

**Dnyanopasak Shikshan Mandal's
College of Arts, Commerce and Science Parbhani**

Name : Dr. Shaikh Md. Babar
Designation : Associate Professor
Name of Department : Department of Geology
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Personal Information

Date of Birth : 10.06.1966
Qualification : M.Sc. Ph.D. (Geology)
Specialization : Quaternary Geology and Geomorphology
Teaching Experience : 22 years

Research Information

Research Experience : 15 years
Research Guide : i) Recognized as Research Guide by Swami
Ramanand Teerth Marathwada University, Naned.
ii) Recognized as Research Guide by Dr. B.A. M.
University, Aurangabad.

No. Ph.D's Completed : Nil

No. of Ph.D's students working: 04

No. M.Phil's guided : Nil

No. of papers in Journals : 23

(Enclose the updated list) Appendix I (A)

No. of papers in Books : 13

(Enclose the updated list) Appendix I (B)

No. of papers in Proceedings: 30

(Enclose the updated list of papers and no abstracts) Appendix I (C)

Projects/Awards

Major Research Projects with Titles and Funding Agency:

Completed : 02

- i) On going Major Research Project entitled “Quaternary stratigraphy and tectono-geomorphic evolution of the Terna-Manjra River basin, Eastern Maharashtra” Sponsored by Department of Science and Technology (DST) New Delhi during 2007 – 2010.
- ii) On going Major Research Project entitled “Quaternary Geology and Geomorphometric Characteristics of Godavari River Basin in Parbhani-Nanded Districts of Maharashtra.” Sponsored by UGC New Delhi during 2007 – 2010.

Ongoing :01 Major Research Project of UGC (Co-investigator)

- i) Entitled “Assessment of Groundwater Potential, Water Quality and Performance of Existing Water Harvesting Structures from Drought Prone Areas of Parbhani District, Maharashtra”

Minor Research Projects with Titles and Funding Agency:

Completed : 01 Minor Research Project of UGC

Ongoing : Nil

Conferences/seminar/symposium/workshops

Conferences Conducted : 02

Conferences Attended : 34

No. of papers presented : 38

List of Refresher courses/ professional / training courses attended

03 Refresher courses attended

Memberships of professional bodies (list)

1. Since 2008 – Life member of Geological Society of India, Bangalore.
2. Since 2008 – Life Member of Indian Geological Congress, Roorkee.
3. Since 2003 – Fellow of International Benevolent Research Forum, Nagpur (India)
4. 2002- 2004 – E.C. member of Indian Institute of Geomorphologist (IGI) Allahabad India.

5. Since 2004 – Member of Geoforum : An Association of Geologist and Hydrogeologist
6. Since 1999 – Life member of Gondwana Geological Society, Nagpur.
7. Since 1998 – Geological Mining and Metallurgical Society of India, Kolkata.
8. Since 1998 – Life member Indian Institute of Geomorphologist (IGI) Allahabad.

Awards

1. 2008 – Best teacher Award Given by Swami Ramanand Teerth Marathwada University, Nanded Maharashtra.
2. 2005 - Dr. Ambedkar Fellowship 2005 for education and literature work from Bhartiya Dalit Sahitya Academy, New Delhi.
3. 2005 - Maharashtra Gaurav Award for excellence in research work from Ekta Sevabhavi Sanstha, Maharashtra.
4. 2004 - Maharashtra Gaurav Award for excellent work in education from Jai Hind Sevabhavi Sanstha, Parbhani.
5. 2003 - International Biographical Research Foundation, Nagpur proclaimed that Dr. Babar has been selected as 'Eminent Personality of India'.

APPENDIX I

RESEARCH PAPERS PUBLISHED

Dr. Shaikh Md. Babar

A. In Journals

1. **Babar, Md. (1997)**. Management of Environmental deterioration of pedogeomorphic surfaces in the Purna River basin Parbhani District (Maharashtra). *Indian J. of Geomorphology*, Vol-2 No.2, pp.149-158.
2. **Babar, Md. and Kaplay, R.D. (1998)**. Geomorphometric analysis of Purna River basin Parbhani District (Maharashtra). *Indian J. of Geomorphology*, Vol-3 No.1, pp.29-39.
3. **Babar, Md. and Kaplay, R.D. (1999)**. Groundwater Quality around Pingalgad Nala in Parbhani District (Maharashtra). *Indian J. of Ecology, Environment and conservation International Quarterly*, Vol-5 No.2, pp.141-143.
4. **Babar, Md. and Kaplay, R.D. (1999)**. Geomorphic characteristics of Quaternary sediments of Purna River Basin, Parbhani District. *Gondwana Geol. Mags. Spl. Vol. No. 4*, pp.73 - 79.
5. **Babar, Md. and Kaplay, R.D. (2000)**. Impact of gully erosion and alluvium removal on channel morphology of Purna River in Parbhani district. *Indian J. Landscape Systems and Ecological studies*, Vol.23 No.1, pp. 57-60.
6. **Babar, Md. and Kaplay, R.D. and Panaskar, D.B. (2000)**. Structural control on drainage pattern in the Tirna River Catchment, Central west India. *Indian J- of Geomorphology*, Vol-5 No.112 and pp 126-133.
7. Muley, R.B., Kulkarni, P.S. and **Babar, Md. (2000)**. Integrated Approach of Geomorphologic and Hydrological studies for watershed development: A case study *J. of Applied Hydrology*, Vol. XV No.1, pp. 31-36.
8. **Babar, Md. and Kaplay, R.D. (2003)**. Groundwater Fluctuation in Purna River Basin Parbhani District, Maharashtra. *J. of Applied Hydrology*, Vol. XVI No.1, pp.56 - 61.
9. Kapley, R.D., **Md. Babar**, D.B. Panaskar and A.M. Rakhe (2004). Geomorphometric characteristics of 30th September 1993 Killari Earthquake Area, Maharashtra (India). *Jour. of Geophysics*, Vol. XXV No.2 & 3 pp.55-61
10. **Babar, Md. (2003)**. Geological and Geomorphological Mapping of Akoli watershed in Jintur Tahsil of Parbhani district, Maharashtra. *Indian Journal of Geomorphology*, Vol. 8 No. 1&2, pp. 87-94.
11. Kadam, S.U., Gayakwad, J.M. and **Md. Babar (2004)**. Water Quality Analysis with Reference to Ichthyofauna of Masoli Reservoir in Parbhani District, Maharashtra. *Bull. Env. Geol.*, Vol. I, pp. 9-12.
12. **Babar, Md. (2004)**. Seasonal Variation in Physico-Chemical Aspects of Pollution in Pingalgad Nala Stream at Parbhani, Maharashtra. *Bull. Env. Geol.*, Vol. I, pp. 3-7.
13. **Babar, Md. and Kaplay, R.D. (2004)**. Influence of canal irrigation on ground water fluctuation and soil properties in Jayakwadi command of Maharashtra. *Agropedology*, Vol. 14 No. 2, pp. 82-86.
14. **Babar, Md. (2005)**. Hydrogeochemistry of Pingalgad Nala Stream in Parbhani District, Maharashtra. *Pollution Research* Vol. 24(3), pp. 203-206.

15. **Babar, Md. (2008).** Quaternary Geology and Geomorphology of Purna River sub-basin of Godavari River Basin, Maharashtra, India. *Gondwana Geol. Magz.* Vol. 23 (1), pp.81 - 90.
16. Asiya Sultana, Kadam S.U. and **Md. Babar (2009).** Evaluation of Pollution Status and Water Quality Index of Groundwater from Residential Areas of Parbhani City (Maharashtra). *Bionano Frontier*, Vol.2 (No.2), pp. 112-115.
17. **Md. Babar**, R.V. Chunchekar, B.B. Ghute and R.D. Kaplay (2009). Tectonic Geomorphology of Terna-Manjra River Basin, West Central India. *Journal Indian Geological Congress*, Vol.1 (2), pp. 69-78.
18. **Babar, Md. (2010).** Groundwater Quality Variation In Relation To Geomorphic Surfaces in Parbhani District, Maharashtra. *Deccan Current Science*, Vol. – 3 No. II June-July 2010 Pp 112-121.
19. Kadam S.U. and **Md. Babar (2010).** Hydrochemistry and Phytoplankton Biodiversity of Masooli Reservoir, Parbhani District Maharashtra, India. *Nanobiotechnica Universale* Vol. 1 (1), pp. 17-28.
20. Kadam S.U. and **Md. Babar (2010).** Evaluation of Phytoplanktons of Masoli Reservoir Parbhani District Maharashtra for Nutritional Potentiality of Water. *Bionano Frontier* Vol. 3 (2), pp. 239-243.
21. **Md. Babar**, B.B. Ghute and R.V. Chunchekar (2010). Quaternary Morphostratigraphy and Litostratigraphy of Godavari River sediments in Parbhani District Maharashtra. *Gondwana Geological Magazine*, Spl. Vol. 12, pp.271-274.
22. **Md. Babar**, B.B. Ghute and R.V. Chunchekar (2010). Geomorphic indicators of Neotectonics from the Deccan Basaltic Province: A study from the Upper Godavari River Basin, Maharashtra, India. *International Journal of Earth Science and Engineering*, accepted for March 2011 issue.
23. **Md. Babar**, B.B. Ghute and R.V. Chunchekar (2010). Application of Remote Sensing, Geomorphological and Hydrogeological Studies for Groundwater Potential Of Indrayani Nala Macro-Watershed In Parbhani District, Maharashtra. *Advanced Journal of Geographical World (AJGW)*, Vol.1 (1) in press.

B. In Books

1. **Babar, Md. (2000).** Management of groundwater resources through watershed developments in Parbhani district of Maharashtra. In 'Resource Management and contours of Development Reflections through Macro - Micro Narratives' edited by B.C. Barik, Rawat Publications, Jaipur, pp.350 - 364.
2. **Babar, Md. (2001).** Hydrogeomorphological studies by remote sensing application in Akoli Watershed (Jintur), Parbhani Dist., Maharashtra, India. In 'Spatial Information Technology: Remote Sensing and GIS- ICORG' edited by I.V. Murali Krishna, Vol-II pp.137-143.
3. Chavan, S.P., Joshi, P.K., Pawar, S.B. and **Babar Md. (2002).** Qualitative analysis of Planktons in wells around Pingalgad Nala in Parbhani District, Maharashtra (India). In "Biotechnology in Agriculture, Industry and Environment", ed. A.N. Deshmukh, Microbiologists Society Pub., Krarad, India, pp.336-342.
4. **Babar Md. (2005).** Physico-chemical and biological aspect of pollution of groundwater due to sewage and waste disposal in Pingalgad Nala stream of Parbhani

- city, Maharashtra. In 'Advances in Limnology' ed. S.R. Mishra, Daya Pub., New Delhi, pp. 236-246.
5. **Babar Md. And Wakte P.S. (2006).** Geoenvironmental and Microecological Characteristics of Lonar Lake, Maharashtra. In 'Ecology of Lakes and Reservoirs' ed. V.B. Sakhare, Daya Pub., New Delhi, pp.111-124 .
 6. Kadam, S.U., Gayakwad, J.M. and **Md. Babar (2006).** Water Quality and Ecological Studies of Masoli Reservoir in Parbhani District, Maharashtra. In 'Ecology of Lakes and Reservoirs' ed. V.B. Sakhare, Daya Pub., New Delhi, pp.163-175.
 7. **Md. Babar (2007).** Hydrogeochemistry of Groundwater and Stream Water Ecosystem of Pingalgad Nala Stream in Parbhani District, Maharashtra. In the book 'Environmental Changes and Natural Disasters' edited by Dr. Md. Babar New India Publishing Agency, New Delhi, pp. 65-71.
 8. Kadam, S.U., **Md. Babar** and Gayakwad, J.M. (2007). Physico-Chemical Characteristics of Water Samples from Reservoirs of Parbhani District Maharashtra. In the book 'Environmental Changes and Natural Disasters' edited by Dr. Md. Babar New India Publishing Agency, New Delhi, pp. 65-71.
 9. **Md. Babar and Wakte P.S. (2007).** Environmental Characteristics of Lonar Lake with Reference to Geological and Microbial Attributes. In the book 'Environmental Changes and Natural Disasters' edited by Dr. Md. Babar New India Publishing Agency, New Delhi, pp. 65-71.
 10. R.B. Muley, **Md. Babar** and R.K. Joshi (2007). Groundwater Pollution Due to Waste Disposal in Parbhani City. In the book 'Environmental Changes and Natural Disasters' edited by Dr. Md. Babar New India Publishing Agency, New Delhi, pp. 65-71.
 11. Godbole M.S., R.B. Muley and **Md. Babar (2007).** Earthquake as Natural Disaster: An overview with Reference to Causes Effects and Mitigation Measures. In the book 'Environmental Changes and Natural Disasters' edited by Dr. Md. Babar, New India Publishing Agency, New Delhi, pp. 227-233.
 12. **Md. Babar (2009).** Geomorphic Indicators of Neotectonics in The Terna River Basin, Latur-Osmanabad Districts in Maharashtra. In Geomorphology in India (Prof. Savindra Singh Felicitation volume) edited by H.S Sharma and V.S. Kale, Prayag Pustak Bhavan, Allahabad, pp. 473-486.
 13. **Md. Babar (2010).** Geology, Microecological Environment And Conservation Of Lonar Lake, Maharashtra, India. In Environmental Management edited by Santosh Sarkar, Sciyo Publications, Croatia, pp. 241 257.

C. In Proceeding Volumes

1. Kaplay, R.D. and **Babar Md. (1997).** Lineament and Geomorphologic analysis of Manjra Basin, Maharashtra. In spl. Volume of workshop on "Planning of Manjra River Basin Water", pp.24-40.
2. Muley, R.B. and **Babar Md. (1998).** Geo-environmental status of Lonar Lake, Maharashtra. In proceeding volume of workshop on "Quality of Reservoirs - I", pp.28-33.
3. **Babar Md.** and Muley, R.B. (1998). Urban sanitary and waste disposal in natural streams and man made Lakes- An Environmental Analysis. In proceeding volume of workshop on "Quality of Reservoir-II" pp.53-56.

4. **Babar Md.** and Kaplay, R.D. (1998). Geomorphological and Geohydrological characteristics of Purna- Tapi basin. Maharashtra. In Proceeding volume of workshop on "Water management of Tapi-Purna basin", pp.34-43
5. **Babar Md.** and Kaplay, R.D. (1998). Problems and potentials of the soil in Purna River basin Parbhani District. In proceeding volume of workshop on "Planning of Godavari River Water" pp.96-106.
6. **Babar, Md.** and Kaplay, R.D. (1998). Influence of Urbanization and Industrialization on water reserves: A Geomorphological Analysis. In proceeding volume of workshop on" Planning of Godavari river water", pp.386-395.
7. **Babar, Md.** and Kaplay, R.D. (1999). Geomorphology of the Watershed Around Jintur, Parbhani District Maharashtra. In session volume of National seminar on: "Groundwater and watershed management" at Dhule, pp.148-153.
8. **Babar, Md.** (1999). Management of Groundwater Resources through watershed Development in Parbhani district (Maharashtra). In seminar volume of national seminar on "Common Property Resources and Planned Development in western India-challenges and prospects" at Nanded, pp.246-256.
9. **Babar, Md.** (2002). Hydrogeomorphometric analysis of watershed for Planning Water Resource Development: A case study. The paper accepted for publication in the proceeding volume of National Seminar on "Mountain to Ocean: A changing Environmental scenario" at Darjeeling (In process).
10. **Babar, Md.** (2002). Hydrogeomorphological mapping for groundwater resource development in the northern part of Parbhani District (Maharashtra) using IRS 1B, LISS II Geocoded data. In proceeding volume of National conference on GIS and Their Application in Civil Engineering during February 14-16 2002 at Deccan College of Engineering and Technology, Hyderabad, pp.75-83.
11. **Babar, Md.,** Kaplay, R.D., Patode, H.S. and Panaskar, D.B. (2002). Impact of Industrial Waste on Groundwater and Soil Characteristics at Tuppa Area in Nanded City, Maharashtra, India. In proceeding volume of the international conference on Hydrology and Watershed Management held during December 18-20, 2002, Vol. II, pp. 569-575.
12. **Babar, Md.** (2002). Application of Remote Sensing in Hydrogeomorphological Studies of Purna River Basin in Parbhani District, Maharashtra, India. In proceeding volume of the international symposium of ISPRS Commission VII on Resource and Environmental Monitoring held during December 3-6, 2002, Vol. XXXIV Part 7, pp.519-523.
13. **Babar Md.** (2003). Roll of subsurface geology and physiography on yield characteristics and recharge of wells: A case study. In proceeding volume of seminar on "Well water recharge" at College of Agricultural Engineering Marathwada Agricultural University, Parbhani, pp. 70-74.
14. **Babar Md.,** Muley, R.B. and Rohini K. Joshi (2003). Water Pollution in Relation to Sewage and Waste Disposal in Natural Streams and Man Made Lakes in Parbhani City (Maharashtra). In proceeding volume of National Seminar on 'Geo-environmental Hazards – A future Perspective' at Faizpur held during October 6-7, 2003, pp. 194-197.
15. **Babar Md.** (2005). Remote Sensing and GIS Applications in Groundwater Targeting for Rural Development at Akoli Watershed area, Maharashtra. Proceeding vol.

- National Seminar on GIS application for Rural Development at NIRD, Hyderabad, pp.204-213.
16. **Babar Md.** (2006). Hydrogeochemistry of Groundwater and Stream Water Ecosystem of Pingalgad Nala Stream in Parbhani District, Maharashtra. Proceeding vol. of National Conference on 'Environmental Pollution, Disaster Management and Mitigation' at Parbhani (Maharashtra), pp. 57-63.
 17. R.B. Muley, **Md. Babar** and R.K. Joshi (2006). Groundwater Pollution Due to Waste Disposal in Parbhani City. Proceeding vol. of National Conference on 'Environmental Pollution, Disaster Management and Mitigation' at Parbhani (Maharashtra), pp. 64-68.
 18. Kadam, S.U., **Md. Babar** and Gayakwad, J.M. (2006). Chemical Characteristics of Water Samples from Reservoirs of Parbhani District Maharashtra. Proceeding vol. of National Conference on 'Environmental Pollution, Disaster Management and Mitigation' at Parbhani (Maharashtra), pp. 69-72.
 19. Godbole M.S., R.B. Muley and **Md. Babar** (2006). Earthquake as Natural Disaster: An overview with Reference to Causes Effects and Mitigation Measures. Proceeding vol. of National Conference on 'Environmental Pollution, Disaster Management and Mitigation' at Parbhani (Maharashtra), pp. 123-126.
 20. **Md. Babar** and Wakte P.S. (2006). Environmental Characteristics of Lonar Lake with Reference to Geological and Microbial Attributes. Proceeding vol. of National Conference on 'Environmental Pollution, Disaster Management and Mitigation' at Parbhani (Maharashtra), pp. 85-91.
 21. **Md. Babar** (2009). Application of Remote sensing and GIS in Watershed Development of Deccan Trap Basalt. Proceeding volume of National conference held at Deogiri College, Aurangabad, pp. 53-57.
 22. Shah I.I. and **Md. Babar** (2009). Drainage Morphometry to Evaluate the Geomorphic stages and Hydrogeological aspects of Tawarja River Sub-basin, Maharashtra. Proceeding volume of National conference held at Deogiri College, Aurangabad, pp. 34-37
 23. Muley, R.B., Md. Babar, S.M. Atkore and Ghute, B.B. (2009). Hydrogeological Studies of Percolation Tank: A Case study. Proceeding volume of National conference held at Deogiri College, Aurangabad, pp. 90-92.
 24. Shah I.I. and **Md. Babar** (2009). Groundwater Province of Maharashtra – An Overview. Proceeding volume of National Conference HYDRO-09 on Hydraulics, Water Resources and Coastal & Environmental Engineering held during December 17-18, 2009 at the CWPRS, Pune, pp.
 25. **Md. Babar** (2009). Integrated Studies on Water Resource Management and Conservation in Karpara River Sub-basin in Parbhani District by Using Remote sensing and GIS. Proceeding volume of National conference held at Ambajogai, pp. 38-46.
 26. Kadam S.U. and **Md. Babar** (2009). Macrophytic Community Of Masooli Reservoir, Parbhani District, Maharashtra. Proceeding volume of National conference held at Ambajogai, pp.98
 27. **Md. Babar**, R.V. Chunchekar and B.B. Ghute (2010). Hydrogeomorphological Mapping by Remote Sensing Application in Terna River Sub-basin, Latur – Osmanabad Districts, Maharashtra, India. In proceeding volume of 3rd International

- conference on Hydrology and watershed Management held at Hyderabad held during February 3-6, 2010, Vol. II, pp. 1022-1030.
28. **Md. Babar** and I.I. Shah (2010). Application Of Remote Sensing And Geomorphic Characteristics For Groundwater Prospect Zones In Tawarja Sub-Basin, Latur District, Maharashtra, India. In proceeding volume of 3rd International conference on Hydrology and watershed Management held at Hyderabad held during February 3-6, 2010, Vol. I, pp. 400-409.
 29. Muley, R.B., **Md. Babar**, S.M. Atkore and B.B. Ghute (2010). Application Of Geology And Remote Sensing In The Groundwater Potential Zones In Drought Prone Areas Of Parbhani District, Maharashtra, India. In proceeding volume of 3rd International conference on Hydrology and watershed Management held at Hyderabad held during February 3-6, 2010, Vol. I, pp. 410-417.
 30. Muley R.B., **Babar Md.**, Atkore, S.M., and Ghute B.B. (2010) Application of Remote sensing and Hydrogeological Characteristics for Groundwater Prospect Zone in Purna Tahsil (Block), Parbhani District, Maharashtra. Proceeding volume of workshop on "Application of Remote sensing and GIS in water resources management", held at Hydrabad, pp. 28-36.