

Dr. Prasanna Jain

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RESEARCH THEME:

Evaluation of Engineering Geological and Geotechnical Properties for the Performance of a Tunnel Boring Machine in Deccan Traps Rocks – a Case Study from Mumbai, India

POSITION OF RESPONSIBILITY

- Joined National Institute of Rock Mechanics as a Scientist-B in July, 2009.
- Worked as a Geologist (Mar, 2008-June, 2009) with Hindustan Construction Company Ltd. Mumbai.
- Junior Research Fellow at ISMU, Dhanbad (2007-2008).

COMPUTER SKILL

- Microsoft office
- Auto CAD

WORK EXPERIENCE

Experience in excavation by Surface Miner, tunnelling by TBM, geological mapping, geotechnical investigation, drill core logging and 3-D mapping of shafts and tunnels. DPR stage engineering geological investigation of MGSS hydroelectric project, construction stage engineering geological investigations of Rajasthan Atomic Power Project Units 7&8 and strategic storage of crude oil cavern project at Padur.

PUBLICATIONS

International Journal (1)

Prasanna Jain, A.K. Naithani and T.N. Singh, 2014: Performance characteristics of tunnel boring machine in basalt and pyroclastic rocks of Deccan traps – A case study. *Journal of Rock Mechanics and Geotechnical Engineering*, Vol. 6 (1), pp 36–47.

Indian Journal (2)

A.K. Naithani, L.G. Singh, **Prasanna Jain**, Devendra Singh, Rabi Bhusan and P.C. Nawani, 2011: Engineering geological evaluation of the underground water conducting system of Malshej Ghat PSS Project, Maharashtra, India. *Journal of Engineering Geology*, Vol. 37, Nos 1-4, pp 189 - 198.

Prasanna Jain, A.K. Naithani and T.N. Singh, 2011: Application of tunnel boring machine for the construction of Maroshi – Ruparel College tunnel, Mumbai, India. *Journal of Engineering Geology*, Vol. 37, Nos 1-4, pp 151-159.

International Conferences/Symposium (5)

A. K. Naithani, L.G. Singh, D.S. Rawat and **Prasanna Jain (2014)** Engineering geological assessment of the north wall of surge pool and rock ledge between surge pool and pump house of mahatma gandhi kalwakurthi lift irrigation scheme-ii (5x30 mw), mahaboobnagar District, telangana state, india. International Symposium – “ROCK INDIA 2014 – Present Technology and Future Challenges and Workshop on “Open Pit Mining”, New Delhi,India. Pp 103-112.

Prasanna Jain, A.K. Naithani and T.N. Singh (2011), Application of Tunnel Boring Machine for the construction of Maroshi - Ruparel College Tunnel, Mumbai, International Conference on Underground Space Technology and the 8th Asian Regional Conference of IAEG, 17-19 January, Org. by NIRM, ISEG and IAEG, Bangalore.

A.K. Naithani, L.G. Singh, **Prasanna Jain**, Devendra Singh, Rabi Bhusan and P.C. Nawani (2011), Engineering Geological Evaluation of the Water Conducting System of Malsjei Ghat PSS Project, Maharashtra, International Conference on Underground Space Technology and the 8th Asian Regional Conference of IAEG, 17-19 January, Org. by NIRM, ISEG and IAEG, Bangalore.

V.M.S.R.Murthy, Dheeraj Kumar, **Prasanna Jain** and Ashis Kumar Dash (2009), Development of a cuttability index of surface miner for performance prediction in different geominig conditions, International Symposium on Rock Mechanics and Geo-environment in Mining and Allied Industries (RGMA-09), 12-14 February, Org. by IT-BHU, Varanasi, pp.156-171.

Prasanna Jain, Pushpendra Meena and V. M. S. R. Murthy, (2007), Mass Production of Coal Using Continuous Surface Miner – An Eco-frindly Technology of Future, 1st International Conference on Managing The Social and Environmental Consequences of Coal mining In India, November 19 – 21, pp 681 – 690, (New Delhi).

National Conferences (4)

P.Meena, Manish Kumar, **Prasanna Jain** and V.M.S.R.Murthy (2008), Performance analysis of surface miner in Indian coal mines- A case study, Conference on Emerging Trends in Mining and Allied Industries, NIT, Rourkela, February, pp57-65.

D.S. Rawat, A.K. Naithani, L.G. Singh, **Prasanna Jain** and G. Srinivasa Rao, 2014: Construction stage engineering geological assessment of a lift irrigation tunnel – a case study. Proc. of the National Seminar on Innovative Practices in Rock Mechanics, (Sripad R. Naik, A.K. Naithani and V.R. Balasubramaniam eds.), Publ. by NIRM, pp 60-64.

Manoj Kumar, **Prasanna Jain**, L.G. Singh and A.K. Naithani, 2014: Rock support assessment for unit-1 of unlined underground strategic crude oil storage cavern project, Padur, India. Proc. of the National Seminar on Innovative Practices in Rock Mechanics, (Sripad R. Naik, A.K. Naithani and V.R. Balasubramaniam eds.), Publ. by NIRM, pp 94-102.

Prasanna Jain, Manoj Kumar, A.K. Naithani and D.S. Rawat, 2014: Hydro-confinement systems of underground unlined rock caverns for strategic storage of crude oil – A case study. Proc. of the National Seminar on Innovative Practices in Rock Mechanics, (Sripad R. Naik, A.K. Naithani and V.R. Balasubramaniam eds.), Publ. by NIRM, pp 290-297.