

DAFTAR PUSTAKA

- 10-3B, S. (1993). *Tingkat Intensitas Polusi Sehubungan Dengan Pedoman Pemilihan Isolator*. Perusahaan Listrik Negara.
- Abraham, Y. (2017). *Pengujian Tegangan Tembus Pada Kabel Tegangan Rendah*. Jakarta: Universitas Negeri Jakarta.
- Admadi H, B., & Arnata, I. (2015). *Teknologi Polimer*. Denpasar: Universitas Udayana.
- Alkan, M., Hopa, C., Yilmas, Z., & Guler, H. (2005). The Effect of Alkali Concentration and Solid/Liquid Ratio on The Hydrothermal Synthesis of Zeolite NaA from Natural Kaolinite. *Elsevier, Microporous and Macroporous Materials*, 176-184.
- Arismunandar, A. (1983). *Teknik Tegangan Tinggi Suplemen*. Jakarta: Ghalia Indonesia.
- Ayman H, E.-H. (2015). Promoting Condition Monitoring and Diagnostics of Electrical Insulation in Undergraduate Capstone Graduation Projects. *IEEE*.
- Chen, C., Jia, Z., Wang, X., Lu, H., & Guan, Z. (2015). Micro Characterization and Degradation Mechanism of Liquid Silicone Rubber Used For External Insulation. *IEEE Trans. Dielectr. Electr. Insul*, 22.
- Hidayat, M. (2020). *Studi Kinerja Isolator Polimer Tegangan Menengah 20 kV Di Bawah Pengaruh Iklim Tropis*. Makassar: Universitas Hasanuddin.
- Irfan, M. (2020). *Studi Hidrofobik Isolator Polimer Dibawah Pengaruh Difusi Air dan Korona*. Makassar: Universitas Hasanuddin.
- Ismail, M., Eltayeb, M., Abdel, & Mage, M. (2013). Elimination of Heavy Metals from Aqueous Solution Using Zeolite LTA Synthesis from Suandese Clay. *Chemical Sciences*, 93-98.
- Kuffel, E., Zaengl, W., & Kuffel, J. (2000). *High Voltage Engineering Fundamental*. Butterworth-Heinemann: Oxford.
- Kusmaningrum, A. (2017). *Analisis Akselerasi Umur Isolator Polimer 20 kV Akibat Pengaruh Kontaminan Berdasarkan Pengukuran Arus Bocor*. Surabaya: Institut Teknologi Sepuluh Nopember.
- Muhammad, S. (2010, Desember 11). Pengujian Isolator Pin-Post 20 kV Terkontaminasi Garam Mengakibatkan Arus Bocor Flashover Pada Permukaan. *SNAST Periode II*.

- Murray, H. (2000). Traditional and New Application for Kaolin, Smectite, and Polygroskite. *Appl Clay Sci*, 207-221.
- Mustamin, & Manjang, S. (2010). Karakteristik Isolator Polimer Tegangan Tinggi Di Bawah Penuaan Tekanan Iklim Tropis Buatan Yang Dipercepat. *Karakteristik Isolator Polimer Tegangan Tinggi*, 5, 1-8.
- Pesa, Y., & Murdiya, F. (2017). Karakteristik Tegangan Tembus AC Pada Material Isolasi Padat Campuran Epoxy Resin Dengan Cangkang Kelapa Sawit. *Jom FTEKNIK*, 4.
- Pratiwi, A. (2013). *Mekanisme Flashover Untuk Menentukan Kinerja Isolator Polimer Yang Terkontaminasi*. Makassar: Universitas Hasanuddin.
- S, M. (1979). Pengujian Isolator Pin-Post 20 kV Terkontaminasi Garam Mengakibatkan Arus Bocor Flashover Pada Permukaan. *SNASI Periode II*.
- Sun, H., Meng, D., Zhang, B.-Y., Wu, F., & Chen, J. (2015). Performance of Liquid Silicone Rubber Exposed to Acid Fog Under DC Stress. *Annual Report Conference on Electrical Insulation and Dielectric Phenomena*. Beijing.
- Taufiq Hidayat, M. (2020). *Studi Kinerja Isolator Polimer Tegangan Menengah 20 kV Di Bawah Pengaruh Iklim Tropis*. Makassar: Universitas Hasanuddin.
- Yusrizal, A. (2014). *Analisis Distribusi Medan Listrik Pada Isolator Gantung Menggunakan CST Studio Suite*. Surabaya: Institut Teknologi Sepuluh Nopember.
- Zulkarnaen. (2014). Pengaruh Ukuran Butiran Air Hujan Terhadap Tegangan Tembus Udara. *Jurnal USU*, 7, 1-4.

LAMPIRAN

Lampiran 1. Tabel Pengambilan Data Pengukuran Sudut Kontak Pada Suhu Ruang

No	Tanggal	Waktu	Kode Sampel	Suhu (celcius)	Kelembaban (%)	Sudut Kontak									Rata-rata Nilai Sudut Kontak
						Tetes 1			Tetes 2			Tetes 3			
						Kiri	Kanan	Rata-rata	Kiri	Kanan	Rata-rata	Kiri	Kanan	Rata-rata	
1	04/04/2021	12.28	SR1	29,80	79,00	77,00	72,00	74,50	73,00	56,00	64,50	62,00	57,00	59,50	66,17
		12.34	SR2	29,80	80,00	94,00	81,00	87,50	96,00	87,00	91,50	92,00	72,00	82,00	87,00
		12.50	SR3	30,10	81,00	65,00	59,00	62,00	65,00	58,00	61,50	70,00	63,00	66,50	63,33
		12.54	SR4	30,20	81,00	63,00	56,00	59,50	64,00	52,00	58,00	73,00	72,00	72,50	63,33
		13.00	SR5	30,20	80,00	64,00	59,00	61,50	52,00	48,00	50,00	69,00	63,00	66,00	59,17
2	05/04/2021	12.28	SR1	33,90	52,00	50,00	88,00	69,00	55,00	67,00	61,00	66,00	66,00	66,00	65,33
		12.34	SR2	31,80	63,00	78,00	72,00	75,00	82,00	71,00	76,50	90,00	86,00	88,00	79,83
		12.50	SR3	30,20	72,00	61,00	52,00	56,50	68,00	66,00	67,00	73,00	69,00	71,00	64,83
		12.54	SR4	30,10	71,00	52,00	54,00	53,00	52,00	53,00	52,50	55,00	86,00	70,50	58,67

		13.0 0	SR5	30,00	72,00	51,0 0	71,0 0	61,00	56,0 0	61,0 0	58,50	69,0 0	70,0 0	69,50	63,00
3	06/04/20 21	12.2 8	SR1	29,40	74,00	65,0 0	75,0 0	70,00	62,0 0	68,0 0	65,00	53,0 0	60,0 0	56,50	63,83
		12.3 4	SR2	29,10	77,00	86,0 0	64,0 0	75,00	90,0 0	90,0 0	90,00	89,0 0	88,0 0	88,50	84,50
		12.5 0	SR3	29,10	79,00	89,0 0	83,0 0	86,00	60,0 0	80,0 0	70,00	77,0 0	73,0 0	75,00	77,00
		12.5 4	SR4	29,10	80,00	69,0 0	64,0 0	66,50	56,0 0	62,0 0	59,00	75,0 0	68,0 0	71,50	65,67
		13.0 0	SR5	29,10	81,00	54,0 0	63,0 0	58,50	66,0 0	53,0 0	59,50	59,0 0	70,0 0	64,50	60,83
4	07/04/20 21	12.2 8	SR1	28,80	67,00	53,0 0	67,0 0	60,00	68,0 0	55,0 0	61,50	74,0 0	80,0 0	77,00	66,17
		12.3 4	SR2	28,60	70,00	77,0 0	85,0 0	81,00	90,0 0	71,0 0	80,50	92,0 0	83,0 0	87,50	83,00
		12.5 0	SR3	28,20	75,00	61,0 0	60,0 0	60,50	63,0 0	61,0 0	62,00	65,0 0	66,0 0	65,50	62,67
		12.5 4	SR4	28,20	76,00	80,0 0	67,0 0	73,50	92,0 0	88,0 0	90,00	79,0 0	76,0 0	77,50	80,33
		13.0 0	SR5	28,20	77,00	77,0 0	58,0 0	67,50	65,0 0	68,0 0	66,50	52,0 0	54,0 0	53,00	62,33
5	08/04/20 21	12.2 8	SR1	28,80	67,00	70,0 0	79,0 0	74,50	70,0 0	65,0 0	67,50	77,0 0	86,0 0	81,50	74,50
		12.3 4	SR2	28,40	70,00	77,0 0	86,0 0	81,50	70,0 0	68,0 0	69,00	83,0 0	69,0 0	76,00	75,50
		12.5 0	SR3	27,80	74,00	67,0 0	84,0 0	75,50	68,0 0	79,0 0	73,50	62,0 0	57,0 0	59,50	69,50

		12.5 4	SR4	27,80	75,00	69,0 0	70,0 0	69,50	69,0 0	75,0 0	72,00	70,0 0	63,0 0	66,50	69,33
		13.0 0	SR5	27,80	76,00	62,0 0	67,0 0	64,50	63,0 0	70,0 0	66,50	68,0 0	64,0 0	66,00	65,67
6	09/04/20 21	12.2 8	SR1	29,70	68,00	81,0 0	68,0 0	74,50	77,0 0	65,0 0	71,00	81,0 0	84,0 0	82,50	76,00
		12.3 4	SR2	29,20	69,00	80,0 0	65,0 0	72,50	78,0 0	82,0 0	80,00	67,0 0	71,0 0	69,00	73,83
		12.5 0	SR3	29,10	72,00	73,0 0	69,0 0	71,00	86,0 0	76,0 0	81,00	84,0 0	80,0 0	82,00	78,00
		12.5 4	SR4	29,10	72,00	69,0 0	67,0 0	68,00	79,0 0	71,0 0	75,00	75,0 0	74,0 0	74,50	72,50
		13.0 0	SR5	29,40	75,00	63,0 0	67,0 0	65,00	66,0 0	66,0 0	66,00	76,0 0	68,0 0	72,00	67,67
7	10/04/20 21	12.2 8	SR1	30,80	60,00	70,0 0	69,0 0	69,50	70,0 0	68,0 0	69,00	66,0 0	57,0 0	61,50	66,67
		12.3 4	SR2	29,90	64,00	70,0 0	69,0 0	69,50	82,0 0	71,0 0	76,50	68,0 0	63,0 0	65,50	70,50
		12.5 0	SR3	28,80	72,00	70,0 0	61,0 0	65,50	69,0 0	70,0 0	69,50	78,0 0	81,0 0	79,50	71,50
		12.5 4	SR4	28,70	72,00	66,0 0	72,0 0	69,00	68,0 0	77,0 0	72,50	68,0 0	64,0 0	66,00	69,17
		13.0 0	SR5	29,10	71,00	71,0 0	56,0 0	63,50	69,0 0	61,0 0	65,00	67,0 0	70,0 0	68,50	65,67
8	11/04/20 21	12.2 8	SR1	29,70	65,00	58,0 0	61,0 0	59,50	66,0 0	58,0 0	62,00	76,0 0	67,0 0	71,50	64,33
		12.3 4	SR2	29,50	66,00	86,0 0	101, 00	93,50	71,0 0	88,0 0	79,50	69,0 0	74,0 0	71,50	81,50

		12.5 0	SR3	29,40	69,00	74,0 0	75,0 0	74,50	73,0 0	83,0 0	78,00	66,0 0	56,0 0	61,00	71,17
		12.5 4	SR4	29,40	70,00	67,0 0	83,0 0	75,00	75,0 0	78,0 0	76,50	80,0 0	66,0 0	73,00	74,83
		13.0 0	SR5	29,40	70,00	83,0 0	65,0 0	74,00	50,0 0	50,0 0	50,00	75,0 0	74,0 0	74,50	66,17
9	12/04/20 21	12.2 8	SR1	31,30	59,00	74,0 0	66,0 0	70,00	61,0 0	67,0 0	64,00	90,0 0	75,0 0	82,50	72,17
		12.3 4	SR2	30,50	62,00	84,0 0	84,0 0	84,00	79,0 0	77,0 0	78,00	83,0 0	80,0 0	81,50	81,17
		12.5 0	SR3	29,80	65,00	75,0 0	75,0 0	75,00	68,0 0	78,0 0	73,00	96,0 0	84,0 0	90,00	79,33
		12.5 4	SR4	29,60	65,00	66,0 0	67,0 0	66,50	90,0 0	78,0 0	84,00	75,0 0	73,0 0	74,00	74,83
		13.0 0	SR5	29,60	66,00	64,0 0	59,0 0	61,50	68,0 0	63,0 0	65,50	92,0 0	74,0 0	83,00	70,00
10	13/04/20 21	12.2 8	SR1	29,40	60,00	72,0 0	72,0 0	72,00	82,0 0	89,0 0	85,50	90,0 0	76,0 0	83,00	80,17
		12.3 4	SR2	29,20	61,00	80,0 0	80,0 0	80,00	84,0 0	84,0 0	84,00	84,0 0	90,0 0	87,00	83,67
		12.5 0	SR3	29,10	66,00	76,0 0	74,0 0	75,00	90,0 0	67,0 0	78,50	71,0 0	70,0 0	70,50	74,67
		12.5 4	SR4	29,70	65,00	67,0 0	67,0 0	67,00	78,0 0	70,0 0	74,00	83,0 0	77,0 0	80,00	73,67
		13.0 0	SR5	29,00	65,00	73,0 0	69,0 0	71,00	70,0 0	80,0 0	75,00	73,0 0	64,0 0	68,50	71,50
11	14/04/20 21	12.2 8	SR1	27,50	71,00	84,0 0	90,0 0	87,00	121, 00	90,0 0	105,5 0	81,0 0	70,0 0	75,50	89,33

		12.3 4	SR2	27,80	68,00	111, 00	92,0 0	101,5 0	78,0 0	89,0 0	83,50	80,0 0	130, 00	105,0 0	96,67
		12.5 0	SR3	28,20	70,00	67,0 0	71,0 0	69,00	75,0 0	60,0 0	67,50	79,0 0	129, 00	104,0 0	80,17
		12.5 4	SR4	28,20	70,00	78,0 0	74,0 0	76,00	70,0 0	75,0 0	72,50	80,0 0	60,0 0	70,00	72,83
		13.0 0	SR5	28,30	70,00	75,0 0	65,0 0	70,00	64,0 0	58,0 0	61,00	74,0 0	59,0 0	66,50	65,83
12	15/04/20 21	12.2 8	SR1	27,10	69,00	72,0 0	65,0 0	68,50	64,0 0	71,0 0	67,50	66,0 0	69,0 0	67,50	67,83
		12.3 4	SR2	27,40	70,00	110, 00	74,0 0	92,00	93,0 0	132, 00	112,5 0	93,0 0	87,0 0	90,00	98,17
		12.5 0	SR3	27,90	70,00	73,0 0	87,0 0	80,00	70,0 0	83,0 0	76,50	85,0 0	62,0 0	73,50	76,67
		12.5 4	SR4	28,10	70,00	63,0 0	53,0 0	58,00	64,0 0	88,0 0	76,00	114, 00	71,0 0	92,50	75,50
		13.0 0	SR5	28,20	70,00	69,0 0	64,0 0	66,50	81,0 0	74,0 0	77,50	75,0 0	87,0 0	81,00	75,00
13	16/04/20 21	12.2 8	SR1	30,20	54,00	83,0 0	84,0 0	83,50	73,0 0	88,0 0	80,50	90,0 0	73,0 0	81,50	81,83
		12.3 4	SR2	29,90	57,00	88,0 0	84,0 0	86,00	90,0 0	90,0 0	90,00	90,0 0	90,0 0	90,00	88,67
		12.5 0	SR3	29,40	60,00	69,0 0	76,0 0	72,50	73,0 0	82,0 0	77,50	129, 00	114, 00	121,5 0	90,50
		12.5 4	SR4	29,40	60,00	66,0 0	83,0 0	74,50	69,0 0	65,0 0	67,00	82,0 0	66,0 0	74,00	71,83
		13.0 0	SR5	29,40	60,00	115, 00	63,0 0	89,00	63,0 0	84,0 0	73,50	86,0 0	68,0 0	77,00	79,83

14	17/04/20 21	12.2 8	SR1	30,40	50,00	82,0 0	87,0 0	84,50	84,0 0	83,0 0	83,50	82,0 0	97,0 0	89,50	85,83
		12.3 4	SR2	30,10	53,00	85,0 0	81,0 0	83,00	104, 00	95,0 0	99,50	85,0 0	93,0 0	89,00	90,50
		12.5 0	SR3	29,80	56,00	86,0 0	115, 00	100,5 0	79,0 0	78,0 0	78,50	81,0 0	71,0 0	76,00	85,00
		12.5 4	SR4	29,80	56,00	66,0 0	77,0 0	71,50	79,0 0	85,0 0	82,00	69,0 0	79,0 0	74,00	75,83
		13.0 0	SR5	29,80	57,00	69,0 0	82,0 0	75,50	69,0 0	66,0 0	67,50	69,0 0	57,0 0	63,00	68,67
15	18/04/20 21	12.2 8	SR1	30,90	57,00	72,0 0	87,0 0	79,50	90,0 0	76,0 0	83,00	106, 00	83,0 0	94,50	85,67
		12.3 4	SR2	30,80	59,00	108, 00	106, 00	107,0 0	90,0 0	90,0 0	90,00	98,0 0	84,0 0	91,00	96,00
		12.5 0	SR3	30,60	61,00	80,0 0	76,0 0	78,00	84,0 0	90,0 0	87,00	76,0 0	69,0 0	72,50	79,17
		12.5 4	SR4	30,60	61,00	68,0 0	90,0 0	79,00	69,0 0	67,0 0	68,00	80,0 0	67,0 0	73,50	73,50
		13.0 0	SR5	30,60	62,00	116, 00	72,0 0	94,00	75,0 0	78,0 0	76,50	75,0 0	76,0 0	75,50	82,00
16	19/04/20 21	12.2 8	SR1	29,10	58,00	98,0 0	64,0 0	81,00	81,0 0	74,0 0	77,50	71,0 0	80,0 0	75,50	78,00
		12.3 4	SR2	29,40	60,00	94,0 0	123, 00	108,5 0	93,0 0	77,0 0	85,00	91,0 0	93,0 0	92,00	95,17
		12.5 0	SR3	30,00	62,00	67,0 0	121, 00	94,00	103, 00	64,0 0	83,50	116, 00	88,0 0	102,0 0	93,17
		12.5 4	SR4	30,10	62,00	131, 00	137, 00	134,0 0	61,0 0	57,0 0	59,00	78,0 0	65,0 0	71,50	88,17

		13.0 0	SR5	30,20	62,00	81,0 0	84,0 0	82,50	86,0 0	120, 00	103,0 0	126, 00	57,0 0	91,50	92,33
17	20/04/20 21	12.2 8	SR1	31,50	45,00	80,0 0	86,0 0	83,00	83,0 0	83,0 0	83,00	76,0 0	83,0 0	79,50	81,83
		12.3 4	SR2	30,80	50,00	81,0 0	75,0 0	78,00	90,0 0	90,0 0	90,00	93,0 0	82,0 0	87,50	85,17
		12.5 0	SR3	30,20	57,00	93,0 0	82,0 0	87,50	65,0 0	67,0 0	66,00	85,0 0	84,0 0	84,50	79,33
		12.5 4	SR4	30,20	57,00	65,0 0	67,0 0	66,00	85,0 0	84,0 0	84,50	75,0 0	80,0 0	77,50	76,00
		13.0 0	SR5	30,20	59,00	71,0 0	85,0 0	78,00	81,0 0	75,0 0	78,00	89,0 0	87,0 0	88,00	81,33
18	21/04/20 21	12.2 8	SR1	29,80	51,00	81,0 0	76,0 0	78,50	115, 00	87,0 0	101,0 0	104, 00	96,0 0	100,0 0	93,17
		12.3 4	SR2	29,70	51,00	85,0 0	81,0 0	83,00	90,0 0	83,0 0	86,50	108, 00	97,0 0	102,5 0	90,67
		12.5 0	SR3	29,60	55,00	100, 00	62,0 0	81,00	78,0 0	88,0 0	83,00	75,0 0	82,0 0	78,50	80,83
		12.5 4	SR4	29,70	55,00	73,0 0	74,0 0	73,50	57,0 0	57,0 0	57,00	78,0 0	66,0 0	72,00	67,50
		13.0 0	SR5	29,90	55,00	73,0 0	71,0 0	72,00	84,0 0	66,0 0	75,00	77,0 0	60,0 0	68,50	71,83
19	22/04/20 21	12.2 8	SR1	29,90	56,00	78,0 0	107, 00	92,50	72,0 0	71,0 0	71,50	72,0 0	86,0 0	79,00	81,00
		12.3 4	SR2	30,10	57,00	99,0 0	85,0 0	92,00	87,0 0	83,0 0	85,00	77,0 0	71,0 0	74,00	83,67
		12.5 0	SR3	30,40	60,00	82,0 0	68,0 0	75,00	85,0 0	77,0 0	81,00	80,0 0	77,0 0	78,50	78,17

		12.5 4	SR4	30,80	61,00	67,0 0	71,0 0	69,00	76,0 0	65,0 0	70,50	62,0 0	65,0 0	63,50	67,67
		13.0 0	SR5	31,10	61,00	64,0 0	66,0 0	65,00	68,0 0	68,0 0	68,00	80,0 0	82,0 0	81,00	71,33
20	23/04/20 21	12.2 8	SR1	31,40	51,00	93,0 0	77,0 0	85,00	75,0 0	81,0 0	78,00	88,0 0	86,0 0	87,00	83,33
		12.3 4	SR2	31,10	52,00	82,0 0	81,0 0	81,50	85,0 0	83,0 0	84,00	92,0 0	80,0 0	86,00	83,83
		12.5 0	SR3	30,80	56,00	74,0 0	90,0 0	82,00	75,0 0	77,0 0	76,00	73,0 0	112, 00	92,50	83,50
		12.5 4	SR4	30,80	57,00	62,0 0	59,0 0	60,50	67,0 0	78,0 0	72,50	82,0 0	80,0 0	81,00	71,33
		13.0 0	SR5	30,80	59,00	85,0 0	79,0 0	82,00	77,0 0	80,0 0	78,50	64,0 0	65,0 0	64,50	75,00
21	24/04/20 21	12.2 8	SR1	30,90	53,00	83,0 0	79,0 0	81,00	81,0 0	92,0 0	86,50	82,0 0	79,0 0	80,50	82,67
		12.3 4	SR2	30,80	55,00	81,0 0	80,0 0	80,50	94,0 0	100, 00	97,00	93,0 0	83,0 0	88,00	88,50
		12.5 0	SR3	30,60	59,00	72,0 0	71,0 0	71,50	76,0 0	102, 00	89,00	65,0 0	73,0 0	69,00	76,50
		12.5 4	SR4	30,50	59,00	111, 00	64,0 0	87,50	92,0 0	65,0 0	78,50	83,0 0	123, 00	103,0 0	89,67
		13.0 0	SR5	30,70	60,00	79,0 0	77,0 0	78,00	78,0 0	86,0 0	82,00	66,0 0	85,0 0	75,50	78,50
22	25/04/20 21	12.2 8	SR1	31,20	62,00	83,0 0	78,0 0	80,50	85,0 0	86,0 0	85,50	107, 00	125, 00	116,0 0	94,00
		12.3 4	SR2	31,30	64,00	85,0 0	87,0 0	86,00	87,0 0	89,0 0	88,00	76,0 0	83,0 0	79,50	84,50

		12.5 0	SR3	31,10	65,00	74,0 0	81,0 0	77,50	120, 00	80,0 0	100,0 0	87,0 0	87,0 0	87,00	88,17
		12.5 4	SR4	31,20	66,00	92,0 0	83,0 0	87,50	86,0 0	72,0 0	79,00	74,0 0	78,0 0	76,00	80,83
		13.0 0	SR5	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
23	26/04/20 21	12.2 8	SR1	32,90	52,00	81,0 0	115, 00	98,00	71,0 0	106, 00	88,50	95,0 0	85,0 0	90,00	92,17
		12.3 4	SR2	32,50	55,00	75,0 0	78,0 0	76,50	84,0 0	86,0 0	85,00	84,0 0	72,0 0	78,00	79,83
		12.5 0	SR3	31,50	58,00	84,0 0	83,0 0	83,50	71,0 0	70,0 0	70,50	75,0 0	70,0 0	72,50	75,50
		12.5 4	SR4	31,40	59,00	79,0 0	64,0 0	71,50	84,0 0	74,0 0	79,00	76,0 0	116, 00	96,00	82,17
		13.0 0	SR5	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
24	27/04/20 21	12.2 8	SR1	29,30	58,00	72,0 0	74,0 0	73,00	74,0 0	70,0 0	72,00	68,0 0	66,0 0	67,00	70,67
		12.3 4	SR2	30,10	58,00	86,0 0	72,0 0	79,00	109, 00	72,0 0	90,50	73,0 0	73,0 0	73,00	80,83
		12.5 0	SR3	30,90	57,00	80,0 0	77,0 0	78,50	89,0 0	74,0 0	81,50	77,0 0	84,0 0	80,50	80,17
		12.5 4	SR4	31,00	57,00	70,0 0	73,0 0	71,50	79,0 0	69,0 0	74,00	76,0 0	72,0 0	74,00	73,17
		13.0 0	SR5	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
25	28/04/20 21	12.2 8	SR1	30,00	58,00	76	81	78,50	83	69	76,00	67	71	69,00	74,50

		12.3 4	SR2	31,00	59,00	86	85	85,50	100	82	91,00	87	68	77,50	84,67
		12.5 0	SR3	31,3	55	82	85	83,50	85	78	81,50	84	82	83,00	82,67
		12.5 4	SR4	31,3	56	83	72	77,50	69	77	73,00	75	66	70,50	73,67
		13.0 0	SR5	0	0	0	0	0,00	0	0	0,00	0	0	0,00	0,00
26	05/05/20 21	12.2 8	SR1	32	58	84	76	80,00	77	83	80,00	83	81	82,00	80,67
		12.3 4	SR2	31,5	61	83	78	80,50	84	83	83,50	70	79	74,50	79,50
		12.5 0	SR3	31,1	65	69	76	72,50	77	76	76,50	94	78	86,00	78,33
		12.5 4	SR4	30,9	65	85	85	85,00	95	82	88,50	77	81	79,00	84,17
		13.0 0	SR5	0	0	0	0	0,00	0	0	0,00	0	0	0,00	0,00
27	10/05/20 21	12.2 8	SR1	29,6	64	83	82	82,50	96	76	86,00	72	77	74,50	81,00
		12.3 4	SR2	29,5	65	79	99	89,00	69	87	78,00	81	77	79,00	82,00
		12.5 0	SR3	29,2	68	88	87	87,50	92	83	87,50	87	87	87,00	87,33
		12.5 4	SR4	29,3	69	106	81	93,50	70	78	74,00	82	82	82,00	83,17
		13.0 0	SR5	0	0	0	0	0,00	0	0	0,00	0	0	0,00	0,00

28	12/05/2021	12.28	SR1	32,5	54	77	70	73,50	74	90	82,00	87	76	81,50	79,00
		12.34	SR2	31,8	57	80	81	80,50	84	86	85,00	86	85	85,50	83,67
		12.50	SR3	31,2	62	68	75	71,50	81	93	87,00	78	107	92,50	83,67
		12.54	SR4	31,2	62	65	80	72,50	84	74	79,00	74	83	78,50	76,67
		13.00	SR5	0	0	0	0	0	0	0	0	0	0	0	0
29	09/06/2021	12.28	SR1	32,2	48	81	81	81	74	67	70,5	74	78	76	75,83
		12.34	SR2	31,5	51	74	66	70	73	74	73,5	78	86	82	75,17
		12.50	SR3	30,8	54	93	90	91,5	84	82	83	82	77	79,5	84,67
		12.54	SR4	30,8	55	77	83	80	73	74	73,5	74	75	74,5	76,00
		13.00	SR5	0	0	0	0	0	0	0	0	0	0	0	0
30	09/06/2021	12.28	SR1	31	56	77	77	77	78	77	77,5	82	78	80	78,17
		12.34	SR2	31	55	79	73	76	75	76	75,5	75	72	73,5	75,00
		12.50	SR3	31,2	54	84	83	83,5	77	84	80,5	70	88	79	81,00
		12.54	SR4	32	53	77	89	83	68	78	73	75	81	78	78,00

		13.0 0	SR5	0	0	0	0	0	0	0	0	0	0	0	0,00
31	01/07/20 21	12.2 8	SR1	31	56	89	96	92,5	86	86	86	106	85	95,5	91,33
		12.3 4	SR2	31	55	80	74	77	90	78	84	89	81	85	82,00
		12.5 0	SR3	0	0	0	0	0	0	0	0	0	0	0	0
		12.5 4	SR4	0	0	0	0	0	0	0	0	0	0	0	0
		13.0 0	SR5	0	0	0	0	0	0	0	0	0	0	0	0

Lampiran 2. Tabel Pengambilan Data Pengukuran Sudut Kontak Pada Suhu Rekondisi/Penuaan

No	Tanggal	Waktu	Kode Sampel	Suhu (celcius)	Kelembaban (%)	Sudut Kontak									Rata-rata Nilai Sudut Kontak
						Tetes 1			Tetes 2			Tetes 3			
						Kiri	Kanan	Rata-rata	Kiri	Kanan	Rata-rata	Kiri	Kanan	Rata-rata	
1	04/04/20 21	11.3 3	ST1	31,00	73,00	45,0 0	47,0 0	46,00	63,0 0	54,0 0	58,50	55,0 0	66,0 0	60,50	55,00
		11.4 1	ST2	33,30	60,00	110,00	78,0 0	94,00	59,0 0	69,0 0	64,00	66,0 0	79,0 0	72,50	76,83
		11.5 2	ST3	33,00	59,00	85,0 0	61,0 0	73,00	47,0 0	56,0 0	51,50	85,0 0	69,0 0	77,00	67,17

		12.0 2	ST4	34,00	55,00	78,0 0	59,0 0	68,50	73,0 0	84,0 0	78,50	61,0 0	84,0 0	72,50	73,17
		13.4 4	ST5	33,00	56,00	42,0 0	51,0 0	46,50	40,0 0	46,0 0	43,00	45,0 0	60,0 0	52,50	47,33
2	05/04/20 21	11.3 3	ST1	25,80	77,00	42,0 0	51,0 0	46,50	56,0 0	60,0 0	58,00	45,0 0	55,0 0	50,00	51,50
		11.4 1	ST2	27,90	68,00	68,0 0	62,0 0	65,00	59,0 0	55,0 0	57,00	90,0 0	61,0 0	75,50	65,83
		11.5 2	ST3	30,30	59,00	90,0 0	75,0 0	82,50	90,0 0	90,0 0	90,00	75,0 0	85,0 0	80,00	84,17
		12.0 2	ST4	31,50	55,00	79,0 0	43,0 0	61,00	65,0 0	55,0 0	60,00	77,0 0	61,0 0	69,00	63,33
		13.4 4	ST5	33,50	45,00	64,0 0	53,0 0	58,50	33,0 0	48,0 0	40,50	70,0 0	57,0 0	63,50	54,17
3	06/04/20 21	11.3 3	ST1	30,90	69,00	85,0 0	44,0 0	64,50	56,0 0	57,0 0	56,50	61,0 0	86,0 0	73,50	64,83
		11.4 1	ST2	31,20	62,00	64,0 0	67,0 0	65,50	66,0 0	59,0 0	62,50	52,0 0	83,0 0	67,50	65,17
		11.5 2	ST3	32,80	57,00	90,0 0	71,0 0	80,50	78,0 0	86,0 0	82,00	90,0 0	83,0 0	86,50	83,00
		12.0 2	ST4	33,10	56,00	71,0 0	58,0 0	64,50	73,0 0	55,0 0	64,00	68,0 0	76,0 0	72,00	66,83
		13.4 4	ST5	30,00	46,00	56,0 0	52,0 0	54,00	52,0 0	68,0 0	60,00	54,0 0	63,0 0	58,50	57,50
4	07/04/20 21	11.3 3	ST1	30,80	47,00	76,0 0	62,0 0	69,00	66,0 0	80,0 0	73,00	61,0 0	63,0 0	62,00	68,00
		11.4 1	ST2	29,80	46,00	67,0 0	73,0 0	70,00	78,0 0	85,0 0	81,50	77,0 0	77,0 0	77,00	76,17

		11.5 2	ST3	30,40	47,00	90,0 0	134, 00	112,0 0	83,0 0	77,0 0	80,00	90,0 0	84,0 0	87,00	93,00
		12.0 2	ST4	30,80	48,00	71,0 0	72,0 0	71,50	79,0 0	82,0 0	80,50	83,0 0	80,0 0	81,50	77,83
		13.4 4	ST5	30,90	59,00	50,0 0	50,0 0	50,00	56,0 0	47,0 0	51,50	68,0 0	67,0 0	67,50	56,33
5	08/04/20 21	11.3 3	ST1	31,50	62,00	57,0 0	55,0 0	56,00	64,0 0	51,0 0	57,50	70,0 0	73,0 0	71,50	61,67
		11.4 1	ST2	31,20	59,00	66,0 0	88,0 0	77,00	76,0 0	57,0 0	66,50	77,0 0	70,0 0	73,50	72,33
		11.5 2	ST3	32,00	56,00	81,0 0	55,0 0	68,00	72,0 0	56,0 0	64,00	79,0 0	84,0 0	81,50	71,17
		12.0 2	ST4	32,20	54,00	65,0 0	65,0 0	65,00	65,0 0	66,0 0	65,50	85,0 0	94,0 0	89,50	73,33
		13.4 4	ST5	34,4	42	51,0 0	56,0 0	53,50	64,0 0	69,0 0	66,50	49,0 0	55,0 0	52,00	57,33
6	09/04/20 21	11.3 3	ST1	34,00	54,00	68,0 0	55,0 0	61,50	81,0 0	69,0 0	75,00	70,0 0	63,0 0	66,50	67,67
		11.4 1	ST2	33,50	53,00	65,0 0	77,0 0	71,00	59,0 0	59,0 0	59,00	59,0 0	75,0 0	67,00	65,67
		11.5 2	ST3	33,30	53,00	76,0 0	86,0 0	81,00	109, 00	90,0 0	99,50	72,0 0	76,0 0	74,00	84,83
		12.0 2	ST4	33,10	53,00	79,0 0	87,0 0	83,00	76,0 0	90,0 0	83,00	90,0 0	90,0 0	90,00	85,33
		13.4 4	ST5	35,4	39	73,0 0	77,0 0	75,00	67,0 0	74,0 0	70,50	74,0 0	55,0 0	64,50	70,00
7	10/04/20 21	11.3 3	ST1	28,50	73,00	66,0 0	63,0 0	64,50	69,0 0	70,0 0	69,50	68,0 0	68,0 0	68,00	67,33

		11.4 1	ST2	30,70	65,00	73,0 0	66,0 0	69,50	74,0 0	70,0 0	72,00	67,0 0	74,0 0	70,50	70,67
		11.5 2	ST3	32,20	56,00	83,0 0	81,0 0	82,00	80,0 0	83,0 0	81,50	76,0 0	84,0 0	80,00	81,17
		12.0 2	ST4	32,30	53,00	87,0 0	86,0 0	86,50	77,0 0	79,0 0	78,00	76,0 0	72,0 0	74,00	79,50
		13.4 4	ST5	36,6	41	66,0 0	64,0 0	65,00	64,0 0	60,0 0	62,00	78,0 0	81,0 0	79,50	68,83
8	11/04/20 21	11.3 3	ST1	35,10	51,00	74,0 0	61,0 0	67,50	70,0 0	61,0 0	65,50	102, 00	78,0 0	90,00	74,33
		11.4 1	ST2	34,20	49,00	67,0 0	72,0 0	69,50	74,0 0	68,0 0	71,00	67,0 0	66,0 0	66,50	69,00
		11.5 2	ST3	33,80	49,00	75,0 0	90,0 0	82,50	81,0 0	87,0 0	84,00	81,0 0	103, 00	92,00	86,17
		12.0 2	ST4	32,90	49,00	79,0 0	66,0 0	72,50	79,0 0	78,0 0	78,50	89,0 0	79,0 0	84,00	78,33
		13.4 4	ST5	34	36	80,0 0	64,0 0	72,00	74,0 0	62,0 0	68,00	68,0 0	83,0 0	75,50	71,83
9	12/04/20 21	11.3 3	ST1	31,90	66,00	75,0 0	67,0 0	71,00	69,0 0	54,0 0	61,50	59,0 0	57,0 0	58,00	63,50
		11.4 1	ST2	32,40	62,00	75,0 0	60,0 0	67,50	79,0 0	115, 00	97,00	75,0 0	60,0 0	67,50	77,33
		11.5 2	ST3	33,10	57,00	80,0 0	63,0 0	71,50	90,0 0	86,0 0	88,00	79,0 0	85,0 0	82,00	80,50
		12.0 2	ST4	33,40	56,00	73,0 0	90,0 0	81,50	84,0 0	82,0 0	83,00	78,0 0	82,0 0	80,00	81,50
		13.4 4	ST5	33	31	54,0 0	64,0 0	59,00	59,0 0	64,0 0	61,50	67,0 0	72,0 0	69,50	63,33

10	13/04/20 21	11.3 3	ST1	36,90	34,00	68,0 0	73,0 0	70,50	69,0 0	79,0 0	74,00	75,0 0	73,0 0	74,00	72,83
		11.4 1	ST2	34,50	39,00	66,0 0	55,0 0	60,50	71,0 0	64,0 0	67,50	66,0 0	86,0 0	76,00	68,00
		11.5 2	ST3	33,80	42,00	117, 00	94,0 0	105,5 0	93,0 0	90,0 0	91,50	72,0 0	83,0 0	77,50	91,50
		12.0 2	ST4	33,10	45,00	81,0 0	76,0 0	78,50	76,0 0	67,0 0	71,50	72,0 0	71,0 0	71,50	73,83
		13.4 4	ST5	34	32	67,0 0	90,0 0	78,50	69,0 0	74,0 0	71,50	75,0 0	78,0 0	76,50	75,50
11	14/04/20 21	11.3 3	ST1	27,00	50,00	91,0 0	79,0 0	85,00	86,0 0	87,0 0	86,50	69,0 0	71,0 0	70,00	80,50
		11.4 1	ST2	27,50	52,00	88,0 0	75,0 0	81,50	77,0 0	75,0 0	76,00	84,0 0	74,0 0	79,00	78,83
		11.5 2	ST3	29,60	47,00	92,0 0	88,0 0	90,00	80,0 0	83,0 0	81,50	82,0 0	85,0 0	83,50	85,00
		12.0 2	ST4	30,40	45,00	100, 00	72,0 0	86,00	84,0 0	65,0 0	74,50	80,0 0	83,0 0	81,50	80,67
		13.4 4	ST5	33	31	82,0 0	63,0 0	72,50	75,0 0	77,0 0	76,00	82,0 0	76,0 0	79,00	75,83
12	15/04/20 21	11.3 3	ST1	29,20	61,00	80,0 0	121, 00	100,5 0	75,0 0	81,0 0	78,00	84,0 0	78,0 0	81,00	86,50
		11.4 1	ST2	29,50	57,00	75,0 0	117, 00	96,00	76,0 0	70,0 0	73,00	95,0 0	82,0 0	88,50	85,83
		11.5 2	ST3	30,20	55,00	95,0 0	90,0 0	92,50	84,0 0	90,0 0	87,00	78,0 0	79,0 0	78,50	86,00
		12.0 2	ST4	30,50	52,00	81,0 0	116, 00	98,50	79,0 0	90,0 0	84,50	70,0 0	88,0 0	79,00	87,33

		13.4 4	ST5	35,9	31	84,0 0	90,0 0	87,00	80,0 0	84,0 0	82,00	80,0 0	85,0 0	82,50	83,83
13	16/04/20 21	11.3 3	ST1	33,3	42	61,0 0	66,0 0	63,50	81,0 0	82,0 0	81,50	74,0 0	62,0 0	68,00	71,00
		11.4 1	ST2	32,5	44	116, 00	88,0 0	102,0 0	81,0 0	75,0 0	78,00	63,0 0	67,0 0	65,00	81,67
		11.5 2	ST3	32,5	46	79,0 0	125, 00	102,0 0	79,0 0	57,0 0	68,00	81,0 0	87,0 0	84,00	84,67
		12.0 2	ST4	32,5	47	83,0 0	79,0 0	81,00	72,0 0	78,0 0	75,00	74,0 0	73,0 0	73,50	76,50
		13.4 4	ST5	35,4	36	75,0 0	86,0 0	80,50	80,0 0	75,0 0	77,50	76,0 0	85,0 0	80,50	79,50
14	17/04/20 21	11.3 3	ST1	35,8	30	90,0 0	83,0 0	86,50	69,0 0	80,0 0	74,50	90,0 0	90,0 0	90,00	83,67
		11.4 1	ST2	34,1	26	90,0 0	123, 00	106,5 0	101, 00	76,0 0	88,50	92,0 0	82,0 0	87,00	94,00
		11.5 2	ST3	33,4	27	84,0 0	80,0 0	82,00	112, 00	117, 00	114,5 0	79,0 0	110, 00	94,50	97,00
		12.0 2	ST4	33	30	96,0 0	90,0 0	93,00	78,0 0	86,0 0	82,00	70,0 0	73,0 0	71,50	82,17
		13.4 4	ST5	36,5	39	63,0 0	62,0 0	62,50	72,0 0	64,0 0	68,00	88,0 0	66,0 0	77,00	69,17
15	18/04/20 21	11.3 3	ST1	36,8	32	74,0 0	85,0 0	79,50	68,0 0	69,0 0	68,50	79,0 0	79,0 0	79,00	75,67
		11.4 1	ST2	35,8	35	81,0 0	76,0 0	78,50	69,0 0	69,0 0	69,00	82,0 0	83,0 0	82,50	76,67
		11.5 2	ST3	35,3	36	71,0 0	83,0 0	77,00	90,0 0	123, 00	106,5 0	103, 00	90,0 0	96,50	93,33

		12.0 2	ST4	35	36	79,0 0	69,0 0	74,00	77,0 0	91,0 0	84,00	75,0 0	84,0 0	79,50	79,17
		13.4 4	ST5	37	39	70,0 0	75,0 0	72,50	73,0 0	72,0 0	72,50	102,00	72,0 0	87,00	77,33
16	19/04/20 21	11.3 3	ST1	34,8	29	76,0 0	90,0 0	83,00	80,0 0	62,0 0	71,00	79,0 0	78,0 0	78,50	77,50
		11.4 1	ST2	33	34	83,0 0	86,0 0	84,50	76,0 0	78,0 0	77,00	61,0 0	86,0 0	73,50	78,33
		11.5 2	ST3	33,5	34	101,00	90,0 0	95,50	107,00	90,0 0	98,50	86,0 0	82,0 0	84,00	92,67
		12.0 2	ST4	33,4	35	82,0 0	87,0 0	84,50	111,00	70,0 0	90,50	90,0 0	74,0 0	82,00	85,67
		13.4 4	ST5	36,6	35	73,0 0	71,0 0	72,00	73,0 0	87,0 0	80,00	73,0 0	84,0 0	78,50	76,83
17	20/04/20 21	11.3 3	ST1	34,5	25	73,0 0	67,0 0	70,00	81,0 0	129,00	105,0 0	86,0 0	105,00	95,50	90,17
		11.4 1	ST2	33	26	78,0 0	82,0 0	80,00	115,00	78,0 0	96,50	79,0 0	94,0 0	86,50	87,67
		11.5 2	ST3	32,9	28	85,0 0	76,0 0	80,50	89,0 0	68,0 0	78,50	99,0 0	88,0 0	93,50	84,17
		12.0 2	ST4	32,7	27	86,0 0	106,00	96,00	77,0 0	82,0 0	79,50	83,0 0	81,0 0	82,00	85,83
		13.4 4	ST5	33,8	50	130,00	75,0 0	102,50	73,0 0	102,00	87,50	81,0 0	69,0 0	75,00	88,33
18	21/04/20 21	11.3 3	ST1	33,2	27	81,0 0	70,0 0	75,50	83,0 0	75,0 0	79,00	73,0 0	72,0 0	72,50	75,67
		11.4 1	ST2	32,2	30	87,0 0	85,0 0	86,00	91,0 0	75,0 0	83,00	79,0 0	76,0 0	77,50	82,17

		11.5 2	ST3	31	32	76,0 0	83,0 0	79,50	93,0 0	99,0 0	96,00	76,0 0	70,0 0	73,00	82,83
		12.0 2	ST4	31,4	32	73,0 0	87,0 0	80,00	71,0 0	81,0 0	76,00	78,0 0	82,0 0	80,00	78,67
		13.4 4	ST5	37,4	39	82	78	80,00	82	70	76,00	74	83	78,50	78,17
19	22/04/20 21	11.3 3	ST1	34,2	24	66,0 0	60,0 0	63,00	75,0 0	71,0 0	73,00	79,0 0	62,0 0	70,50	68,83
		11.4 1	ST2	31,5	22	86,0 0	71,0 0	78,50	101, 00	98,0 0	99,50	90,0 0	77,0 0	83,50	87,17
		11.5 2	ST3	30,9	22	87,0 0	99,0 0	93,00	86,0 0	86,0 0	86,00	83,0 0	84,0 0	83,50	87,50
		12.0 2	ST4	30,3	22	78,0 0	74,0 0	76,00	88,0 0	81,0 0	84,50	83,0 0	84,0 0	83,50	81,33
		13.4 4	ST5	33,6	30	88	87	87,50	66	72	69,00	83	64	73,50	76,67
20	23/04/20 21	11.3 3	ST1	36,4	29	76,0 0	73,0 0	74,50	89,0 0	77,0 0	83,00	68,0 0	68,0 0	68,00	75,17
		11.4 1	ST2	32,9	22	86,0 0	80,0 0	83,00	100, 00	79,0 0	89,50	79,0 0	74,0 0	76,50	83,00
		11.5 2	ST3	33,2	25	93,0 0	87,0 0	90,00	92,0 0	85,0 0	88,50	85,0 0	82,0 0	83,50	87,33
		12.0 2	ST4	32,7	29	90,0 0	82,0 0	86,00	86,0 0	84,0 0	85,00	75,0 0	77,0 0	76,00	82,33
		13.4 4	ST5	34,5	41	74	68	71,00	100	75	87,50	72	89	80,50	79,67
21	24/04/20 21	11.3 3	ST1	37,2	30	75,0 0	67,0 0	71,00	78,0 0	76,0 0	77,00	76,0 0	67,0 0	71,50	73,17

		11.4 1	ST2	34,9	26	90,0 0	82,0 0	86,00	80,0 0	85,0 0	82,50	81,0 0	81,0 0	81,00	83,17
		11.5 2	ST3	34	26	79,0 0	74,0 0	76,50	80,0 0	79,0 0	79,50	79,0 0	82,0 0	80,50	78,83
		12.0 2	ST4	33,4	30	92,0 0	75,0 0	83,50	68,0 0	68,0 0	68,00	79,0 0	87,0 0	83,00	78,17
		13.4 4	ST5	30,9	48	82	74	78,00	68	59	63,50	72	45	58,50	66,67
22	25/04/20 21	11.3 3	ST1	34,5	45	90,0 0	68,0 0	79,00	77,0 0	90,0 0	83,50	69,0 0	71,0 0	70,00	77,50
		11.4 1	ST2	34,4	46	69,0 0	77,0 0	73,00	105, 00	71,0 0	88,00	82,0 0	86,0 0	84,00	81,67
		11.5 2	ST3	34,1	42	91,0 0	110, 00	100,5 0	83,0 0	78,0 0	80,50	81,0 0	78,0 0	79,50	86,83
		12.0 2	ST4	34,7	41	70,0 0	82,0 0	76,00	87,0 0	86,0 0	86,50	73,0 0	75,0 0	74,00	78,83
		13.4 4	ST5	34,8	33	84	82	83,00	81	78	79,50	75	78	76,50	79,67
23	26/04/20 21	11.3 3	ST1	38,4	38	85,0 0	70,0 0	77,50	90,0 0	68,0 0	79,00	80,0 0	80,0 0	80,00	78,83
		11.4 1	ST2	37,2	44	77,0 0	79,0 0	78,00	86,0 0	98,0 0	92,00	83,0 0	84,0 0	83,50	84,50
		11.5 2	ST3	36,8	45	82,0 0	88,0 0	85,00	91,0 0	110, 00	100,5 0	89,0 0	87,0 0	88,00	91,17
		12.0 2	ST4	36,3	47	70,0 0	79,0 0	74,50	76,0 0	88,0 0	82,00	78,0 0	81,0 0	79,50	78,67
		13.4 4	ST5	36,2	29	82	71	76,50	80	110	95,00	86	92	89,00	86,83

24	27/04/20 21	11.3 3	ST1	0	0	0,00	0,00	0	0,00	0,00	0,00	0,00	0,00	0,00	0,00
		11.4 1	ST2	36,5	39	72,0 0	82,0 0	77,00	89,0 0	105, 00	97,00	107, 00	90,0 0	98,50	90,83
		11.5 2	ST3	35,8	38	86,0 0	78,0 0	82,00	73,0 0	106, 00	89,50	74,0 0	75,0 0	74,50	82,00
		12.0 2	ST4	34,6	37	92,0 0	111, 00	101,5 0	79,0 0	79,0 0	79,00	73,0 0	82,0 0	77,50	86,00
		13.4 4	ST5	36,4	45	77	71	74,00	65	77	71,00	73	83	78,00	74,33
25	28/04/20 21	11.3 3	ST1	0	0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
		11.4 1	ST2	34,4	25	67,0 0	75,0 0	71,00	70,0 0	71,0 0	70,50	83,0 0	126, 00	104,5 0	82,00
		11.5 2	ST3	32,6	27	80,0 0	87,0 0	83,50	84,0 0	80,0 0	82,00	85,0 0	80,0 0	82,50	82,67
		12.0 2	ST4	31,2	52	78,0 0	72,0 0	75,00	75,0 0	70,0 0	72,50	93,0 0	74,0 0	83,50	77,00
		13.4 4	ST5	36,5	37	77	81	79,00	77	85	81,00	129	77	103,0 0	87,67
26	05/05/20 21	11.3 3	ST1	0	0	0,00	0,00	0	0,00	0,00	0	0,00	0,00	0	0
		11.4 1	ST2	35,4	44	78	78	78,00	88	81	84,50	84	71	77,50	80,00
		11.5 2	ST3	34,2	46	84	80	82,00	82	86	84,00	84	81	82,50	82,83
		12.0 2	ST4	34	49	72	77	74,50	113	80	96,50	79	71	75,00	82,00

		13.4 4	ST5	35	44	64	73	68,50	77	77	77,00	108	63	85,50	77,00
27	10/05/20 21	11.3 3	ST1	0	0	0	0	0,00	0	0	0,00	0	0	0,00	0,00
		11.4 1	ST2	37,9	31	74	80	77,00	80	73	76,50	76	77	76,50	76,67
		11.5 2	ST3	33,8	29	118	85	101,5 0	95	123	109,0 0	91	104	97,50	102,67
		12.0 2	ST4	33,4	32	73	74	73,50	77	72	74,50	81	74	77,50	75,17
		13.4 4	ST5	36,9	26	73	73	73,00	80	78	79,00	77	79	78,00	76,67
28	12/05/20 21	11.3 3	ST1	0	0	0	0	0,00	0	0	0,00	0	0	0,00	0,00
		11.4 1	ST2	40	38	77	75	76,00	90	85	87,50	86	77	81,50	81,67
		11.5 2	ST3	37,5	35	108	133	120,5	106	85	95,5	79	85	82,00	99,33
		12.0 2	ST4	36,7	32	79	79	79	100	109	104,5	73	69	71,00	84,83
		13.4 4	ST5	36	30	71	73	72	74	69	71,5	72	68	70,00	71,17
29	19/05/20 21	11.3 3	ST1	0	0	0	0	0,00	0	0	0,00	0	0	0,00	0,00
		11.4 1	ST2	40,2	36	81	81	81,00	74	79	76,50	76	72	74,00	77,17
		11.5 2	ST3	37,4	31	82	82	82,00	99	86	92,50	90	81	85,50	86,67

		12.0 2	ST4	35,6	31	69	81	75,00	80	80	80,00	81	79	80,00	78,33
		12.1 1	ST5	37,5	26	68	60	64	77	76	76,5	66	68	67,00	69,17
30	09/06/20 21	11.3 3	ST1	0	0	0	0	0,00	0	0	0,00	0	0	0,00	0,00
		11.4 1	ST2	37,9	31	64	78	71	76	77	76,5	79	82	80,50	76,00
		11.5 2	ST3	33,8	29	92	108	100	118	90	104	99	102	100,5 0	101,50
		12.0 2	ST4	33,4	32	81	81	81	79	88	83,5	79	74	76,50	80,33
		12.1 1	ST5	36,9	26	64	74	69	67	66	66,5	65	75	70,00	68,50
		11.3 3	ST1	0	0	0	0	0	0	0	0	0	0	0	0,00
31	01/07/20 21	11.4 1	ST2	0	0	0	0	0	0	0	0	0	0	0,00	0,00
		11.5 2	ST3	0	0	0	0	0	0	0	0	0	0	0,00	0,00
		12.0 2	ST4	36	30	82	97	89,5	75	66	70,5	78	81	79,50	79,83
		12.1 1	ST5	36,4	27	71	80	75,5	94	90	92	99	125	112,0 0	93,17
		11.3 3	ST1	0	0	0	0	0	0	0	0	0	0	0	0,00

Lampiran 3. Tabel Pengambilan Data Nilai Kapasitansi dan Permittifitas

Hari/Tanggal	Jenis Sampel	Kode Sampel	Nilai Kapasitansi (nF)	Nilai Kapasitansi (F)	Nilai Rata-Rata Kapasitansi (F)	Nilai Permittifitas	Nilai Rata-Rata Permittifitas
Rabu, 9 Juni 2021	Sampel Baru	SB1	0,06	6E-11	6E-11	1,412429379	1,412429379
		SB2	0,06	6E-11		1,412429379	
	Sampel Suhu Ruang	SR3	0,06	6E-11	6,5E-11	1,412429379	1,530131827
		SR4	0,07	7E-11		1,647834275	
	Sampel Suhu Rekondisi	ST2	0,06	6E-11	6E-11	1,412429379	1,412429379
		ST3	0,06	6E-11		1,412429379	
Kamis, 1 Juli 2021	Sampel Baru	SB3	0,06	6E-11	6E-11	1,412429379	1,412429379
		SB4	0,06	6E-11		1,412429379	
	Sampel Suhu Ruang	SR1	0,07	7E-11	7E-11	1,647834275	1,647834275
		SR2	0,07	7E-11		1,647834275	
	Sampel Suhu Rekondisi	ST4	0,07	7E-11	7E-11	1,647834275	1,647834275
		ST5	0,07	7E-11		1,647834275	

Lampiran 4 Tabel Interpretasi Spektrum Inframerah Sampel Baru *Liquid Silicone*

No.	Peak	Intensity	Corr. Intensity	Base (H)	Base (L)	Area	Corr. Area
1	354.9	96.337	3.811	372.26	341.4	0.236	0.253
2	395.41	98.408	1.525	410.84	372.26	0.131	0.12
3	422.41	98.59	1.325	437.84	410.84	0.091	0.081
4	468.7	98.695	1.228	489.92	437.84	0.165	0.147
5	547.78	97.87	0.3	555.5	489.92	0.357	0.05
6	569	97.803	0.411	651.94	555.5	0.476	0.025
7	698.23	99.338	0.43	734.88	678.94	0.088	0.044
8	802.39	95.592	4.404	842.89	761.88	0.648	0.647
9	866.04	99.616	0.4	887.26	842.89	0.037	0.04
10	912.33	99.463	0.541	941.26	887.26	0.061	0.062
11	1033.85	88.956	6.05	1078.21	943.19	3.414	1.26
12	1095.57	92.289	1.151	1211.3	1080.14	1.815	0.131
13	1261.45	96.49	3.474	1301.95	1236.37	0.353	0.348
14	1338.6	99.392	0.655	1354.03	1325.1	0.03	0.035
15	1423.47	98.787	0.884	1440.83	1408.04	0.11	0.065
16	1458.18	98.424	1.547	1483.26	1440.83	0.134	0.129
17	1514.12	95.917	2.075	1529.55	1483.26	0.481	0.174
18	1543.05	96.175	1.477	1591.27	1529.55	0.611	0.204
19	1649.14	96.432	2.387	1666.5	1591.27	0.619	0.369
20	1681.93	97.724	1.096	1726.29	1666.5	0.418	0.198
21	1743.65	98.502	1.434	1762.94	1726.29	0.121	0.112
22	1797.66	99.191	0.695	1815.02	1782.23	0.062	0.047
23	1836.23	99.343	0.617	1855.52	1815.02	0.067	0.06
24	1869.02	99.376	0.529	1884.45	1855.52	0.046	0.034
25	1917.24	99.622	0.351	1932.67	1903.74	0.025	0.022
26	2312.65	98.619	1.21	2335.8	2266.36	0.196	0.15
27	2376.3	98.66	1.251	2399.45	2357.01	0.121	0.106
28	2854.65	99.616	0.335	2883.58	2831.5	0.045	0.035
29	2924.09	99.24	0.425	2941.44	2883.58	0.109	0.048
30	2962.66	98.603	0.993	2991.59	2941.44	0.18	0.094
31	3032.1	99.673	0.044	3043.67	3014.74	0.037	0.002
32	3153.61	99.52	0.381	3196.05	3134.33	0.072	0.048
33	3419.79	97.402	0.152	3433.29	3404.36	0.321	0.009

Lampiran 5 Tabel Interpretasi Spektrum Inframerah Polutan Kondisi Baru

No.	Peak	Intensity	Corr. Intensity	Base (H)	Base (L)	Area	Corr. Area
1	349.12	78.171	17.531	358.76	343.33	1.075	0.8
2	370.33	87.867	10.897	381.91	358.76	0.691	0.566
3	428.2	24.623	48.155	445.56	387.69	18.806	12.785
4	470.63	4.496	74.537	495.71	447.49	27.983	22.489
5	536.21	2.848	96.46	626.87	497.63	63.154	62.86
6	698.23	49.886	49.782	727.16	628.79	11.3	11.174
7	754.17	72	19.183	773.46	729.09	3.668	2.102
8	792.74	71.875	18.13	819.75	775.38	3.739	1.932
9	846.75	98.014	0.899	852.54	837.11	0.087	0.018
10	912.33	12.821	85.853	958.62	854.47	32.913	32.311
11	1006.84	1.064	21.277	1018.41	960.55	46.219	9.202
12	1031.92	0.783	5.862	1078.21	1020.34	73.208	11.081
13	1112.93	10.218	23.167	1284.59	1080.14	53.624	9.705
14	1298.09	98.966	0.668	1327.03	1284.59	0.128	0.046
15	1404.18	97.559	0.381	1411.89	1361.74	0.426	0.03
16	1448.54	97.672	0.033	1452.4	1446.61	0.058	0
17	1500.62	98.869	0.083	1504.48	1496.76	0.037	0.001
18	1633.71	92.172	1.299	1641.42	1573.91	1.207	0.155
19	1828.52	98.335	0.146	1849.73	1824.66	0.142	-0.001
20	1940.39	98.373	0.116	2013.68	1936.53	0.238	-0.025
21	2264.43	98.756	0.452	2331.94	2239.36	0.396	0.16
22	2376.3	98.773	1.183	2407.16	2357.01	0.157	0.122
23	2449.6	99.004	0.405	2636.69	2407.16	0.575	0.126
24	2924.09	98.721	0.28	2993.52	2906.73	0.338	0.033
25	3452.58	70.678	0.646	3460.3	3045.6	25.194	0.303
26	3527.8	24.353	31.155	3635.82	3556.74	21.171	5.338
27	3695.61	15.479	37.263	3793.98	3664.75	32.888	9.839

Lampiran 6 Tabel Interpretasi Spektrum Inframerah Polutan Sampel SR3

No.	Peak	Intensity	Corr. Intensity	Base (H)	Base (L)	Area	Corr. Area
1	349.12	80.948	21.522	358.76	341.4	0.909	1.062
2	370.33	89.236	9.944	385.76	358.76	0.621	0.531
3	426.27	29.388	46.426	445.56	385.76	16.889	11.336
4	468.7	7.624	71.436	495.71	447.49	24.461	19.423
5	536.21	5.017	93.993	626.87	497.63	54.784	54.308
6	698.23	54.322	45.692	731.02	628.79	10.222	10.177
7	754.17	75.127	17.493	771.53	731.02	2.983	1.829
8	792.74	73.57	18.426	821.68	773.46	3.567	2.008
9	837.11	98.618	0.838	846.75	829.39	0.056	0.019
10	912.33	16.844	83.133	958.62	846.75	29.181	29.179
11	1006.84	2.548	21.715	1018.41	960.55	39.508	7.535
12	1031.92	1.95	7.379	1078.21	1020.34	61.902	8.748
13	1112.93	14.733	27.133	1230.58	1080.14	44.564	8.954
14	1265.3	97.804	1.617	1288.45	1247.94	0.224	0.122
15	1350.17	98.269	0.466	1359.82	1325.1	0.158	0.01
16	1402.25	97.033	1.514	1442.75	1369.46	0.683	0.22
17	1541.12	98.436	0.238	1544.98	1523.76	0.125	0.016
18	1635.64	94.3	5.219	1701.22	1568.13	1.783	1.502
19	1762.94	99.019	0.24	1768.72	1741.72	0.079	0.017
20	1820.8	97.675	1.392	1874.81	1795.73	0.51	0.229
21	1936.53	98.372	1.252	2004.04	1886.38	0.486	0.308
22	2384.02	99.026	0.791	2416.81	2364.73	0.157	0.1
23	2609.69	98.784	0.194	2657.91	2416.81	0.943	0.07
24	2964.59	98.867	0.708	2995.45	2945.3	0.153	0.061
25	3101.54	98.847	0.856	3184.48	3041.74	0.411	0.22
26	3462.22	86.294	0.341	3466.08	3294.42	5.975	0.703
27	3462.22	30.599	32.384	3633.89	3547.09	15.44	4.516
28	3695.61	19.715	34.998	3826.77	3662.82	30.654	8.364

Lampiran 7 Tabel Interpretasi Spektrum Inframerah Polutan Sampel ST3

No.	Peak	Intensity	Corr. Intensity	Base (H)	Base (L)	Area	Corr. Area
1	349.12	87.678	14.748	360.69	341.4	0.568	0.743
2	370.33	94.065	6.166	385.76	360.69	0.326	0.339
3	428.2	40.658	40.043	445.56	385.76	12.3	8.31
4	470.63	17.207	68.187	495.71	447.49	17.606	14.067
5	538.14	11.553	87.587	628.79	497.63	41.908	41.505
6	644.22	98.303	1.645	657.73	630.72	0.108	0.101
7	698.23	67.155	32.72	729.09	659.66	5.246	5.214
8	754.17	81.743	12.721	771.53	731.02	2.103	1.244
9	792.74	78.218	15.484	829.39	773.46	2.959	1.695
10	914.26	26.089	73.237	958.62	840.96	22.657	22.351
11	1006.84	7.222	21.748	1018.41	960.55	28.627	5.129
12	1031.92	5.804	10.373	1080.14	1020.34	46.971	6.383
13	1112.93	25.467	25.541	1220.94	1082.07	30.571	6.164
14	1265.3	96.583	3.104	1301.95	1246.02	0.338	0.267
15	1404.18	97.907	1.017	1419.61	1386.82	0.221	0.067
16	1537.27	98.292	0.098	1539.2	1531.48	0.053	0.001
17	1631.78	95.551	0.26	1635.64	1622.13	0.253	0.007
18	1726.29	99.586	0.394	1732.08	1720.5	0.011	0.01
19	1828.52	98.728	0.189	1838.16	1824.66	0.064	0.004
20	1928.82	98.769	0.165	1932.67	1909.53	0.098	0.009
21	2374.37	98.006	1.777	2397.52	2357.01	0.199	0.162
22	2648.26	99.412	0.157	2657.91	2600.04	0.056	0.019
23	2964.59	98.13	1.238	3008.95	2943.37	0.279	0.114
24	3454.51	90.849	0.178	3460.3	3435.22	1.025	0.015
25	3620.39	41.633	31.864	3635.82	3556.74	10.896	3.749
26	3695.61	31.69	34.238	3793.98	3664.75	20.762	6.294

Lampiran 8

BIODATA PENULIS



Nama : Chezia Yuseki Randa Pebakirang

NIM : D041171025

Tempat Lahir : Manado

Tanggal Lahir : 22 Agustus 1999

Agama : Kristen Protestan

No. HP : 0895803151598

Email : cheziapebakirang@gmail.com

Alamat : Royal Sentraland BTP Blok BB

No. 255 Makassar

Chezia Yuseki Randa Pebakirang dilahirkan di Manado, 22 Agustus 1999. Penulis memulai jenjang Pendidikan Sekolah Dasar Katolik Materdei Amurang dari tahun 2005-2011. Setelah itu penulis melanjutkan studi di SMPN 9 Manado pada tahun 2011-2014. Kemudian melanjutkan studi di SMAN 9 Manado pada tahun 2014-2017. Setelah lulus SMA, penulis melanjutkan Pendidikan jenjang S1 pada Departemen Teknik Elektro Fakultas Teknik Universitas Hasanuddin. Selama perkuliahan penulis aktif pada kegiatan akademik dan non akademik. Pada kegiatan akademik, penulis menjadi asisten Lab. Listrik Dasar dan asisten Lab. Teknik Tegangan Tinggi dan Infrastruktur Ketenagalistrikan Universitas Hasanuddin. Sedangkan pada kegiatan non akademik, penulis mengikuti organisasi MAJOR 09 dan menjabat sebagai bendahara.