

## DAFTAR PUSTAKA

- [1] F. R. Ananda, “Analisa Sistem Pentanahan Gardu Induk 150kV Srdondol Menggunakan Metode IEEE Std 80-2000 Pada ETAP,” *Tugas Akhir*, Jurusan Teknik Elektro, Universitas Semarang, 2023.
- [2] M. F. Pasaribu, “Analisa dan Evaluasi Sistem Pentanahan Grid-Rod pada Gardu Induk 150/20 kV Pauh Limo Kota Padang,” *Tugas Akhir*, Departemen Teknik Elektro, Universitas Andalas, 2024.
- [3] D. Medyanda, “Analisa System Grounding Grid pada Switchyard Gardu Induk Pauh Limo di Padang,” *Tugas Akhir*, Jurusan Teknik Elektro, Universitas Andalas, 2016.
- [4] C. D. Saputra, “Analisa Sistem Pentanahan dengan Metode Kombinasi Grid & Rod pada Gardu Induk 150kV BSB,” *Tugas Akhir*, Jurusan Teknik Elektro, Universitas Semarang, 2023.
- [5] I. W. Sudiartha, I. K. TA, and I. G. N. Sangka, “Analisis Pengaruh Jenis Tanah terhadap Besarnya Nilai Tahanan Pentanahan,” *Jurnal Logic*, vol. 16, no. 1, pp. 35–39, Mar. 2016.
- [6] R. H. Kaufmann, “Effective Equipment Grounding System,” *IEEE Transactions on Industry and General Applications*, vol. IGA-6, no. 6, pp. 545–552, Nov./Dec. 1970.
- [7] D. Prasad dan H. C. Sharma, “Parameters Effecting Substation Grounding Grid Resistance,” *International Journal of Information Technology and Electrical Engineering*, vol. 4, no. 1, hlm. 1–5, Feb. 2015. ISSN: 2306-708X.
- [8] M. Sidik, S. Setiawidayat, and M. Mukhsim, “Pengaruh Sistem Pentanahan terhadap Arus Gangguan Tanah pada Sistem Distribusi 20 kV,” *CIRCUIT: Jurnal Ilmiah Pendidikan Teknik Elektro*, vol. 4, no. 2, pp. 138–148, Aug. 2020, doi: 10.22373/crc.v4i2.7067.
- [9] I. A. R. Munir and I. Syafitri, “Analisa Sistem Grounding pada Gardu Induk 150 kV Menggunakan Software ETAP,” *Jurnal Teknik Elektro dan Komputer (JTEK)*, vol. 8, no. 2, pp. 125–132, 2019.
- [10] E. Suherman and M. N. Ruspiana, “Analisis Pentanahan Peralatan pada Ruang Server Gedung Rektorat Universitas Darma Persada,” *Jurnal Teknik Elektro dan Komputer (JTEK)*, vol. 11, no. 1, pp. 114–123, Mar. 2021.
- [11] D. M. R. Sanjaya, C. G. I. Partha, and I. G. D. Arjana, “Perencanaan Sistem Pembumian Grid-Rod pada Gardu Induk 150 kV New Sanur,” *Jurnal Spektrum*, vol. 7, no. 1, pp. 69–75, Mar. 2020.
- [12] M. G. Unde dan B. E. Kushare, “Grounding Grid Performance of Substation in Two Layer Soil – A Parametric Analysis,” *International Journal of*

- Engineering Sciences & Emerging Technologies*, vol. 1, no. 2, hlm. 69–76, Feb. 2012. ISSN: 2231-6604. doi: 10.7323/ijeset/v1\_i2\_8.
- [13] Badan Standardisasi Nasional, *Persyaratan Umum Instalasi Listrik 2000 (PUIL 2000)*, SNI 04-0225-2000, Jakarta: BSN, 2000.
- [14] IEEE Power Engineering Society, *IEEE Guide for Safety in AC Substation Grounding*, IEEE Std 80-2000, New York, NY, USA: IEEE, 2000.
- [15] Zulhajji, A. Imran, and Haripuddin, “Analisis Resistansi Sistem Pembumian Elektroda Batang Berdasarkan Jenis Tanah,” *Seminar Nasional Hasil Penelitian 2022*, LP2M Universitas Negeri Makassar, pp. 1092–1103, 2022.
- [16] A. R. Saputra, M. Haddin, and A. A. Nugroho, “Pengaruh Konfigurasi dan Kedalaman Penanaman Konduktor terhadap Resistans Pentanahan Gardu Induk Tegangan Ekstra Tinggi (GITET) 500 kV Ungaran,” *Media Elektrika*, vol. 11, no. 1, pp. 1–13, Jun. 2018.
- [17] M. Mirwan, R. A. Latif, and Y. A. Arham, “Perbandingan Nilai Tahanan Pentanahan pada Area Reklamasi Pantai (Citriland),” *Jurnal MEKTRIK*, vol. 1, no. 1, pp. 29–39, Sep. 2014.
- [18] E. B. Robertson, “Grounding Systems,” *WESCON/96 Conference Proceedings*, Lyncole XIT Grounding, Torrance, California, 1996.
- [19] Q. Louw dan P. Bokoro, “Soil Resistivity: A Limiting Determinant to Zero-Sequence Currents for Grounded Conductors in South African Low Voltage Networks,” *Proc. Int. Conf. on Renewable Energies and Power Quality (ICREPQ'17)*, Malaga, Spanyol, hlm. 356–359, Apr. 2017. ISSN: 2172-038X.
- [20] IEEE Power and Energy Society, *IEEE Guide for Safety in AC Substation Grounding*, IEEE Std 80-2013, New York, NY, USA: IEEE, 2013.
- [21] I. P. C. Suardana, “Analisa Pengaruh Posisi dan Kedalaman Penanaman Elektroda pada Tanah Kapur di Daerah Kupang, NTT,” Tugas Akhir, Departemen Teknik Elektro, Institut Teknologi Sepuluh Nopember, Surabaya, 2022.
- [22] M. L. Tade, Y. Y. Manafe, dan R. H. Modok, “Pengaruh Kedalaman Elektroda Terhadap Nilai Tahanan Pentanahan Kaki Menara di Stasiun Transmisi TVRI Kupang,” *Jurnal Spektro*, vol. 6, no. 1, hlm. 46–53, 2023. P-ISSN: 2655-577.
- [23] V. K. Voon, K. I. Wong, T. C. Tiong, A. Mansour, dan K. H. Law, “Grounding Grid Design in Electrical Power Substation Using Optimization Methods,” *IOP Conference Series: Materials Science and Engineering*, vol. 495, hlm. 1–11, 2019. doi:10.1088/1757-899X/495/1/012037.
- [24] T. E. Edeko dan E. Omorogiuwa, “Soil Resistivity, its Impact on Optimum Depth of Electrodes in Earthing System– Case Study University of Port Harcourt Residential Staff Quarters,” *International Journal of Research and Innovation in Applied Science (IJRIAS)*, vol. VII, no. XII, pp. 5–12, Desember 2022.

- [25] Z. Li, J. Cao, Y. P. Du, Y. Ding, Y. Zhang, C. Jia, F. Qiu, Z. Du, dan M. Chen, "Ground Potential Distribution and Human-body Touch Voltage in Old Residential Communities," *IEEE Transactions on Industry Applications*, vol. 59, no. 4, pp. 3900–3912, Apr. 2023.
- [26] A. Phayomhom, S. Sirisumrannukul, T. Kasirawat, dan A. Puttarach, "Safety Design Planning of Ground Grid for Outdoor Substations in MEA's Power Distribution System," *ECTI Transactions on Electrical Engineering, Electronics, and Communications*, vol. 9, no. 1, pp. 102–112, Februari 2011.
- [27] J.-M. Lin, "An Investigation of Grounding Resistance Estimation of Human Body by Attenuation Coefficient," *Universal Journal of Electrical and Electronic Engineering*, vol. 5, no. 4, pp. 67–74, 2017.
- [28] Y. L. Chow, M. M. A. Salama, dan G. Djogo, "Thevenin Source Resistances of the Touch, Transferred and Step Voltages of a Grounding System," *IEE Proceedings - Generation, Transmission and Distribution*, vol. 146, no. 2, pp. 106–114, Maret 1999.
- [29] L. Di Silvestre, A. Gagliano, G. Graditi, E. Riva Sanseverino, dan G. Zizzo, "A Study of Grounding Resistance for Substation Earthing System," *2018 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe)*, pp. 1–6, 2018.
- [30] D. Prasad dan H. C. Sharma, "Ground Potential Rise in High Voltage Substations," *International Journal of Computer and Communication Engineering Research (IJCCER)*, vol. 2, no. 2, pp. 1–8, Maret 2012.
- [31] S. Hardi, I. S. Harahap, H. H. Rangkuti, dan R. R. Wirasari, "Tegangan Potensial Tanah pada Sistem Pentanahan Gardu Induk Dua Lapisan," *Seminar Nasional Teknik Elektro Universitas Islam Sumatera Utara (SEMNASTEK UISU)*, pp. 42–45, 2023. ISBN: 2987-6818.
- [32] H. Griffiths dan N. Pilling, "Earthing," dalam *Advances in High Voltage Engineering*, A. Haddad dan D. F. Warne (Ed.), IET Power and Energy Series 40, The Institution of Engineering and Technology, London, 2004, hlm. 349–402.
- [33] B. Thapar, V. Gerez, dan A. Balakrishnan, "Evaluation of Ground Resistance of a Grounding Grid of Any Shape," *IEEE Transactions on Power Delivery*, vol. 6, no. 2, pp. 640–647, April 1991.
- [34] PT PLN (Persero), *SPLN T5.012:2020 – Pembumian pada Gardu Induk dan Jaringan Transmisi*, Jakarta: PT PLN (Persero), Juli 2020.