

## BRIEF BIODATA

1. Name: Anand Shyamji Sharma

2. Date of Birth: 28/01/1994

3. Current Position and Address (Include Email ID and Contact Number): Technical Officer  
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4. Educational qualifications: (Graduation and above)

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

5. Work experience:

Designation	Institute/company	From	To	Nature of Work
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.
Technical Officer	CSIR-CIMFR, Barwa Road, Dhanbad	04.01.2019	Till date	Research work related to Mine Planning & Economics, Survey and Ergonomics

6. Work Area(s)/ Specialization:

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

7. Major contributions: (Max. 100 words):

- i. Assisted in Preparation of Mining Plan of Drang Rock Salt Mine, Hindustan Salts Limited, Mandi, Himachal Pradesh.
- ii. Evaluated the Geological Model and vetted the Annual Production Plan (APP) of Manoharpur Coal Mine (OCPL) by using MINEX software.
- iii. Carried out Volumetric measurement of Khanak stone mine, mines of BCCL, Talaipalli coal mine (NTPC) & Manoharpur coal mine (OCPL) by using 3D Terrestrial Laser Technology.
- iv. Vetted Mining Plan of Taliha Graphite mine, Bopi mine, Dodeserum mine of Arunachal Pradesh.

8. No. of Research Publications:

- Papers in Journals: 1
- In conference proceedings: 2
- Invited lectures delivered: Nil

- List of best 05 publications:
  - I. Sharma Anand, Mandal S. K., et al. Whole-body vibration exposure and its effects on Heavy Earthmoving Mine Machinery (HEMM) operators of opencast mines – a review. Journal of Mines, Metal & Fuels. July 2020. pg. 221-228.
  - II. Sharma Anand, Mandal S. K., et al. Assessment of Exposure to Vibration of Two-Wheeler Riders. International Conference on Humanizing Work and Work Environment (HWWE), 2019.
  - III. Sharma Anand and Budi G. Investigation into coal mine pillar design practices with respect to Indian mines. Technological Advancements and Emerging Mining Methods (TAEMM), 2018.
- Books/Chapters authored/edited: Nil

9. List of 5 Major Contract R&D Projects:

- i. Volumetric measurement of opencast excavation of Khanak stone mine at Khanak using Laser Technology and mines of BCCL.
- ii. Evaluation of Geological Model and vetting of Annual Production Plan of Manoharpur coal mine (OCPL) by using MINEX software.
- iii. Advice on the vetting of Mine plan of Taliha Graphite mine, Bopi Mine, Dodeserum, and Tal area in Arunachal Pradesh.
- iv. Development and adoption of real-time progressive system (RTPS) for the cost-effective safe operation of mobile machinery show-cased demonstration of dumper fleet.
- v. Preparation of Mining Plan of Drang Rock Salt Mine, Hindustan Salts Limited, Mandi, Himachal Pradesh

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 Systems India.
- iii. Gas Testing Certificate, issued by DGMS.
- iv. First Aid certificate, issued by Red Cross Society.
- v. Merit Certificate from Gondwana University for overall 3<sup>rd</sup> university Topper in Mining Engineering discipline.

12. Societal Contributions: Vigyan Bharti

Signature  
Anand S. Sharma