

## Brief Bio-data

1. Name: ANAND GANPATRAO SANGODE

2. Date of Birth: 03<sup>rd</sup> December 1974

3. Current Position and Address

(Include Email ID and Contact Number): Senior Technical Officer-1  
CSIR- Central Institute of Mining and Fuel  
Research, Nagpur Research Center (Mining  
Technology) 17/C, Telanghedi Area, Civil  
Lines, Nagpur-440001, Maharashtra, India  
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4. Educational qualifications: (Graduation and above)

Sl. No.	Degree	Year of Passing	University/Institute	Subject
1	Bachelor of Engineering	2013-2018	Institution of Engineers, Kolkata	Mining Engineering
2	Diploma in Engineering	1990-1993	Govt.Polytechnic, Goa	Mining & Mines Surveying

5. Work experience:

Designation	Institute/company	From	To	Nature of Work
Senior.Technical Asst.	CSIR-CIMFR	23/08/2002	23/08/2007	R &D(Placer Mining)
Technical Officer	CSIR-CIMFR	23/08/2007	23/08/2012	R &D(Rock Excavation Technology)
Senior.Technical Officer-1	CSIR-CIMFR	23/08/2012	Till Date	R &D (Slope Stability)

6. Work Area(s)/ Specialization: Rock Excavation Technology, Slope Stability.

7. Major contributions: (Max. 100 words): Contributed in more than 75 consultancy, industry sponsored & Govt funded R& D projects related in the area of Placer Mining, Rock excavation Technology, slope stability, support design of u/g roadways, galleries, stoping design. In Rock Excavation technology carried out optimization of Blast design and fragmentation analysis, VOD measurement of explosives, Seismic profiling for rippability assessment. Multi variable regression analysis of blast data, Controlled blasting for Metro Rail projects, In hand experience on blast simulation software like JKSIM, fragmentation analysis on Wiprag, Fragalyst. In the area of slope stability, the work related with pit slope design, pit slope monitoring, Rock mass characterization, structural mapping and assessment of rock mass quality. In hand experience on Kinematic analysis software like Dips V.7, slope design software like Rocscience Slide, Geoslope.

8. No. of Research Publications:

- Papers in Journals:07
- In conference proceedings: 30
- Invited lectures delivered: Nil
- List of best 05 publications:

1 Trivedi, Ratnesh, Sangode, A. G., Loveson, V.J. and Singh, V.K. and Sinha, A. (2008) A Review on Mining of Coastal Placer Minerals. Indian Mining & Engineering Journal, 47 (4). pp. 18-25. ISSN 0019-5944

2. Ratnesh Trivedi. K Chakraborty, **A.G.Sangode** and B.K.Tewary (2010), A study of Air Pollution Load Assessment Around Opencast Coal Project Indian Environmental Protection, Vol.30.No.3 March 2010 Pp 198-206.ISSN 0253-7141

3. M. Ramulu, **A.G. Sangode** and A. Sinha (2011), Assessment of Blast performance with prilled ANFO and Emulsion explosive at Maihar cement Limestone mine, "Visfotak" explosive safety & Technology Journal, Vol.No.6: ISSN:0976-4070

4. M. Ramulu, P.B.Choudhury, **A.G.Sangode** and A.K.Soni(2012), Rippability assessment by refraction seismic survey at an Iron ore mine in Karnataka, The Indian Mining Engineering Journal, Vol 13, No.10, PP-20-25.ISSN 0975

5. Bagde, M.N. and Sangode, A.G. and Jhanwar, J.C. (2017) Evaluation of Stopping Parameters Through Instrumentation and Numerical Modelling in Manganese Mine in India: a Case Study. Procedia Engineering, 191. pp. 10-19. ISSN 1877-7058

- Books/Chapters authored/edited: Nil

9. List of 5 Major Contract R&D Projects:

1. Design of Controlled blasting pattern and practice by using SME at Pouni OCM, WCL (SSP/N/196/2017-2018)

2. Geotechnical studies for advice on Slope Stability of Nimbeti Limestone mine. (SSP/N/238/2017-18)

3. Geotechnical study for optimum surface crown and stope back support at Pandharwani Underground manganese mine (SSP/N/231/2017-18)

4. Geotechnical study for support design D2(I) depillaring panel with caving at U/g Belgaon Coal Mine, (SSP/N/355/2018-19)

5. Evaluation of Waste Dump stability through slope monitoring at Rampura-Agucha Opencast Mine. (SSP/N/293/2018-19) (As Principal Investigator)

10. (a) Name of Patents/Copyrights applied /granted/commercialized:

(b) Technologies/Products /knowhow/Services developed:

11. Honors/Awards/Recognitions/Fellowships/Scholarships/**Professional Memberships received:**

a) The Institution of Engineers (I)

AM-1827610

b) Mining Engineers Association of India

Life Member (5385)

12. Societal Contributions: Participated in CSIR "JIGYASA" a student-scientist programme organized by CSIR-CIMFR for various KV schools in Nagpur.