

ANALYTICAL REPORT

JOB GQA : 18211146

Prepared For :

CV Anugerah Alam Abadi

Desa Pekauman RT 08 RW 03 Desa Pekauman, Kec. Bondowoso
Kabupaten Bondowoso
Provinsi Jawa Timur

Attention : Mr. Arsyad

Date : April 14, 2021

Signature

Name : Leni Marliani, ST.P

Title : Technical Manager

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SAMPLE INFORMATION

Date : April 14, 2021

JOB GQA : 18211146
 Customer : CV Anugerah Alam Abadi
 Attention : Mrs. Arsyad

Laboratory Sample ID.	Customer Sample ID.	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
18211146-1	Area Produksi	Ambient Air & Dust	26-Mar-21	14:10	29-Mar-21	08:00
18211146-2	Area Pos Security	Ambient Air & Dust	26-Mar-21	13:00	29-Mar-21	08:00
18211146-3	Air Limbah Industri	Water	26-Mar-21	13:25	29-Mar-21	08:00
18211146-4	Air Bersih	Water	26-Mar-21	13:20	29-Mar-21	08:00
18211146-5	Area Produksi	Noise	26-Mar-21	14:15	29-Mar-21	08:00

LABORATORY TEST RESULTS

Job Number : 18211146	Date : April 14, 2021
Customer : CV Anugerah Alam Abadi	Attention : Mrs. Arsyad
	Coordinate : South 07° 59' 41. 88" East 113° 47' 25. 51"
Customer Sampling Point : Area Produksi	Laboratory Sample ID. : 18211146-1
Date Sampled : 26-Mar-21	Date Received : 29-Mar-21
Time Sampled : 14:10	Time Received : 08:00
Sample Matrix : Ambient Air & Dust	

NO	TEST DESCRIPTION	SAMPLE RESULT	TIME SAMPLED	REGULATORY LIMIT ***	UNIT	METHOD
	Ambient Air Quality:					
1	Nitrogen Dioxide, NO ₂ *	0.021	1 Hour	3	ppm	SNI 19-7119.2-2017
2	Sulfur Dioxide, SO ₂ *	<0.02	1 Hour	0.25	mg/Nm ³	SNI 19-7119.7-2017
3	Ammonia, NH ₃ *	0.035	1 Hour	17	mg/Nm ³	SNI 19-7119.1-2005
4	Hydrogen Sulfide, H ₂ S	<0.002	1 Hour	1	ppm	MASA Method 701
5	Dust Particulate*	2.10	1 Hour	10	mg/Nm ³	SNI 19-7119.3-2017
6	Carbon Monoxide, CO	1.18	1 Hour	29	mg/Nm ³	SNI 19-7119.10:2011
7	Oxidant, O ₃ *	0.014	1 Hour	0.2	ppm	SNI 19-7119.8-2017
8	Lead, Pb*	<0.00001	1 Hour	0.05	mg/Nm ³	SNI 19-7119.4-2017
9	Noise*	79.2	-	85	dBA	SNI 7231-2009

- (*) Accredited by KAN
- (**) Ambient Air Standard Quality Regulation, Per.Menaker No. 05 /2018
- The test results relate only to the items tested
- References sampling SNI 19.7119.6 - 2005

METEOROLOGY DATA			
NO	DESCRIPTION	RESULT	UNIT
1	Temperature	30.0	°C
2	Relative Humidity	66.5	%
3	Illumination	330	Lux

Signature

Name : Leni Marlani
Title : Technical Manager

LABORATORY TEST RESULTS

Job Number : 18211146	Date : April 14, 2021
Customer : CV Anugerah Alam Abadi	Attention : Mrs. Arsyad
	Coordinate : South 07° 59' 40.08" East 113° 47' 24.72"
Customer Sampling Point : Area Pos Security	Laboratory Sample ID. : 18211146-2
Date Sampled : 26-Mar-21	Date Received : 29-Mar-21
Time Sampled : 13:00	Time Received : 08:00
Sample Matrix : Ambient Air & Dust	

NO	TEST DESCRIPTION	SAMPLE RESULT	TIME SAMPLED	REGULATORY LIMIT ***	UNIT	METHOD
	Ambient Air Quality:					
1	Nitrogen Dioxide, NO ₂ *	24.38	1 Hour	92.5	µg/Nm ³	SNI 19-7119.2-2017
2	Sulfur Dioxide, SO ₂ *	< 20	1 Hour	262	µg/Nm ³	SNI 19-7119.7-2017
3	Ammonia, NH ₃ *	33.46	1 Hour	1360	µg/Nm ³	SNI 19-7119.1-2005
4	Hydrogen Sulfide, H ₂ S*	< 1.2	1 Hour	42	µg/Nm ³	MASA Method 701
5	Dust*	49.23	1 Hour	260	µg/Nm ³	SNI 19-7119.3-2017
6	Hydrocarbon, HC	9.17	1 Hour	160	µg/Nm ³	NIOSH 1500
7	Carbon Monoxide, CO	930.9	1 Hour	22600	µg/Nm ³	SNI 19-7119.10-2011
8	Oxidant, O ₃ *	< 12	1 Hour	200	µg/Nm ³	SNI 19-7119.8-2017
9	Lead, Pb*	<0.01	1 Hour	60	µg/Nm ³	SNI 19-7119.4-2017
10	Noise*	60.2	-	70 [#]	dBA	SNI 7231 - 2009

- (*) Accredited by KAN

- (**) Ambient Air Standard Quality Regulation, Pergub Jatim NO. 10 Tahun 2009

- The test results relate only to the items tested

- References sampling SNI 19.7119.6 - 2005

Noise Standards Quality, Kep. No.48/MENLH/11/1996 (Attachment I)

METEOROLOGY DATA			
NO	DESCRIPTION	RESULT	UNIT
1	Temperature	32.5	°C
2	Relative Humidity	65.4	%
3	Wind Speed	1.5	m/s
4	Wind Direction	East - West	-

Signature

Name : Leni Marlioni

Title : Technical Manager

LABORATORY TEST RESULTS

Job Number : 18211146	Date : April 14, 2021
Customer : CV Anugerah Alam Abadi	Attention : Mrs. Arsyad
	Coordinate : South 07° 59' 42. 71" East 113° 47' 25. 01"
Customer Sampling Point : Air Limbah Industri	Laboratory Sample ID. : 18211146-3
Date Sampled : 26-Mar-21	Date Received : 29-Mar-21
Time Sampled : 13:25	Time Received : 08:00
Sample Matrix : Water	

NO.	TEST DESCRIPTION*	SAMPLE RESULT	REGULATORY LIMIT **	UNIT	METHOD
	Physical :				
1	Temperature	28.9	-	°C	SNI 06-6989.23-2005
2	Total Suspended Solid, TSS	18	50	mg/L	SNI 6989.3:2019
	Chemical :				
1	pH	8.17	6 - 9	pH Unit	SNI 6989.11:2019
2	Biological Oxygen Demand, BOD ₅	9.47	75	mg/L	SNI 6989.72:2009
3	Chemical Oxygen Demand, COD	25.95	125	mg/L	SNI 6989.2:2019
4	Ammonia, NH ₃ -N	0.094	4	mg/L	SNI 06-6989.30-2005
5	Phenol, C ₆ H ₅ OH	0.002	0.25	mg/L	SNI 06-6989.21-2004

- (*) Accredited by KAN

- (**) Water Standard Quality Regulation, Pergub Jatim 72/2013 (Attachment I.14)

- The test results relate only to the items tested

Signature

Name : Leni Marliani

Title : Technical Manager

LABORATORY TEST RESULTS

JOB GQA : 18211146	Date : April 14, 2021
Customer : CV Anugerah Alam Abadi	Attention : Mrs. Arsyad
	Coordinate : South 07° 59' 40. 17" East 113° 47' 24. 73"
Customer Sampling Point : Air Bersih	Laboratory Sample ID. : 18211146-4
Date Sampled : 26-Mar-21	Date Received : 29-Mar-21
Time Sampled : 13:20	Time Received : 08:00
Sample Matrix : Water	

NO	TEST DESCRIPTION	SAMPLE RESULT	REGULATORY LIMIT**	UNIT	METHOD
	Physical Properties:				
1	Odor	Tidak berbau	Tidak berbau	-	Organoleptic
2	Total Dissolved Solid, TDS*	310	1000	mg/L	SNI 6989.27:2019
3	Turbidity*	0.730	25	NTU	Spektrofotometri
4	Taste	Tidak berasa	Tidak berasa	-	Organoleptic
5	Temperature*	28.3	Suhu udara ± 3	-	SNI 06-6989.23-2005
6	Color*	< 1	50	TCU	Spektrofotometri
	Chemical Anorganic Properties:				
1	Mercury, Hg*	< 0.00009	0.001	mg/L	SNI 6989-78:2019
2	Arsenic, As*	< 0.00006	0.05	mg/L	SNI 6989-81:2018
3	Iron, Fe*	< 0.013	1	mg/L	SNI 6989.84:2019
4	Fluoride, F*	0.213	1.5	mg/L	SNI 06-6989.29-2005
5	Cadmium, Cd*	< 0.00004	0.005	mg/L	SNI 06-6989.38-2005
6	Hardness Total as CaCO ₃ *	102.4	500	mg/L	SNI 06-6989.12-2004
7	Chromium hexavalent, Cr ⁶⁺	< 0.001	0.05	mg/L	SNI 6989.71:2009
8	Manganese, Mn*	<0.0007	0.5	mg/L	SNI 6989.84:2019
9	Nitrogen, Nitrate as N (NO ₃ -N)*	0.26	10	mg/L	APHA 21 ED, 4500-NO3- B
10	Nitrogen, Nitrite as N (NO ₂ -N)*	0.004	1	mg/L	SNI 06-6989.9-2004
11	pH*	7.93	6.5 - 8.5	-	SNI 6989.11:2019
12	Selenium, Se*	< 0.0001	0.01	mg/L	SNI 6989-83:2018
13	Zinc, Zn*	< 0.004	15	mg/L	SNI 6989.84:2019
14	Cyanide, CN*	0.002	0.1	mg/L	APHA 21 ED, 4500-CN-
15	Sulphate, SO ₄ ²⁻ *	15.33	400	mg/L	SNI 6989.20:2019
16	Lead, Pb*	< 0.00020	0.05	mg/L	SNI 6989.46:2009
17	Pestisida Total	< 0.00019	0.1	mg/L	Gas Chromatography
	Chemical Organic Properties:				
1	Surfactants, MBAS*	< 0.006	0.05	mg/L	SNI 06-6989.51-2005
2	Total Organic Matter, KMnO ₄ *	2.7	10	mg/L	SNI 06-6989.22-2004
	Biological Properties:				
1	Total Coliform*	0	50	MPN/100 mL	APHA 9221 B ed 22nd
2	E. Coli*	0	0	MPN/100 mL	APHA 9221 F ed 22nd

- (*) Accredited by KAN
- (**) Clean Water Standard Quality Regulation, PerMenKes No. 32/2017
- The test results relate only to the items tested
- References sampling SNI 6989.58:2008

Signature

Name : Leni Marlani
Title : Technical Manager

LABORATORY TEST RESULTS

Job Number : 18211146	Date : April 14, 2021
Customer : CV Anugerah Alam Abadi	Attention : Mrs. Arsyad
	Coordinate : South 07° 59' 41.88" East 113° 47' 25.51"
Customer Sampling Point : Area Produksi	Laboratory Sample ID. : 18211146-5
Date Sampled : 26-Mar-21	Date Received : 29-Mar-21
Time Sampled : 14:15	Time Received : 08:00
Sample Matrix : Noise	

NO.	TEST DESCRIPTION*	SAMPLE RESULT	REGULATORY LIMIT **	UNIT	METHOD
	Parameter Uji:				
1	Kebisingan Rata-Rata, L_{avg}	79.2	85	dB (A)	Sound Level Metric
2	Kebisingan Minimum, L_{min}	78.0		dB (A)	Sound Level Metric
3	Kebisingan Maksimum, L_{max}	80.1		dB (A)	Sound Level Metric

- (*) Accredited by KAN

- (**) Noise Standards Quality, Permenaker No. 5/2018

Signature

Name : Leni Marliani
Title : Technical Manager