

DAFTAR PUSTAKA

- Aldiamar, F. (2012). *Penilaian Resiko Pembangunan Terowongan Jalan*. Jakarta: Kementerian PUPR. 46 hal.
- Apriyono, A., dan Sumiyanto. (2010). *Tinjauan Kekuatan Sistem Penyangga Terowongan dengan Menggunakan Metode Elemen Hingga*. *Dinamika Rekayasa*, Vol. 6 No. 1, 33-38.
- ASTM D 5731 – 95. (1995). *Standard Test Method for Determination of the Point Load Strength Index of Rock*. *United States: American Society for Testing and Material*.
- ASTM D 854 - 02. (2002). *Standard Test Methods for Specific Gravity of Soil Solids by Gas Pycnometer*. *United States: American Society for Testing Material*.
- Bachri, S., dan Permana, A. K. (2015). *Tektonostratigrafi Cekungan Timor di Bagian Barat Pulau Timor*. *Jurnal Geologi dan Sumber Daya Mineral*. Vol. 16, No. 2, 79 - 91.
- Barton, N., Lien, R., and Lunde, J. (1974). *Engineering Classification of Rock Masses for the Design of Tunnel Support*. *Rock Mechanics* 6, 189 - 236.
- Bell, F. (2007). *Engineering Geology Second Edition*. Oxford: Elsevier. 592 hal
- Bieniawsky, Z. T. (1989). *Engineering Rock Mass Clasification Mining and Mineral Resources Research Institute. Pennsylvania State University*. 272 hal.
- BSN (1994). SNI 03-3637-1994. *Metode Pengujian Berat Isi Tanah Berbutir Halus dengan Cetakan Benda Uji*. Bandung: Pustran Balitbang PU.
- BSN (2008). 1964:2008. *Cara uji berat jenis tanah*. Jakarta: Badan Standardisasi Nasional.
- BSN (2008). SNI 1965 : 2008. *Cara uji penentuan kadar air untuk tanah dan batuan di laboratorium*. Jakarta: Badan Stansardisasi Nasional.

- BSN (2008). SNI 2825:2018. Cara uji kuat tekan batu uniaksial. Jakarta: Badan Standardisasi Nasional.
- BSN (2016). SNI 3420:2016. Metode uji kuat geser langsung tanah tidak terkonsolidasi dan tidak terdrainase. Jakarta: Badan Standardisasi Nasional.
- BSN (2016). SNI 2833 : 2016. Perencanaan Jembatan Terhadap Beban Gempa. Jakarta: Badan Stansardisasi Nasional.
- BSN (2017). SNI 8460:2017. Persyaratan Perancangan Geoteknik. Jakarta: Badan Standardisasi Nasional.
- Coe, J.A., dan Harp, E. L. (2007). *Influence of tectonic folding on rockfall susceptibility, American Fork Canyon, Utah, USA, Natural Hazards and Earth System Sciences* Vol 7, No 1, 1-14.
- Das, B. M. (1995). Mekanika Tanah (Prinsip-prinsip Rekayasa Geoteknis), Jakarta: Penerbit Erlangga. 283 hal.
- Dearman, W. (1991). *Engineering Geological Mapping*. Newcastle - UK: Butterworth-Heinemann. 396 hal.
- Deere, D., dan Miller, R. (1966). *Engineering Classification and Index Properties for Intact Rock*. New Mexico: *Technical Report No. AFWL-TR-65-116, Air Force Weapons Laboratory, Kirkland Air Force Base*. 300 hal.
- Ersoy, A., dan Waller, M. D. (1995). *Textural characterisation of rocks, Enginnering Geology* Vol 39, 123-136.
- Fathoni, M.R. (2013). Pemodelan Pemasangan Penyangga Sementara Menggunakan Perangkat Lunak *Phase 2* Pada *Headrace Tunnel Chainage* 155m-265m di PLTA Tulis Kabupaten Banjarnegara, Jawa Tengah, *Geological Engineering E-Journal* Vol 5, No 1, 167-182.
- FHWA-NHI-10-034. (2009). *Technical Manual for Design and Construction of Road Tunnels - Civil Elements*. Washington, D.C: U.S Deparment of Transportation Federal Highway Administration. 702 hal.

Gonzalez de Vallejo, L., dan Ferrer, M., (2011). *Geological Engineering*. Boca Raton, Florida : CRC Press. 700 hal.

Hardiyatmo, H. (2017). *Mekanika Tanah 1 Edisi ke Tujuh*. Yogyakarta: Gadjah Mada University Press. 490 hal.

Hartley, A. (1974). *A review of the geological factors influencing the mechanical properties of road surface aggregates*. *Quarterly Journal of Engineering Geology* Vol 7, No 1, 69-100.

Hoek, E. (1994). *Strength of rock and rock masses*. *ISRM News Journal*, 2(2), 4-16.

Hoek, E., dan Brown, E.T. (1997). *Practical estimates of rock mass strength*. *International Journal of Rock Mechanics and Mining Sciences*, Vol. 34, 1165-1186.

Hoek, E., Carter, T., dan Diederichs, M. (2013). *Quantification of the Geological Strength Index Chart*. *US Rock Mechanics /Geomechanics Symposium*. San Francisco: June 23-26, 2013.

Hoek, E.; Carranza-Torres, C.; Corkum, B. (2002). *Hoek-Brown failure criterion – 2002 Edition*. *Proc. NARMS-TAC Conference*, 1, pp. 267-273. Toronto.

Hoek, E., dan Marinos, P. (2000). *GSI: A Geologically Friendly Tool For Rock Mass*. *Proc. GeoEng2000*, 1422-1442.

Hoek, E. dan Karzulovic, A. (2000). *Rock Mass Properties for Surface Mines In Slope Stability in Surface Mining*, Littleton, Colorado, 59-70.

Hoek, E. dan Diederichs, M.S. (2006) *Empirical Estimation Of Rock Mass Modulus*, *International Journal of Rock Mechanics & Mining Sciences*, 43 (2006) 203–215.

Hoek, E, Kaiser P.K., dan Bawden W.F. (2000) *Support of Underground Excavations in Hard Rock*. Boca Raton, Florida: CRC Press. 228 hal.

IAEG. (1976). *Engineering Geological Maps*. Paris: The Unesco Press. 79 hal.

ISRM. (1978). *Suggested Methods for The Quantitative Description of Discontinuities in Rock Masses: International Society for Rock Mechanics*. International Journal of Rock Mechanics and Mining Science & Geomechanics Abstracts, 368.

JSCE. (2007). *Standard Specifications for Tunnelling-2006 : Mountain Tunnels*. Japan: Japan Society of Civil Engineers. 287 hal.

Kementerian Pekerjaan Umum dan Perumahan Rakyat. (2015). Peraturan Menteri Pekerjaan Umum Dan Perumahan Rakyat Republik Indonesia Nomor 13.1/PRT/M/2015 Tentang Rencana Strategis Kementerian Pekerjaan Umum Dan Perumahan Rakyat Tahun 2015-2019. Jakarta: Kementerian PUPR.

Kementerian Pekerjaan Umum dan Perumahan Rakyat. (2015). Surat Edaran Menteri Nomor: 23/SE/M/2015 Tentang Pedoman Metode Perencanaan Penggalian dan Sistem Perkuatan Terowongan Jalan pada Media Campuran Tanah – Batuan. Jakarta: Kementerian PUPR.

Lwin, M.M. (2009). *Technical Manual For Design And Construction Of Road*. Publication No. FHWA-NHI 10-034, USA: U.S Department Of Transportation Federal Highway, Chapter 6,7.

Marinos, P., Marinos, V., dan Hoek, E. (2007). *The Geological Strength Index (GSI): A characterization Tool for Assessing Engineering Properties of Rock Masses*. DOI: 10.1201/NOE0415450287.ch2, 87-94.

Price, D. (2007). *Engineering Geology Principles and Practice*. London: Springer. 460 hal.

PT. Indrakarya Persero. (2017). Laporan Akhir Detail Desain Bendungan Tefmo/Manikin di Kabupaten Kupang. Kupang: Balai Wilayah Sungai Nusa Tenggara II.

PUSGEN. (2017). Peta Sumber dan Bahaya Gempabumi Indonesia. Jakarta: Kementerian Pekerjaan Umum dan Perumahan Rakyat.

Rai, M.A., Kramadibrata. S. dan Wattimena, R.K. (2014) *Mekanika Batuan*, Bandung: ITB. 482 hal.

- Rori, S.V., Balamba, S dan Sarajar, A.N. (2017). Analisa Tanah Pada Buka-an Terowongan (Studi Kasus: Terowongan Kawasan *Green Hill*, Malendeng), Jurnal Sipil Statik Vol.5 No.6 Agustus 2017 (313-323) ISSN: 2337-6732, 314.
- Rosidi, H., Tjokrosapoetro, dan Gafoer, S. (1996). Peta Geologi Lembar Kupang - Atambua, Timor. Bandung: Pusat Pengembangan dan Penelitian Geologi.
- Sani, K., Jacobson, M. L., & Sigit, R. (1995). *The thin-skinned thrust structures of Timor*. Proceedings of the 24th annual convention of the Indonesian Petroleum Association 24. vol 1, 277-293.
- Sawyer, R. K., Sani, K., & Brown, S. (1993). *Stratigraphy and sedimentology of West Timor*, Indonesia. Proceedings of the 22nd annual convention of the Indonesian Petroleum Association 22. vol 1, 1-20
- Setiawan, N., Sariyanto, dan Saputro, A. (2016). Teknik Pembuatan Sayatan Tipis Batuan di Departemen Teknik Geologi, Fakultas Teknik, Universitas Gadjah Mada. Seminar Nasional Kebumihan, 378-388.
- Sheorey, P., R. (1994). *A theory for In Situ stresses in isotropic and transverseley isotropic rock*. International Journal of Rock Mechanics and Mining Sciences & Geomechanics Abstracts. Vol. 31, 23-34.
- Sivakugan, N; Shukla, S.K; Das, B.M. (2013). *Rocks Mechanics an Introduction*. New York: CRC Press. 256 hal.
- Suhendro, B. (2000). Metode Elemen Hingga dan Aplikasinya. Yogyakarta: Jurusan Teknik Sipil, Fakultas Teknik, Universitas Gadjah Mada. 305 hal.
- Supartoyo dan Omang, A. (2013). Peta Kawasan Rawan Bencana Gempabumi Provinsi Nusa Tenggara Timur. Bandung: Pusat Vulkanologi dan Mitigasi Bencana, Badan Geologi, Kementerian ESDM.
- Tsiambaos, G., dan Saroglou, H. (2009). *Excavatability assessment of rock masses using the Geological Strength Index (GSI)*. Bull Eng Geol Environ, 13-27.
- van Zuidam, R. (1983). *Guide to Geomorphologic-Aerial Photographic Interpretation and Mapping*. Enschede, Netherland: ITC. 325 hal.