



1. Name: Dr. Vinod A. Mendhe

2. Date of Birth: 16/05/1973

3. Current Position and Address: Principal Scientist
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4. Educational qualifications: (Graduation and above):

Sl. No.	Degree/ Certificate	Year of Passing	University/ Institute	Subjects
1.	PhD	2008	Indian School of Mines, Dhanbad	Applied Geology: Coalbed Methane
2.	M.Sc.	1996	Dept. of Geology, Nagpur University	Geology

5. Work experience:

20 years as Research Scientist/Field Geologist in applied and basic area of coal geology such as coalbed methane and shale gas exploration, potentialities and production development technologies, CBM reservoir characterization, extensive coal sorption studies of Indian coals, coal and CBM reserve estimation, CBM reservoir modelling, coal mining geology, GHG emission inventories from Indian coal mining and oil and gas system, coal mine methane potentialities and feasibility, coal mine safety: categorization of coal seams for their gassiness and its safety majors, laboratory scale experiments on UCG and geologic CO₂ sequestration potentiality estimation and climate change.

6. Area of specialization: Shale Gas, Coalbed Methane, Coal Geology, Coal and Shale Petrography, Pore Analysis, Sorption Studies, GHG Emission, Gassiness of Mines, CMM/VAM and ECBM/ESGR/CO₂ Sequestration in Geologic Formations.

7. Honours/Awards received:

8. Fellowships/Scholarships: CSIR-JRF-NET and GATE qualified

9. No. of Research Publications:

- Papers in journals: 17
- In conference proceedings: 37
- Book Chapters : 10
- Invited/key-note addresses: 10
- List of best 05 publications:

1. Vinod Atmaram Mendhe, Subhashree Mishra, Atul Kumar Varma, Alka D.Kamble, Mollika Bannerjee, and Tanmay M. Sutay, (2016). Gas Reservoir Characteristics of the Lower Gondwana Shales in Raniganj Basin of Eastern India, Journal of Petroleum Science and Engineering (Elsevier), (Under Review).

2. Subhashree Mishra, Vinod Atmaram Mendhe, Alka D. Kamble, Mollika Bannerjee and Atul Kumar Varma (2016). Prospects of Shale Gas Exploitation in Lower Gondwana of Raniganj Coalfield, West Bengal, India, Journal “The –Palaeobotanist”, 65 (2016): 31-46, 0031-0174/2016.
3. Vinod Atmaram Mendhe, Alka D. Kamble, Mollika Bannerjee, Subhashree Mishra, Sabita Mukherjee and Parashar Mishra (2015). Evaluation of Shale Gas Reservoir in Barakar and Barren Measure Formations of North and South Karanpura Coalfields, Jharkhand, Journal of Geological Society of India, Journal - Springer (Accepted manuscript in press).
4. Vinod Atmaram Mendhe, Subhashree Mishra, A. K. Varma, A. P. Singh, (2015). “Assessment of coalbed methane produced water and its management options in Raniganj Basin, West Bengal, India”, Applied Water Science, Journal – Springer, DOI 10.1007/s13201-015-0326-7.
5. Varma, A.K., Hazra, B., Vinod Atmaram Mendhe, Chinara, I., Dayal, A.M., (2015). Assessment of organic richness and hydrocarbon generation potential of Raniganj basin shales, West Bengal, India. Marine Petroleum Geology, Journal - Elsevier, Vol. 59, pp.480–490.

10. Number of Books authored/edited:

6. (a) No. and details of Patents granted/applied for:
Temperature controlled desorption canister for measurement of in-situ gas content of coal and shale gas core samples

(b) Technologies developed, Licensed and/or commercialized:

12. Foreign visits: China, USA, Norway, Sweden and Denmark.

13. Details of Professional memberships:

- Fellow - Geological Society of India, Bangalore
- Life member - Indian Science Congress Association (ISCA), Kolkata
- Life member - Association of Geochemistry, Hyderabad
- Life member - Jharkhand Geo-Scientist Association (JGSA), Ranchi
- Life member - The Gondwana Geological Society (GGS), Nagpur
- Life member - Indian Mining and Engineering Journal Readers Forum, Bhubaneswar
- Life member - Indian Geological Congress, Roorkee
- Life member - Indian Mine Managers Association, Dhanbad

14 . Major contributions: (Max.150 words)

Currently, leading shale gas project funded by Ministry of Coal, Govt. of India and successfully completed about 98 R&D projects sponsored by Govt., public and private sector agencies. Published more than 74 research papers, designed and developed indigenous gas desorption canisters, multi-valve desorption measurement apparatus for measurement of *in-situ* gas content of coal core samples retrieved during exploratory drilling and facilities for construction of high-pressure adsorption isotherm of methane, carbon dioxide and their mixture in coal, permeability and porosity measurement system under reservoir simulated confining pressure. Developed expertise in CBM/Shale gas reservoir modeling with CO₂-ECBM and also ESGR for better understanding of the phenomena associated with methane production. Visited China, USA, Norway, Sweden and Denmark and also member of editorial board and reviewer committees.

15. Technologies and Products/ Services

- (i) Developed: Temperature controlled desorption canister for measurement of in-situ gas content of coal and shale gas core samples. Multivalve desorption measurement setup for five coal/shale core containing canisters.
- (ii) Licensed:
- (iii) Commercialized:

16. Designs and Prototype Developed: Designed prototype for underground coal channel gasification with steam air blast.

17. Honours and awards won for technological contributions or sociological impact of R&D:

- Member in Editorial Board of International Journal of Geology, Earth & Environmental Sciences (JGEE)
- Reviewer of Journal of Geological Society of India –Springer
- Reviewer of Project Proposal related to coal/CBM//shale gas/CO₂ sequestration – Department of Science and Technology and Ministry of Earth Sciences, Govt. of India

Signature