

## PERSONAL INFORMATION

Name and Designation: **PRAKASH DHEKNE; Associate Professor**

Address for Correspondence: DEPTT OF MINING ENGINEERING, NIT, RAIPUR.

Contact Details: *E-mail* [pdhekne@nitrr.ac.in](mailto:pdhekne@nitrr.ac.in); *cell #* 9669400678

## PARTICULARS OF EDUCATIONAL QUALIFICATIONS

Sl. No.	Degree Obtained & Branch / Specialization	Name of the University/Institute
1	<b>B. E. (MINING)</b>	NAGPUR UNIVERSITY
2	<b>M. TECH ( MINE PLANNING AND DESIGN)</b>	ISM, DHANBAD
3	<b>Ph. D</b>	NIT, RAIPUR

## PARTICULARS OF EXPERIENCE

Sl. No.	Name of the organization	Designation	Date of Joining	Date of leaving
1	<b>NIT, RAIPUR</b>	ASSO. PROF	01-12-2005	NA
2	<b>GEC RAIPUR</b>	READER	19-02-1994	30-11-2005
3	<b>MANGANESE ORE (INDIA) LTD.</b>	MINING ENGINEER	03-08-1987	17-02-1994

**SOFTWARE SKILLS: JK Simblast; Wipfrag; Flac-2D; Mat LAB and Pattern Analyser**

## LIST OF PUBLICATIONS

S. No.	Papers in Referred Journals
1	Rock Fragmentation due to Blasting-Some Alien Issues, Mining Engineering Journal, Vol10, No 6, pp10-14, 2009.
2	Explosive Energy Distribution in Rock Blasting”, The Indian Mining & Engineering Journal Vol 47, No 06, pp 9-18, 2008.
3	FRAGPRED: An Automated Solution for Rock Fragmentation Prediction” The Indian Mining & Engineering Journal Vol 46, No 01, pp 20-24, 2007.
4	Assessment of Excavation Method Using RMR Classification” The Indian Mining & Engineering Journal Vol 44, No 11, pp 25-27, 2005.
5	Estimation of Safe Peak Particle Velocity in the Vicinity of Blasting Site Near an Earthen Dam” Mining Engineering Journal, Vol 06, No04, pp23-28, 2004
6	Application of Controlled Blasting for Drifting” The Indian Mining & Engineering Journal Vol 43, No 08, pp 22-26, 2004.

7	Explosive Energy Distribution in Rock Blasting”, The Indian Mining & Engineering Journal Vol 47, No 06, pp 9-18, 2008.
8	Effect of the Type and Quantity of Refrigerant on the Performance of Air-Cooling Machine; CSVTU Research Journal, CSVTU, Bhilai, Dec. 2009.
9	Some Guiding Principles to Improve Performance of Bulk Emulsion Explosive
10	Assessment of the Effect of Blast-hole Diameter on the Number of Oversize Boulders using ANN model, Journal of Institution of Engineers, Series ‘D’, DOI, 10.1007/s40033-015-0083-7
11	Assessment of Performance of Explosives by Estimating the Number of Oversize Boulders using ANN Model, The Indian Mining & Engineering Journal Vol 53, No 10, pp 8-13, 2014.

S. No.	Papers in Conference
<b>International Conference</b>	
1	Effect of the Condenser Design on the performance of Air-Cooling Machine; Mine Planning and Equipment Selection, 2011; Almaty; Kazakhstan; Nov. 2011
2	Artificial Intelligence and Prediction of Optimum Rock Fragmentation; Mine Planning and Equipment Selection, 2013; Dresden; Germany; Nov. 2013.
3	Environmental Impacts of Rock Blasting and their Mitigation; ISEAT, Dubai, Jan 2014
<b>National Conference</b>	
1	Role of Rock Mass Classifications in Site-Characterization; ETC-ID 2008; Feb. 2015 15-16; 2008, Raipur
2	VoD- An Important Parameter for Selection of Explosive; RockEx’05, Jan 8-9, 2005, Nagpur.
3	Blast-Practice <i>vis-à-vis</i> Rock Fragmentation: A Case Study of Limestone Quarries in Raipur District, National seminar on Explosives and Blasting Techniques for Mining, Quarrying and Industry, Jan 11, Bhubaneswar
4	Analysis of VoD-Diameter Data for bulk Emulsion Explosive; MineTech, 2010, Bhubaneswar
5	Fragmentation Assessment Models; An Overview; MRACSB15-2014; NIT, Rourkela, Nov 2014.

**DETAILS OF TESTING AND CONSULTANCY SERVICES OFFERED**

S. No	Organization	Title of project	Amount of grant	Period	Role
1.	Jamul Cement Works Limestone Mine, A.C.C. Ltd.,	A Report On Scientific Study For SME Trial Blasts And Ground Vibration Monitoring at Jamul Cement Works Limestone Mine	399000=00	2015-16	Investigator
2.	Lafarge India Pvt. Ltd., Arasmeta Cement Plant, Gopalnagar, C.G.	Optimization of blast design parameters at Kirari Limestone mine and ground vibration monitoring	337080=00	2015-16	Investigator
3.	Chhatisgarh Mineral Development Corporation, Raipur	Assessment of Strength Properties of Coal Measuring Rocks,	301671=00	2011-12	Investigator
4.	M/S KSK Mahanadi Power Company Ltd, Akaltara	Monitoring of Blast Practice and Controlled Blast Designing for the Construction of KSK Mahanadi Power Plant, , 2010-11	220600=00	2010-11	Investigator
5.	Century Cement limestone mine, Baikunth	Establishment of Ground vibration predictor Equation	110300=00	2010-11	Investigator
6.	Century Limestone Mine, Baikunth	Establishment of Ground Vibration Predictor Equation	110300=00	2010-11	Investigator
7.	M/S Fatehpur East Coal Company, Raipur	Assessment of Strength Properties and Elastic Behavior of Coal Measuring Rocks	179238=00	2009-10	Investigator
8.	M/S Shreeram Gemicom Pvt Ltd., Bilaspur	Assessment of Strength Properties and Elastic Behavior of Coal Measuring Rocks	190819=00	2010-11	Investigator
9.	M/S Shreeram Gemicom Pvt Ltd., Bilaspur	Assessment of Strength Properties and Elastic Behavior of Coal Measuring Rocks	161590=00	2010-11	Investigator
10.	M/S Shreeram Gemicom Pvt Ltd., Bilaspur	Assessment of Strength Properties and Elastic Behavior of Coal Measuring Rocks	160487=00	2010-11	Investigator
11.	M/S Sharda Minerals, Kawardhi OCP	Assessment of Strength Properties and Elastic Behavior of Coal Measuring Rocks	121330=00	2008-09	Investigator

12.	M/S Soth Eastern Coalfields Ltd., Rajendra Sub Area, Sohagpur	Assessment of Strength Properties of Coal Measuring Rocks	111955=00	2009-10	Investigator
13	Century Cement Limestone Mine, Baikunth	Establishment Of Ground Vibration Predictor Equation	224720=00	2014-15	Investigator
14	Chhatisgarh Mineral Development Corporation, Raipur	Assessment of Strength Properties of Coal Measuring Rocks,	301671=00	2011-12	Investigator
15	M/S KSK Mahanadi Power Company Ltd, Akaltara	Monitoring of Blast Practice and Controlled Blast Designing for the Construction of KSK Mahanadi Power Plant, , 2010-11	220600=00	2010-11	Investigator
16	Century Cement limestone mine, Baikunth	Establishment of Ground vibration predictor Equation	110300=00	2010-11	Investigator
17	M/S Steel Authority of India Ltd. Bhilai	Assessment of Technical Feasibility of The Bulk Emulsion Explosive at the Mines of SAIL	157304=00	2009-10	investigator
18	M/S Fatehpur East Coal Company, Raipur	Assessment of Strength Properties and Elastic Behavior of Coal Measuring Rocks	179238=00	2009-10	Investigator
19	Raipur Alloys and Steel, Raipur	Ground Vibration Monitoring at Dongarbor Iron Ore Mine,	52972=00	2007-08	Investigator
20	National Thermal Power Corporation, Sipat, Bilaspur	Investigation in to Founding Levels,	55000=00	2006-07	Investigator
21	Manikpur OCM, SECL, Bilaspur	Assessment of Strength Properties and Elastic Behavior of Coal Measuring Rocks	74591=00	2006-07	Investigator
22	Italian Thai Dev. Ltd, Kyan H P	Controlled blast design and Blast monitoring at Kol dam Hydro electric Project	481206=00	2005-06	Investigator

23	Super Thermal Power Project, NTPC Sipat., Bilaspur	Geotechnical Investigation for the Assessment of Blastability of The Strata at The Raw Water Reservoir Site, Stage II ,	275500=00	2005-06.	Investigator
24	Stage II, NTPC Sipat., Bilaspur	Classification of Strata at the Raw Water Reservoir Site Stage II	44480=00	2005-06	Investigator
25	M/S SEW Construction Ltd., Hyderabad	Controlled blast design for the Protection of Earthen Dam at sikasar Micro hydro electric Plant of CSEB	50000=00	2004-05	Investigator
26	M/S South Eastern Coal Fields Ltd. Rajendra and Nawagao Sub Area, Shahdol	Assessment of Strength Properties and Elastic Behavior of Coal Measuring Rocks	114000=00	2003-04	Investigator

#### SHORT TERM COURSES/WORKSHOPS/SEMINARS ORGANIZED

Title of the program	Period
CLEAN AND GREEN MINING; organized by Mining Engineers Association of India, Raipur	June 2006
MINE TECH 2007; National seminar Organized at Bhubaneswar by Indian Mining and Engineering Journal	June 2007
MINETECH 2011; National seminar Organized at Raipur by Indian Mining and Engineering Journal	June 2011
RPIMI organized by NIT; Raipur; 2016	Feb 2016
Advances in Analytical Techniques in Chemistry and Material Science	Feb 2016

#### SHORT TERM COURSES/SEMINARS CONFERENCES ATTENDED

Title of the program	Period
CLEAN AND GREEN MINING; Organised by Mining Engineers Association of India, Raipur	June 2006
MINE TECH 2007; National seminar Organized at Bhubaneswar by Indian Mining and Engineering Journal	June 2007
MINETECH 2011; National seminar Organized at Raipur by Indian Mining and Engineering Journal	June 2011
SD Miner 2013; MINETECH 2011; National seminar Organized at Delhi by Indian Mining and Engineering Journal	June 2013
MPES, 2011; Almaty, Kazakhstan	Nov 2011
MPES 2013; Dresden, Germany	Nov 2013
ISEAT, Dubai	Jan 2015
RPIMI organized by NIT; Raipur; 2016	Feb 2016

## **MEMBERSHIP OF PROFESSIONAL BODIES**

- Mining Engineers Association of India
- Mining Geological and Metallurgical Institute of India.
- ISRMTT, India

**OTHER INFORMATION : Second Class Mine Manager's Certificate holder; Working as Registrar (I/C) Since last one and half years and as Dy. Registrar (Fin and Acctt) from 2009 till Dec. 2014.**