

List of Papers published/accepted in various conference/seminar and journals (till 2010)

JOURNALS

1. **Kumar, D & Das, S. K.** An Experimental Study of the Parameters influencing Ultimate Bearing Strength of Weak Floor Strata, Geotechnical and geological journal, 2005, Volume 23, Issue 1.
2. **Kumar, D. Das. S. K.** Floor Bearing Characteristics of Jointed and Layered Rock Foundation, *Electronic Journal of Geotechnical Engineering*, EJGE, www.ejge.com, Vol. 9 - 2004
3. **Kumar, D. Behera, P.K. & Singh, U. K.** Shotcreting in Rock Excavation and its Adhesion Strength, *Electronic Journal of Geotechnical Engineering*, EJGE, www.ejge.com, Vol. 7 - 2002
4. **Kumar, D & Das, S. K.** Bearing Strength Analysis of Weak Floor Jointed and Layered Rock mass by Physical Simulation, *Mining Engineers Journal (A publication of MEAI)*, Vol. 3. No.8, March 2002: 18-26.
5. **Kumar, D & Das, S. K.** Estimation of Weak Floor Strata Properties and Their Influence on Floor Bearing Strength through Physical Modeling Technique, *Journal of The Institution of Engineers (India)*, Vol. 82, Feb. 2002: 48-51.
6. **Kumar, D & Das, S. K.** Investigation into Floor Bearing Strength of Indian Coal Measure Strata by Physical Modeling, *Mintech*, Vol. 22, No. 5&6, Sep – Dec. 2001: 27-42.
7. **Mukhopadhyay. S. K. & Kumar D. K.** Why Longwall in India has not succeeded as in an Other Developing Country like China, *Journal of The Institution of Engineers (India)*, Vol 84, Feb 2004: 43 –55.

Conferences/Seminar/Symposia/workshop

8. **Kumar, D & Das, S. K.** Bearing Strength of Jointed and Layered Rock Foundation: - A physical simulation approach, 12th Pan-American Conference on Soil Mechanics and Geotechnical Engineering and the 39th U.S. Rock Mechanics Symposium, Soil and Rock America 2003, June 22-25, 2003, MIT, USA.
9. **Kumar, D. Behera, P.K. & Singh, U. K.** Shotcreting in underground excavation and influence of various parameters on its adhesion strength, ITA World Tunneling Congress 2003, Amsterdam, (Re) Clamming the Underground Space, The Netherlands, 12th -17th April, 2003.
10. **Kumar, D & Das, S. K.** Experimental Investigation into Floor Bearing Strength of Weak Floor Jointed Rock Mass, Second International Conference on New Development in Rock Mechanics and Rock Engineering October 10 to 12, 2002, Shenyang, P. R. China.
11. **Kumar, D & Das, S. K.** Experimental Investigations Into Floor Bearing Strength of Jointed and Layered Rock mass, The 5th International Conference on Analysis of Discontinuous Deformation 7-11 October 2002, Wuhan, P.R.China, Ben-Gurion University of the Negev Beer Sheva, Israel.
12. **Kumar D & Das, S. K.**, Bearing Strength of Model Scale Footing on Simulated Underground Weak Floor Strata, MEET 2002, International Conference organized by MGMI, Calcutta 26-28 Sep, 2002
13. **Kumar, D & Das, S.K.** Prediction of Bearing Strength of Weak Floor Strata with regards to Plate Size Effects, International Conference "Modern Management of Mine Producing, Geology and Environmental Protection" - SGEM 2002, 9 -13 June, 2002. BULGARIA, Varna city.
14. **Kumar, D & Das, S. K.** Experimental Investigation into Bearing Strength of Weak Floor Strata in Underground Mines, *National Symposium on Sustainable Mining Technology: Present and Future, SMINETECH- 2002*, Dept. of Mining Engineering Anna Univ., 14-15 March, 2002.
15. **Kumar, D & Das, S. K.** Bearing Strength Analysis of Weak Floor Jointed and Layered Rockmass, *National Conference on Strata Control in Coal Mines, NCSCCM – 2001*, The Singareni Collieries Co. Ltd. 25 –26 November, 2001:52-62
16. **Kumar, D. Behera, P.K. & Singh, U. K.** Shotcreting in Rock Excavation and its Adhesion Strength, *National Seminar on Problem & Prospect of Bord and Pillar Mining in the New Millennium, PPBP-2001*, 23 –24, Nov. 2001, Department of Mining & Geology, Bengal Engineering College, Howrah: 69-75.

17. **Kumar, D & Das, S. K.** Evaluation of Floor Bearing Strength of Indian Coal Measure Strata by Physical Modeling, *National Seminar on Rock Excavation Techniques, RockEx 2001*, 21-22 September 2001, The Indian Mining and Engineering Journal: 28-39.
18. **Kumar, D & Das, S. K.** Non-Linear FEM Analyses of Bearing Strength of Footings in Weak Floor Jointed and Layered Rock Mass, *TAMSEM- Conference on Technology and Management for Sustainable Exploitation of Minerals and Natural resources*, 5-7 February, 2004, Kharagpur, India
19. **Kumar, D & Das, S. K.** Experimental and FEM Analysis of Bearing Characteristics of Weak Floor Jointed and Layered Rock Mass, *AGTE- 2005, All India Conference on Advances in Geotechnical Engineering*, 22-23 January, 2005, NIT Rourkela, India
20. **Kumar, D & Das, S. K.** Non-Linear FEM analysis of Floor Bearing Characteristics of Weak Rock Foundation, *ICTACEM 2005, International Conference on theoretical, Applied, Computational and Experimental Mechanics*, IIT Kharagpur
21. **Suresh. R. & Kumar, D.** Lossless Data Compression using the BWT (Burrows-Wheeler transform) *ICET – 2004, International Conference on Emerging Technology*, 22-24 December 2004, KIIT Deemed University, Bhubaneswar.
22. **Kumar, D. Jena, V. Sahu, S. Behera S.,** ERP in mining Sector: A case study, *International symposium on Advances in Mining Technology and Management, AIMM – 2005*, Nov. 30 – Dec. 2 , 2005, IIT Kharagpur
23. **Bahuguna, P. P. Kumar, D. and Kumar, S.** State –of –the –art Survey Instruments and their Applications in Coal Mines, *Workshop on Advanced Surveying for Coal Mining*, Jan. 7 – Jan. 8 , 2006, DGMS, Dhanbad.
24. **Kumar, D. Jha, S. and Somani, N.,** Computerized Maintenance Management Systems (CMMS) for mining industries, *All India Conference on Advances in Computer and Information Technology (ACIT - 2006)*, Organized by Institution of Engineers India Ltd., March 11 –12, 2006,
25. **P. P. Bahuguna, Kumar, D. and Kumar, S.** Modern Survey Instruments and their use in Mine Surveying, *Indian Conference on Mine Surveying (ICMS - 2006)*, Organized by Department of Mining Engineering, ISM Dhanbad., September 8 –9, 2006,
26. **P. P. Bahuguna, Kumar, D. and Kumar, S.** Information Technology Enabled Volumetric Analysis of Earthworks In an Opencast Mine , *Indian Conference on Mine Surveying (ICMS - 2006)*, Organized by Department of Mining Engineering, ISM Dhanbad., September 8 –9, 2006,
27. **P. P. Bahuguna, & Kumar, D.** Application of Geographical Information System (GIS) for Opencast Coalmines, *Indian Conference on Mine Surveying (ICMS - 2006)*, Organized by Department of Mining Engineering, ISM Dhanbad., September 8 –9, 2006,
28. **Mahto V. & Kumar D.** Emerging Drilling Techniques For Underground Coal Gasification Process Wells: An Overview, *National Conference on Underground Coal Mining (UCM – 2006)*, Organized by Department of Mining Engineering, ISM Dhanbad., September 8 –9, 2006,
29. **Nath. R, Kumar P., & Kumar D.** Size Of Pillars – A Critical Study of Indian Coal Mines Regulations, *National Conference on Underground Coal Mining (UCM – 2006)*, Organized by Department of Mining Engineering, ISM Dhanbad., September 8 –9, 2006,
30. **Kumar, D. & Das S. K. ,** Stability Analysis of Spread-Footing Foundations on Weak Rock Using Non-Linear Fem Modelling, *4th Asian Rock mechanics Symposium, ISRM international Symposium 2006 (ARMS - 2006)*, Organized ISRM Singapore., November 8 –9, 2006
31. **Kumar, D.,** Emerging Trends in Information Technology Enabled Tools for Mining Industries, Emerging Trends in Mining & Allied Industries”, organized by Dept. of Mining, NIT Rourkela, November 30 – December 2, 2007.
32. **Kumar, D. & Bahuguna, P. P.,** Application of Information Technology Enabled Tools for Mine Safety & Disaster Management, 19th National Convention of Mining Engineers & National Seminar on Disaster in Mines, Organized by Institution of Engineers (I) & Dept. of Mining Engineering, ISMU Dhanbad, March 10 – 11, 2008.
33. **Kumar, D.,** Investigation into Floor Bearing Strength of Indian Coal Measure Strata by Finite Element Modeling, 6th international Symposium on Ground support in Mining & Civil Engineering, organized by SAIM & SARINE, 30 March – 03 April 2008, Cape Town, South Africa
34. **Kumar, S. Bahuguna, P. P. Kumar, D. Sarkar, B. C.,** Recent applications of GIS & GPS in Mining and allied Fields, National Seminar on Environmental Issue on Geotechnics & Mineral Industry, Organized by Dept. of Geology, BIT Sindri, April 4 - 5, 2008.

35. **V.M.S.R.Murthy** and Dheeraj Kumar (2008), Optimum blast fragmentation – An aid for enhancing crusher output in quarrying, **National Seminar on Crushing, Screening and Conveying(CS&C-2008)**, 11-12 September, Org. by ISM University, Dhanbad, pp 107-123.
36. Singh, U. K. and **Kumar, D.** A Strain Rosette Block for Measurement of In-situ Stress in Concrete Lining. In International Symposium on “*Rock Mechanics and Geo-Environment in Mining and Allied Industries*” (RGMA-09) in February 12-14, 2009; BHU, Varanasi.
37. Murthy, V.M.S.R. **Kumar, D.** Jain, P. and Dash A. K. Development of a Cuttability Index of Surface Miner for Performance Prediction in different Geomining Condition. In International Symposium on “*Rock Mechanics and Geo-Environment in Mining and Allied Industries*” (RGMA-09) in February 12-14, 2009; BHU, Varanasi.
38. **Bahuguna, P. P. and Kumar, D.**, Application of Surveying Linear Features using GPS,13th Annual International Conference and Exhibition on Geospatial Information Technology and Applications, Map India – 2010, Organized by GIS Development, Noida, 19 - 21 January, Epicentre, Apparel House, Gurgaon, India,