

Brief Bio-data

1. Name: PRINCE KUMAR

2. Date of Birth: 05/01/1992

3. Current Position: Technical Assistant.

Address: CSIR-CIMFR ,Barwa Road Dhanbad.

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4. Educational qualifications:

Sl. No.	Degree	Year of Passing	University/Institute	Subject
1	Diploma in Civil	2015	Buddha Institute of Technology	Surveying, Soil Mechanics, Civil Engg. Drawing, Professional Math, Environmental Engg.etc.

5. Work experience:

Designation	Institute/company	From	To	Nature of Work
Technical Assistant	CSIR-CIMFR, Dhanbad.	02/08/2019	Till date	Open cast mining (Slope Stability)

6. Work Area(s)/ Specialization:

R & D work on pit and dump slope stability of open cast mines and slope monitoring of pit and dump for the safety of workers and machines.

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

The input data generated has helped in optimum slope design of a number of mine and dump slope of (BCCL, CCL, OMC and TATA steel, IMFA, FACOR, NMDC, GIPCL,RSMML)etc.The slope monitoring has helped to detect the mine for the safety of the men and machinery for the companies such as west bokaro collieries of tata steel, Jharia mine of basta colliery area, Religara Colliery, Central Coal Field, Limited, Argada area, kaliapani chromite mine odhisha mining coporation Ltd. Some innovative R&D design work has also been started for mixing of fly ash with external and internal OB dumps. Research work has also been done for dewatering of fly ash slurry for disposal of dewater ash in Overburden dump using geo textile tubes.

8. No. of Research Publications:

- Papers in Journals: Nil
- In conference proceedings: Nil
- Invited lectures delivered: Nil
- List of best 05 publications: Nil
- Books/Chapters authored/edited: Nil

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

1. Scientific study and Advice there on for the design of Bansdeopur opencast Mine, Sijua Area BCCL, Dhanbad. J.K. Singh, S.K. Roy, A. Kumar, Kartik Varwade, R.K. Kumar, M.Kumar, P.Kumar, Swapan Mahato.
2. Advice on pit slope and high wall slope stability of QAB and QSE quarries of west bokaro collieries of tata steel. J.K. Singh, S.K. Roy, A. Kumar, Kartik Varwade, R.K. Kumar, M.Kumar, P.Kumar, Swapan Mahato.
3. Scientific study for slope stability, Ultimate Pit Slope Design and Dump Design and advice thereon for ROCP/5, Jharia mine of basta colliery area IX, BCCL. J.K. Singh, S.K. Roy, A. Kumar, Kartik Varwade, R.K. Kumar, M.Kumar, P.Kumar, Swapan Mahato.
4. Scientific study for pit slope stability and advice thereon for Religara Colliery, Central Coal Field, Limited, Argada area, CCL. J.K. Singh, S.K. Roy, A. Kumar, Kartik Varwade, R.K. Kumar, M.Kumar, P.Kumar, Swapan Mahato.
5. Optimal design and stability analysis of overburden dump at south kaliapani chromite mine and advice thereon for odhisha mining coporation Ltd. J.K. Singh, S.K. Roy, A. Kumar, Kartik Varwade, R.K. Kumar, M.Kumar, P.Kumar, Swapan Mahato.

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:

I. Life member, Vigyan Bharti

12. Societal Contributions

1. Optimum slope design and slope safety monitoring for saving the life of men And machinery in surface mines. Workers feel more safe through scientific Mining monitoring.
2. Worked for Vigyan Bharti for the uplifting of scientific temperament of society.
3. Cost of electricity generation for the use society has decreased due to the work done by us in coal quality sampling, analysis and monitoring at different organisation such SECL.