probest	PPH-600	Probest	PSS-600 SS	Probest	PINH-600	Probest	PLUV COD	Perta (open tunnel) Omega (close pipe)	PLUT30 FDT-25W
26	PT. Pratama Graha Semesta	25 Desember 2019	PLC/ADAM Data acquisition Module	SQL IO Gateway	Horiba	H1 Series (MP200/MP300) & HP 48/98	Horiba	OPSA-150	System	NS-MOC-C NH3-02 Micromac C Ammonia Colorimetric Salicylate (LFA)	Horiba	OPSA-150	Sonic (Close Pipe) Chemtec (Open Channel) EasFlo (Open Channel) Pulsar (Open Channel)	SUF 600 Model 4204-Ultrasonic Flow Transmitter EASZ-11 Pulsar OpenFlow-Open Channel Flow Measurement
27	PT. Mondyca Amerta	20 Oktober 2019 & 21 Desember 2019	MoodBerry Little Panda	M-600, M-300 Delta, Alpha	DKK-TOA Chemtec	HBM-160B 50 Series + S401 DIG	DKK-TOA Chemtec	SSF-1600 50 Series + S481 S	Chemtec	50 Series + 8470 N	DKK-TOA Chemtec	OPM-1810 50 Series + S480UV-SAC254	-	tidak dilakukan uji konektivitas
28	PT. SysCel	22 Desember 2019	Linkwise	Picobox AC1000	Kacise	KWS-750/Online pH Sensor	Kacise	KWS-950/Online TSS Sensor	Kacise	KWS-202/Online Ammonia Nitrogen Sensor	Kacise	KWS-100/COD Sensor	Kacise	KOCF3000/Ultrasonic Open Channel Flow Meter
29	PT. Prakeras Etsa Utama	22 Desember 2019	Picobox	AC 1000	Hach Kacise	pHd ec, PEEK DPD1P1 KWS-750	Hach Kacise	SolZur Online ec LXV424.99.00100 KWS-950	Hach Kacise	ARSE ec, 1mm LXV440.99.10012 KWS-202	Hach Kacise	UVAS ec, 1mm LXV418.99.10002	Chemtec Kacise Vega Siemens	S101F (Pipe) KOCF3000 (open Channel) VEGAPULS WL 61 (Open Channel) MAG 5000 (Pipe) WLI 100
30	Pisilwanda Teknisk	22 Desember 2019	King Pigeon	S272	RIKA	RK 500-02	Q2222	TCS-1000 (E)	-	-	-	-	RIKA	WLI 100

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