

BRIEF BIODATA

1. Name: Dr. Anand Shyamji Sharma

2. Date of Birth: 28/01/1994

3. Current Position: Senior Technical Officer-I

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5. Educational qualifications: (Graduation and above)

Sl. No.	Degree	Year of Passing	University/Institute	Subject
1	Ph.D.	2025	IIT Kharagpur	Mining Engineering
2	B.E. (Mining)	2016	Rajiv Gandhi College of Engineering, Research & Technology, Chandrapur	Mining Engineering

6. Work experience:

Designation	Institute/company	From	To	Nature of Work
Sr. Technical Officer-I	CSIR-CIMFR, Barwa Road, Dhanbad	04.01.2024	Till date	Research work related to Mine Planning & Economics, Survey and Ergonomics
Technical Officer	CSIR-CIMFR, Barwa Road, Dhanbad	04.01.2019	03.01.2024	Research work related to Mine Planning & Economics, Survey and Ergonomics
Graduate Apprenticeship Trainee	Saoner mine no.1(U/G coal mine), Nagpur area, Western Coalfields Limited.	27.03.2017	26.03.2018	Theoretical knowledge acquired academically got value-addition by nuances of coal production processes and inextricable planning & design ramifications.

7. Work Area(s)/ Specialization:

- i. Mine Planning & Economics
- ii. Mine Surveying
- iii. Ergonomics
- iv. Mine Safety

8. Major R&D contributions:

- Assisted in the preparation of the Mining Plan for Drang Rock Salt Mine, Hindustan Salts Limited, Mandi, Himachal Pradesh.
- Evaluated the Geological Model and vetted the Annual Production Plan (APP) of Manoharpur Coal Mine (OCPL) using MINEX software.
- Conducted volumetric measurements for Khanak stone mine, BCCL mines, Talaipalli coal mine (NTPC), and Manoharpur coal mine (OCPL) using 3D Terrestrial Laser Technology.
- Vetted Mining Plans of Taliha Graphite mine, Bopi mine, and Dodeserum mine in Arunachal Pradesh.
- Estimated reserves for highwall mining at Tirap and Tikak mines of NEC.
- Estimated reserves for Nichitpur Coal Mine as part of the amalgamation study of Nichitpur and Sandra Basjora mines of BCCL.

- Performed whole-body vibration evaluations of HEMM operators at NMDC and Hutti mines, ensuring operational safety and regulatory compliance.

9. No. of Research Publications:

- Papers in Journals: 04
 - In conference proceedings: 06
 - Books/Chapters authored/edited: 05
 - Invited lectures delivered: 01
 - List of the best 05 publications:
1. **Sharma, A.S.**, Mandal, B.B., Prakash, A., Mandal, S.K. (2025). Severity of Hand-Arm Vibration Exposure and Prevalence of Hand-Arm Vibration Syndrome Among Jackhammer Operators in Indian Stone Quarries. Mining, Metallurgy & Exploration, 42, 319-333. <https://doi.org/10.1007/s42461-025-01180-w> (I.F. 2.1, Q2)
 2. **Sharma, A.S.**, Mandal, B.B., Prakash, A., Mandal, S.K. (2025). Impact of Hand-Arm Vibration on Grip and Pinch Strength of Jackhammer Operators: A Cross-sectional Study. Journal of Occupational and Environmental Medicine. <https://doi.org/10.1097/JOM.0000000000003400> (I.F. 2.0, Q2)
 3. Prakash, A., Verma, A., **Sharma, A. S.**, Jaiswal, P., Mandal, S.K. (2024). A hybrid of GNSS remote sensing and ground-based laser technology for geo-referenced surveying in mining." Current Science, 126 (3): 336-344. <https://doi.org/10.18520/cs/v126/i3/336-344>
 4. **Sharma, A.S.**, Prakash, A., Mandal, S.K., Prasanth, K., Kumbhakar, D., Jaiswal, P. (2023). Reserve Estimation Through Conventional Method and Computer-Aided Software: A Comparative Case Study. In: Sinha, A., Sarkar, B.C., Mandal, P.K. (eds) Proceedings of the 10th Asian Mining Congress 2023. AMC 2023. Springer Proceedings in Earth and Environmental Sciences. Springer, Cham. https://doi.org/10.1007/978-3-031-46966-4_3.
 5. **Sharma, A. S.**, Mandal, S. K., Suresh, G., Oraon, S., Kumbhakar, D. (2020). Whole Body Vibration Exposure and its Effects on Heavy Earthmoving Machinery (HEMM) Operators of Opencast Mines – A Review. Journal of Mines, Metals and Fuels, 68(7), 221-228. <https://doi.org/10.18311/jmmf/2020/26892>

10. (a) Name of Patents/Copyrights applied /granted/commercialized: Nil
(b) Technologies/Products /knowhow/Services developed: Nil

11. Honors/Awards/Recognitions/Fellowships/Scholarships/Professional Memberships received:

- i. Second Class Mine Manager Certificate of Competency (Coal-unrestricted), issued by DGMS.
- ii. Training completion certificate of SURPAC, MINEX, Whittle, MineSched, Dymola, X-flow, and DraftSight Pro, issued by Dassault Systèmes India.
- iii. Gas Testing Certificate, issued by DGMS.
- iv. First Aid certificate, issued by the Red Cross Society.
- v. Merit Certificate from Gondwana University for being the overall 3rd university Topper in the Mining Engineering discipline.

12. Societal Contributions: Vigyan Bharti



Signature
Dr. Anand S. Sharma