

Brief Bio-data

1. Name: Ashish Kumar Vishwakarma

2. Date of Birth: 10/01/1995

3. Current Position and Address (Include Email ID and Contact Number) :
Technical Officer, CSIR-CIMFR, Barwa Road, Dhanbad-826001, Jharkhand
ashishcimfr@gmail.com , akvishwakarma@cimfr.nic.in Mb.No. 9575144495

4. Educational qualifications: (Graduation and above)

Sl. No.	Degree	Year of Passing	University/Institute	Subject
01	B.E.	2017	Government Engineering College, Jagdalpur	Mining Engg.
02	M.Tech	2020	IIT(ISM) Dhanbad	Mining Engg.
03	Ph.D.	Pursuing	IIT Kharagpur	Mining Engg.

5. Work experience:

Designation	Institute/company	From	To	Nature of Work
Technical Officer	CSIR- Central Institute of mining and fuel research, Dhanbad	12-12-2018	Till Date	R&D work

6. Work Area(s)/ Specialization: Rock Excavation Engineering, Opencast Blasting , Rock Mechanics, Underground excavation, Mechanical excavation of hard rock, Blast induced ground vibration control and its measurement, Numerical Simulation under dynamic loading, Blast induced rock fragmentation, Statistical analysis etc.

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

- Blast induced deformation pattern Assessment in the slot raise excavation using numerical simulation in Rampura Agucha Mine.
- The simulation and prediction of vibration due to movement of high speed train.
- Overbreak control in the development face blasting of underground metal mine in Sindeshar Khurd Mine of M/s HZL.
- Technical input for successful blast in the nearby bench of high tension tower at a distance of 70m.
- Demolition of cliffs in Navi Mumbai International airport keeping vibration level under safe limit.
- The Impact of relief hole diameter on blast induced damage pattern of an underground face blast in Rajpura Dariba mine.

8. No. of Research Publications:

- Papers in Journals: 01
- In conference proceedings: 01
- Invited lectures delivered:
- List of best 05 publications:
Himanshu, V. K., Mishra, A. K., Roy, M. P., **Vishwakarma, A. K.**, & Singh, P. K. (2021). Numerical simulation based approach for assessment of blast induced deformation pattern in slot raise excavation. International Journal of Rock Mechanics and Mining Sciences, 144, 104816.
- Books/Chapters authored/edited

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

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:

- Gold Medalist in Bachelor's of Engineering (2017)
- Received MHRD fellowship from 2017-18
- Secured AIR 72 in GATE 2018.

12. Societal Contributions :

- Giving education to the poor and unprivileged children.
- Part of a club to provide free food to the poor and unprivileged people of Dhanbad.