

Brief Bio-data

1. **Name:** Banti Kumar Dhar

2. **Date of Birth:** 04/05/1994

3. **Current Position and Address:** Technical Assistant
CSIR-Central Institute of Mining and Fuel Research
Nagpur Research Centre, 17/C, Telenkhedi
Area, Civil Lines, Nagpur, Maharashtra- 440001
(Email-banti863@gmail.com/bantidhar@cimfr.nic.in)
(Contact No.-7979723141)

4. **Educational qualifications: (Graduation and above)**

Sl. No.	Degree	Year of Passing	University/Institute	Subject
1	Diploma (Civil Engg.)	2014	Government Polytechnic Ranchi	-

5. **Work experience:**

Designation	Institute/company	From	To	Nature of Work
Technical Assistant	CSIR-CIMFR	13/08/2019	Till Date	R&D - Rock Mechanics & Rock Excavation

6. **Work Area(s)/ Specialization:**

Rock Mechanics & Rock Excavation- Open cast and underground controlled blasting, Vibration monitoring, Mitigation of flyrock, Optimisation of blast design, Bench blasting, Pre-split blasting, Fragmentation analysis, Support design system, Non-destructive testing of rock samples, etc.

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

- Successfully executed the scientific field work and data collection work for impact of TBM induced vibrations on mudflats and changes in the characteristics of mudflats at the tunnel alignment of National High Speed Rail Corporation Limited, Mumbai (Bullet Train).
- Monitoring of controlled blasting, flyrock and blast induced ground vibration for excavations of underground sections at Mumbai metro and Bangalore metro rail corporation limited.
- Conducted investigation and data collection & Monitoring of controlled blast design for construction of access twin tunnel of Nagpur- Mumbai super communication expressway, Samruddhi Mahamarg, Igatpuri, Nashik, Maharashtra. It is the longest and widest road tunnel of Maharashtra.

B.K. Dhar
27/08/2021

8. No. of Research Publications:

- Papers in Journals: Nil
- In conference proceedings: 01
- Invited lectures delivered: Nil
- List of best 05 publications:
 - i. *Electronic Delay Initiation System: A Game changer To Enhance Blasting Safety and Productivity in Opencast mines*. National Seminar on "Recent Practices and Advancement in Mineral Industry (RPAMI)", (2020), Page No. 407- 419. Ramulu M, **Dhar B K**, Rahman A and Choudhury P B.
- Books/Chapters authored/edited: Nil

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

- i. Studies on design and construction of underground sections including three underground stations at SCP, SHC, SCG and associated work at Mumbai metro rail project, UGC-1, phase-III, Maharashtra.
- ii. Studies on controlled of blasting pattern, execution & monitoring of blasting activities at barrage and underground tunnel work of Rammam hydel power project, Darjeeling, W.B.
- iii. Scientific study on controlled blast design and monitoring for construction of access controlled Nagpur- Mumbai super communication expressway, Samruddhi Mahamarg, Maharashtra.
- iv. Scientific study for controlled blast design and blast vibration monitoring at L&T work sites of Bangalore metro rail project phase 2, pckg RT-02, Karnataka.
- v. Scientific study on vibration monitoring and design of safe charge pattern at Parackal granite stone quarry Ernakulam, Kerala.

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: Nil

12. Societal Contributions:

Technical support rendered in projects of National importance such as : Mumbai-Ahmedabad Bullet train project, Mumbai Metro & Bangalore Metro projects, Mumbai-Nagpur Samruddhi Mahamarg project, (Mining, Railways and Hydro electric Projects).

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