

## Brief Bio-data

1. Name: Ajit Kumar

2. Date of Birth: 01-11-1962

3. Current Position and Address (Include Email ID and Contact Number):

Chief Scientist

Slope Stabilisation and Landslide Management Division, CSIR-CIMFR, Barwa Road Campus, Dhanbad-826015 (Jharkhand)

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4. Educational qualifications: (Graduation and above)

S. No.	Degree	Year of Passing	University/Institute	Subject
1.	Bachelor in Engineering (B. E.)	1987	BIT, Mesra, Ranchi	Civil Engineering
2.	Master in Engineering (M. E.)	2006	BIT, Mesra, Ranchi	Soil Mechanics & Foundation Engineering

5. Work experience:

Designation	Institute/company	From	To	Nature of Work
Assistant Engineer	Sulabh International, Lucknow	07/02/1990	29/10/1990	Civil Engineering
Scientist B	CSIR-CIMFR, Dhanbad	30/10/1990	29/10/1995	Opencast mining (Slope Stability)
Scientist C	CSIR-CIMFR, Dhanbad	30/10/1995	29/10/2000	Opencast mining (Slope Stability)
Scientist E1	CSIR-CIMFR, Dhanbad	30/10/2000	29/10/2005	Opencast mining (Slope Stability)
Principal Scientist	CSIR-CIMFR, Dhanbad	30/10/2005	29/10/2011	Opencast mining (Slope Stability)
Senior Principal Scientist	CSIR-CIMFR, Dhanbad	30/10/2011	29/10/2018	Opencast mining (Slope Stability)
Chief Scientist	CSIR-CIMFR, Dhanbad	30/10/2018	Continue	Slope Stabilisation and Landslide Management

6. Work Area(s)/Specialization: Slope stability of open-pit mines, geotechnical investigations and sub-soil exploration, testing of bricks, cement, bitumen, coarse and fine aggregates.

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

Research and Development work has been done in the area of slope design and slope monitoring for various opencast coal and metal mines. Technical papers have been published based on the R&D work carried out. Some innovative R&D design work has also been started for mixing of fly ash with External and Internal OB dumps.

Enormous efforts & technical inputs have been provided by me to enable the opencast mines to run economically and safely. I have also contributed significantly for the civil engineering services and technical support required by private, public and government agencies and also within CIMFR, Dhanbad.

8. No. of Research Publications:

- Papers in Journals: 04
- In conference proceedings: 18

- Invited lectures delivered: Nil
- List of best 05 publications:

Sl. No	Authors	Title of the Article	Year of Pubn	Name of Journal	Vol No. Issue, Pages	Publisher
1.	Ajit Kumar and J K Singh	Recent Innovations in Slope Stabilization Technology	July 2016	The Indian Mining & Engineering Journal.	Vol. 55, No. 7, 17-23	The IME Publications ISSN No. 0019-5944
2.	Ajit Kumar, J K Singh, V K Singh and Ajay Khalkho	Suitability of existing floor of an underground mine for transportation route of continuous miner: A case study.	April-June, 2017	International conference on "NexGen Technologies for Mining and Fuel Industries" Organized by CSIR-CIMFR Dhanbad.	15-17 February, 2017, Vigyan Bhawan, New Delhi, India	Allied Publishers Pvt. Ltd., New Delhi
3.	Ajit Kumar, Jagdish and V K Singh	Special blasting technique for improving slope stability - a review.	16-18 Oct. 1997.	National seminar on Emerging technology in surface mining and environmental challenges.	16-18 Oct. 1997, pp.170-173.	Organised by Institution of Engineers (India), Mangalore, India, edited Prof. V R Sastry
4.	Ajit Kumar, J. K. Singh, S. K. Roy, Ritesh Kumar, K. Varwade and P. Kumar	Enhancement of stability of overburden dumps using fly ash- A Review.	Feb. 14-15, 2020.	National Conf. on "Advances in Mining".	Feb. 14-15, 2020.	CSIR-CIMFR, Dhanbad and IE, India, Dhanbad
5.	Ajit Kumar and J. K. Singh	Recent innovations in slope stabilization technology	25-26 July, 2015.	All India seminar on Slope stability issues in open cast mining and civil engineering.	NIT, Rourkela, Odisha	NIT, Rourkela, Odisha and IM&EJ, Bhubaneswar

- Books/Chapters authored/edited : Nil

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

- Advice for optimum slope design of pits and dumps at Noamundi Iron mine, Katamati Iron mine, Joda East Iron mine and Khonband iron ore mine, Noamundi, Jharkhand, Tata Steel; A. Kumar, V.K. Singh, J. K. Singh, R. K. Singh, S. K. Roy, M. Kumar, U. K. Thakur and B. L. Sharma, CNP/4744/2018-19, Project cost: Rs. 70,21,000/- As a Project Leader.
- Slope monitoring studies at Donimalai Iron ore mines (DIOM) and Kumaraswamy Iron ore mine (KIOM) of NMDC Ltd. Bellary, Karnataka. V.K. Singh, J. K. Singh, A. Kumar, S.K. Roy, R.K.Singh, M.Kumar, U.K.Thakur and B.L. Sharma, SSP/195/2017-18 Project cost Rs.40,50,000/-, as a project coordinator.

3. Scientific study for stability of pit and dump at Sukinda mines (Chromite) of IMFA, Orissa. V.K. Singh, J. K. Singh, A. Kumar, S.K. Roy, R.K.Singh, M.Kumar, U.K.Thakur and B.L. Sharma. SSP/373/2019-20, Project cost Rs.16,58,451/- As a Project Leader.
4. Scientific study of pit and dump slope stability along with identification of causes, circumstances on recent slope failure, wide crack development and recommendation on safe operation at Govindpur Ph II OCP, Kathara Area, CCL. J. K. Singh, S.K.Roy, A. Kumar, Kartik Varwade, R.K.Singh, M.Kumar, Prince Kumar and Swapan Mahato. SSP/548/2020-21, Project cost Rs.28,00,000/-, as a project Leader.
5. Advice on Suitability of Construction Materials for Three Irrigation Schemes (Khudia, Birmati, Jamunia) in Jharkhand, , J. K. Singh, S K Roy, A. Kumar, Kartik Warwade, R. K. Singh, M. Kumar, Prince Kumar, Ritesh Kumar, B L Sharma and Swapan Mahato, CNP/4922/19-20, Project Cost Rs. 25,44,080/-, as a project Leader.

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:

12. Societal Contributions

1. Optimum design of pit and dump slope of various mines through scientific study for long term stability with regard to safety and increasing production capacity.
2. Third party technical supervision and evaluations of the school buildings of Government of Jharkhand was done which improved the quality of the buildings for the year 2009-10 and 2010-2011 for Dhanbad, Bokaro, Deoghar and Godda districts of Jharkhand.