

## Brief Bio-data

1. **Name:** Dr. Anand Singh

2. **Date of Birth:** 04.04.1994

3. **Current Position and Address (Include Email ID and Contact Number):** Scientist-D  
Slope Stabilization and Landslide Management  
CSIR-CIMFR, Barwa Road, Dhanbad

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4. **Educational qualifications: (Graduation and above)**

Sl. No.	Degree	Year of Passing	University/Institute	Subject
1	B.E.	2016	R.C.E.R.T. College, Gondwana University, Chandrapur, Maharashtra	Mining Engineering
2	M.Tech	2018	IIT (ISM), Dhanbad	Open Cast Mining
3	Ph.D.	2026	IIT Patna	Dump Slope Stability

5. **Work experience:**

Designation	Institute/company	From	To	Nature of Work
Scientist-C	CSIR-CIMFR	19/07/2021	01/12/2025	R&D
Scientist-D	CSIR-CIMFR	02/12/2025	Till date	R&D

6. **Work Area(s)/ Specialization:** Slope Stability and Landslide Preventive Measures

7. **Major contributions: (Max. 100 words):** An attempt has been made for developing of dump slope rating system in Indian geo-mining conditions with its practical implications in the field. The factors considered in this rating system will help in optimizing the geometrical parameters for accommodating larger volume of waste materials. A book-chapter has been published for studying the effect of plant roots on different physical and geo-technical properties of mine waste dump.

8. **No. of Research Publications: 09**

- **Papers in Journals: 06**
- **In conference proceedings: 03**
- **Invited lectures delivered: 01**
- **List of best 05 publications:**

1. Singh, A., Verma, A. K., & Roy, S. K. (2025). Applicability of Dump Slope Rating Systems in Indian Coal Mines. Journal of the Geological Society of India, 101(5), 647-654.

2. Singh, A., Verma, A. K., Kumar, A., Singh, C. S., & Roy, S. K. (2023). Effect of

- temperature on physico-mechanical properties of Chunar Sandstone, Mirzapur, UP, India. *Journal of Mining Science*, 59(1), 53-62.
3. Thakre, O., Kumar, S., Singh, R. K., **Singh, A.**, & Roy, S. K. (2022). Analysis of factors and suggestions for improving labour productivity in underground metal mines. *Journal of Mining and Geosciences*, 1(1), 1-5.
  4. **Singh, A.**, Roy, S. K., Verma, A. K., Kumar, R., Varwade, K., Singh, R. K., ... & Singh, C. S. (2024, January). Analysis and Reprofilng of Overburden Slope Failure in Lignite Mine of Surat District, Gujarat. In *International Conference on Geotechnical Issues in Energy, Infrastructure and Disaster Management* (pp. 709-716). Singapore: Springer Nature Singapore.
  5. Sardana, S., Verma, A. K., & **Singh, A.** (2019). Comparative analysis of rockmass characterization techniques for the stability prediction of road cut slopes along NH-44A, Mizoram, India. *Bulletin of Engineering Geology and the Environment*, 78(8), 5977-5989.

• **Books/Chapters authored/edited: 01**

Singh, A., Roy, S. K., Verma, A. K., Singh, R. K., Varwade, K., Kumar, P., ... & Singh, C. S. Effects of Revegetation on Abandoned Man-Made Slopes of Chromite Mine in Sukinda Region, India. In *Mining Impact on Soil and Water Resources* (pp. 30-42). CRC Press.

**List of 5 Major Contract R&D Projects:**

1. Slope stability Monitoring and analysis of RMP-4 dump of Hindalco Industries Ltd, Muri Works (R&D (Sponsored)).
2. Scientific study and advice on slope stability of pit and dumps of six iron ore mines of M/s Tata Steel (R&D (Consultancy)).
3. Scientific Study and Advice on slope stability of pit and dumps slope of Limestone mine at Jaykappuram of M/s JK Laxmi Cement Ltd. (R&D (Consultancy)).
4. Slope Stability study for design of ultimate pit, internal dump, external dump of Umarsar Lignite Mine, GMDC Ltd. (R&D (Consultancy)).
5. Scientific study for Part Final Survey at Dulanga Coal Mining Project of NTPC using terrestrial 3-D Laser Scanner and Associated Software (R&D (Sponsored)).

**9. (a) Name of Patents/Copyrights applied /granted/commercialized: NA**

**(b) Technologies/Products /knowhow/Services developed: NA**

**10. Honors/Awards/Recognitions/Fellowships/Scholarships/Professional Memberships received:NA**

**11. Societal Contributions:**

1. Active participation in different societal activities being conducted in the institute level.