

# CURRICULUM VITAE

## 1. PERSONAL INFORMATION

<b>Name</b>	<b>Dr. Manoj Pradhan</b>
<b>Email</b>	<a href="mailto:mpradhan@nitrr.ac.in">mpradhan@nitrr.ac.in</a> , pradhan_nitrr@yahoo.co.in
<b>Contact Number</b>	+91771 2254065 (R) +919826540711 (M)

## 2. PARTICULARS OF EDUCATIONAL QUALIFICATIONS

Sl. No.	Degree Obtained & Branch / Specialization	Name of the University/Institute	Year of Passing	% of Marks/ CGPA	Class/ Division
1	B. E. (Mining Engg)	Ravi Shankar University, Raipur/ Govt Engg. College, Raipur	1985	67 %	First
2	M. Tech ( Rock Exc Engg.)	Indian School of Mines, Dhanbad	1997	4.53/5.0	First
3	Ph D	Ravi Shankar University, Raipur/ National Institute of Technology, Raipur	2007	<i>“Investigation into the Effects of Some Factors on Detonation Velocity of Chemically Sensitized Bulk Emulsion Explosives”</i>	

## 3. PARTICULARS OF EXPERIENCE

<b>i) Teaching Experience :</b>		29	years			
Sl. No.	Name of the organization	Present Designation	Date of Joining the organisation	Date of leaving	Last Pay Band and Grade Pay*	
1.	National Institute of Technology, Raipur	Professor	1.11.1990	working	PB 4 Grade Pay Rs. 10000/-	
<b>ii) Industry Experience:</b>		5	years			
1.	South Eastern Coalfields Ltd	Under Manager	11.1.1986	31.10.1990		

#### 4. AWARDS/ HONOURS/ RECOGNISATION

1	The Dr Rajendra Prasad Memorial Prize 2010, awarded by Institution of Engineers (I), Kolkatta
2	Prof (Dr) H.R. Annireddy Memorial Award 2010 for Outstanding Research in Explosive Utilization, conferred upon by The IME journal Readers Forum, Bhubaneswar
3	Biographical data included in Marquis Who's Who in the World 2012 Edition 29 <sup>th</sup> .

#### 5. MEMBER OF GOVT OF INDIA/ STATE GOVT. /PUBLIC SECTOR COMMITTEES

1	Member, M P State Expert Appraisal Committee, Ministry of Environment, Forest & CC, Govt of India
2	Member, C G State Expert Appraisal Committee, Ministry of Environment, Forest & CC, Govt of India
3	Expert Member of High Level Committee Constituted by South Eastern Coalfields Ltd to review the Rescue and Recovery Work at Sharda Open Cast Mines, Sohagpur Area, SECL.
4	Expert Member of MP Public Service Commission for Selection of HOD, Polytechnic
5	Member, Academic Audit Team, Mining Engineering Dept IIT- BHU, Banaras
6	Member, DPC, Chhattisgarh Council of Science and Technology, Raipur

#### 6. EDITORIAL WORK/REVIEWER OF MANUSCRIPTS

1	Principal, Consulting Editor, The Indian Mining and Engineering Journal
2	Reviewer of Manuscripts, Journal Scientia Iranica, International Journal of Science and Technology, ( Elsevier journal)
3	Reviewer of Manuscripts, Institution of Engineers Journal, Mining Engineering Part D series ( Springer Journal)
4	Reviewer of Manuscripts, International Journal of Mining Science and Technology, ( Elsevier Journal)
5	Editor of the Proceeding of Mine Tech'07, National Seminar on Mining Technology- Present and Future, 21-22 Sep 2007, Bhubaneswar
6	Editor of the Proceeding of MineTECH'10, National Seminar on Mining Technology- Extraction, Beneficiation for Safe Sustainable Development, 7-8 May, 2010, Bhubaneswar
7	Editor of the Proceeding of Mine Tech'11, National Seminar on Mining Technology- for Sustainable Development ,18-19 Nov 2011, Raipur
8	Editor of the Proceeding of The National Workshop " Clean and Green Mining in Chhattisgarh – Problems and Prospects" organized by the Mining Engineers Association of India

#### 7. SPONSORED LABORATORY DEVELOPMENT PROJECT UNDERTAKEN

1	Development of Blasting Engineering Laboratory, AICTE, New Delhi Rs 650000.00
2	Modernization of Mine Surveying Laboratory AICTE, New Delhi Rs 500000.00
3	Development of Rock Excavation Laboratory, AICTE, New Delhi Rs 1350000.00

## 8. Ph D GUIDANCE

S. No	Name of Candidate	Ph D Title	Awarded/ Ongoing	Supervisor
1.	Mr. P Y Dhekne	Development of an ANN model for Prediction of Boulder Count in Lime Stone Quarry Blasting	Awarded (2015)	Principle Supervisor
2.	Mr. Pankaj Dewangan	Shear Strength Evaluation of Fly Ash Mix Coal Mine Over Burden Dump Material by Conducting Large Scale Direct Shear Test and Assessment of its Stability using Numerical Modeling Techniques	Awarded (2017)	Principle Supervisor
3.	Mr. O N Tiwari	Impact of Opencast Copper Mining on Adjoining Natural Water Resources in Central India	Awarded (2017)	Principle Supervisor
4.	Mr. Vineeth Balakrishnan	Development of an innovative blasting technique for blast performance optimization.	Awarded (2019)	Principle Supervisor
5.	Ms. Poonam Sahu	Parametric analysis and formulation of statistical model for sinkhole subsidence in underground coal mining	Ongoing	Principle Supervisor
6.	Mr. Satyabadi Kumar Jena	Apprehension of Strata Movement in Underground Coal Mining for Improvement in Safety Management	Ongoing	Principle Supervisor
7.	Mr. A S Rathore	Potential of utilizing coal mine overburden as replacement of natural sand in concrete	Ongoing	Principle Supervisor
8.	Mr. Anoop Kant Shukla	Heavy metal load on adjoining sediments due to surface dumping of waste rock by open pit copper mining	Ongoing	Principle Supervisor
9.	Mr. O P Singh	Mine Planning	Ongoing	Joint Supervisor

## 9. ASSOCIATION WITH OTHER INSTITUTE AND UNIVERSITIES

1	Executive Council Member, Chhattisgarh Swami Vivekananda Technical University, Bhilai (2005-06)
2	Dean, Faculty of Mining & Geology, Chhattisgarh Swami Vivekananda Technical University, Bhilai (2005-06)
3	Chairman, Board of Studies, Chhattisgarh Swami Vivekananda Technical, University, Bhilai (2005-06)
4	Member Board of Studies, MATS University, Raipur (C G)
5	Member, Board of Studies, AKS University, Satna (M P)
6	Member (Subject Expert), Research and Recognition Committee, Gondwana University, Gadchiroli (M S).
7	Ph D Thesis Examiner, IIT BHU, Banaras
8	Ph D Thesis Examiner, VNIT, Nagpur
9	M Thech Theis Examiner, VNIT, Nagpur
10	Question Paper Setter, Indian School of Mines, Dhanbad, Rajeev Gandhi Technical University, Bhopal, Nagpur University, Nagpur, CSVTU, Bhilai

## 10. MEMBERSHIP OF PROFESSIONAL BODIES

1	Institution of Engineers (India),Kolkata
2	Mining Metallurgical & Geological Institution of India ,Kolkata
3	Mining Engineer's Association of india, Hyderabad
4	Indian Society for Rock Mechanics and Tunnelling Technology, New Delhi

## 12. LIST OF PUBLICATIONS IN SCI/SCOPUS JOURNAL

1.	Balakrishnan V, <b>Pradhan M</b> , Dhekne P Y (2019), “ Effect of Distributed Spherical Air-Gaps on Performance of Emulsion Explosive”, Journal of Institution of Engineers Series D, ISSN 2250-2122
2.	Balakrishnan V, <b>Pradhan M</b> , Dhekne P Y (2019), “Investigating rock fragmentation in distributed spherical air-gap blasting technique”, Powder Technology, ISSN 0032-5910
3.	Balakrishnan V, <b>Pradhan M</b> , Dhekne P Y (2019), “Field investigation in the detonation behavior of emulsion explosive column induced with air gap”, Mining Science, ISSN 2300 -9586
4.	Jena S, Lokhande R D, <b>Pradhan M</b> , Kumar N (2019), “Study of strata movement based upon developed roof fall warning index during final extractions in underground coal mining under easily cavable roof formation”, ARPN Journal of Engineering and Applied Sciences, ISSN 1819-6608

5.	Jena S, Lokhande R D, <b>Pradhan M</b> , Kumar N(2018), “Analysis of strata behavior during final extraction in underground coal mining under difficult caving characteristic of coal condition” Journal of Mines Metals and Fuels, ISSN: 0022-2755
6.	Sahu P, Lokhande R D, <b>Pradhan M</b> , Ravi K Jade (2018), “Development of sinkhole model using ANN (EASYNN-PLUS) for underground coal mines in india”, ARPJ Journal of Engineering and Applied Sciences , ISSN 1819-6608
7.	Dewangan P. K. , <b>Pradhan M</b> , Ramtekkar G.D. (2018), “An Investigation Into Compaction California Bearing Ratio And Shear Strength Behaviour Of Coal Mine Overburden Dump Material Mixed With Fly Ash”, International Journal of Earth Sciences And Engineering, (ISSN 09745904)
8.	Sahu P., Lokhande, R. D., <b>Pradhan, M</b> , Jade R. K. (2018), “Development of Sinkhole model Using ANN (EASYNN-PLUS) For Underground Coal Mines in India”, ARPJ Journal of Engineering and Applied Sciences, (ISSN 1819-6608).
9.	Balakrishnan V, <b>Pradhan M</b> (2018), “Explosive Consumption Reduction by Introducing Hollow Plastic Tubes in Explosive Column”, ARPJ Journal of Engineering and Applied Sciences, (ISSN 1819-6608).
10.	Balakrishnan V, <b>Pradhan M</b> (2018), “Performance Analysis of Using Discarded Water Bottles in Explosive Column for Surface Mine Blasts, Chemical Engineering Transactions, ISBN 978-88-95608-64-8, ISSN 2283-9216
11.	Tiwari O N, Shukla A K, <b>Pradhan M</b> , Nandy T (2017), “Migration of copper to nearby adjoining surface water bodies from tailing impoundment of an open pit copper mine” ECOLOGY, ENVIRONMENT AND CONSERVATION, issue 1 (ISSN 0971-765X)
12.	P K Dewangan, <b>Pradhan M</b> , G D Ramtekkar, Effect of compaction density and moisture content level on shear strength behavior of fly ash mixed coal mine overburden dump material, ARPJ Journal of Engineering and Applied Science, ISSN/ ISBN 1819-6608 11(13)
13.	Dewangan P. K. , <b>Pradhan M</b> , Ramtekkar GD, Shear Strength Criteria for Soft and Weathered Coal Mine Overburden Dump Material, Academic Journal of Science, ISSN/ISBN 2165-6282
14.	<b>Pradhan M</b> , Tiwari O.N., Devdoss C, Nandy T (2016), Pattern recognition techniques for evaluating the special impact of copper mining on surface waters, International Journal of Environment Science and Tech, ISSN/ISBN 1735-1472
15.	<b>Pradhan M</b> , Jade R.K., Sahu P.(2016), Study the variations of sinkhole depth with respect to working height in underground coal mines, International Conference on Recent Advances in Rock Engineering, Bangalore, 978-94-6252-260-2 (ISBN) 2352-5401 (ISSN)
16.	Tiwari O N, <b>Pradhan M</b> , Nandy T (2016), “Treatment of Mining Influenced Water at Malajkhanda Copper Project” Desalination and Water Treatment, Taylor and Francis Journal ( ISSN1944 39860).

17.	Dewangan P. K. , <b>Pradhan M.</b> and Ramtekkar G. D. (2016), “ Shear Strength Behavior of Fly Ash Mixed Coal Mine Overburden Dump Material and Stability Assessment using Numerical Modeling’ , ARPN Journal of Engineering and Applied Science, Vol. 11, No. 1, ( ISSN 1819-6608)
18.	Dhekne PY, <b>Pradhan M</b> , Jade R K , Mishra R, Boulder prediction in rock blasting using artificial neural network, ARPN Journal of Engineering and Applied Science, 1819-6608 11(13)
19.	Dhekne P Y, <b>Pradhan M</b> , Jade R (2015), Assessment of the Effect of Blast Hole Diameter on the Number of Oversize Boulders using ANN Model, Journal of the Institution of Engineers(I) Series D.
20.	Dewangan P, <b>Pradhan M</b> , Ramtekkar G D (2015), Effect of Fragment Size and Moisture Content on Compaction and Shear Strength Behaviour of Coal Mine Overburden Dump Material, European Journal of Advances in Engineering and Technology (EJAET) , 2(12) ( ISSN 2394-658X)
21.	<b>Pradhan Manoj</b> (2010), Sleep Time-its Consequences on the Performance of Bulk Emulsion Explosive”, Journal of Scientific & Industrial Research, Vol 69, pp.125-128.(ISSN:0022-4456, Impact Factor0.514,SCI Journal)
22.	<b>Pradhan Manoj</b> (2009), Effect of Charge Temperature on the Detonation Velocity of Bulk Emulsion Explosives”, Institution of Engineers Journal (Mining Series D) Vol 90,pp. 3-7.(ISSN 2250-2122, Springer Journal)

### 13.LIST OF PUBLICATION IN NATIONAL JOURNALS

1.	Tiwari O N, <b>Pradhan M</b> , Nandy T (2015), “ Chemical Precipitation Technology and Application in Treating Mine Water- A Case Study of Malajkhand Copper Project, Metal News, Vol 18 No 1 pp 11-15 ( ISSN 09720480)
2.	Dhekne P Y, <b>Pradhan M</b> & Jade R (2014) Assessment of Performance of Explosives by Estimating the Number of Oversize Boulders using ANN Model, The Indian Mining & Engineering Journal, Vol 53, No 53, No 10, Oct pp 8-10.
3.	Rathore A S, Varshney A, <b>Pradhan M</b> & Bajpai S (2014), “Induction Furnace Slag: An Eco Friendly Alternative of Natural Sand” The Indian Mining & Engineering Journal, Vol 53 No 02. Pp 11-14. (ISSN 00195944
4.	<b>M. Pradhan</b> , Jade R and Dewangan P, (2013)“Policy Issues and Reforms needed for growth of Indian Thermal Power sector in an Economical and Eco-friendly way” The Indian Mining & Engineering Journal, Vol. 52, No. 7, (ISSN 00195944)
5.	Dewangan P, <b>Pradhan M</b> Kishore N (2013), Advancement in Geotechnical Instrumentation for Monitoring Unstable Open Pit Mine Slopes: An Overview The Indian Mining & Engineering Journal Vol 52, No (ISSN 00195944
6.	Dewangan P, <b>Pradhan M</b> Kishore N (2013), Slope Stability Radar System for Monitoring Open Pit Slope, The Indian Mining & Engineering Journal Vol 52, No 04 pp 18-21. (ISSN 00195944

7.	Dewangan, P., <b>Pradhan M</b> & Kishore Nawal (2012), "Use of Coal Combustion Residues in Mining Industry for Sustainable Development of Mining and Power Sector Together", The Indian Mining & Engineering Journal Vol 50, No 02, pp 24-31(ISSN00195944)
8.	Jade R.K., <b>Pradhan, M</b> (2011), "Technological Issues in Implementing of High wall Mining in India", The Indian Mining & Engineering Journal Vol 50, No 04, pp 8-12 (ISSN 00195944)
9.	Jade R.K., Shastry, B.S.& <b>Pradhan, M</b> (2011), "Flow Effect of Two Way Splits and Junctions in Mine Airways- An Experimental and Computational Approach", The Indian Mining & Engineering Journal Vol 50, No 02, pp 8-12. (ISSN00195944)
10.	Jain R.K., Karera, A.C. & <b>Pradhan M</b> (2009), "Environment Related Legislations Applicable to Mining", The Indian Mining & Engineering Journal Vol 48, No 11, pp 36-43. (ISSN00195944)
11.	Dhekne, P.Y., <b>Pradhan M.</b> & Bhatia R.P.S.(2009), "Rock Fragmentation due to Blasting-Some Alien Issues" Mining Engineering Journal,Vol10, No 6,pp10-14. (ISSN00195944)
12.	Dhekne P.Y., <b>Pradhan M</b> (2008), "Explosive Energy Distribution in Rock Blasting", The Indian Mining & Engineering Journal Vol 47, No 06, pp 9-18. (ISSN00195944)
13.	<b>Pradhan M</b> , Pradhan R & Dhekne P.Y.(2007), "FRAGPRED: An Automated Solution for Rock Fragmentation Prediction" The Indian Mining & Engineering Journal Vol 46, No 01, pp 20-24. (ISSN00195944)
14.	<b>Pradhan M</b> & Pathak S (2007), "Dependency of VOD of Bulk Emulsion Explosive on its Density" The Indian Mining & Engineering Journal Vol 46, No 10, pp 118-121. (ISSN00195944)
15.	Pradhan, G.K & <b>Pradhan, M</b> (2006), 'Mineral Resources & Development Scenario of Chhatisgarh" The Indian Mining & Engineering Journal Vol 45, No 11, pp 37-44. (ISSN00195944)
16.	<b>Pradhan M</b> , Verma G.R, & Ashplya B.M.(2006) 'Evaluation of Explosive Performance by Continuous In-hole VOD Measurement in Full Scale Blast Environment" The Indian Mining & Engineering Journal Vol 45,No 09 pp14-18. (ISSN00195944)
17.	Verma G.R., <b>Pradhan M</b> & Patel M.D.(2006), 'Establishment of Modified Predictor Equation for Prediction of Rock Fragmentation", Mining Engineering Journal,Vol 07,No 8,pp13-21(ISSN0975-3001)
18.	<b>Pradhan M</b> , Pathak S, Bhattacharjee P.K. Ashplya B.M.(2006), 'Effect of Density on Detonation Velocity of Bulk Emulsion Explosives", Mining Engineering Journal, Vol 07,No78,pp13-17. (ISSN0975-3001)
19.	Dhekne P.Y. <b>Pradhan M</b> , Dewangan P. Verma G.R. (2005) "Assessment of Excavation Method Using RMR Classification" The Indian Mining & Engineering Journal Vol 44, No 11, pp 25-27. (ISSN00195944)
20.	Verma G.R. <b>Pradhan M</b> & Bhattacharyajee P.K (2005), "Use of Site Mixed Emulsion in Captive Lime Stone Mines-A New Perspective" The Indian Mining & Engineering Journal Vol 44, No 09, pp 22-26. (ISSN00195944)
21.	Verma G. R. <b>Pradhan M</b> & Mohgaonkar A.(2005),"Flyrock Accidents –by Chance or Improper Practice" The Indian Mining & Engineering Journal Vol 44, No 07, pp 21-26. (ISSN00195944)

22.	<b>Pradhan M</b> , Dewangan P & Dhekne P.Y.(2004), Estimation of Safe Peak Particle Velocity in the Vicinity of Blasting Site Near an Earthen Dam” Mining Engineering Journal,Vol 06,No04,pp23-28. (ISSN0975-3001)
23.	<b>Pradhan M</b> , Dhekne P.Y. & Ashplya B.M. (2004), “ Application of Controlled Blasting for Drifting” The Indian Mining & Engineering Journal Vol 43, No 08, pp 22-26. (ISSN00195944)
24.	<b>Pradhan M</b> (1997),”Continuous Surface Miner and its Performance” The Indian Mining & Engineering Journal Vol 36, No12, pp 90-92. (ISSN00195944)

#### 14. PAPERS IN CONFERENCE

<b>International Conference</b>	
1.	<b>Pradhan M</b> (2017), “An Investigation into the Use of Surface Miner for Hard Rock Surface Mining”, 7th Asian Mining Congress Organized by MGM, 8-11 Nov 2017, Kolkata
2.	Pankaj Kumar Dewangan, <b>Manoj Pradhan</b> , G.D. Ramtekkar, (2016) Generalized Shear Strength Criteria for Soft and Weathered Coal Mine Overburden Dump Material, International Journal of Arts and Science Conference, Boston, USA, May 23-27, 2016
3.	<b>Pradhan M</b> , Mixing of fly ash in coal Mine overburden dump: an Eco-Friendly Method O fly ash Disposal, 8th International conference on environmental science and development- (ICESD) Frankfurt Germany, Feb 8-10, 2017
4.	<b>Pradhan M</b> , Jena S K , Lokhande R, Pradhan K, Analysis of strata control monitoring in underground coal mines for apprehension of strata movement, International Conference on Recent Advance in Rock Engineering, Banglore, 978-94-6252-260-2 (ISBN) 2352-5401 (ISSN)
5.	Pankaj Kumar Dewangan, <b>Manoj Pradhan</b> , (2015) Fly ash utilization in India vis-à-vis technological advancement and barriers ahead, MiCTM, Dubai, March 25-26, 2015
6.	<b>Pradhan M</b> , Balakrishana V., Pradhan G K (2015), “Use of Discarded Water Bottles in Blasting- An Innovative Enviro-Friendly Technique”, 3rd International Conference on Climate and Environment Engineering
7.	<b>Pradhan M</b> & Pradhan G K (2014), “High Wall Mining Operations In India, “ Int. Symposium on Environment Impact Management in Mining & Mineral Industries’ Dept of Mining engineering, IIT BHU, Varansi 13-15 Feb pp676-706.
8.	Raman Sundar, Satpathy R R, Satyanaryan G V Pradhan G K & <b>Pradhan M</b> (2013), Explosive Energy Distribution through Placement of Low Explosive air Gap –Case Study of an Indian Iron ore Mine, &th World Conference on Explosives & Blasting, Moscow Russia pp22-27
9.	Dhekne P Y <b>Pradhan M</b> Jade R K (2013), “Artificial Intelligence and prdction of Rock fragmentation”, “Mine Planning and Equipment Selection 2013, Dresden Germany 14 <sup>th</sup> -19 <sup>th</sup> Oct.
10.	“Dixit S& <b>Pradhan M</b> (2013), “Highwall Mining in India”, “Mine Planning and Equipment Selection 2013, Dresden Germany 14 <sup>th</sup> -19 <sup>th</sup> Oct.

11.	<b>Pradhan M.</b> & Jade R. (2012), “Detonation Behavior of Bulk Emulsion Explosive in Watery Blast Holes” Tenth International Symp. on Rock Fragmentation by Blasting, FRAGBLAST 10,
12.	Pradhan G. K., <b>Pradhan M.</b> (2012), “Explosive Energy Distribution in an Explosive Column Through use of Non-explosive Material-case Studies of Some Indian Mines” Tenth International Symp. on Rock Fragmentation by Blasting, FRAGBLAST 10.
13.	<b>Pradhan M.</b> , (2011), “Effect of Charge Diameter on the VOD of Bulk Emulsion Explosive”, International Symposium on Mine Planning and Equipment Selection, Oct 12-14, Almaty, Rep. of Kazakhstan
14.	Jade R.K. & <b>Pradhan M</b> (2011), “Coal to Liquid Fuel Technology-Present and Future” International Conf. on Technological Challenges and Management Issues for Sustainable Development of Mining Industries (TMSMI), Aug. 4-6, NIT Rourkela.
15.	Pradhan G. K., <b>Pradhan M</b> & Thote N. R. (2009), “Use of Furnace Oil as Liquid Fuel in Site Mixed Slurry Explosive System- A Case Study” Ninth International Symp. on Rock Fragmentation by Blasting, Sep. Granda, Spain, pp 141-146
16.	Gupta R.N., <b>Pradhan M</b> , Badal Rajeev,(1997), “A Study of Controlled Blasting Techniques in Drifting” International Seminar “ Tunelling Asia 1997, Org. by Central Board of Power & Irrigation , New Delhi,20-24 Jan, pp. 253-259.
<b>National Conference</b>	
1.	Bhandari T, Upadhyay S, Dash A K, Dewangan P K, <b>Pradhan M</b> (2018). “Thick Coal Seam Mining – Challenges and Prospect” , National Seminar on Current Practices in Mining and Allied Industries (CPMAI-2018), Organized by Department of Mining Engineering, GCE, Keonjhar
2.	<b>Pradhan M</b> , Balakrishnan V, Pathak K (2017), “DAG Blasting ; An innovative Cost Effective Blasting Technique” MGMI, Sambalpur, Odisha
3.	Lokhande, R D, Sahu Poonam, <b>Pradhan M</b> , Dewangan P(2017), “Impacts of Sinkhole Subsidence on Environment; Issues and Challenges” 18 <sup>th</sup> International Conference on Envirotech, Cleantech and Greentech, Rome, Italy, 9-10 June 2017
4.	Dewangan P K, <b>Pradhan M</b> (2017), “Slope Stability Analysis Using Shear Strength Reduction Technique: A Case study of Limestone Mine”, Recent Trends in Mining Technology and Geosciences, August 5, 2017, NIT Raipur
5.	<b>Pradhan M</b> , Tiwari O.N., Shukla A K, Nandy T (2017), “Review of Impact of Mining and Beneficiation on Natural Environment “,Recent Trends in Mining Technology and Geosciences, August 5, 2017, NIT Raipur
6.	<b>Pradhan M</b> , Balakrishnan V, Pathak K (2017), “Performance Analysis of Distributed Spherical Air Gaps in Explosive Column for Surface Mine Blasts “,Recent Trends in Mining Technology and Geosciences, August 5, 2017, NIT Raipur
7.	<b>Pradhan M</b> , Prince Kumar, Kamlesh Sahu, Piyush Jain (2017), “Fly ash utilization in

	mining sector Indian scenario”, Advances in Mine Environment, Geotechniques and Ground Control”(AMEGGC-2017) 2 <sup>nd</sup> December, 2017, NIT Raipur
8.	Sunita, Jade R K, <b>Pradhan M</b> , (2016)”, Monitoring Land Use Dynamics of opencast Mines Through Remote Sensing”, National Seminar on Recent Practices and Innovations in Mining Industry, Raipur, 19-20 Feb 2016
9.	Tiwari O N, <b>Pradhan M</b> , Nandy T, (2016), Impact and Mitigation of Copper Ion Concentration on Adjoining Natural Water Resources – A Case Study of Malaj Khand Copper Project , Raipur, 19-20 Feb 2016
10.	Dewangan P, <b>Pradhan M</b> , Ramtekkar G D, (2016) Shear Strength Characterization of Fly Ash Mixed Coal mine Overburden Dump Material. National Seminar on Recent Practices and Innovations in Mining Industry, Raipur, 19-20 Feb 2016
11.	Dewangan P K, <b>Pradhan M</b> , Ramtekkar G D (2015), Effect of Gradation, Gravel Content and Fragment Size on the Compaction and Shear Strength Behavior of Coal Mine Overburden Dump Material, SSIOMCE, NIT Rourkela, July 25-26, 2015
12.	Dhekne P Y, <b>Pradhan M</b> , Jade R (2014), “ Fragmentation Assessment Models: An Overview, All India Seminar on Mining –Recent Advances Challenges and Scenario Beyond 2015, NIT Rourkela, Nov 8-9.
13.	<b>Pradhan M</b> (2014), Procedure for Appraisal of Minor Mineral Mining Project for Grant of Environment Clearance, Sustainable Development in Mineral & Earth Resources SDMinER 2014: 21-22 June 2014 New Delhi pp433-438.
14.	Dhekne P Y, <b>Pradhan M</b> , & Jade R (2014), Kuzram Model: Limitation and Their Riddance, Sustainable Development in Mineral & Earth Resources SDMinER 2014: 21-22 June 2014 New Delhi pp365-369
15.	Pandy M <b>Pradhan M</b> & Pandey P (2014) “Acid Mine Drainage in Coal Mines of SECL consequences & Remedies, ‘PARAS- 2 <sup>nd</sup> National Conference on Recent Advancement in Science and Technology for Sustainable development of Rural Areas in Chhattisgarh, Bhilai 7 <sup>th</sup> -8 <sup>th</sup> March.
16.	Pandey M, <b>Pradhan M</b> & Pandey P (2014) , “Solution of Acid Mine Draingae in Indian Coal mines of SECL 7 Its Prevention” Shaastrarth 2014”An Inteternation Conference on Advanced Research Allications in Engineering and technology, Rungata Group of Institutions, Bhilai, 23 <sup>rd</sup> -24 March.
17.	Dewangan P, <b>Pradhan M</b> , Jade R, ( 2013) Punch Mining System: An Eco-Friendly Solution to Exploit High Stripping Ratio Coal Blocks, National Conference on Challenges in 21 <sup>st</sup> Century Mining-Environment and Allied Issues, 19-21 Feb.
18.	Dewangan P, <b>Pradhan M</b> Kishore MN (2012), Slope Stability Radar System for monitoring Pit Slopes, Proceeding of Golden Jubilee Workshop on Mining Tedchnology, MineTech 12, Bhubaneswar,4-5 May, pp78-82.
19.	<b>Pradhan M</b> , Jade R Dewangan P (2012), Policy Issues and Reforms Needed for Growth of Indian Thermal Power Sector in an Econmocal and Eco-friendly Way’ Proceeding of Golden Jubilee Workshop on Mining Tedchnology, MineTech 12, Bhubaneswar,4-5 May, pp78-82.

20.	<b>Pradhan M</b> Dhekne P Y (2011), 'Blast Practices vis-à-vis Rock Fragmentation : A Caser Study of Lime Stone Quarries in Raipur District', 'Proceeding of Natrional Seminar on Explosives and Blasting Techiques for Mining,Quarrying & Infrastructure Industry, NIT Suratkal Feb 18-19 pp 128-139.
21.	Singh V. K., <b>Pradhan M.</b> (2011), "Environment Clearance Process for Mining Projects", National Seminar on Mining Technology for Sustainable Development" Nov.18-19, Raipur.
22.	Hedau Smriti, Singh V.K. & <b>Pradhan M.</b> (2011), "Effect of Accelerator on the Rate of Chemical Gassing of Bulk Emulsion Explosives", National Seminar on Mining Technology for Sustainable Development" Nov.18-19, Raipur.
23.	Vansutre S, <b>Pradhan M.</b> & Singh A(2011), "Gemstone Mineralization in Bastar , Chhattisgarh and its Possible Role in Human Resourse Development" National Seminar on Mining Technology for Sustainable Development" Nov.18-19, Raipur
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## 15. CONSULTANCY PROJECTS

S. No	Organization	Title of project	Amount of grant in Lakh Rs.	Period	Role
1.	SECL	Scientific study in Manikpur Opencast Mine of Korba Area, SECL	15.34	2019-20	PI
2.	BALCO	Recovery Test at Mainpat Bauxite Mine and Kawardha Bauxite Mine	2.95	2019-20	PI
3.	Maheshwari Coal Benification Ltd	Water requirement estimation	0.47	2019-20	PI
4.	Hind Coal Benification Ltd	Water requirement estimation	0.47	2019-20	PI
5.	Clean Coal Benification Ltd	Water requirement estimation	0.47	2019-20	PI
6.	Paras Power and Coal Benification Ltd	Water requirement estimation for 2 plants	0.94	2019-20	PI
7.	SECL	Scientific study for method of working and design of dump as per the provision in regulation no. 106(2) of CMR 2017 in Mahan II OCM	10.03	2019-20	CI
8.	MOIL	Monitoring of blast induced ground vibration	1.88	2019-20	PI
9.	GPIL (HIRA Group)	Waste dump slope stability analysis at Boria Tibbu Iron Ore Mine	5.90	2018-19	CI
10.	GPIL (HIRA Group)	Waste dump slope stability analysis at Aridongri Iron Ore Mine	5.90	2018-19	CI
11.	BALCO	Scientific study of design of dump as per CMR 2017, regulation no. 106(2) at Chotia-II Opencast Coal Mine	2.95	2018-19	CI
12.	BALCO	Scientific study for method of	8.85	2017-18	CI

## 16. IMPORTANT ACADEMIC AND ADMISTRATIVE RESPOSIBILITIES HELD

1	Head, Department of Mining Engineering, NIT Raipur.(2004-2009)
2	Chief Warden(boys), NIT, Raipur
3	Member, Senate, NIT Raipur
4	Chairman, Doctoral Research Committee, Mining Engineering Department, NIT, Raipur
5	Member, Academic Advisory Committee, NIT, Raipur (2008-09, 2009-10)
6	Member of Central Purchase Committee, NIT Raipur (2007-08)
7	Member, Research and Consultancy Committee, NIT, Raipur
8	Member Selection Committee for the Post of Assistant Professor (Mining), NIT, Raipur (2009)

## 17. EXTRA CURRICULAR /SOCIAL/ CULTURAL ACTIVITIES

1	Patron and Founder of Students Education Assistance Fund, GECNIT Alumni Association
2	Coordinator, Silver Jubilee Reunion of 1985 batch of GECNIT
3	Founder Member, GECNIT Alumni Association, NIT, Raipur
4	Chairman, Stage Management Committee, Golden Jubilee Celebration of GEC, Raipur
5	Executive Committee Member, (Mining Division), The Institution of Engineers (India), Chhattisgarh State Centre.
6	Executive Member of GEC-NIT Raipur Alumni Association
7	Founder Member, Rotary Club of Raipur Greater, Raipur
8	Member, Wildlife Society of Chhattisgarh