

Publications of Prof. R. Venugopal

1. R. Venugopal , B. Somasekhar and T.C. Rao
Flotation behaviour of low grade Magnesite deposits of Kadakola area ,
Mysore Ind. Min. Engg. J., 22/88, 1983, pp 13-16.
2. R. Venugopal, M. Vanangamudi and T.C.Rao
Statistical analysis of effect of variables in Manganese pelletization
2nd Int. Symp. on "Beneficiation and Agglomeration", Bhubaneswar, Dec.
1986, pp 276-283.
3. R. Venugopal, N. Suresh and T.C.Rao
Flotation behaviour of Limestone Fines
Nat. sem. on "Fine Particle Processing", ISM,Dhanbad, Aug. 1986.
4. R. Venugopal, N. Suresh and T.C.Rao
Characterisation studies - An important tool in the formulation of beneficiation
strategy.
Nat. Sem. on "Role of Applied Sciences in Mineral Industries", ISM,Dhanbad,
Sept. 1986.
5. R. Venugopal, M. Vanangamudi and T.C.Rao
Effect of process variables on the Green Pelletization of Particulates - A
Statistical Approach.
40th Ind. Instt. Chem. Engrs. Cong., Sindri, Oct. 1987.
6. R. Venugopal, C. Vinodkumar, G.P.Kundargi and T.C.Rao
Beneficiation of Dongri-Buzurg Dump Manganese Ore fines to battery grade
Jr. of Min. Met. Fuels (Annual Issue 1987), 4, 1987, pp 110-120.
7. R. Venugopal, M. Vanangamudi, G.P.Kundargi and T.C.Rao
Pelletization process and its application to Indian manganese ores
Chem. Engg. World, 22/1, 1987, pp 13-16.
8. R. Venugopal, M. Vanangamudi and T.C.Rao
Beneficiation of Low grade manganese dump ores
Res. Monograph on "Beneficiation of Manganese fines", Sandur, Karnataka,
1987.
9. R. Venugopal, M. Vanangamudi and T.C.Rao
Kinetic and Modelling aspects of Batch Green Pelletization - An Overview
Jr. of IE(I), V.8, May 1988, pp. 47-51.

10. R. Venugopal, M. Vanangamudi and T.C.Rao
Green pelletization as a pre-treatment step in exploitation of low grade reserves of Manganese and pyriteferous shales
Int. Symp. on Production and Processing of Fine Particles", Montreal, Canada, Aug 1988, pp 801-813.
11. R. Venugopal, M. Vanangamudi and T.C.Rao
Green Pelletization of Manganese Concentrate and Pyriteferous Shales
Trans. Ind. Instt. Metals, V.41, N.4 Aug. 1988, pp. 375-383.
12. R. Venugopal, M. Vanangamudi and T.C. Rao
Effect of Fineness of Feed on Green Pelletization Behaviour of particulates
Trans. Ind. Instt Metals, V.42 N.6, Dec. 1989, pp 521-528.
13. R. Venugopal, M. Vanangamudi and T.C.Rao
Studies on Kinetics of Green Pelletization
Miner and Met. Processing, Nov. 1989, pp. 211-212.
14. R. Venugopal, Malay Mandal and T.C.Rao
A Treatise on Froth Flotation as an interactive Phenomenon
Jr. of IE (I), V.71, May 1990, pp. 27-29.
15. R. Venugopal, A Janaki Ram and T.C.Rao
Reagent-Particle size interaction in split-feed flotation of Copper ore
Trans. Ind. Instt. Metals, V.43, N.6, Dec. 1990, pp. 356-360.
16. R. Venugopal, C.S.Prasad and K.N.Maiti
Replacement of Quartz and Potash Feldspar with Sericitic Pyrophyllite in Whiteware Manufacture
INTERCERAM, V. 40, N.2, 1991, pp 94-98.
17. R.Venugopal, M. Vanangamudi and T.C.Rao
Kinetic and Modelling studies on some Agglomeration Processes
3rd Int. Symp. on "Beneficiation and Agglomeration", Bhubaneswar, Jan. 1991, pp. 7-12.
18. R. Venugopal, S.J.Gopalakrishna, R.T.Hanumantha Rao, M.R.Patil and N.N.Gothe
Reduction of ash content in Moonidih Coal using Mozley Mineral Separator
Nat. Sem. on "Gravity Concentration", Bhubaneswar, Feb. 1992, pp 177-183.
19. R.Venugopal, D. Viswanatha, P. Sanyal and T.C.Rao
Flotation Characteristics of Chalcopyrite Ore

- Jr. IE(I), V.74, May 1993, pp 12-16.
20. R. Venugopal
R&D studies on Green or Wet Pelletization of Particulates
Jr. Min. Met. Fuels (Annual Issue, 1993), Dec. 1993, pp. 384-389.
 21. R. Venugopal, G.P.Kundargi and T.C.Rao
Resource Development through processing of Low grade Manganese Dump Ore Fines Presented at Nat. Sem. on "Energy, Environment and Resource Development for Mineral Industry", (ENRED-95), 18-19 Jan. 1995, Bhubaneswar.
 22. R.Venugopal, N. Suresh and T.C.Rao
Beneficiation and Green Pelletization characteristics of Limestone Fines Presented at Nat. Sem. on "Energy, Environment and Resource Development for the Mineral Industry" (ENRED-95), 18-19 Jan. 1995, Bhubaneswar.
 23. N.Suresh, R. Venugopal and T.C.Rao
Prediction of Performance of 76 mm Compound Autogenous Cyclone at different outlet diameters
Trans. Instt. Min. Met., Sec.C, Jan-Apr 1995, C 30 - C 36
 24. R.Venugopal, B.C.Bhattacharya and R.S.Dashora
Characterization of Magnesite of Parshad Area, Rajasthan
Trans .Ind. Cer. Society, Vol. 54 (6), Nov.-Dec 1995, pp 242-245.
 25. R. Venugopal, K. Ramamohan and B.B.Choudhary
Waste utilisation studies on Low grade Dongri-Buzurg dump manganese ores Presented at All India Symp. on "Converting Waste into Wealth", Sindri , 15-16, September, 1995.
 26. R. Venugopal
Quantitative Studies in Batch Green Pelletization
Int. Conf. on "Mineral Processing: Recent Advances and Future Trends", IIT, Kanpur, 11-15 December, 1995.
 27. R. Venugopal
Analysis and Quantification of effect of variables in Green Pelletization
Scandinavian Journal of Metallurgy, V. 25, 1996, pp 172-177.
 28. R. Venugopal, G.S.Kumar and N.N.Subrahmanyam
Characterisation and Floration of low grade (high silica) Magnesite for silica reduction
Trans. Ind. Instt. of Metals, V.49, No.1, August 1996, pp 63-66.
 29. R. Venugopal and G.Sivakumar
Studies on dewatering characteristics of beneficiated magnesite fines

Presented at Nat. Sem. on "Solid-Liquid Separation in Mineral and Metallurgical Industries", Bhubaneswar, 27-28 November, 1996.

30. R. Venugopal, C.S.Prasad and K.N.Maiti
Thermal effect on Whiteware bodies containing Sericitic Pyrophyllite
INTERCERAM, Vol.3, May 1997, pp 154-161.
31. R.Venugopal
Application of Mathematical Techniques in the analysis of Green Pelletization of Green Pelletization Process
Nat. Sem. On "Recent Trends and Advances of Mathematics and Statistics in Engineering and Technology", ISM, 28-29 November, 1997.
32. R. Venugopal
Role of Mineral Engineering education and Research in sustainable Mineral Development,
Mega Event - 98, IBM, Nagpur, 6-8 August, 1998, pp 203-208.
33. R. Venugopal and Anand Kumar
Improvement of Coal Quality - An overview with Present Indian Scenario
Proc. 31st Engrs Day on "Upgrading Professional Practice through Total Quality",
Bokaro Steel City Centre, 13th September, 1998.
34. R. Venugopal, K. Udaybhaskar, J.P.Barnwal and T.C.Rao,
Multi-gravity Separator to enrich heavy Minerals from a lead flotation concentrate Mineral and Metallurgical Processing, V.16, N.12, May, 1999, pp 61-64.
35. R. Venugopal, S. Prakash, J.K.Mohanty and B. Das
The recovery of the fine iron minerals from quartz and Corundum mixtures using selective magnetic coating.
Int. J. of Mineral processing, 57, (1999), pp 87-103
36. R. Venugopal, N. Rajendra Prasad and M.V.Rudrammniyappa
Comparative study on the performance of frothers on flotation of coal fines
Proc. Int. Symp. On "Beneficiation, Agglomeration and Environment (ISBAN-99),
Bhubaneswar, January 20-22, 1999, pp 140-146.
37. V.J.Loveson, R.Venugopal and G.V.Rajamanickam
Sustainable Placer Mineral Resource Development - Agenda for the next Millennium
Proc. Int. Sem. on Beach Placer, Thanjavur, 5-6 Dec., 1998.

38. S. Prakash, B.Das and R.Venugopal
Surface Properties of Indian Hematite and Bauxite and their Coating mechanism with colloidal magnetite
J. of Scientific and Industrial Research, Vol. 58, June 99, pp 436-442.
39. S. Prakash, B.Das and R.Venugopal,
The Recovery of Mineral Fines by Selective Magnetic Coating - A Recent Technique of Mineral Separation Control of Surface Properties.
Proc. Nat. Sem. On Recent Techniques in Mineral Processing, Waste and Environment Management, Feb. 1-2, 2000, Bhubaneswar.
40. R.Venugopal
Beneficiation - Agglomeration Techniques for Fines Processing and Utilization - Two Case Studies,
Proc. Nat. Sem. On Recent Techniques in Mineral Processing, Waste and Environment Management, Feb. 1-2 , 2000, Bhubaneswar.
41. L. Partasarathy, M.S.Sengupta, R.Venugopal and R.P.Sharma
Upgradation of technology of coal preparation for coke-making
Proc. Nat. Sem. On "New millennium challenges for chemical engineers from the Indian Iron and Steel Industries" Bhilai, 4-5 Dec., 2000.
42. S. Prakash, B.Das and R.Venugopal
Magnetic Separation of Calcite using selective Magnetite coating
Magnetic and Electrical Separation, Vol 10, pp 1-19, 1999.
43. Uday Bhaskar, K. , Barnwal, J.P., Venugopal, R and Rao, T.C.
Centrifugal Techniques for Separating Graphite in a lead concentrator
Accepted for publication in Trans. Ind. Instt. of Metals.
44. P. Pathak, R. Venugopal and Shishir Chandra
Destination India - What the Foreign investors must know?
Int. J. of Commerce and Management. IJCM Vol 10 No. 2 2000
45. C.S.Prasad, K.N.Maiti and R. Venugopal
Effects of Rice Husk Ash in Whiteware Compositions;
Ceramic International, 27(2001) pp. 629-635
46. K.Udaya Bhaskar, B. Govindarajan, K.K.Rao, J.P.Barnwal, R.Venugopal, M.R.Jakhu and T.C.Rao
Graphite rejection in a lead concentrate using gravity concentration techniques
Jl. of Metallurgy and Materials Science, Vol. 43, No.1, January-March 2001, pp.25-31

47. A.Premkumar & R. Venugopal
Effect of Variables and Prediction of Size Spectra in Disc and Drum Pelletization
Presented in the proceedings CORAS 2001: Sept 25-26, 2001, Ranchi
48. C.S.Prasaad, K.N.Maiti & R.Venugopal
Effect of silica fume addition on the properties of whiteware compositions
Ceramics International 28 (2002) 9-15
49. R. Venugopal
Industrial waste utilisation - an imperative for sustainable mineral development
Proceedings of the National Seminar on Management of Industrial Effluents and
Wastes, Dec. 19-20, 2001, RRL, Bhubaneswar, pp.91-95
50. S.K.Pan, M.P.Srivastava, N.Prasad & R.Venugopal
Application of Floatex Density Separator for upgrading quality of Kiriburu Iron
Ore Slimes
Bi-annual Technical Jr. for the Iron and Steel Industry, Steel India, V. 25, No.1
April 2002, pp. 15-22.
51. S.K.Pan, M.P.Srivastava, S.K.Mukherjee & R. Venugopal
Introduction of water-only -cyclone in Meghahatuburu iron ore processing plant
for quality improvement in iron ore fines
MPT-2003, Feb. 6-8, Goa
52. K.Udaya Bhaskar, B. Govindarajan, K.K.Rao, J.P.Barnwal, R.Venugopal,
M.R.Jakhu and T.C.Rao
Performance and modelling studies of an MGS for Graphite rejection in a lead
concentrate, **Int'l Journal of Mineral Processing, Vo.67 (2002) p. 59-70.**
53. Nikkam Suresh, R. Venugopal and T.C.Rao
Analysis of Particle Size Effects in Limestone Flotation. **MPT-2002, Bangalore**
54. R.Venugopal, C.S.Prasad and K.N.Maiti
Utilization of sericitic pyrophyllite in whiteware manufacture - A case study of
waste to wealth, **MPT- 2003, Feb. 6-8, 2003 Goa.**
55. M.M.Konar, N.Suresh & R. Venugopal
Importance of characterization in development of beneficiation strategy – A case
study of beneficiation of limestone to SMS grade. **MPT-2003, Feb 6-8, 2003 Goa**
56. S.K.Pan, M.P.Srivastava, S.K.Mukherjee & R. Venugopal
Introduction of water only cyclone in Meghahatuburu iron ore processing plant
for quality improvement in iron ore fines. **MPT-2003, Feb 6-8, 2003 Goa**
57. Siddhaarth Vivek, Sachin Saxena & R.Venugopal

Preliminary studies on beneficiation of garnet beach sand off Tamil Nadu coast.
MPT-2003, Feb 6-8, 2003 Goa.

58. Ajit Singh Choudhary, Avlesh Kumar Singh, Siddarth Vivek and R.Venugopal
Statistical Analysis of coal flotation – An Important Prelude To Process
Optimization. **Int'l conference on QAMP, 3-4 July, 2003, Bhubaneswar.**
59. Anil Kumar Mishra , S.Chattopadhyaya and R.Venugopal
Development of MATLAB Program for the selection of bulk material
handling equipments considering different critical parameters.
National Seminar, CARTM, Kalyani, West Bengal, 2003.
60. R.Venugopal
Beach placer mineral processing – some contributions and future needs.
Placer-2004, 31st January-2nd February, 2004, New Delhi
61. V.K.Sinha, Y.S.Pateel, N.R.Mandre & R.Venugopal
Beneficiation of Synthetic Mixtures of Beach Sand Minerals Using Gravity
Concentration.
Placer-2004, 31st January-2nd February, 2004, New Delhi
62. Pragya Gupta, Sumit Singh and R.Venugopal
Kinetic Analysis of Green Pelletization Process. MPT-2004, Bhubaneswar,
19- 21 Feb.2004.
63. B.C.Bhattacharya, Yerriswamy Pateel, R.S.Dashora and R. Venugopal
Characterization of Magnesite of Parshad area district, Udaipur, Rajasthan.
MPT-2004, Bhubaneswar, 19-21 Feb.2004.
64. S.K.Pan, S.K.Mukherjee, M.P.Srivastava and R. Venugopal.
Technology upgradation at Meghahatuburu slime beneficiation system.
MPT-2004, Bhubaneswar, 19-21 Feb.2004.
65. M.N.Tiwari, Yerriswamy Pateel and R.Venugopal.
Green pelletization behaviour and mathematical modeling of Kiriburu-
Mehathahaburu iron ore fines. MPT-2004, Bhubaneswar, 19-21 Feb.2004.
66. R. Venugopal and T.C.Rao
Prediction of Agglomerate Size Spectra of Two particulate Agglomeration
Processes. Communicated to Trans Tech Publication, Germany
67. B.C.Bhattacharya, R.S.Dashora and R. Venugopal
Geological and Mineralogical Characteristics of Parshad Magnesite Deposit,
Rajasthan and its Amenability to Beneficiation
68. S.Prakash, J.K.Mohanty, B.Das and R.Venugopal
Characterisation and removal of Iron from Fly ash of Talcher Area, Orissa. India

Mineral Engineering, Vol. 14, No. 1, 2001, pp 123-126

69. S.Prakash, B.Das, B.K.Mohapatra and R.Venugopal
Recovery of Iron Values from iron ore slimes by Selective Magnetic Coating.
Separation Science and Technology, 35, 16, 2000 pp 2651-1662
 70. S.Prakash, B.Das and R.Venugopal
Recovery of minerl fines by selective magnetic coating.
Proceedings of National Seminar on Recent Techniques in Mineral Processing,
Waste and Environmental Management, Feb 1-2, 2000, Bhubaneswar, Allied
Publishers Limited, New Delhi.
 71. K.Srinivas, T. Sreenivas , N.P.H.Padmanabhan & R.Venugopal
Studies on the application of alkyl phosphoric acid ester in the flotation of
wolframite.
Mineral Processing & Extractive Metall. Rev. 25:253-267,2004
(Taylor & Francis)
- Communicated to Indian Journal of Geology**
72. M.M.Konar and R.Venugopal
Flotation Performance Analysis of Bulk and Classified Feed Fines
Communicated to Chemical Engineering Communication, USA
 73. R. Venugopal and Harendra Mishra
Split Feed Processing and Pelletization of Patherdih Coal Fines
Communicated to Coal Preparation.
 74. M. Sundarrajan, R. Venugopal, V.J.Loveson, and A. Chattopadhyay.
Environmental Application of Population Balance Modelling in the Analysis of
suspended solids of Coal washery effluents
Communicated to Coal Preparation.
 75. L. Parthasarthy, M.K.Sharma, R.Venugopal and R.P.Sharma
New Approach for Optimization of preparation of Indian Coal for Coke Making
Communicated for publication in "Fuel", Oxford.

