

Prof. Shyam N. Mude, Ph.D.

Present position

- Professor and Head, Department of Geology

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Work Experience

- Teaching: 16 years
- Research/Industrial: 16 years

Personal Profile

Presently working as Professor and Head in Department of Geology, Fergusson College (Autonomous), Pune-4. I have sixteen years of teaching and research experience. I have guided 03 Ph.D. and 20 M.Sc. dissertation students, presently 05 Ph.D. students are working under my guidance. I have published 40 research papers in national and international journals. I have participated in various workshops and conferences. I have organized 01 National and 01 International Conference.

Course(s) Taught (Only Titles)

1. Geology of India I
2. Geology of India II
3. Techniques in Sedimentology
4. Petroleum Geology
5. Paleontology
6. Engineering Geology
7. Minerology
8. Earth System and Science

Field of Specialization/Areas of Interests

- 1 Micropalaeontology and Ichnology
- 2 Sedimentology
- 3 Sediment Geochemistry

Education

- Ph.D. (Geology):2002 to2008
Title of the Thesis: Neogene - Quaternary fossil calcareous algae and Ichnofossils from Porbandar district, Gujarat, India

Name of University / Institution: Rashtrasant Tukadoji Maharaj Nagpur University

Year of Award: 31th December 2008
- Master of Science/Arts- (Geology): 2001, Rashtrasant Tukadoji Maharaj Nagpur University
- Bachelor of Science- (Geology):1999, Gurunanak College of Science, Ballarpur, Rashtrasant Tukadoji Maharaj Nagpur University

Fellowship/Awards/ Certifications/Achievements/Recognitions

1. Dr. Kapil Pasin Gold Medal, Topper in M.Sc. Geology, RTM Nagpur University, Nagpur , 2002
2. INSA Visiting Scientist Fellowship 2017-2018

Member of College Committees/ Professional Bodies and Others

College Level	Professional Bodies	Others
<ul style="list-style-type: none">• Chairman, BoS in Geology• Member Research Committee	<ul style="list-style-type: none">• Geological Society of India, Bangalore• The Palaeontological Society of India, Lucknow	<ul style="list-style-type: none">• External Subject Expert, Departmental Research Committee, Department of Geology, Savitribai Phule Pune University, Pune• External Subject Expert, Departmental Research Committee,

	<ul style="list-style-type: none"> • The Indian Geological Congress", Roorkee, India • The Gondwana Geological Society of India", Nagpur • The Himalayan Geology", Dehra Dun • American Association of Petroleum Geologist, Inc, Talsa, Oklahoma, USA. 	<p>Department of Geology, The Maharaja Sayajirao University of Baroda</p> <ul style="list-style-type: none"> • Former Member, Board of Studies in Geology, Savitribai Phule Pune University
<ul style="list-style-type: none"> • Departmental Research Coordinator 		
<ul style="list-style-type: none"> • 		

Research Projects

Title of the Project	Name of Funding Agency	Amount(Rs)	Duration (Year) (From To)	Type (Minor/Major)	Outcome
Sedimentological and Ichnological studies of Quaternary sediments of Porbandar area, Saurashtra, Gujarat	UGC-WRO	54000/-	2007-2009	Minor	Report Submitted, 1 paper published.
Provenance study of the clastic and non-clastic sedimentary sequence of the Jaisalmer Basin, Western Rajasthan	UGC-WRO	150000/-	2008-2010	Minor	Report Submitted, 1 paper published.
Palaeoalgological,	UGC New	201500/-	2009-	Major	Report

Palichnological, Sedimentological and Neomorphic investigations from the Paleogene-Neogene Sediments of the Narmada block of the Cambay Basin Gujarat, India. Funding agency	Delhi		2012		Submitted, 3papers published.
Micropalaeontological and Palichnological investigation of the Penganga sediments along Adilabad-Chandrapur sector, India	UGC-WRO	140000/-	2009-2011	Minor	Report Submitted, 1 paper published.
Fossil calcareous algae from Late Cretaceous to Early Eocene sediments of Pondicherry, South India	BCUD SPPU	140000/-	2016-2018	Minor	Report Submitted, 2 papers published.

Research Students (Ph.D)

Sr . No	Name of the Candidate	Title of Thesis	University	Date of Registratio n	Date of Award
1	Suyog A. Jagtap	Paleo-environmental study of Jurassic to Eocene sediments of Jaisalmer Basin: A multidisciplinary Apporach	Rashtrasan t Tukadoji Maharaj Nagpur University	17.06.2010	01.07.2014
2	Shashikan t D. Raut	Fossil Calcareous Algae and Ichnofossils from the Quaternary	Rashtrasan t Tukadoji Maharaj Nagpur	17.06.2010	28.07.2016

		sediments of Kachchh, Gujarat, India	University		
3	Vinay K. Sahay	Sedimentology, Micropalaeontology and Geochemistry of Naredi Formation (Late Palaeocene-Early Eocene), Kutch Basin, Gujarat, India	Rashtrasant Tukadoji Maharaj Nagpur University	06.12.2010	07.09.2017
4	Shivaji Kokate	Microfloral, Ichnofaunal and Geochemical changes across Palaeocene - Eocene Succession in Northwest Himalaya, India	Savitribai Phule Pune University	23.03.2018	Ongoing
5	Dattatray Shelke	Microfloral, Ichnofaunal and Sedimentological studies of Cenozoic sequence of Bhavnagar, South-East Saurashtra, India	Savitribai Phule Pune University	27.02.2020	Ongoing
6	Mohammad Ali Ismail Bangi	Magnetostratigraphic and Sedimentological studies across Paleocene-Eocene succession in the Kachchh basin, Gujarat	Savitribai Phule Pune University	12.03.2021	Ongoing
7	C. Aditya	Geology and petrogenesis of rhyolite-granite complex with special emphasis on flow stratigraphy of rhyolites near Pokaran, Jaisalmer district, Rajasthan	Savitribai Phule Pune University	29.04.2022	Ongoing

8	Rucha Sane	Application of Geospatial Technology in Groundwater Resource Management Study of Kang Watershed of Jalgaon District, Maharashtra	Savitribai Phule Pune University	29.04.2022	Ongoing
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Research Students (M.Sc. Dissertation)

S. No.	Name of the Candidate	Title of Dissertation Thesis	Year
1	Vaishanavi Chauhan	Geochemical and Micropaleontological Studies of Niniyur Formation, Tamil Nadu	2019
2	Lakit Patle	Geochemical and Micropalaeontological studies of Pashan Lake Sediments, Pune, Maharashtra	2019
3	Sachin Thakare	Study of Grain Size and Geochemical Analyses of Quaternary Sediments exposed at Bota Village, Ahmednagar	2019
4	Ipsita Roy	Microfaunal and Geochemical Studies of Early Eocene Subsurface Beds of the Cambay Shale Formation, Western India	2019
5	Abhilash Sen	Microfaunal and Geochemical Studies Of The Sediments of Subathu Formation, Himalaya, India	2019
6	Choudhari Vishal	Sedimentological and Micropaleontological variation across Cretaceous-Paleocene succession, Ariyalur Basin, India	2018
7	Yawale Shyam	Sedimentological and Geochemical variation in the sediments of Manaveli and Cuddalore Formations, Puducherry Basin, India	2018
8	Bhalerao Akshay	Sedimentological studies of Marh Formation, Bikaner Basin, Rajasthan,	2018

		Northwest India	
9	Memane Manoj	Sedimentological studies of Jogira and Kolayat Formation, Bikaner Basin, Rajasthan, Northwest India	2018
10	Rohit Soman	Micropaleontology and sedimentology of intertrappean of Deccan Volcanic Province, Vidarbha, Maharashtra, India	2017
11	Satpute Nikhil	Slope stability assessment and Geomechanical properties of sections exposed along Diveghat, Maharashtra	2017
12	Chimote Mugdha	Quaternary Geological studies along Godavari river, in and around Gangapur, Nashik district, Maharashtra	2017
13	Tembhurne Mrunali	Petrographic and Diagenetic studies of calcareous tufa from Chunakolvan area, Ratnagiri district, Maharashtra and to understand their palaeo-environmental significance	2017
14	Paranjape Aishwarya	Slope stability analysis of sections exposed along Bhor to Varandha, Maharashtra	2016
15	Pagare Anuja	Flow architecture of megacrystic marker horizon (M4), at Wai Ghat section, Pune, Maharashtra	2016
16	Yursam Yangya	Flow stratigraphy of the sections exposed along Narayanpur-Purander Ghat section, Purandar Taluka, Pune District, Maharashtra	2016
17	Madane Samadhan	Sedimentological and micropalaeontological studies of Mastani Lake sediments, Wadki, Pune	2014
18	Dalvi-Naik Pradeep	Sedimentary petrology and Paleo-algology of the Pleistocene-Holocene sediments of the Dwarka -Okha area, Gujarat, Western India	2012

Research Publications in National and International Journals

1. **Mude, S. N.**, Choudhari, V. and Kundal, P (2021) Dasycladacean algae from the Niniyur Formation, Cauvery Basin, India, Journal of Palaeontological Society of India, vol. 63 (1), pp.89-96.
2. **Mude, S. N.**, Pardeshi, R. G. and Memane M. (2021) On the occurrence of ichnogenera Planolites and Psilonichnus from the Jogira Formation (Early-Middle Eocene), Bikaner Basin, Western India: implications on depositional environment, Indian Association of Sedimentologists, vol. 38 (1), pp. 88-93.
3. Pardeshi, R. G., **Mude, S. N.** and Bhalerao A. (2021) Grain Size analysis of the Marh Formation from Bikaner Basin, Northwest India: Implications on depositional environments, Journal of Geosciences Research, vol. 6 (1), pp. 69-75.
4. **Mude S. N.** (2020) Calcareous algae from the Early Middle Miocene Quilon Formation, Kerala Basin, India, Journal of Palaeontological Society of India, Vol. 62(2), pp. 236-242
5. **Mude, S. N.**, Yawale, S. and Choudhari V. (2020) Sedimentological and Geochemical Characterization of Manaveli and Cuddalore Formations, Puducherry Basin, India, Indian Association of Sedimentologists, vol. 37 (2), pp. 115-130.
6. **Mude, S. N.**, Parcha, S. K., Pandey S. and Madane, S. B. (2019) Geochemistry, Provenance, Compositional Maturity of Mastani Lake Sediments, India, Journal of Geosciences Research vol. 4 (12), pp. 143-154
7. Chimote, M. A., Vaddadi, S. N., Deo, S. G., **Mude, S. N.** and Rajaguru, S. N. (2018) Evidence of Microscale Deformation in Deccan Basalts along Godavari River, Nashik, Maharashtra, Journal of Geosciences Research, Vol. 3 (2), pp. 171-176.

8. **Mude S. N.**, Kundal, P. and Jagtap, S. A. (2018) Ichnofossils from the Late Eocene Dinod Formation, Cambay Basin, Gujarat, India, Journal of Geosciences Research, Vol. 3(2), pp. 141-146.
9. Sahay, V. K., Samant, B. and **Mude, S.N.**, (2016) Paleodepth and paleodepositional environment of green shale of Gypseous Shale Member (Naredi Formation), Kutch, western India, Indian Journal of Geosciences, Vol. 70 (2), pp. 153-160
10. **Mude, S. N.**, Jagtap, S. A. and Kundal P. (2015) Ichnofossils from the early Eocene Khuiala Formation, Jaisalmer Basin and their palaeoenvironmental significance. Developments in Earth sciences: the proceeding of International Conference on recent developments in Stratigraphy (Edited, Mude et al.), pp.93-100.
11. Sahay, V. K., **Mude, S.N.** and Samant, B (2015) Lithofacies and Depositional Environment of the Ferruginous Claystone Member Sediments of Naredi, Kutch, Gujarat, India, Indian Journal of Applied Research, Vol.5(2), pp. 268-270.
12. Sahay, V. K., **Mude, S.N.** and Samant, B (2015) The Early Eocene Naredi Cliff Section, Kutch Basin, Gujarat, India: Evidences of a Condensed Stratigraphic Section, International Research Journal of Earth Sciences, Vol.2 (6), pp. 12-15.
13. Kundal, P., Kundal, M., and **Mude, S. N.** (2014) Neogene-quaternary calcareous algae from Saurashtra basin, Western India: Implications on paleoenvironments and hydrocarbon exploration, Journal of Geological Society of India, Vol. 83 (2), pp.183-190
14. **Mude, S. N.**, Jagtap, S. A. and Kundal, P. (2014) Search for Generic Provenance and Petrographic Evolution of Sandstones, Bhadasar Formation (Middle Jurassic), Jaisalmer Basin, Rajasthan,

India, International Journal of Advanced Earth Science and Engineering, Vol. 3(1), 114-121.

15. **Mude, S. N. and Kundal, P.** (2012) Additional Coralline algae from the Lower Miocene to Late Holocene Sediments of the Porbandar Group, Gujarat, Journal of Geological Society of India, Vol. 79. pp. 69-76.
16. **Shyam N. Mude, S. D. Rautand Rajkumar Wagh** (2012) Paleo-environmental Significance of Ichnofossils from the Bhuj Formation (Gondwana Sediments) of the Kachchh region, Northwestern India, World Journal of Environmental Biosciences, India, Vol. 1 (1), pp. 25-29.
17. **Mude, S. N.** (2012). Microfossils from Neo-Proterozoic Limestones (Chanda Limestone) of the Penganga Group, Central India: Paleo-environmental Significance, World Journal of Environmental Biosciences, India, Vol. 1 (1), pp. 83-85.
18. **Mude, S. N.** (2012). Paleoenvironmental Significance of Ichnofossils from the Babaguru Formation of the Cambay Basin, Gujarat, India, the Journal of Geological Society of India, Universal Journal of Environmental Research and Technology, India, Vol. 2(1), pp. 52-57.
19. **Mude, S. N., Dalvi-Naik, P.A. and Wagh R.** (2012). Environmental Significance of coral-algal reef section exposed in well near Mithapur, Saurashtra, Western India. Universal Journal of Environmental Research and Technology, India, Vol. 2(1), pp. 36-40.
20. **Mude, S. N., Kundal, P., Jagtap, S. A., Sarkar, P. K. and M. P. Kundal.** (2012). Paleo-environmental significance of ichnofossils from Mesozoic Jaisalmer Basin, Rajasthan, North Western India, International Academy of Ecology and Environmental Sciences, Hong Kong, Vol.2 (3), pp. 150-167.

21. **Mude, S. N.** (2011). Paleoenvironmental significance of ichnofossils from the Chaya Formation, Porbandar Group, southwest coast of India, Greener Journal of Physical Science, Vol. 1(1), pp. 29-36.
22. **Mude, S. N.** and Kundal, P. (2011). *Subterraniophyllum thomasii* Elliott, Fossil Calcareous Alga the evolutionary link between geniculate and nongeniculate coralline algae: A Hypothesis, Open Journal of Geology, USA, Vol.1(3), pp. 51-55.
23. **Mude, S. N.** (2011).Paleo-environmental Significance of Ichnofossils from the Kand Formation of the Cambay Basin, Gujarat, India. International Academy of Ecology and Environmental Sciences, Hong Kong, Vol. 2(1), pp. 12-20.
24. **Mude, S. N.** (2012). Post Depositional Features from the Quaternary sediments of the Porbandar area, Gujarat, Western Coast of India, Indian Association of Sedimentologists, Vol. 30 (2), pp. 47-53.
25. **Mude, S. N.,** Sarkar, P. K., Ukey, M., and Jagtap, S. A. (2012). Ichnofossils from Ambalapuzha Formation (Mio-Pliocene), Varkala Cliff Section, Kerala, South India. Gondwana Geological Society, India, Sp.Vol. 13, PP.193-197.
26. Sarkar, P.K., **Mude, S. N.,** and Ukey, M (2011) Unusual death of Millipedes (Diploda) towards the north of the Varkala Cliff section near Papanasam, Kerala, India. Proceeding International Academy of Ecology and Environmental Sciences, Hong Kong, Vol. 1(2), pp. 145-150.
27. **Mude, S. N.** and Kundal, P. (2010) A note on rare structure of fossil coralline algae from the southwest coast of India. Journal of Geological Society of India, Vol.75, pp. 380-382.

28. Kundal P., and **Mude, S. N.** (2010) Amphiroa, A Genuculate Coralline Alga From Neogene-Quaternary Sediments of Porbandar Area, Gujarat, Journal of Palaeontological Society of India, Vol. No.55 (1), pp.37-44.
29. Sarkar, P.K. and **Mude, S. N.** (2010) Remnants of vertical and lateral migration of the entrapped volatiles and gases in the Deccan Trap Basalt at Bhaja, Maval Taluka of Pune District, Maharashtra, the Journal of Geological Society of India, Vol. 75, pp. 560-562.
30. Sarkar, P., and **Mude, S. N.** (2010) A report on a new site for the fresh water jelly fish Craspedacusta Sowerbii at an abandoned rock quarry at Kunnanpara near Trivandrum, Kerala, Current Science Vol.99 (9), pp.1165.
31. Sarkar, P.K., Sayyad, M.R.G., **Mude, S. N.**, and Ukey, M. (2010) Deformed and dragged red bole horizon near Pune, Maharashtra. Current Science, Vol. 100 (10), pp. 1488-1489.
32. **Mude, S. N.** and Sarkar, P. (2009) Post-depositional Features of limestone of Dinod Formation of the Narmada Block of the Cambay Basin, Gujarat, India. Journal of Indian Association of Sedimentologists, Vol. 27, Jan-June-2008, pp. 17-22.
33. Kundal, P. and **Mude, S. N.** (2009). Genuculate coralline algae from Neogene-Quaternary sediments in and around Porbandar, southwest coast of India. Jour. Geol. Soc. India, V. 74(2), p. 267-274.
34. Kundal, P. and **Mude, S. N.** (2009). Nongenuculate Coralline algae from the Lower Miocene to Late Holocene sequence of Porbandar area, Saurashtra, Western India. Jour. Palaeo. Soc. India. V. 54(1), p.73-80.

35. Kundal, P. and Mude S. N. (2008). Ichnofossils from Neogene-Quaternary Sediments of Porbandar Area, Saurashtra, Gujarat, India. Jour. Palaeo. Soc. India. V. 53(2), p.207-214.
36. Kundal, P. and Mude, S. N. (2005) Ichnofossils from Late Eocene to Early Miocene of Narmada block of Cambay basin, Gujarat. Jour. Palaeo. Soc. India. GJ V. 50(2), p. 177-182.
37. Humane S. K., Mude S. N., Kundal, P and Dewalkar S. (2005) On Sedimentary structures in the Kamthi Sandstone of Bokhara area, Nagpur district, Maharashtra. Quart. Jour. of GARC, Vol. 13(4), p. 101-106.
38. Mude, S. N. (2005) An approach to study exposed Tertiary calcareous sediments from South Cambay basin and its paleoenvironment, Gujarat. Quart. Jour. of GARC, Vol. 16, No. 2, pp. 31-34.
39. Kundal, P. and Mude, S. N. (2004) Coralline algae from Lower Miocene Gaj Formation of Porbandar area, southwest coast of Saurashtra, India and their implication in paleoenvironment and paleobathymetry. Gond. Geol. Magz. Vol. 19, No. 2, pp. 159-164.
40. Marbate, R. and Mude S. N. (2003). Geological Investigation of the Ramtek to Wadegaon sector, Nagpur district, Maharashtra, Quart. Jour. of GARC. V. 11(4), pp. 77-78.

Books Published:

1. Mude S. N., Pardeshi, R. G. and Mache, R. N (2013): Edited Abstract Volume of International Conference on Recent Developments in Stratigraphy.

2. Mude S. N., Pardeshi, R. G. and Mache, R. N (2015): Edited Book: Developments in Earth sciences: The proceeding of International Conference on recent developments in Stratigraphy. (ISBN: 978-95-5137-944-7)

3. Shinde, M. A., Mohanty, D. P., Mude, S. N. and Gaikwad, G. D. (2022): Text Book: Engineering Geology (SEM-III-Civil Engineering), Tech Knowledge Publications, Pune.

Participation in Conferences/Seminars/Symposia/Workshop:

1. **Workshop:** Awareness Programme on Geoinformatics for Earth Science conducted at Department of Geography University of Pune sponsored by ISRO, during the period 18th to 20th December 2006.

2. **Workshop:** Revision of syllabus for S. Y. B.Sc. Geology conducted at Department of Geology, Fergusson College, Pune sponsored by University of Pune, during the period 3rd to 4th October 2008.

3. **Workshop:** Revision of syllabus for T. Y. B.Sc. Geology conducted by Department of Geology, NowrosjeeWadia College, Pune sponsored by University of Pune, during the period 25th to 27th June, 2009.

Conference: XXII Indian Colloquium on Micropaleontology and Stratigraphy organized by Department of Geology, National College, Trichinopallii, during the period 2009

4. **Workshop:** Use of Remote sensing and Geographic Information System in Geosciences, conducted at Sinhgad College of Science, Vadgoan (BK) during the period 17th to 18th September, 2010.

5. **Conference:** GEO India 2011- The 2nd south Asian Geo-Sciences conference and Exhibition conducted at the Indian Expo-Center and Mart, Greater Noida, New Delhi, Sponsored by Oil and Natural Gas Commission, during the period 12th to 14th January, 2011.

6. **Workshop:** Energy Conservation and Environmental Protection, organized by Department of Environmental Science, Fergusson College, Pune and Petroleum Conservation Research Association, Mumbai, on the 20th July 2011.

7. **Conference:** Recent Developments in Geology, Mineral and Groundwater Resources of India, conducted by Postgraduate Department of Geology, Institute of Science, Aurangabad, during the period 11th to 12th February 2011.

8. **Conference:** XXIII Indian Colloquium on Micropaleontology and Stratigraphy and International Symposium on Global Bio-events in the Earth History, organized by Department of Geology, Bangalore University, Bangalore and Geological Society of India, Bangalore, Karnataka, during the period 9th to 11th December 2011.

9. **Workshop:** One day workshop on Petroleum Geology, organized by Department of Geology, Fergusson College, Pune on 13th and 14th August 2012.

10. **Orientation Programme:** 91st UGC sponsored Orientation programme conducted by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad from 1st to 30th March 2012.

11. **Refresher Course:** UGC sponsored refresher course in Earth Sciences conducted by Department of Geography, Pune University from 11th February to 3rd March 2013.

13. **Workshop:** Workshop on Syllabus revision of M.Sc.II (Geology and Petroleum Geology), organized by Department of Geology, Fergusson College, Pune during 25th and 26th October 2013.

14. **Seminar:** One day National Seminar on Applications of RS and GIS in Resource Management, organized by Department of Geography, University of Pune on 24th February 2013.

15. **Conference:** XXV Indian Colloquium on Micropaleontology and Stratigraphy, organized by Post Graduate Department of Geology, Institute of Science, Aurangabad, India, during the period 18th to 20th December 2015

16. **Workshop:** Advance studies in Petrology and Micropalaeontology, organized by Department of Geology, Fergusson College, Pune on 10th September 2016

17. **Workshop:** Information and Communication Technology, organized by Fergusson College (Autonomous), Pune on 5th December 2016.

18. **Conference:** GEO India 2018- The 4th South Asian Geosciences conference and Exhibition conducted at the Indian Expo-Center and

Mart, Greater Noida, New Delhi, Sponsored by Oil and Natural Gas Commission, during the period 6th to 8th September, 2018.

Events Organized/Coordinated:

Sr. No	Name of the Event	Name of organizing Institute/College/University	Nature of contribution	Dates
1	International Conference in Recent Developments in Stratigraphy	Fergusson College Pune	Organizing Secretary	14 to 16 Dec.2013
2	National Workshop on Emerging Trends in Stratigraphy	Fergusson College Pune	Organizing Secretary	12 to 13 Dec.2013