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1. **Name:** Jitendra Kumar Singh

2. **Date of Birth:** 08-11-1963



3. **Current Position and Address:**
(with E-mail & Phone no.)

Designation: Chief Scientist, CSIR-CIMFR, Dhanbad

Address: Flat No. D4, Sushila Apartment, Pandit Clinic Road, Bartand, Dhanbad-826001

E-mail: jsingh.cimfr@gmail.com

Phone: 9431723909

4. Educational qualifications: (Graduation and above)

Sl. No.	Degree/ Certificate	Year of Passing	University/ Institute	Subjects
I	B.Tech. (Hons.) Mining Engineering	1985	I.I.T. Kharagpur	Mining Engineering

5. Work experience

Designation	Institution/company	From	To	Nature of work
i Grad. Engineer (T)	TATA STEEL	01-07-1985	to 30-06-1986	U/G Coal Mining
ii Asst Engineer	TATA STEEL	01-07-1986	to 04-10-1987	U/G Coal Mining
iii Scientist B	CMRS, Dhanbad	05-10-1987	to 04-10-1992	U/G Coal Mining and other Strata Control Studies
iv Scientist C	CMRI, Dhanbad	05-10-1992	to 04-10-1997	O/C Mining (Slope Stability)
v Scientist E-I	CMRI, Dhanbad	05-10-1997	to 04-10-2001	O/C Mining (Slope Stability)
vi Scientist E-II	CIMFR, Dhanbad	05-10-2001	to 04-10-2006	O/C Mining (Slope Stability), I.T.Application in Mining & 3D Mine Surface Modeling
vii Sr. Pr. Scientist	CIMFR, Dhanbad	05-10-2006	to 04-10-2012	O/C Mining (Slope Stability), I.T.Application in Mining, 3D Mine Surface Modeling and Precise Excavation Volume Computation for mines.
Viii Scientist G	CIMFR, Dhanbad	05-10-2012	till date	O/C Mining (Slope Stability), 3D Mine Surface Modeling and Precise Excavation Volume Computation for mines.

6. Areas of specialization:

- (a) Underground Coal Mining and Rock Mechanics Application.
- (b) Opencast Mining (Slope Stability)
- (c) Mine Surface Modeling & Precise Excavation Volume Computation for mines.
- (d) Software Development and Application in Mines.

7. Honors/Awards received:

(a) I was offered J.C.Ghosh Memorial Scholarship in the final year for being the **BEST STUDENT (ACADEMICALLY)** in the Department of Mining Engineering, IIT, Kharagpur

(b) I received the honor of delivering invited lectures at Indian Institute of Coal Management (ICM), Ranchi on more than 10 occasions.

(c) I received the honour of delivering lecture as keynote speaker at BIT Sindri.

(d) I received the honor of being external examiner for university examinations.

8. Fellowships/Scholarships:

(a) Merit Scholarship during the year 1979 for securing securing 9th rank within list of top 10 students of science in the whole university.

(b) MCM Scholarship during 1981 to 1985 at Indian Institute of Technology (IIT) Kharagpur.

(c) I was offered J C Ghosh Memorial Scholarship for being the Best Student (Academically) in the Department of Mining Engineering, IIT Kharagpur.

9. No. of Research Publications:

- Papers in journals: 5
- In conference proceedings: 20
- Invited/key-note addresses: 12
- List of best 05 publications:

(i) "A computer model for optimal exploitation of thick coal seam under developed surface feature", J K Singh , A Kushwaha, V K Singh and Raghwendra Singh, Journal of Mining Research, Vol. 3, No.4, March 1995.

(ii) Optimisation of Productivity of Shovel-Dumper System in a Large Openpit Mine – A Case Study", J.K.Singh, V.K.Singh & Ajit Kumar, National Conference in Mining Engineering-Survival Codes for the Future, 1997, Calcutta

(iii) "Cuttability Assessment of Hard Coal Seams", R Singh, J K Singh, T N Singh and B B Dhar, Geotechnical and Geological Engineering, 1995, 13, 63-78.

(iv) "Investigation into Cutting Characteristics of Indian Coal Seams", T N Singh, R Singh and J K Singh, 11th International Conference on Ground Control in Mining, The University of Wollongong, N.S.W., July 1992

(v) "Surveying, 3D Mine Modeling and Excavation Volume Computation of a Hilly Mine.", J.K.Singh and M. Kumar, Journal of Mines, Metals and Fuels", 2009

10. Number of Books authored/edited: Nil

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

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

A large number of softwares developed and used successfully for solving real life problems of mining.

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12. **Foreign visits:** NIL

13. Details of Professional memberships: NIL

14 . Major contributions: (Max. 150 words)

(i) Computerised some of the routine computational activities of the department of slope stability.

(ii) Established IT Centre of CMRI and worked as Head (IT) during 2001-2004.

(iii) Developed the following software packages for the application in mines:

(a) SURVOL- A surveying and 3D mine modeling software package.

(b) MAPGEN – A mine map generation software package. It generates SVG (Scalable Vector Graphics) map for taking output on paper size up to A0 size large plotter.

(c) VRMine- A Virtual Reality Mine Modeling Package for developing 3D Mine Mode. It has been developed using Virtual Reality Modeling Language and has been used for 3D Visualisation of mine.

(d) JSPLLOT – Rock mass joint set data plotting system.

(e) BHPLLOT – A borehole information plotting software package.

15. **Technologies and Products/ Services**

(i) Developed: 5 software packages developed as mentioned above.

(ii) Licensed: NIL

(iii) Commercialized: NIL

16. Designs and Prototype Developed: NIL

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

NIL



Signature