

1. Name : **RAKESH KUMAR SINGH**
2. Date of birth : **20th January 1975**
3. Current Position and Address : Senior Technical Officer (1)
(with E-mail & Phone No.) Blasting Department
CSIR-CIMFR, Dhanbad
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4. Educational Qualifications :



Sl. No.	Degree/Certificate	Year of Passing	University/Institute	Subjects
I	M. Sc. (Disaster Mitigation)	2011	Sikkim Manipal University, Gangtok, Sikkim	Disaster planning, control and mitigation
II	B. Sc.	2007	Indira Gandhi National Open University, New Delhi	Physics, Chemistry, Math and English
III	Diploma in Mining & Mine Surveying	1996	Board of Technical Education, Mumbai	Mining, Surveying

5. Work Experience :

Sl. No.	Designation	Institution/ Company	From	To	Nature of Work
I	Junior Technical Assistant	CSIR-CIMFR (erstwhile CMRI)	1999	2004	R&D assistance in the field of Rock
II	Senior Technical Assistant	CSIR-CIMFR (erstwhile CMRI)	2004	2009	Blasting Research in mining, civil
III	Technical Officer	CSIR-CIMFR	2009	2012	construction and hydroelectric
IV	Senior Technical Officer (1)	CSIR-CIMFR	2012	Till Date	projects of the Institute

6. Area of specialization : Controlled Blasting in Mines & Quarries, Road Construction, Civil Construction and Hydroelectric Projects, Demolition Blasting
7. Honours/Awards received : Few letters of appreciation from various Mining Industries, Govt. of Mizoram, Eastern Railway, CSIR etc.
8. Fellowships/Scholarships : Nil
9. No. of Research Publications : 42
- Papers in Journals : 21
 - Papers in Conference proceedings : 21
 - Invited Lecture : -

➤ List of best 05 Publications :

- (i) **Rakesh K Singh**, Chhangte Sawmliana and Pijush Pal Roy. Blast-induced Ground Vibration Damage Assessment for Foundation Work at a Thermal Power Project in India" *Journal Noise & Vibration Worldwide*; Jun 2012, Vol. 43, No. 6, UK, pp. 28-36.
- (ii) **R. K. Singh**, C. Sawmliana and P. Pal Roy. Environmental impact of blast-emitted noise and air overpressure: prediction and control measures. *CIM Bulletin, Canada*, Vol. 2, No. 3, May 2007.
- (iii) **Rakesh K. Singh**, Chhangte Sawmliana, Pijush Pal Roy and Rahul Dasgupta. Environmental impact of detonation of explosives in seismic survey operations. *Noise & Vibration Worldwide*, April 2007, Vol. 38, No. 4 pp. 19-26.
- (iv) **R. K. Singh**, C. Sawmliana and P. Pal Roy. Controlled blasting near water reservoirs. *Mining Engineers Journal (a publication of Mining Engineers' Association of India)*, India, Vol. 9, No. 12, July 2008, pp. 9-13.
- (v) **R. K. Singh**, C. Sawmliana, P. Pal Roy and M. S. Bhoomraddi. Safety and stability of residential houses due to blast impacts in the vicinity of a stone quarry – a case study. *Minetech*, Vol. 26, No.2, 2005, March-April, pp 16-22.

10. No. of Books authored/edited : Nil
11. (a) No. of patents granted/applied for : Nil
- (b) Technologies developed, licensed and /or commercialized : Nil
12. Foreign visits : Nil
13. Details of Professional Membership : Nil
14. Major Contributions (Max. 150 words) :
- I. Controlled blasting using bamboo spacers in the ecologically fragile hilly areas of Mizoram for the widening of Aizawl-Thenzawl-Lunglei World Bank Funded road construction project.
 - II. Controlled demolition of coffer walls using explosive and blasting at Teesta Low Dam Hydroelectric Project, Stages – III & IV of NHPC Limited, Dist. Darjeeling, West Bengal.
 - III. Controlled demolition of Rail-Over-Bridges (ROBs) Nos. 111 & 123 of Eastern Railways using explosive and blasting at Kahalgau, Bhagalpur Dist., Bihar.
 - IV. Support to the Team Members of the CSIR-CIMFR Group which received CSIR Technology Award 2011 for Highwall Mining and its first time implementation in the country.
 - V. Team Member of 5 S&T Projects, 160 Consultancy Projects and 2 Sponsored Projects of the Blasting Department of CSIR-CIMFR.
15. Technologies and Products/services :
- i. Developed : Nil
 - ii. Licensed : Nil
 - iii. Commercialized : Nil

16. Designs and Prototype Developed : Fabricated ground vibration measurement attachments for roof of the underground coal mine for monitoring of ground vibration induced by blasting in underground mines as well as in opencast workings.
17. Honours and awards won for technological contributions or sociological impact of R&D : Nil

Dt. 04-03-2016



Signature
(Rakesh Kumar Singh)
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