- 1. Name: Dr. MORE RAMULU
- 2. Date of Birth: 15/02/1971

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3. Current Position and Address: Principal Scientist CENTRAL INSTITUTE OF MINING & FUEL RESEARCH, REGIONAL CENTRE (Unit-1) 3rd Floor, MECL Complex, Seminary Hills, NAGPUR - 440 006, Maharastra Telefax (0712) 2510311, 2510604 Mob. 09423686796 E-mail : more.ramulu@gmail.com

4. Educational qualifications: (Graduation and above)

SI No.	Degree	Year	University / Institute	Subject
i	S S C (10 th)	1987	Board of Secondary Education, Hyderabad	General elementary subjects & Languages
ii	Intermediate (10 + 2)	1989	Board of intermediate Education, Hyderabad	Mathematics,Phy sics, Chemistry
iii	B. E	1995	Kothagudem School of Mines, Osmania University	Mining
iv	M. Tech (by research)	2004	Visveswaraya National Institute of Technology (NIT), Nagpur	Rock Blasting Engineering
v	P.G.D.G.T	2002	Nagpur University	Gandhian Thought
vi	Ph.D	2010	Indian Institute of Science (IISc), Bangalore	Geotechnical & Mining Engineering

SI No.	Designation	Institution/company	Form	То	Nature of work
i	Quick Hire Fellow	Central Mining Research Institute	1995	1996	Assisting to R&D projects
ii	Scientist B	Central Mining Research Institute	1996	2000	Mine Ventilation & Blasting engineering
iii	Scientist C	Central Mining Research Institute	2001	2004	Rock excavation and blasting engineering
iv	Scientist E-I	Central Mining Research Institute/ Central Institute of Mining and Fuel Research	2005	2008	Rock excavation and blasting engineering
v	Scientist E-II (Principal Scientist)	Central Institute of Mining and Fuel Research	2009	Till-date	Rock excavation and blasting engineering

5. Work experience

6. Area of specialization:

Rock Excavation and Blasting Engineering with specialization in Tunneling, Controlled blasting, Blast Optimization & productivity improvement and rock mass damage assessment control for mines and tunnels

7. Honors/Awards received:

i.University Gold Medal for first merit in Bachelors from Osmania University, A.P., India

- ii.SCCL-MGMI Gold Medal for academic excellence in B.E.
- iii.ISRMTT best paper Award-2009 for Case History of Tunnelling and Foundations on Rock mass.
- iv.Smt. Veena Roonwal Memorial national award 2009 from MEAI, Hyderabad for new technology development in blasting
- v.SGAT Award of Excellence 2010 from Society of Geoscientists and Allied Technologists, Bhubaneswar for development of Innovative blasting technology
- vi.MEAI S.R.G. Information Technology Award- 2011 for development and application of IT in mining engineering
- vii.National Design Award in Mining Engineering 2010 by National Design and Research Forum (NDRF) of IEI for design and development of Innovative Mining Technology
- viii.National Geoscience Award in Mining Technology 2010 from Ministry of Mines, Govt. of India for development of safe and productive Mining Technology
- **ix.JOHN DUNN MEDAL for 2011-2012** from MGMI, for the outstanding contributions to the Indian Mineral Industry
- **x.Prof. H.R. Anireddy Memorial Award** for 2013 from Indian Mining & Engineering Journal for the outstanding contributions to the Mining Technoloty

8. Fellowships/Scholarships:

i) Telugu Vignana Paritoshikam from Govt. of A.P. for top merit in SSC ii) Quick Hire Fellowship from CMRI during 1995

- 9. No. of Research Publications:
 - Papers in journals: 30
 - In conference proceedings: 60
 - Invited/key-note addresses: 25
 - List of best 05 publications:
 - i. Ramulu, M, Sitaram T.G., Choudhury P.B., Raina A.K., Chakraborty A.K.,2009, Effect of repeated blast vibration on Rock mass damage at a Penstock Tunnel of a hydroelectric power project – a case study, J. of Rock Mechanics and Tunnelling Tech. vol. 15, no.01, pp.17-36
 - **ii.** Ramulu, M., 2010, Development of a new blast vibration prediction model incorporating burden variations in surface blasting, Int. Journal of Geotechnical Earthquake Engineering, IGI publications, july-sept., Vol.1, No.2, pp. 72-88.
 - iii. Ramulu, M. and Sitharam, T.G, 2010. Blast induced damage due to repeated vibrations in jointed gneiss rock formation, Int. Journal of Geotechnical Earthquake Engineering, IGI publications, Vol.1, No.1, pp112-136.
 - iv. Ramulu, M., Chakraborty A. K. and Sitharam T.G., 2009. Damage assessment of basaltic rock mass due to repeated blasting in a railway tunnelling project – a case study, Tunnelling and Underground Space Technology, Vol.24, pp. 208– 221
 - v. Ramulu M and A.Sinha, 2010, Improvement of productivity & safety in opencast blasting using bottom hole air decking technique, Visfotak explosive safety & technology society journal, September, vol. no. 5, pp.35-
- 10. Number of Books authored/edited:
- 11. (a) No. of Patents granted/applied for:
 - (b) Technologies developed, Licensed and/or commercialized:

S.No	From	То	Country visited	Purpose
1	10.06.1999	20.06.1999	U.K.	For attending a training course on the operation of MDL's Quarryman ALS and Bore Trak system to produce face profiles and hole deviations with the Face 3D software
2	21.06.1999	30.06.1999	Canada	For attending a training course on the WipFrag – a photoanalysis system for fragmentation

12. Foreign visits:

				measurement for blast optimisation
3	12.09.2009	20.09.2009	Spain	For attending an International conference on Fragmentation by Blasting – FRAGBLAST'8
4	14.09.2013	18.09.2013	Russia	For attending an International Conference '7th World Conference on Explosives & Blasting' held in Moscow and to present a technical paper

13. Details of Professional memberships:

i. Fellow (F-115893-3) of Institution of Engineers (India)

- ii. Member of International Society of Rock Mechanics (ISRM), PORTUGAL
- iii. Life member (LM-3438) of Mining Engineers Association of India (MEAI)
- iv. Life Member (7576-LM) of Mining Geological & Metallurgical Institution (MGMI), Kolkata
- v. Life member of Society of Geoscientists and Allied Technologists, Bhuabaneswar

14 . Major contributions: (Max. 150 words)

- I. Controlled blast design to ensure safety and to increase productivity of opencast blasting
- II. Optimisation of blast fragmentation to improve productivity of unit mining operations
- III. Safe blast design to control the environmental parameters & Blast vibration, air overpressure and flyrock monitoring and mitigation
- IV. Controlled blast design to restrict rockmass damage and overbreak in underground excavations
- v. State of art blasting and support design for Tunneling and Cavern excavations and underground space technology
- VI. Design and execution of smooth blasting for any type of rock mass to get smooth profiles tunnels with maximum half cast factors.
- VII. Rippability analysis and rockmass characterization by seismic profiling
- VIII. Shaft sinking by swift and economic methods of longhole raise driving techniques
- IX. Demolition, implosion & controlled concrete blasting
- X. Safety and productivity enhancement of underground and opencast rock excavations
- XI. Innovative bottom hole decking and in-hole delay cut blast design for better productivity in underground rock excavations
- XII. Controlled blasting techniques for Urban blasting and Metro Rail applications
- 15. Technologies and Products/ Services
 - (i) Developed:
 - a) In-hole delay cut blast design for better productivity in underground rock excavations
 - b) Bore-trap a rescue device for borehole trapped children

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- (ii) Licensed:
- (iii) Commercialized:
- 16. Designs and Prototype Developed:
- 17. Honours and awards won for technological contributions or sociological impact of R&D:
 - Guest editor for a special issue of International Journal of Geotechnical Earthquake Engineering on 'Dynamics and Blasting', IGI Global publications, An official publication of the Information Resources Management Association, July-December 2010, Vol. 1, No. 2.
 - Editorial board member of International Journal of Geotechnical Earthquake Engineering, IGI Global publications, An official publication of the Information Resources Management Association
 - iii) Editorial board member of Journal of explosives safety and technology society 'Visfotak', India.
 - iv) Editorial board member of Journal of explosives safety and technology society 'Visfotak', India.
 - v) Editorial board member of **Indian Mining & Engineering Journal, Bhubaneswar,** India.
 - vi) Editorial board member of **Journal of the Society of Geoscientists & Allied Technologists, Bhubaneswar, India.**

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Signature