

1. Name: AJAY KUMAR

2. Date of Birth: 02/12/1961

3. Current Position and Address: Pr. Technical Officer
Room No.31, Main building,
Mine Surveying & Subsidence Control,
Central Institute of Mining & Fuel Research
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4. Educational qualifications: (Graduation and above)

Sl. No.	Degree/ Certificate	Year of Passing	University/ Institute	Subjects
i	B. Sc.	1980	Ranchi	Physics, Chem., Math.
ii	M. Sc.	1998	Vinoba Bhave Hazaribag	Math

5. Work experience

Designation	Institution/company	From	To	Nature of work
i J. S. A Gr.III/1	C. M. R. S. Dhanbad	14/11/1982	13/11/1992	Surface and underground surveying, stope measurement
ii S. S. A. Gr. III/2	C.M.R.I., Dhanbad	14/11/1992	13/11/1997	Subsidence investigation and Mine surveying
iii Scientist-A Gr.III/3	C.M.R.I, Dhanbad	24/05/1996	23/05/2001	Subsidence investigation and, Mine surveying
iv. Scientist -B Gr. III/4	CIMFR, Dhanbad	24/05/2001	23/05/2006	Subsidence investigation and Mine surveying, Preparation of Mining Plan
v. Scientist -C Gr.III/5	CIMFR, Dhanbad	24/05/2006	23/05/2011	Subsidence investigation and Mine surveying, Preparation of Mining Plan
vi. Sr. T. O. Gr.III/6	CIMFR, Dhanbad	24/05/2006	23/05/2011	Subsidence investigation and Mine surveying, Preparation of Mining Plan
vii. Pr. T. O. Gr.III/7	CIMFR, Dhanbad	24/05/2011	continue	Subsidence investigation and Mine surveying, Preparation of Mining Plan

6. Area of specialization: Mine subsidence and Surveying

7. Honors/Awards received: NIL

8. Fellowships/Scholarships: NIL

9. No. of Research Publications:

- Papers in journals: 08
- In conference proceedings: 07
- Invited/key-note addresses: 0
- List of best 05 publications:

1) Prakash A., Kumar A. and Singh K. B. (2014): *Dynamic Subsidence Characteristics in Jharia Coalfield, India*, **Geotechnical and Geological Engineering**, Vol. 32, No. 3, June, pp 627-635.

2) Prakash A., Kumar Ajay, and Singh K. B. (2014): *Subsidence prediction for stowed panel under multi-seam workings in Jharia coalfield, India* **Minetech**, January-March, Vol. 35, No.1, pp 21-28.

3) Prakash A., Kumar A. and Singh K. B. (2011): Causes of subsidence and its impact on agricultural land due to mining, **Indian Journal of Environmental Protection**, Vol. 31, No. 11, November, pp 928-932.

4) Patra A. K., Mondal S. K., Kumar A. and Bose J. M. (2005): Ambient air and stack monitoring at Lodna coke plant, **Mines Metals & Fuels, July-August**, pp 132-134.

5) Prakash A., Singh K. B., Kumar A and Lokhande R. D. (2005): *Residual Subsidence over abandoned mine; A Case Study*. **Mining Engineer's Journal**, August, Vol. no. 07, No.1, pp 17-21.

10. Number of Books authored/edited: NIL

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

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

12. Foreign visits: NIL

13. Details of Professional memberships: NIL

14 . Major contributions: (Max. 150 words)

- a) Application of Total Station for subsidence measurement over large areas as well as the congested areas.
- b) Safety evaluation of built up areas and important surface structures in different coalfields.
- c) Topographical survey in landslide affected rugged terrain.
- d) Traverse survey of opencast excavation.
- e) Study into dynamic subsidence characteristics under multi seam workings.
- f) Subsidence investigation over shallow gas reservoir.
- g) Mine surveying for preparation of mining plan, subsidence monitoring etc.
- h) Highwall stability monitoring.

15. Technologies and Products/ Services NIL

(i) Developed:

(ii) Licensed:

(iii) Commercialized:

16. Designs and Prototype Developed: NIL

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

Signature