

## 06: REFERENCES

- Bao, C.G., Gong, B.W., and Zhan, L.T., (1998). "Keynote paper: Properties of unsaturated soils and slope stability for expansive soils." Proc., 2nd Int. Conf. on Unsaturated Soils, Vol. 2, Beijing, 71–98.
- Bishop, A.W., (1955), "The use of the slip circle in the stability analysis of slopes", *Geotechnique*, pp. 5(1): 7-17.
- Curden, D.M., (1991), "A simple definition of a Landslide", International association of Engineering Geology, Paris.
- Cruden, D.M. and Varnes, D.J., 1996, "Landslide Types and Processes, Special Report", Transportation Research Board, National Academy of Sciences, pp. 247:36-75
- Dharmasena, U.K.N.P., Bandara, K.N., Karunawardena W.A and Kulathilaka, S.A.S.,(2015) , "Back Analysis and Rectification of a Failed Cut Slope in the Southern Expressway", ICGE 2015, Sri Lanka, pp. 543-546
- Escario, V. and Juca, J., (1989), "Shear strength and deformation of partly saturated soils", Proceedings of the 12<sup>th</sup> International Conference on Soil Mechanics and Foundation Engineering, Rio de Janeiro, 2: pp. 43-46.
- Fellenius, W., (1936), " Calculation of the stability of earth dams", Proceedings of the second congress of large dams", Vol. 4, pp.445-463.
- Fredlund, D.G., Morgenstern, N.R and Widger R.A., (1978) "The shear strength of unsaturated soils." *Canadian geotechnical journal*, 15, pp. 313-321
- Fredlund, D. G. and Rahardjo, H., (1993), "Soil mechanics for unsaturated soils". New York: Wiley.
- Gan, J.K.M. and Fredlund, D.G., (1988), "Multistage direct shear testing of unsaturated soils", American Society for Testing Materials, *Geotechnical Testing Journal*, 11(2): pp. 132-138.
- GEO-SLOPE International Ltd, Second Edition, May 2007 "Stability Modeling with SLOPE/W 2007" An Engineering Methodology Calgary, Alberta, Canada.

GEO-SLOPE International Ltd, Second Edition, May 2007 “Seepage Modeling with SEEP/W 2007” An Engineering Methodology Calgary, Alberta, Canada.

Janbu, N., (1954), “Applications of composite slip surfaces for stability analysis”, Proceedings of the European conference on the stability of earth slopes, Stockholm, Vol.3, pp. 39-43.

Jotisankasa, A., Tapparnich, J., Booncharoenpanich, P., Hunsachainan, N. and Soralump, S., (2010), “Unsaturated soil testing for slope studies”, Proc. International conference on Slope, Thailand 2010, Geotechnique and Geosynthetics for Slope, Chiangmai, Thailand.

Kulathilaka, S.A.S. and Sujeevan, V. (2011), “Rain triggered slope failures in unsaturated residual soils”, Published in the Journal of the Sri Lankan Geotechnical Society, Sri Lanka, pp. 20 -26.

Kulathilaka, S.A.S. and Kumara, L.M., (2011), “Effectiveness of surface drainage in enhancing the stability of cut slopes during the periods of heavy rain”, Published in the Journal of the Institution of Engineers, Sri Lanka, pp.127-137.

Landslide Research and Risk Management Division, NBRO, “ Proposal for rectification of failed slope at Ch 42+340 to Ch 42+400 in STDP”, 2013

Morgenstern, N.R. and Price, V.E., (1965), “The analysis of the stability of general slip surfaces”, Geotechnique, Vol. 15, pp.79-93.

Nurly. G and Azman B.K, (2008), “Mechanics of Rainfall infiltration through Soil Slope”, Faculty of engineering, University of technology Malaysia, Malaysia

Sarma, S.K., (1973), “Stability analysis of Embankment and Slopes”, Geotechnique, Vol 23 (3), pp. 423-433.

Spencer, E., (1967), “A method of analysis of Embankments assuming parallel interslice forces”, Geotechnique, Vol 17 (1), pp. 11-26.s

Sujeevan, V. and Kulathilaka, S.A.S., (2011), “Rainfall infiltration analysis in unsaturated residual soil slopes”, Published in the Journal of the Sri Lankan Geotechnical Society, Sri Lanka.

US Army Corps of Engineers, (2003), “Slope Stability Engineer Manual”, Department of the Army ,Washington, USA.

Vanapalli, S.K., Fredlund, D.G. Pufahl, D.E. and Clifton, A.W., (1996), “Model for the prediction of shear strength with respect to soil suction”, Canadian Geotechnical Journal, Vol. 33, pp. 379-392.

Varnes, D.J., (1978), “ Slope movement types and process.” Transportation Research Board, National Academy of Sciences.

Vasanthan, N., (2016), “Establishment of fundamental characteristics of some unsaturated Sri Lankan residual soils”, Thesis submitted in partial fulfillment of the requirements for the degree of Master in Engineering, University of Moratuwa.

Wieczorek .G.F., (1996), “Landslide triggering mechanisms”, Special Report - National Research Council, Transportation Research Board Volume 247, pp.76-90.

Williams, P.J, (1982), “An Introduction to geotechnical science: The science of the earth”, Longman, New York.

## **7: APPENDICES**

### **Appendix A:**

**Location plan of the bore holes which were drilled from the berms, after failure**