

1. Name: Dr. Keshar Prasad Yadava

2. Date of Birth: 10-August-1960

3. Current Position and Address:

Principal Scientist, Longwall Mining Division,
CSIR-CIMFR, Dhanbad -826015.

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(with E-mail & Phone no.)



4. Educational qualifications: (Graduation and above)

Sl. No.	Degree /Certificate	Year of Passing	University/ Institute	Subjects
i	B.Sc.	1980	Gorakhpur University Gorakhpur	Physics, Chemistry, Maths
ii	M.Sc.	1982	BHU VARANASI	Maths
iii	PhD	1990	BHU VARANASI	Maths-Mining Engineering

5. Work Experience

Designation	Institution/company	From	To	Nature of Work
i Scientist 'B'	CSIR-CIMFR	19-10-1995	19-10-2000	R&D
ii Scientist 'C'	CSIR-CIMFR	19-10-2000	19-10-2005	Do
iii Scientist 'E-I'	CSIR-CIMFR	19-10-2005	19-10-2010	Do
iv Principal Scientist	CSIR-CIMFR	19-10-2010	Contd.	Do

6. Area of specialization: Rock Mechanics, Numerical Modelling, Condition Monitoring & Reliability

7. Honors/Awards received:

- C.S.I.R. Research Associate award 1992
- Citation award by Director CMRI for rendering valuable services as Internal Quality Auditor in the year 1999
- As a member of Longwall Mining Discipline got citation and a cash prize of Rs. One thousand only by Director CIMFR for raising highest ECF in CIMFR in the year 2006
- As a member of Longwall Mining Discipline got citation and a cash prize of Rs. One thousand only by Director, CIMFR for raising the ECF of CIMFR through Grants-in-Aid Project in the year 2005-2006

8. Fellowships/Scholarships:

9. No. of Research Publications:

- Papers in journals: 3
- In conference proceedings: 22
- Invited/key-note addresses:
- List of best 05 publications:

1. K.P. Yadava, G.Banerjee, S.K. Sarkar (1995), "Reliability Engineering and Its Application in Longwall Mining Machinery", Proceeding of Workshop on " Routine condition Monitoring in Mining" held at CMRI. Dhanbad on 26 - 27 Sept. 1995
2. K.P.Yadav, J.G.Singh (1992), "Displacements and Stresses Around a Shallow-Seated long Level Wide Opening", The Indian mining and Engineering Journal, Bombay, Volume 31 no. 12, pp 41-50, December, 1992
3. K.P.Yadav, J.G.Singh (1996)," Effect Of Height Of Overlying Strata On Displacements And Stresses Around A Shallow-Seated Long Level Wide Opening", Proceedings of National Conference on Ground Control in Mining pp 339-366 during January 19-20, 1996 held at BHU
4. Gautam Banerjee, D. Kumbhakar & K.P.Yadava (2010), " Critical Face Width for a Longwall Panel–A Case Study", National Seminar on "meeting Rock Mechanics Challenge of Deep Underground Mining", 22-24 Apr2010 at Dhanbad Organised by ISRM(India)
5. A.K.Ray, G.Banerjee, G.S.P.Singh & K.P. Yadava (2005), "Application of induced caving technique for effective strata control at longwall faces" , Journal of Indian Institute of Coal Management, Kanke, Ranchi, Vol. 10, No. 4, April-May, 2005, pp. 2-14

10. Number of Books authored/edited: Nil

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

Sl No.	Title	Country	Filed on (Date)	Patent No.	Names of other inventors
1.	A device for sealing inside an upward drilled borehole for water injection under high pressure in underground mines	India	"0855/DEL/2001 dated 16-8-2001"	Patent No. IN220660	G. Banerjee, A. K. Ray, K.P.Yadava, G.S.P. Singh , R. Prasad
2.	An improved caving longwall method for winning of coal from thick seam in underground mines	India	212/DEL/2002 dated 11-3-2002	Patent No. IN219305	G. Banerjee, A. K. Ray, K.P.Yadava, G.S.P. Singh , R. Prasad
3.	Continuous Roof Convergence Monitor For Underground Openings.	India	Sept. 2011	In Process	D. Kumbhakar, G.Banerjee, K.P. Yadava, A.K. Ghosh

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

12. Foreign visits: Nil

13. Details of Professional memberships:

1. Member, ISRM International Society for Rock Mechanics (India)
2. Member, National Institute of Small Mines, India (NISM)

14 . Major contributions: (Max. 150 words)

The candidate was actively associated to introduce “**Oblique shortwall mining method**” for fast liquidation of standing pillars in underground coal mines for the first time in India at Balrampur mine, SECL with a grand success. **10 shortwall panels of Balarampur mine, SECL**, and **5 shortwall panels of RK-NT mine, Srirampur Area, SCCL** was successfully completed with this technology. Application of **microseismic monitoring in mines** and development of “Specific Instability Criterion” has helped to quantify the degree of instability over worked out panels and previously extracted unknown workings in coal mines. The candidate was actively involved in the field of **hard roof management** by water injection under high pressure and deep hole surface blasting at any locale and has provided an extremely cost effective method of caving to improve the cavability and fragmentation of the broken rock debris in the goaf.

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:

- (A) "Internal Quality Auditor" Certificate received (February 13, 1998)
- (B) Citation award was presented to the candidate by Director CMRI on January 1, 1999 for rendering valuable services as Internal Quality Auditor towards successful achievement of ISO 9001 accreditation of CMRI in August 1998.

Signature