

## Brief Bio-data

1. Name: Pramod Kumar

2. Date of Birth: 03.10.1971

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

Senior Technical Officer (1)

Rockmass Characterisation and Innovative Mining Methods Section  
CSIR-CIMFR Dhanbad, Jharkhand-826015.

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4. Educational qualifications: (Graduation and above)

| Sl. No. | Degree            | Year of Passing | University/Institute | Subject            |
|---------|-------------------|-----------------|----------------------|--------------------|
| 1       | B.Sc. Engineering | 2002            | BIT Sindri, Dhanbad  | Mining Engineering |
| 2       | M.Tech.           | 2005            | IIT (ISM) Dhanbad    | Mining Engineering |

5. Work experience:

| Designation                  | Institute/company  | From        | To          | Nature of Work           |
|------------------------------|--------------------|-------------|-------------|--------------------------|
| Group III(1) [JSA]           | CSIR-CIMFR Dhanbad | April, 1999 | April, 2004 | Research and Development |
| Group III(2) [SSA]           | CSIR-CIMFR Dhanbad | April, 2004 | April, 2007 |                          |
| Technical Officer            | CSIR-CIMFR Dhanbad | April, 2007 | April, 2012 |                          |
| Senior Technical Officer (1) | CSIR-CIMFR Dhanbad | April, 2012 | Till date   |                          |

6. Work Area(s)/ Specialization:

- Roof rock characterisation to classify the mine roof rock in different categories.
- Design the suitable support system for underground mines in different geo-mining conditions to strengthen the mine roof.
- Instrumentation and monitoring in underground mines to assess the strata behavior for stability analysis of mine roadways.

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

- Studies have been carried out in 68 underground mines of SECL and guide lines have been formulated for suitable support system for the mine openings.
- Studies have been carried out for the elimination of goaf edge support and design of suitable bolting pattern in four underground mines of RG 1 area, SCCL.
- Design of support system for underground coal mine roadways in different geo-mining conditions have been formulated in number of mines and results have been implemented to enhance the safety and productivity of mines.

8. No. of Research Publications:

- Papers in Journals: 02
- In conference proceedings: 06
- Invited lectures delivered:

- Books/Chapters authored/edited
  - List of best 05 publications
- (i) Kumar N, Paul A, Kumar Pramod, Singh Ajoy Kr., & Sinha A, "Rock –reinforcement by Resin Bolting for Mass Production Technology in Indian Coal Mines", Proceeding of the International Symposium on Rock Mechanics & Geo-environment in Mining & Allied Industries held at BHU, February 12-14, 2009, pp. 342-349
  - (ii) Paul A, Singh Ajoy Kr., Kumar N & Kumar Pramod, "Empirical Approach for Application of CMRI- RMR in Depillaring Panels of Board and Pillar Mining in Indian Coal Mines", International Journal of Earth Science and Engineering, February 2011, Vol.4, No.1, pp. 65-72.
  - (iii) Kumar N, Kumar Pramod & Singh Ajoy Kumar, "CMRI-ISM RMR System- An Experience of More Than Two Decades", International Conference on Coal and Energy –Technological Advances and Future Challenges (CETAFC 2013) held at Kolkata, December 15-17, 2013, pp. 131-138.
  - (iv) Kumar R , Banerjee G, Kumar N & Kumar Pramod, "Reliability Analysis of Roof Support Designs in Deep Underground Coal Mines", International Conference on NexGen Technologies for Mining and Fuel Industries ( NxGnMiFu-2017), held at Vigyan Bhawan , New Delhi, February 15-17,2017, pp. 1461-1468.
  - (v) Paul A, Kumar N, Kumar Pramod & Singh A. K. , "Application of CMRI-ISM RMR for Stability Analysis of Development Workings for Ballarpur Underground Coal Mine- An Empirical and Numerical Approach" Journal of Geological Society of India, Vol.96, August 2020, pp.163-170.
9. List of 5 Major Contract R&D Projects:
- (i) S&T project entitled "Insitu stress measurement in underground coal mines and its application to stability analysis".
  - (ii) Network Project entitled "Development of suitable design methodology for extraction of coal at greater depths (>300m) for Indian geo-mining conditions".
  - (iii) Monitoring of strata behavior of supported roof for development workings at Siyal Ghogri Mine Chhindwara, M.P.
  - (iv) Advice on evaluation of RMR and design of support system along with suitable method of work in LK II seam of Jamuna ½ incline and MK seam of Jamuna 5/6, Jamuna UGRO sub Area, SECL.
  - (v) Advice on design of support system for two inclines of Bicharpur underground mines at Shahdol, GCPL, M.P.
10. (a) Name of Patents/Copyrights applied /granted/commercialized: -  
 (b) Technologies/Products /knowhow/Services developed: -
11. Honors/Awards/Recognitions/Fellowships/Scholarships/Professional Memberships received: -
12. Societal Contributions:
- (i) During the pandemic COVID-19, I actively participated in helping the needy people in and around Dhanbad Township.
  - (ii) R&D output indirectly related to development of skilled workmen, uplift the financial condition, fulfillment of basic needs like hospital, education, better society and providing better standard of living.