

DAFTAR PUSTAKA

- Abbas, S.M., dan Konietzky, H.H. 2015. Rock Mass Classification Systems: University of Peshawar.
- American Standard Testing and Material. 2017. Determination of the Point Load Strength Index of Rock and Application to Rock Strength Classifications. ASTM D 5731-16. doi:10.1520/D5731-16.
- Arianto, B., Gde Budi Indrawan, I., and Wayan Warmada, I.. 2023. Tunnel Stability Analysis Under Seismic Load Using Finite Element Method: A Case Study of Spillway Tunnel, Sidan Dam, Bali, Indonesia: IOP Conference Series: Earth and Environmental Science, v. 1244, doi:10.1088/1755-1315/1244/1/012021.
- Badan Standardisasi Nasional. 2008, Cara Uji Kuat Tekan Batu Uniaksial. SNI 2825-2008. Jakarta.
- Badan Standardisasi Nasional. 2008. Cara Uji Penentuan Batas Plastis dan Indeks Plastisitas Tanah. SNI 03-1966-2008. Jakarta.
- Badan Standardisasi Nasional. 2015. Cara Uji Triaksial untuk Tanah Kohesif dalam Keadaan Tidak Terkonsolidasi dan Tidak Terdrainase (UU). SNI 4813-2015. Jakarta.
- Badan Standardisasi Nasional. 1994. Metode Pengujian Berat Isi Tanah Berbutir Halus dengan Cetakan Benda Uji. SNI 03-3637-1994. Jakarta
- Badan Standardisasi Nasional. 2019. Metode Uji Penentuan Kadar Air untuk Tanah dan Batuan di Laboratorium. SNI 1965-2015. Jakarta
- Badan Standardisasi Nasional. 1991. Pengujian Laboratorium untuk Menentukan Sifat Fisika pada Contoh Batu. SNI 03-2437-1991. Jakarta
- Barton, N., Lien, R., and Lunde, J.. 1974. Engineering classification of rock masses for the design of tunnel support: Rock mechanics, v. 6, p. 189–236, doi:10.1007/BF01239496.
- Bieniawski, Z.T. 1989. Engineering Rock Mass Classifications: A Complete Manual for Engineers and Geologists in Mining, Civil, and Petroleum Engineering, <https://api.semanticscholar.org/CorpusID:106642074>.
- Broch, E., and Franklin, J.A. 1972. The point-load strength test: International Journal of Rock Mechanics and Mining Sciences & Geomechanics Abstracts, v. 9, p. 669–676, doi:10.1016/0148-9062(72)90030-7.
- Cai, M., Kaiser, P.K., Tasaka, Y., and Minami, M. 2007. Determination of residual strength parameters of jointed rock masses using the GSI system: International Journal of Rock Mechanics and Mining Sciences, v. 44, p. 247–265, doi:10.1016/j.ijrmms.2006.07.005.

Danuartha, M., Sadono, K., and Putranto, T. 2022. Stability Evaluation of Bener Dam Diversion Tunnel During Construction: IOP Conference Series: Earth and Environmental Science, v. 1098, p. 012017, doi:10.1088/1755-1315/1098/1/012017.

Deere, D.U., and Deere, D.W. 1988. The Rock Quality Designation (RQD) Index in Practice, *in* Rock Classification Systems for Engineering Purposes, ASTM International, doi:10.1520/STP48465S.

Direktorat Jenderal Bina Marga. 2021. Penyelidikan Geologi Teknik dalam Pembangunan Terowongan Jalan:

Hamilton, W.B. 1979. Tectonics of the Indonesian region: Professional Paper Report 1078, doi:10.3133/pp1078.

Heryanto, R., dan Sikumbang, N. 2009. Peta Geologi Regional Lembar Banjarmasin: Pusat Survei Geologi, skala 1:250000, 1 lembar

Hoek, E., and Brown, E.T. 1997. Practical Estimates of Rock Mass Strength: International Journal of Rock Mechanics and Mining Sciences, v. 34, p. 1165–1186, doi:10.1016/S1365-1609(97)80069-X.

Hoek, E., Carranza-Torres, C., and Corkum, B. 2002. Hoek-Brown failure criterion - 2002 Edition, *in* NARMS-TAC Conference, Toronto, v. 1, p. 267–273.

Hoek, E., Carter, T.G., and Diederichs, M.S. 2013. Quantification of the Geological Strength Index Chart, *in* proceedings 47th U.S. Rock Mechanics/Geomechanics Symposium, San Francisco, California.

Hoek, E., and Diederichs, M.S. 2006. Empirical estimation of rock mass modulus: International Journal of Rock Mechanics and Mining Sciences, v. 43, p. 203–215, doi:10.1016/j.ijrmms.2005.06.005.

Hoek, E., and Marinos, P. 2007. A brief history of the development of the Hoek-Brown failure criterion: Soils and Rocks, v. 30, p. 85–92, doi:10.28927/SR.302085.

Huang, S., Hu, S., Zhao, L., and Zeng, Z. 2021. Stability Analysis of Deep Rectangular Tunnels Using Adaptive Finite Element Limit Analysis with Hoek–Brown Failure Criterion: Arabian Journal for Science and Engineering, v. 46, p. 10931–10941, doi:10.1007/s13369-021-05632-5.

ISRM. 1978. International society for rock mechanics commission on standardization of laboratory and field tests: Suggested methods for the quantitative description of discontinuities in rock masses: International Journal of Rock Mechanics and Mining Sciences & Geomechanics Abstracts, v. 15, p. 319–368, doi:[https://doi.org/10.1016/0148-9062\(78\)91472-9](https://doi.org/10.1016/0148-9062(78)91472-9).

Japan International Cooperation Agency (JICA). 2018. Guideline for Design of Road Tunnel: Japan, 86 p.

JSCE. 2007. Standard Specifications for Tunnelling: Mountain Tunnels: Japan, 282 p.

Kurniawan, P., and Hadimuljono, M.B. 2021. *Applied Geotechnics for Engineer*: Yogyakarta, Penerbit Andi.

Marinos, P., dan Hoek, E. 2000. GSI-A geologically friendly tool for rock mass strength estimation: Proceedings of the International Conference on Geotechnical and Geological Engineering (GeoEng2000),.

Marinos, P.G., PH.D., Marinos, V., and Hoek, E., PH.D. 2007. The Geological Strength Index (GSI): A Characterization Tool For Assessing Engineering Properties For Rock Masses; Proceedings Of The International Workshop On Rock Mass Classification In Underground Mining: , p. 87–94.

Muhammad, F. 2024. Evaluasi Kondisi Geologi Teknik Untuk Penentuan Metode Penggalian Dan Sistem Penyangga Terowongan Pengelak Bendungan Riam Kiwa Provinsi Kalimantan Selatan: Universitas Gadjah Mada, 184 p.

Permatasari, S. 2023. Evaluasi Kondisi Geologi Teknik Terowongan Pengelak Bendungan Rongkong Sulawesi Selatan: Universitas Gadjah Mada.

Sazzad, Md.M., Joti, S., and Rahman, M. 2023. Effect of Water Table Position on the Stability of Tunnel: Journal of Water Resource Engineering and Management, v. 10, doi:10.37591/JoWREM.

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, v. 31, p. 23–34, doi:10.1016/0148-9062(94)92312-4.

Sikumbang, N. 1986. Geology and tectonics of pre-Tertiary rocks in the Meratus Mountains, South East Kalimantan, Indonesia: University of London, 13(2), p. 1-31

Sivakugan, N., Shukla, S.K., and Das, B.M. 2012. *Rock Mechanics: An Introduction*: USA, CRC Press, 254 p.

Streckeisen, A. 1976. To each plutonic rock its proper name: Earth-Science Reviews, v. 12, p. 1–33.

de Vallejo, L.G., and Ferrer, M. 2011. *Geological Engineering*. Netherland: CRC Press Balkema

Wentworth, C.K. 1922. A Scale of Grade and Class Terms for Clastic Sediments: The Journal of Geology, v. 30, p. 377–392.

Yang, Y., dan Xiao, M. 2011. Stability Analysis of Diversion Tunnels in Hydropower Plant Subjected to Initial Impoundment, *in* 2011 Asia-Pacific Power and Energy Engineering Conference, p. 1–4, doi:10.1109/APPEEC.2011.5748565.

YREC. 2021. *Laporan Utama Riam Kiwa*: Jakarta, YREC, v. 1.



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Yunanto, A. 2020. Evaluasi Kondisi Geologi Teknik Bagi Perancangan Terowongan Saluran Pengelak Bendungan Cipanas Provinsi Jawa Barat: Universitas Gadjah Mada.

Zuhdi, M. 2019. Buku ajar pengantar geologi: Mataram, Duta Pustaka Ilmu.