



1. Name : Dr. MURARI PRASAD ROY
2. Date of Birth : 31st December, 1973
3. Current position & Address : Principal Scientist, Blasting Department
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4. Educational Qualifications:

S. No.	Degree	College/University/Institute	Year	Remarks
1.	Ph.D. (Mining)	Indian School of Mines (ISM), Dhanbad	2013	Ph.D. Topic "Investigations into the effect of delay time, total charge and effective weight of explosives per delay on blast induced ground vibration"
2.	M.Tech. (Mine Planning & Design)	Indian School of Mines (ISM), Dhanbad	1998	First class with distinction
3.	B.Sc. Engineering (Mining)	Bihar Institute of Technology (BIT), Sindri	1996	First class with distinction

5. Work Experience:

Designation	Institution/company	From	To	Nature of work
Gr.IV (1) Scientist B	Central Mining Research Institute, Dhanbad	10.12.2001	10.12.2004	R&D in Rock blasting
Gr.IV (2) Scientist C	Central Institute of Mining & Fuel Research, Dhanbad	11.12.2004	10.12.2008	R&D in Rock blasting
Gr.IV (3) Senior Scientist	CSIR-Central Institute of Mining & Fuel Research, Dhanbad	11.12.2008	10.12.2012	R&D in Rock blasting
Gr.IV (4) Principal Scientist	CSIR-Central Institute of Mining & Fuel Research, Dhanbad	11.12.2012	Till date	R&D in Rock blasting

6. Area of Specilisation: Rock Blasting

7. Honors/Awards received: Nil

8. Felloship/Scholarship: Recipient of Rural Scholarship during the year 1984-1987.

9. No. of Research Publication:

(i) Technical papers: International Journal	-	17	} 64
International conference	-	32	
National Journal	-	6	
National conference	-	9	
(ii) S & T Reports	-	7	
(iii) Technical reports	-	205	

10. No. of books authored/edited:

11. (a) No. of Patents granted/applied for:

(b) Technologies developed, licensed and/or commercialized:

12. Foreign visits:

(i) Visited Orlando, Florida, USA during February 6-9, 2005 to present the scientific paper entitled "Low frequency long duration blast vibrations and their effect on residential structures" at 31st Annual Conference on Explosives and Blasting Technique, organised by the International Society of Explosives Engineers, USA.

(ii) Deputed to Budapest, Hungary during April 26-28, 2009 to present papers "Impact of blast design parameters on rock fragmentation and muck profile- a case study pp 47-55 at 5th EFEE World Conference on Explosives and Blasting.

13. Details of Professional Memberships:

Life time member of The Mining, Geological & Metallurgical Institute of India

14. Major contributions:

I have published guidelines on controlled blasting, wall control, cast blasting and optimum utilization of explosive energy in fragmentation as well as structural response of various types of structures to blast-induced vibrations by opencast as well as underground blasting which have helped enable the mining industry to exploit the mineral with improved efficiency. It has also helped in excavation of minerals in close proximity of the inhabitant areas without any adverse effects on the human beings and environment. The recommendations have controlled the unreceptive effects of rock blasting and no damage to the environment. The significant ECF has been generated for CSIR-CIMFR by rendering the specialized scientific services to the mining and allied industries. Contributed in making DGMS (Tech)(S&T) Circular No. 06 of 2007 based on the study S&T reports titled "Damage of below ground structures due to blast induced vibration in nearby opencast mines". Presently, 24 mines are operational and producing coal which helps to meet the energy demand of the country and provide employment while ensuring safe mine environment.

I am a reviewer of International Journal of Rock Mechanics and Mining Sciences (IJRMMS), ASCE Journal of Geotechnical and Geo-environmental Engineering and Fragblast 10 International Conference.

15. Technologies and Products/Services:

16. Designs and Prototype developed:

17. Honours and awards won for technological contributions or sociological impact of R&D: -nil-

Signature