

Brief Bio-data

1. Name: John Buragohain

2. Date of Birth: 27.05.1968

3. Current Position and Address (Include Email ID and Contact Number):

Principal Scientist,
jburagohain@yahoo.com
9431124143

4. Educational qualifications: (Graduation and above)

Sl. No.	Degree	Year of Passing	University/Institute	Subject
01.	B.Sc.	1992	Dibrugarh University, Assam	Geology, Physics & Mathematics
02.	M.Sc.	1995	Gauhati University, Assam	Geology
03.	Ph.D.	ongoing	IIT-ISM, Dhanbad	Applied Geology

5. Work experience:

Designation	Institute/company	From	To	Nature of Work
Principal Scientist	CSIR - Central Institute of Mining and Fuel Research, Dhanbad	06.12.2001	Continuing	Research and development

6. Work Area(s)/ Specialization: Rock Mechanics

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

About 160 projects have been carried out successfully to till date since 2001 at Rock testing Department. During this period a sum of more than Rs. 26 crore (Rupees twenty six crore) of external cash flow has been generated through the departmental Projects, Testing and Calibration activities. Laboratory and field investigations were carried out to understand the characteristics of intact rock and rock mass. Most of these projects are Industry sponsored and are related to study of rock mechanical properties for design of different surface or Underground structures of short, medium and long term stability, coal bed methane extraction etc.

8. No. of Research Publications:

- Papers in Journals: 11
- In conference proceedings: 06
- Invited lectures delivered: Nil
- List of best 05 publications:

01. Buragohain, J., Mendhe, V. A., Varma, A. K., Shukla, P. Organo-lithotype controls on cleat/fractures, matrix associated pores and physico-mechanical properties of coal seams of Raniganj Coalfield, India. ACS Omega (Energy & Fuels), American Chemical Society, Vol 6, Page 31, 2021.

02. Kumar, S., Mendhe, V.A., Kamble, A.D., Varma, A. K., Mishra, D. K., Bannerjee, M., Buragohain, J., Prasad, A. K. Geochemical attributes, pore structures and fractal characteristics of Barakar shale deposits of Mand-Raigarh Basin, India. Marine and Petroleum Geology, Volume 103, Pages 377-396, 2019.

03. Mendhe, V. A., Kumar, S., Kamble, A.D., Mishra, S., Varma, A.K., Bannerjee, M., Mishra, V.K., Sharma, S., Buragohain, J., Tiwari, B. Organo-mineralogical insights of shale gas reservoir of Ib-River Mand-Raigarh Basin, India. Journal of Natural Gas Science and Engineering, Volume 59, Pages 136-155, 2018.
04. Hazra, B., Varma, A. K., Bandopadhyay, A. K., Chakravarty, S., Buragohain, J., Samad, S. K., Prasad, A. K. FTIR, XRF, XRD and SEM characteristics of Permian shales, India. Journal of Natural Gas Science and Engineering, Volume 32, Pages 239-255, 2016.
05. Behera, S. K., Mishra, D. P., Ghosh, C. N., Prashant, Mandal, P. K., Singh, K. M. P., Buragohain, J., Singh, P. K. Characterization of lead–zinc mill tailings, fly ash and their mixtures for paste backfilling in underground metalliferous mine. Environmental Earth Sciences, Vol. 78 Page 394, 2019.

- Books/Chapters authored/edited: Nil

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

01. Development of Technology for extraction of locked up coal using artificial Pillar. Nodal lab, CSIR-CIMFR, Participating Lab: CSIR-CBRI, CSIR-CMERI.

10. (a) Name of Patents/Copyrights applied /granted/commercialized: NIL

(b) Technologies/Products /knowhow/Services developed : NIL

11. Honors/Awards/Recognitions/Fellowships/Scholarships/Professional Memberships received: NIL

12. Societal Contributions:

Contributed a lot in coal mining for pillar and slope design, In railways for tunnel design and in Hydro Electric projects for foundation and different tunnel design, using the rock mechanical knowledge, for the safety and benefit of the society and to meet the energy demand of the country.