

1.Name 2.Date of Birth 3. Current Position and Address: (with E-mail & Phone no.)	Anand G Sangode 03rd December 1974 Sr.Technical Officer(I) CSIR-Central Institute of Mining and Fuel Research Regional Centre,Unit-I,MECL Complex,Seminary Hills, Nagpur-440006,India Phone No: + 91 + 712+2510311 Fax: + 91 + 712 + 2510604 Email: agsangode@gmail.com asangode@cimfr.res.in Mob: +91 9421536329	
--	---	---

4. Educational qualifications: (Graduation and above):

DEGREE/CERTIFICATE	YEAR OF PASSING	UNIVERSITY	SUBJECTS
Diploma in Mining & Mine surveying	1993	BTE Goa	Method of Mining, Geology ,ventilation,surveying,rock mechanics etc
AMIE(Equivalent to BE/B Tech) in Mining Engg.	-	Institute of Engineers, Kolkatta	*Section-A Passed Engg Management, Adv Mine Ventilation, Mine management, Geo mechanics , etc

5. Work Experience

ORGANIZATION	DESIGNATION	DURATION
CSIR-CIMFR, Nagpur	Sr.Tech .Asst	22.08.2002 – 22.08.2007
CSIR-CIMFR, Nagpur	Tech Officer	22.08.2007 – 22.08.2012
CSIR-CIMFR, Nagpur	Sr.Tech Officer(I)	22.08.2012 – Till date

6. Area of Specialation: Rock Mech. & Mining Method

7. Honors/ Awards received:

- ❖ Selected as "Meritorious Student" for involving into academic activity at GP Bicholim, in consecutive three years i.e. during 1990-1993

8. Fellowship/scolership: NIL

9.No. of Research Publication:

Publications: Total 23

Journals

International refereed Journals: 0
National refereed Journals: 6

Conference/seminar/symposium

International Conference (abroad): 1
International Conference (India): 3
National Conference (India): 21
Total : 31

List of Papers published in various conference/seminar and journals

JOURNALS

- 1 Ratnesh Trivedi, **A.G.Sangode**, V.J.Loveson, V.K.Singh, A.Sinha, A Review on Mining of Coastal Placer Minerals, The Indian Mining & Engineering Journal (VOLUME-47 NO 04 April 2008) p 18-25.ISSN 0019-5944
2. Ratnesh Trivedi, M .K Chakraborty, **A.G.Sangode** and B.K.Tewary, A study of Air Pollution Load Assessment Around Opencast Coal Project Indian J.Environmental Protection, Vol.30.No.3 March 2010 Pp 198-206.ISSN 0253-7141
3. Ratnesh Trivedi, **A.G.Sangode**, M.K.Chakraborty and M.R.Soliria, A progressive Mine Closure Plan for a Semi-mechanized Quarry of Dolomite, The Indian Mining Engineering Journal, February 2011, PP-31-36
4. M.Ramulu, P.B.Choudhury, **A.G.Sangode** and A.K.Soni, 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. M.Ramulu, **A.G.Sangode** and A.Sinha, Assessment of Blast performance with prilled ANFO and Emulsion explosive at Maihar cement Limestone mine, "Visfotak" explosive safety & Technology Journal, Vol.No.6: December 2011, ISSN:0976-4070
6. More.Ramulu, **Anand.Ganpatrao.Sangode** and Amalendu.Sinha, Blast optimization with in situ rock mass characterization by seismic profiling at an opencast coal mine in India (Research Online, <http://ro.uow.edu.au>) 16-17 Feb'2012 pp-387-396

Conferences/Seminar/Symposia/workshop

- 1 **A.G.Sangode** and Manish Kumar (2007): Heavy Mineral sand deposits exploration and prospectivity of the Murray and Eucla Basins in south Australia. Proceedings, National seminar on Mining Technology-Present and Future-2007, Bhubaneshwar, India, pp. 137
- 2 **A.G.Sangode** and Manish Kumar (2008): Environmental Consequences of Mining Sea Sands. 23rd National Convention of Environmental engineers-2008, Ranchi, India
- 3 **A.G.Sangode**, V.J.Loveson, V.K.Singh and Manish Kumar (2008): Placer Mining: Innovation in Mining Methods and Future prospects. Proceedings, Conference on Emerging Trends in Mining and Allied Industries (ETMAI-2008), NIT, Rourkela, India. Pp.618-629
- 4 **A.G.Sangode**, V.J.Loveson, V.K.Singh and Manish Kumar (2008): Mechanization of Excavation in Beach Placer Mining. Proceedings, National seminar on Rock-Machine interaction in excavations (ROMIE-2008), BHU-Varanasi, India. Pp.131-140
- 5 **A.G.Sangode**, V.J.Loveson, Ratnesh Trivedi and V.K.Singh (2008): Offshore Mining and its environmental Implications. Proceedings, National seminar on Environmental issues on Geotechnics and Mineral Industry (EIGMI-2008), BIT, Sindhri. pp. 99-108
- 6 **A.G.Sangode** and Manish Kumar (2008): Recovery of Ilmenite from Beach Sand Tailings, International Seminar on Mineral Processing Technology (MPT-2008), Trivendrum, India. pp.29
- 7 **A.G.Sangode**, Ratnesh Trivedi, M.K.Chakraborty and B.K.Tewary (2008): CO₂ Sequestration: An Innovative Approach. Proceedings, Seminar on "CO₂ Kick the Habit" CIMFR, Dhanbad. pp.13-21
8. **A.G.Sangode** and Ritesh Kumar (2008) Marine pollution due to exploration and dredging of offshore sand mining, Proceeding, Seminar on " Environmental Management in Mining & Allied Industries "(EMMA) BHU, Varanasi pp 100-106
9. R.Trivedi, M.K.Chakraborty, **A.G.Sangode** and B.K.Tewary (2008) A Progressive Mine Closure plan for an Opencast Limestone Mine, National Seminar on policies, status, legislation in mines, POSTALE-2008, CIMFR, Dhanbad, pp 202-208
- 10 **A.G.sangode**, Ratnesh Trivedi and Ritesh Kumar (2009) Background radiation due to Monazite sand in Kerala, RTEFPS-2009 held on Nov 02-03, 2009 at BIT Sindri Pp 223-226

11. **A.G Sangode**, Ratnesh Trivedi (2009) Exploration and Mining of Beach placer Heavy Minerals, International Workshop on winning strategies to revitalize Mineral/coal (WSRMS) Dept of Mining Engg, NITK Suratkal
12. **A.G Sangode** and Ratnesh Trivedi (2009) Risk Management for Reclamation and Closure of Mines, International Symposium on Rock Mechanics & Geo-Environment in mining and allied Industries (RGMA) BHU, Varanasi
13. , th lxxksM ,oa jRus" k f=osnh , dkcZu dks e`nk esa HkaMkfjr djuk oSf"od m'.krk dh vksj ,d lKfKZd igy" lK;kZoj.k ds ifjis{k esa oSf"od m'.krk fnukad 3 vxLr 2009 dks jk'V^{ah}; leqnz foKku laLFkku xksok esa vk;ksftr jk'V^{ah}; lxxks'Bh] 24
- 14 **A.G.Sangode**, Ratnesh Trivedi (2009) Dredging operations and its various potential environmental stresses, International Seminar on prospects of marine sediments as resource base for a growth of mankind 5-7 Oct, 2009, deptt of geology Andhra University, Visakhapatnam.
- 15 **A.G.sangode** and Kshitindra Kr Singh (2010), Post Tsunami Water Intrusion in Beaches, Proceeding of 3rd International Conference on Hydrology and watershed Management, 3-6 Feb. 2010 at Jawaharlal Lal Technical University, Hyderabad pp 1382-1386
16. Kshitindra Kr Singh, Mukesh Kr Mahato, **A.G.Sangode**, A.K.Singh B.K.Tewary (2010) Chemical Characterization and Quality assessment of Mine Water for suitability of Domestic and Agriculture purpose of Raniganj Coalfield West Bengal, Proceeding of 3rd International Conference on Hydrology and Watershed Management, 3-6 Feb 2010 at Jawaharlal Lal Technical University, Hyderabad pp 908-919
17. M.Ramulu, **A.G.Sangode** and A.Sinha, Blast optimization with in situ rock mass characterization by seismic profiling at an opencast coal mine in India, 12th Coal Operators conference, University of Wollongong & The Austrasian Institute of Mining and Metallurgy, 2012, 387-396
18. M.Ramulu, **A.G.Sangode**, S.Chatte, P.B.Choudhury and A.K.Jha, Application of refraction seismic survey for rippability assessment of rock mass at an iron ore mine in Karnataka, Minetech'11 Nov 18-19 2011 Raipur pp 87-92
19. M.Ramulu, **A.G.Sangode** and A.Sinha, Blast optimization and productivity improvement at head race tunnel of lohari-nag pala hydroelectric power project, uttarakhand, INDOROCK'2011, 13-15 October 2011, Roorkee, pp 243-249
- 20 J.C.Jhanwar, **A.G.Sangode**, C.P.Verma and A.K.Ghosh, Slope stability of the Iron Ore Mine in Goa Region in India, 25th National Convention of Mining Engineers & POSTALE-2013, Dhanbad, pp 120-125.
- 21 J.C.Jhanwar, P.B.chaudhary and **A.G.Sangode**, Design of the ultimate pit slope of a coal mine operating under the constraints of complex geomining condition, Advance Mine Tech, Jhodpur 10-11 January 2014, pp 148-151.
22. M.N.Bagde, **A.G.sangode** and G.G.Manekar, Empirical and Numerical Approaches to design stoping operations for thick and wide orebody at Kandri Mine of MOIL Ltd, National conference on challenges in 21st Century Mining-Environment & Allied Issues, pp 199-204
- 23 J.C.Jhanwar, **A.G.Sangode**, Geotechnical investigation for the stope design of an opencast Rock Phosphate Mine, All india Seminar on Mining-Recent Advances, Challenges & scenario Beyond 2015 (MRACSB 15-2014) 8th to 9th November 2014, pp 120-125.
24. M.N.Bagde, **A.G.sangode**, Numerical study to design stoping operation with sand filling in the case of thick and wide orebody with complex geology, 8th Asian Rock Mechanics Symposium, ARMS8, 14-16 October 2014, Sapporo, Japan , pp 199-204

25-MkW- vHk; dqekj lksuh ,oa vkuan x.kirjko lkaxksMs -[kkn v;Ld iksV^k% [kuu ,oa vk;kr&fu;kZr dk ,d laf{kIRk fo'ys" k.k ,oa Hkfo"; gsrq fn'kk ekxZ- , jk'V^{ah}; leqnz foKku laLFkku xksok esa vk;ksftr jk'V^{ah}; lxxks'Bh] 2015

10. Number of Books authored/edited: NIL

11. (a) No. and details of Patents granted/applied for: NIL
(b) Technologies developed, Licensed and/or commercialized:

12. Foreign visits: NIL

13. Details of Professional memberships:

National Institute of Small Scale Mining (NISM)	M
Explosive Safety & Technology Society (ESTS)	LM

14 . Major contributions: (Max.150 words): Handled one blasting project independently with the help of senior colleagues. Controlled blasting technique with the help of Bottom Hole initiation using Nonel shocktubes (attempted at Boregaon stone quarry). Vibration monitoring & Data analysis (FFT for dominant excitation frequency & Regression analysis for safe maximum charge per delays based on DGMS guidelines). Structural mapping & analysis of joints orientation details vis a vis pit slope using software Dips-6.0. Slope monitoring-measurement/reading using Total station (attempted at Maton Rock phosphate mine of HZL)

15. Technologies and Products/ Services : Nil

- (i) Developed:**
- (ii) Licensed:**
- (iii) Commercialized:**

16. Designs and Prototype Developed: Nil

17. Honours and awards won for technological contributions or sociological impact of R&D: Nil

(Anand G Sangode)

Signature