

## BRIEF BIODATA

1. Name : **SAIKAT BANERJEE**  
2. Date of birth : 05<sup>th</sup> September 1992  
3. Current Position and Address : Technical Assistant  
Rock Excavation Engineering Division  
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4. Educational Qualifications :

Sl. No.	Degree/Certificate	Year of Passing	University/Institute	Subjects
I	Degree in Mining Engineering (AMIE)	2019	Institution of Engineers (India)	Exploitation of mineral deposits, Geomechanics, Mine management and Legislation, Mine ventilation, Engineering Management
III	Diploma in Mining Engineering	2016	State Board of Technical Education Ranchi	Mining, Surveying, Rock Mechanics, Geology

5. Work Experience :

Sl. No.	Designation	Institution/Company	From	To	Nature of Work
1	Technical Assistant	CSIR-CIMFR	2019	Till Date	R&D assistance in the field of Rock Blasting in mining, civil construction projects and Projects of strategic sectors in different parts of the country

6. Work Area(s)/specialization : Controlled Blasting in Mines, Quarries, Road Construction, Civil Construction Projects, Projects of Strategic sectors and Demolition Blasting

7. Major Contributions :

- I. Controlled blasting for widening of roads in the strategically important border areas in different parts of country.
- II. Controlled demolition of Rail-Over-Bridges (ROBs) of Eastern Railways between Pirpainti and Bhagalpur in Bihar within limited time duration.
- III. Team Member of 24 Consultancy & Sponsored Projects of the REE Division of CSIR-CIMFR, Dhanbad.

8. No. of Research Publications : 03
- Papers in Journals : 02
  - Papers in Conference proceedings : 01
  - Invited Lectures : -
  - Books/Chapters authored/edited : -
  - List of best 05 Publications :

1. C. Sawmliana, P. Hembram, R. K. Singh, S. Banerjee, P. K. Singh and P. Pal Roy: An investigation to assess the cause of accident due to flyrock in an opencast coal mine: A case study, Journal of Institution of Engineers India-Series D, Springer Publications.
  2. S. Banerjee, C. Sawmliana, R. K. Singh, P. Hembram, and P. K. Singh: Study of Trend of Explosives in Indian Mining Industry and the Future Challenges, Minetech Journal, Vol-42 (2021)
  3. P. Hembram, C. Sawmliana, R. K. Singh, S. Banerjee and P. K. Singh: Assessment of controlled blast design parameters in a stone quarry to safeguard the structures of nearby village - a case study, Procs. of National Conference on "Advances in Mining (AIM-2020)", CSIR-CIMFR, Dhanbad, February 14-15, 2020, pp 167-179.
9. List of 5 Major Contract R&D Projects :
- (i) Advice for controlled demolition of one arch-bridges (ROB) at different locations between Pirpainti and Bhagalpur section of Eastern Railways
  - (ii) Study and advice for optimisation of blast design parameters for flattening of southern portion of Ulwe Hill and as a part of the land development works for construction of Navi Mumbai International Airport (NMIA)
  - (iii) Investigation for trial blasts for establishing optimum blast design parameters and monitoring of ground vibration, noise/air overpressure, flyrock generated due to blasting for site levelling of 2 x 660 MW STPP Khargone Project of NTPC, Madhya Pradesh
  - (iv) Advice for designing of safe and efficient blast design patterns for rock excavation works of different strategic roads of Border Roads Organisation,
  - (v) Excavation and flattening of slopes at Bordave, Ukshi Yard, Agave and Shirsawane cuttings using controlled blasting under the jurisdiction of DGM/SW/RN in Ratnagiri Region,(Konkan Railway)
10. (a) Name of Patents/Copyrights applied/granted/commercialized : Nil  
 (b) Technologies/Products/knowhow/Services developed : Nil
11. Honours/Awards/Recognitions/Fellowships/Scholarships/Professional Memberships received :  
 Letter of appreciation from ADG BRO.  
 Professional Membership of Institution of Engineers (India): AMIE
12. Societal Contributions: Contribution in the various controlled blasting works for widening of roads in hilly terrain and demolition of old and dangerous ROBs of Eastern Railways for enhancement of existing single track into electrified double track which opens the path for new developments and opportunities. Developments of roads in border areas through control blasting for accelerating and enhancing overall security of the country. The controlled blasting for land development work for construction of a new international airport in Navi Mumbai will benefit a large number of people as the existing Mumbai Airport has become highly congested for start of new air services within the country and other parts of the world.