

Faculty Profile

- 1) **Name** – Dr. Vivek Kumar Kashi
- 2) **Designation** – Assistant Professor, Department of Mining Engineering
- 3) **Teaching Areas** – Mine Environment
Mine Ventilation
Mine Machinery
Rock Mechanics
Stress-Strain Analysis
Surface Mining
Sustainable Mining
- 4) **Research Interests** – Haul Road Dust Suppression, Water Soluble Polymer Application in Mines, Fly Ash Utilization, Mine Environment, Characterization and Estimation of Respirable Particulate in Opencast,
- 5) **Education** –
 - Ph.D: IIT-BHU, Varanasi (2021)
 - M.Tech: NIT Rourkela (2015)
 - B.Tech: KIIT University (2013)
- 6) **Research (Publications/Presentations):**

Journal papers:

1. Vivek Kumar Kashi, N. C. Karmakar & S. Krishnamoorthi, "**A Critical Review of Haul Road Opencast Mines Fugitive Dust. Part–I: Genesis, Characteristic and Impact**", *Indian Journal of Environmental Protection*, Vol. 40 (1), pp- 57-63, 2020.
2. Vivek Kumar Kashi, N. C. Karmakar, S. Krishnamoorthi, Ekta Sonker, Pubali Adhikary & Rudramani Tiwari, "**Reducing the Dust Generation of Haul road by Improving Water**

Holding Capacity with the Application of Synthesised Polyacrylamide at Laboratory Condition”, *Nature Environment and Pollution Technology*, Vol. 19 (1), pp- 413-419, 2020.

- 3. V. K. Kashi, N. C. Karmakar and S. Krishnamoorthi, “Study on Opencast Coal Mine Haul Road Dust Suppression Using Guargum Grafted Polyacrylamide”, *Journal of Mines, Metals & Fuels*, vol. 70, no. 5, pp. 242-250, 2022.**

Conference paper:

- 1. V. K. Kashi, N.C. Karmakar & S. Krishnamoorthi, “*DUST SUPPRESSION FOR HAUL ROADS OF OPENCAST COAL MINES – A LABORATORY STUDY USING POLYACRYLAMIDE POLYMER*”, Proceeding in Technological Advancements and Emerging Mining Methods, Dhanbad-India (TAEMM-2018), 24-25 August 2018, pp 69-77.**
- 2. Vivek Kumar Kashi, Penchala Abhishek, N. C. Karmakar & S. Krishnamoorthi “*Surface Coal Mine Haul Road Dust Suppression Using Hydrolysed Amylopectin grafted Polyacrylamide*”, Proceeding in 2nd International Conference on Opencast Mining Technology & Sustainability, Northern Coalfields Limited, Singrauli, India (ICOMS-2019), 13-14 December 2019, pp 68-71.**