

1. Name: Kolikipogu Nageswara Rao

2. Date of Birth: 14/05/1994

3. Current Position and Address:

Technical Officer,
Room No. 16, Main building,
Geomechanics and Numerical Simulation section,
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4. Educational qualifications: (Graduation and above)

Sl. No.	Degree	Year of Passing	University/Institute	Subject
1	B.Tech	2015	University College of Engineering, Kakatiya University, Kothagudem, Telangana	Mining Engineering
2	M.Tech	2018	IIT (Indian School of Mines), Dhanbad, Jharkhand	Mining Engineering

5. Work experience:

Designation	Institute/company	From	To	Nature of Work
Project Assistant	CSIR-CIMFR, Dhanbad, Jharkhand	04/06/2018	27/11/2018	Research and Development
Technical Officer	CSIR-CIMFR, Dhanbad, Jharkhand	29/11/2018	Continuing	Research and Development

6. Work Area(s)/ Specialization: Underground Coal and Metal Mining, Strata Mechanics, Numerical Modeling

7. Major contributions: (Max. 100 words):

As a mining engineer, it's my privilege to work in this institute where the research is dedicated to the field of mining. Currently, I have been involved in diversified works for the development and application of new mining technologies along with the Mining methods and Geomechanics research group of the institute. I have been involved in different Grant-in-Aid projects, Sponsored Projects, and Consultancy projects to contribute significantly to the excellence of the coal and metal mining industry in the country. I have attended three national conferences and submitted three SCI/Non-SCI papers to the journals, which are under review. To be part of the success of the institute, I would like to maintain consistency in my academic and professional career.

8. No. of Research Publications:

- Papers in Journals: 03 (Three) (*Submitted and under review*)
- In conference proceedings: 03 (Three)
- Invited lectures delivered: No
- List of best 05 publications
 1. **Nageswararao K**, Budi G and Islavath S R. Stability analysis of gate roads and barrier pillar in longwall workings by using numerical modeling techniques. Proc of Recent Challenges in Mining Industry (RCMI - 2018) organized by CIMFR Dhanbad. 2018; 209 – 215.

2. Singh, Satyendra K., Sinha, R.K., Rao, **K. Nageswara rao** and Bhattacharjee, Rana (2019). Does the strength of a pillar reach a plateau with increasing effective W/H ratio? – Coal mining perspective at greater depths. 8th Asian Mining Congress. Green Mining: The way forward. November 6-9. The Mining, Geological & Metallurgical Institute of India. Kolkata, pp 415-424.
3. **K Nageswara Rao**, G Budi, P K Mandal, A J Das, J Vinod Kumar. Retrospection of the Longwall Mining for Mass Production of Coal from Indian Underground Mines. 35th Indian Engineering Congress organized by Institution of Engineers (India). December 18-20, 2020; 1173-1182.
4. G Budi and **K Nageswara Rao**. Evaluation of twin gate roads and chain pillar stability in longwall workings using field instrumentation and numerical modeling. Arabian Journal of Geosciences. **(Under Review)**.
5. Pankaj Sahu, **K Nageswara Rao** and Sunny Murmu. Evaluation of the stability of longwall workings by using COMSOL multiphysics: A case study validation. International Journal of Mining and Mineral Engineering. **(Under Review)**.
6. G Budi, **K Nageswara Rao** and Punit Mohanty. Field and numerical modelling investigations on the stability of underground strata in longwall workings. Energy Geoscience. **(Under Review)**.

9. List of 5 Major Contract R&D Projects:

S&T / Network Projects running during the period:

1. Design and stability of pillars/ arrays of pillars for different mining methods in coal mine workings. (GAP/MOC/109/2017-2018)

Sponsored Projects running during the period:

1. Instrumentation and strata monitoring of continuous miner working during development/depillaring operation in RVI seam (operated by single continuous miner), at MIC, Jhanjra Project colliery (SSP/461/2019-20).
2. Instrumentation and strata monitoring during stoping at Rampura-Agucha underground mine, HZL (SSP/428/2019-20).

Consultancy Projects running during the period

1. Advice for strata monitoring instrumentation and preparation of instrumentation plan for K2 panel of R-V seam at Khottadih Colliery, ECL (CNP/4866/2019-20).

10. (a) Name of Patents/Copyrights applied /granted/commercialized: No

(b) Technologies/Products /knowhow/Services developed : No

11. Honors/Awards/Recognitions/Fellowships/Scholarships received:

1. Merit cum Means Scholarship holder in B.Tech
2. Qualified GATE in 2018
3. College first rank holder in Intermediate
4. School third rank holder in SSC.

12. Professional Memberships

Associate member of The Institution of Engineers (India)