











## ACKNOWLEDGEMENTS

The authors are obliged to Director General, DGMS for his permission to present this paper. The view expressed in this paper are that of the author and not that of Directorate General of Mines Safety. The work reported in this paper forms the part of PhD work of the first author.

## REFERENCES

- [1] Read, J., Stacey, P. (2009). Guidelines for open pit slope design. CRC Press, pp. 1-52.
- [2] DGMS. (2010). DGMS (Tech.) (S&T) Circular No. 02.
- [3] DGMS (2016). DGMS Report, India.
- [4] Sullivan, T.D. (1994). Mine slope design, the chances of getting the answer right and the risk of getting it wrong. Proceedings Fourth Large Open Pit Mining Conference, Perth, 5-9 September 1994, Australia, South African Institute of Mining and Metallurgy, Johannesburg.
- [5] Mostyn, G.R., Li, K.S. (1993). Probabilistic slope analysis - State of play. Proceedings of the Conference on Methodology in Geotechnical Engineering, Canberra, 10-12 February 1993, pp. 89-109.
- [6] Satyanarayana, I., Sinha, A.K. (2018). A critical review of stability analysis and design of pit slopes in Indian opencast coal mines. *Chemical Engineering Transactions*, 66: 1231-1236. <https://doi.org/10.3303/CET1866206>
- [7] McCarthy, David, F. (2007). *Essential of Soil Mechanics and Foundations*. Pearson Prentice Hall Publication, pp. 657-718.
- [8] Abramson, L.W., Lee, T.S., Sharma, S., Boyce, G.M. (2001). *Slope Stability and Stabilization Methods*. 2<sup>nd</sup> edition, John Wiley & Sons, p. 712.
- [9] Naghadehi, M., Jimenez, R., KhaloKakaie, R., Jalali, S. (2013). A new open-pit mine slope instability index defined using the improved rock engineering systems approach. *International Journal of Rock Mechanics and Mining Sciences*, 61: 1-14. <https://doi.org/10.1016/j.ijrmms.2013.01.012>
- [10] Little, M.J. (2006). Slope monitoring strategy at PPRust open pit operations. *International Symposium on Stability of Rock Slopes in Open Pit Mining and Civil Engineering, the South African Institute of Mining and Metallurgy, Symposium Series*, 44: 211-230.
- [11] Satyanarayana, I., Budi, G., Sen, P., Sinha, A.K. (2018). Stability evaluation of highwall slope in an opencast coal mine-a case study. *AMSE JOURNALS-AMSE IIETA publication-2017-Series: Modelling C*, 78(3): 253-273. [https://doi.org/10.18280/mmc\\_c.780301](https://doi.org/10.18280/mmc_c.780301)