

1. Name: Dr. J. C. Jhanwar

2. Date of Birth: 12 - 02 - 1965

3. Current Position and Address: Sr. Principal Scientist & Head, Geotechnics & Mine Modelling Section
CSIR-CIMFR Unit 1, 3rd Floor MECL Complex, Seminary Hills, Nagpur
Email: jcjhanwar@cimfr.res.in; jcjhanwar@yahoo.com



4. Educational qualifications: (Graduation and above)

Sl. No.	Degree/Year of Certificate	Passing	University/ Institute	Subjects
i	B E	1988	University of Jodhpur	Mining Engg.
ii	Higher Level Diploma	1991	BITS - Pilani	Science & Technology
iii	M E	2001	Nagpur University	Mining Engg.
iv	Ph.D.	2010	VNIT - Nagpur	Mining Engg.

5. Work experience

Designation	Institution/company	From	To	Nature of work
I Scientist B	Central Mining Research Institute	1989	1994	R & D in the fields of Mine fire & Slope Stability
ii Scientist C	Central Mining Research Institute	1994	1999	R & D in Slope Stability & Blasting
iii Scientist EI	Central Mining Research Institute	1999	2004	R & D in Slope Stability, Rock Mechanics
iv Scientist EII	Central Institute of Mining & Fuel Res.	2004	2009	R & D in Slope Stability
V Sr. Pr. Scientist	Central Institute of Mining & Fuel Res.	2009	till date	R & D in Slope Stability

6. Area of specialization: Slope Stability

7. Honors/Awards received:

8. Fellowships/Scholarships: --

9. No. of Research Publications:

- Papers in journals: 24
- In conference proceedings: 65
- Invited/key-note addresses:
- List of best 05 publications:

(I) Jhanwar J C (2012), A Classification system for the slope stability assessment of opencast coal mines in central India. Rock Mechanics and Rock Engineering, Vol. 45, Issue 4, pp. 631-637, DOI: 10.1007/s00603-012-02234.

(II) J C Jhanwar (2011), Theory and practice of air - deck blasting in mines and surface excavations - A review. Geotechnical and Geological Engineering, Vol. 29, No. 5, pp. 651-663, DOI: 10.1007/s10706-011-9425-x.

(iii) J C Jhanwar, N R Thote (2011), Slope failures in the opencast coal mines of Wardha Valley Coalfield in central India - A study. Rock Mechanics and Rock Engineering, Vol.44, Issue 5, pp. 635-640, DOI:10.1007/s00603-011-0139-4.

- (iv) J C Jhanwar, J L Jethwa, A.H. Reddy (2000), Influence of air-deck blasting on fragmentation in jointed rocks in an open-pit manganese mine. Engineering Geology, 57: 13-29.
- (v) J C Jhanwar, A K Chakraborty, A.H. Reddy, J. L. Jethwa (1999), Application of air-decks in production blasting to improve fragmentation and economics of an open-pit mine. Geo-technical and Geological Engineering, 17: 37-57.

10. Number of Books authored/edited: 01 (Conference Proceeding)

11. (a) No. of Patents granted/applied for: --

(b) Technologies developed, Licensed and/or commercialized: --

12. Foreign visits:--

13. Details of Professional memberships:

- i. Fellow : Institution of Engineers (India)
- ii. Life Member : Indian National Committee on Rock Mechanics and Tunneling Technology
- iii. Life Member : Mining Engineers Association of India (LM: 4734 NAG)

14. Major contributions: (Max. 150 words)

- Design of optimum pit slopes in coal, limestone and iron ore mines under varied geo-mining conditions and through appropriate changes in mining strategy. Helped the mine managements in mining under unstable slope conditions and recovering blocked up mineral reserves.
- Developed an Empirical System for Slope Stability Assessment of Opencast Coal Mines in Wardha Valley Coalfield
- Developed slope design curves for rock and soil slopes of opencast coal mines in Wardha Valley Coalfield.
- Developed **empirical correlations** for prediction of **fragmentation, throw** and **ground vibrations** from **conventional** and **air-deck blasting** in soft to medium strength rock masses in open-pit mines (work published in international journals).
- Developed a **feasibility index** and **guide lines on air-deck blasting** for soft and medium strong rock masses in open - pit mines.
- Completed over 80 Industry sponsored projects in the fields of Blasting, Slope Stability, Rock Mechanics & Ground Control in Opencast & Underground Mines & civil sector.
- Authored over 60 Technical Reports

15. Technologies and Products/ Services

- (i) Developed:
- (ii) Licensed:
- (iii) Commercialized:

16. Designs and Prototype Developed:

17. Honours and awards won for technological contributions or sociological impact of R&D:

J C Jhanwar
Signature