




## University Faculty Details Page on DU Web-site

<b>Title</b>	<b>Professor</b>	<b>First Name</b>	<b>Jaya Prakash</b>	<b>Last Name</b>	<b>Shrivastava</b>	<b>Photograph</b>
<b>Designation</b>	<b>Professor</b>					
<b>Department</b>	<b>Department of Geology</b>					
<b>Address (Campus)</b>	<b>Department of Geology, University of Delhi, Delhi-7</b>					
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<b>Web-Page</b>						
<b>Education</b>						
<b>Subject</b>	<b>Institution</b>	<b>Year</b>	<b>Details</b>			
<b>M. Tech (Three years)</b>	<b>Department of Applied Geology, University of Sagaur</b>	<b>1978</b>	<b>First Division (third position in the university merit list)</b>			
<b>Ph.D.</b>	<b>Department of Applied Geology, University of Sagaur</b>	<b>1981</b>	<b>Thesis topic: "Experimental studies on base metal exploration at Malanjkhanda and Zawar: Pedogeochemical and geomicrobiological approach"</b>			
<b>Career Profile</b>						
<b>Organisation / Institution</b>	<b>Designation</b>	<b>Duration</b>	<b>Role</b>			
<b>U.N. Mineral Exploration Programme Directorate of Geology and Mines, M.P.</b>	<b>Geologist</b>	<b>1980-1981</b>	<b>Exploration of base metal deposits</b>			
<b>National Metallurgical Laboratory, Jamshedpur -7</b>	<b>Scientist</b>	<b>1981</b>	<b>Mineralography and Ore-dressing</b>			
<b>Department of Applied Geology, University of Sagaur</b>	<b>Senior Lecturer</b>	<b>1981 - 1988</b>	<b>Teaching and Research</b>			

Department of Geology University of Delhi	Senior Lecturer	1988-1994	Teaching and Research
Department of Geology, University of Delhi	Reader	1994 - 2002	Teaching and Research
Department of Geology University of Delhi	Professor	2002 – till to date	Teaching and Research
Research Interests / Specialization			
Geochemistry, Economic Geology and Petrology			
Teaching Experience ( Subjects/Courses Taught) 34 years			
Geochemistry, Economic Geology and Igneous Petrology taught at Post-Graduate and Under-Graduate levels in University of Delhi and University of Saugar.			
Honors & Awards			
1. National Mineral Award, 2003, Ministry of Steel and Mines, Government of India, New Delhi			
2. INSA Best paper award: Rani, N., <b>Shrivastava, J. P.</b> , Bajpai, R. K. for Modelling of alteration behaviour of nuclear waste glass for long-term performance assessment in the geological repository: In National Mathematical Modelling of Natural Phenomena, held at Kolkata in 2010.			
Publications			
<b>Books: 4</b>			
<b>Year</b>	<b>Title</b>	<b>Publisher</b>	<b>Co-Author</b>
2012	Introduction to Ore Microscopy	Prentice Hall of India, Delhi	Nishi Rani
2009	Rock and Ore Forming Minerals (National Science Digital Library, CSIR, New Delhi) <a href="http://hdl.handle.net/123456789/1086">http://hdl.handle.net/123456789/1086</a>	CSIR, New Delhi	Nil
2009	Igneous Rocks National Science Digital Library (National Science Digital Library, CSIR, New Delhi) <a href="http://hdl.handle.net/123456789/1034">http://hdl.handle.net/123456789/1034</a>	CSIR, New Delhi	Nil
2007	Geochemical modeling and related topics (special volume of the Journal edited)	Indian Journal of Geochemistry, B.H.U.,	Nil

		Varanasi	
<b>In Indexed/ Peer Reviewed Journals ( for the last 5 years)</b>			
2017	Mineral carbonation reactions under water-saturated, hydrothermal-like conditions and numerical simulations of CO <sub>2</sub> sequestration in tholeiitic basalt of the Eastern Deccan Volcanic Province, India.	Applied Geochemistry, v. 84, pp. 87-104.	Amit Kumar and Vamdev Pathak
2017	Comments on the paper published by Sial et al (2016), Mercury enrichments and Hg isotopes in Cretaceous-Paleogene boundary successions: Links to volcanism and palaeoenvironmental impact.	Cretaceous Research, v. 66, pp60-61.	Sanjay K. Mukhopadhyay and Sucharita Pal
2017	Tectono-magmatic setting of lava packages in the Mandla lobe of the eastern Deccan volcanic province, India: Paleomagnetism and Magnetostratigraphic evidences.	<i>Geological Society of London.</i> <a href="http://doi.org/10.1144/S1464-89791600001">http://doi.org/10.1144/S1464-89791600001</a>	Vamdev Pathak and Shiva Patil
2016	Weathering characteristics of interflow volcanic bores from Mandla lobe, Eastern Deccan volcanic province	<i>Catena</i> 140, pp. 169 - 181	Priyeshu Srivastava, S.J. Sangode and Surabhi Srivastava.
2016	Long-term performance assessment of nuclear waste and natural glasses in the geological repository: a geochemical modelling	<i>Current Science</i> , v. 110, No. 214 2, pp 214-219.	Nishi Rani and R. K. Bajpai

2016	Feeder and post Deccan Trap dyke activities in the northern slope of the Satpura Mountain: Evidence from new <sup>40</sup> Ar- <sup>39</sup> Ar ages.	<i>Geoscience Frontiers</i> , pp. 1-10, DOI: <a href="http://dx.doi.org/10.1016/j.gsf.2016.04.001">http://dx.doi.org/10.1016/j.gsf.2016.04.001</a>	R. Kumar and N. Rani
2016	Geochemical Modeling and Experimental Studies on Mineral Carbonation of Primary Silicates for Long-term Immobilization of CO <sub>2</sub> in Basalt from the Eastern Deccan Volcanic Province.	<i>Indian Geophysical Union (Special Volume), V. 1, pp 42-58.</i>	Nishi Rani and Vamdev Pathak
2015	Mineral Chemistry of Clays Associated with the Late Cretaceous-Early Palaeogene Succession of the Um-Sohryngkew River Section of Meghalaya, India: Palaeoenvironmental Inferences and K/Pg Transition.	<i>Journal Geological Society of India</i> , v. 86, No. 6, pp.631-647	Sucharita Pal and S. K. Mukhopadhyay
2015	Physils and organic matter-base palaeoenvironmental records of the K/Pg boundary transition from the late Cretaceous-early Palaeogenesuccession of the Um-Sohryngkew River section of Meghalaya, India	<i>Chemie der Erde</i> , v. 75, pp.445-463.	Sucharita Pal and S. K. Mukhopadhyay
2015	Natural glass from Deccan volcanic province: an analogue for radioactive waste form	<i>International Journal of Earth Science(Geol Rundsch)</i> DOI 10.1007/s00531-015-1244-5	Nishi Rani and R. K. Bajpai
2015	PAH excursions and K/Pg transition in the late Cretaceous-early Paleogene	<i>Current Science</i> , <i>Current Science</i> , v. 109, No. 6, 1140-1150.	Sucharita Pal and S. K. Mukhopadhyaya

	succession of the Um-Sohryngkew river section, Meghalaya.		
2015	Post-K/PB younger 40Ar–39Ar ages of the Mandla lavas: Implications for the duration of the Deccan volcanism.	<i>Lithos</i> , v. 224–225, pp. 214–224.	Robert A. Duncan and Mamta Kashyap
2014	Trace elemental and Nd-Sr-Pb isotopic compositional variation in 37 lava flows of Mandla lobe and their chemical relation to the western Deccan stratigraphic succession, India	<i>Mineralogy Petrology</i> v. 108:801–817 DOI 10.1007/s00710-014-0337-3.	J. J. Mahoney and Mamta Kashyap
2014	Compositional variation in magma through Early Neogene in the Northeast Indian Ocean: a testimony from glass shards	<i>Journal Geological Society of India</i> . v. 84, pp.181-186.	V. Sharma
2014	Airborne Suspended Particulate Matter and its Impact on Human Respiratory System-Mineralogical Study from Shahdara and Shahzada Bagh areas in Delhi.	<i>Georesources</i> (EDs. K. L. Shrivastava and Arun Kumar) Scientific Publishers, India. ISBN 978-81-7233-895-4.	Jitendra Nagar and Raj Kumar
2013	Alteration Study of Sodium Borosilicate Glass under Hydrothermal-like Conditions.	<i>Transactions of the American Nuclear Society</i> , v. 108, 151-153.	Nishi Rani and R. K. Bajpai
2013	Deccan Traps associated obsidian glass: a nuclear waste containment	<i>Current Science</i> , v.105, No. 3.pp371-379.	Nishi Rani and R. K. Bajpai
2013	Sodium Borosilicate Glass: Alteration Study under Hydrothermal-like Conditions for its Long-Term Assessment	<i>Transaction, American Nuclear Society</i> , v. 108, 151-153.	Nishi Rani and R. K. Bajpai

	in Geological Repository		
2013	Chemico-mineralogical attributes of clays from the Late Cretaceous- Early Palaeogene succession of the Um Sohryngkew River section of Meghalaya, India: palaeoenvironmental inferences and the K/Pg boundary	<i>Cretaceous Research.</i> , v. 45, 247-257	Sanjay K. Mukhopadhaya Sucharita Pal
2013	Mineral Chemistry of Clays Associated with the Jhilmili Intertrappean bed in the Eastern Deccan Volcanic Province: Palaeoenvironmental inferences and KTB Transition	<i>J. Geol. Soc. India.</i> , v.82, pp. 38-52.	Sucharita Pal and Surabhi Srivastava
2013	Studies on Nuclear Waste Glass and Natural Analogue (Obsidian) for Performance Assessment in Geological Repository	<i>Sustainable Future of the Earth's Natural Resources Springer-Verlag Berlin Heidelberg</i> , 285-306	Nishi Rani and R.K. Bajpai
2013	CO <sub>2</sub> mineral trapping: an experimental study on the carbonation of basalts from the eastern Deccan Volcanic Province, India.	<i>Procedia Earth and Planetary Science</i> , v. 7, pp 806-809.	Nishi Rani and Vamdev Pathak
2013	Obsidian: alteration study under hydrothermal-like conditions for its assessment as a nuclear waste glass	<i>Procedia Earth and Planetary Science</i> , v. 7, pp 725-728.	Nishi Rani and R. K. Bajpai
2013	Trace elements geochemistry and petrogenesis of basalt from the southern part of the East Pacific Rise	<i>J. Geol. Soc. India.</i> v. 81, pp 91-100	Sucharita Pal, Sanjay Pandey and G.S. Roonwal
2012	Microstructures and compositional variation in the intra-volcanic bole clays from the eastern Deccan volcanic Province:	<i>J. Geol. Soc. India</i> , v. 80, pp-177-188.	Surabhi Srivastava and Mansoor Ahmad

	palaeoenvironmental implications and duration of volcanism		
2012	A Review of the Seismicity and Seismotectonics of Delhi and adjoining areas	<i>J. Geol. Soc. of India</i> , v. 79, pp 603-617	Rajesh Prakash
2012	REE abundance in the clays associated with the intra-volcanic bole horizons of the eastern deccan traps: palaeoenvironmental implications	<i>Proc. Indian Nat. Sci. Acad.</i> , v. 78, pp 59-69	Surabhi Srivastava and Mansoor Ahmad
2012	REE signatures of the bole clays associated with the Early Cretaceous Sylhet Traps of Meghalaya: palaeoenvironmental inferences.	<i>Current Science</i> v. 102, No. 2, pp. 322-328	Sucharita Paul and Mukhopadhyay, S. K.
2012	Near Hydrothermal alteration of Obsidian Glass: Implications for Long Term Performance Assessments	<i>J. Geol. Soc. of India</i> , v. 79, pp 376-382	Nishi Rani, Bajpai, R. K.
2012	Clay mineralogical studies on Bijawars of the Sonrai Basin: Palaeoenvironmental implications and inferences on the uranium mineralization. V. 79, pp 117-134	<i>Geol. Soc. of India</i> , v. 44: pp196-212.	Jha, S. K. and Bhairam, C. L.
2011	Alteration mechanism in obsidian: a kinetic study	<i>Mem. Geol. Society of Ind. No. 77</i> , pp. 591-600	Nishi Rani and R. K. Bajpai
2010	Neo-formation of mineral phases and retention of property of barium borosilicate nuclear waste glass for its appraisal in the geological repository	<i>Mineral. Society of India</i> , v. 44: pp 188-193.	Nishi Rani and R. K. Bajpai
2010	Clay mineralogy of Bijawar rocks, Sonrai basin, Lalitpur district, U.P.	<i>Mineral. Soc. India</i> , v. 44, No. 1, pp 196-210	Jha, S. K. and Bhairam, C. L.

### Articles: 3

1. Nishi Rani **J. P. Shrivastava** and Bajpai, R. K. (2011) Chemico mineralogical and dissolution studies on obsidian under near hydrothermal conditions for long-term performance assessments in geological repository. In: *Radioactive Waste*. Ed: R. O. A. Rahman, Intech Open Access Publisher, Cario.
2. Saxena, S. and **Shrivastava, J. P.**, Rao M. S. and Kumar B., Isotopic-chemical framework of groundwater aquifer to study the pollution dynamics at Delhi, India *IN* Capital Publishing House, New Delhi and Co published by Springer, The Netherlands, ISBN: 978-93-81891-06-3, Page No. 138-153.
3. Nishi Rani, Mansum P. Kashyap and **J. P. Shrivastava** (2009) Impact glass from Lonar Crater: A potential analogue for nuclear waste glass. In: *Some glimpses on the origin and Evolution of the Deep Continental Crust, India*. Eds: N. R. Karmalkar, R. A. Duraiswami, N. J. Pawar and Ch. Sivaji. Norosa Publishing House Pvt. Ltd., New Delhi, pp 203-216.
4. **J. P. Shrivastava**, Ahmad M. and Raju Kumar (2008) Petrography, composition and petrogenesis of the basalts of the Chakhla – Delakhari intrusive Complex from the eastern Deccan volcanic province. India. In: *Indian Dykes: Geochemistry, Geophysics and Geochronology*, Eds. R. K. Srivastava, Ch. Sivaji and Chalpathi Rao. Norosa Pub. House Pvt., Ltd., New Delhi, pp 83-109.

### Conference Presentations: 27 ( in last five years)

1. **J. P. Shrivastava** delivered invited Lecture on “**Deccan Volcanism**” in the High Definition Studio of Electronic Media Production Centre of IGNOU (Gyan Darshan Programme), School of Sciences on 29<sup>th</sup> October, 2015.
2. **J. P. Shrivastava** delivered invited talk on “**Stratigraphy, Age and Petrogenesis of Basalts from Mandala Lobe of the Eastern Deccan Volcanic Geochemical Flow Province, India**” in Foundation Day National Seminar on Geo-potential of Central India, held in the Department of Applied Geology, Dr. Harisingh Gour Central University, Sagar from 5-6 August, 2015
3. **J. P. Shrivastava** delivered invited talk on “**Experimental alteration and modeling studies on Natural glasses and clays**” in a “**Laboratory Scale Experiments on thermal-rock mechanical-hydraulic evaluation of granites and smectite clay**” during 21-22nd July 2015 at HBNI conference Hall, BARC, Mumbai
4. **J. P. Shrivastava** presented a paper entitled “**Compositional studies on organic matter from clay sediments associated with the intra-volcanic bole horizons of the Deccan Traps: palaeoenvironmental implications and K/T boundary**” in the Brain Storming Session on 36th International Geological Congress-2020 : "A unique opportunity for advancement of geosciences" held at Geological Survey of India, Central



Region, Nagpur on 12th & 13th March 2015.

5. **Keynote address in the National Symposium on Recent Advances in Geological Sciences**, held at the Department of Applied Geology, Saugr University, Sagar, in 27-28<sup>th</sup> January, 2015.
6. **Chaired Post Lunch session in the National Conference on Climate Change: Past, Present and Future**, held at the Department of Geology, Pune University, Pune from 12-13/1/2015.
7. **J. P. Shrivastava (2014)** “Inferences on K/T boundary related geological processes: clay - organo molucalar evidence from the late Cretaceous - early Palaeogene succession of the Um-Sohryngkew river section, Meghalaya, India” **In Search of process linkages of problems in Indian Earth System Science**, BHU, Varanasi (Keynote address/Invited talk).
8. **J. P. Shrivastava (2014)** “CO<sub>2</sub> sequestration studies on volcano-sedimentary succession of the eastern Deccan volcanic province” **National Programme on Carbon Sequestration Meeting** held at Bangalore (**Oral**).
9. **J. P. Shrivastava (2014)** “Compositional studies on clays and organic matter associated with the intra-cratonic Proterozoic Bijawar basin in Central India: hydrothermal alteration and palaeoenvironmental control over unconformity related U mineralization” **Technical Programme Development and Monitoring Committee Meeting**, Atomic Mineral Directorate and Exploration and Research, Jamshedpur
10. Surendra Kumar Jha, **J. P. Shrivastava** and C. L. Bhairam (2014) **Mineralo-chemical studies on illite: a potential unconformity type uranium mineralization in the Bizawars of thye Sonarai Basin**. **International Association for Gondwana Research Conference Series-18**, Kumaun University, Nainital (oral).
11. Sucharita Pal, **J. P. Shrivastava** and S. K. Mukhopadhyay (2013) “Compositional studies on organic matter associated with the marine sediments of late Cretaceous-early Paleocene succession of the Um-Sohryngkew river section, Meghalaya, India: Palaeoenvironmental inferences and the K/Pg boundary” in abstracts” **First International Symposium of the International Geoscience Programme Project 608**”, BSIP, Lucknow (oral).
12. **J. P. Shrivastava (2014)** **Compositional studies on soluble organic matter entrapped within clay sediments from the late Cretaceous-early Paleocene succession of the Um-Sohryngkev river section of Meghalaya, India: palaeoenvironmental implications and KTB**, University of Kashmir, Srinagar, 2013.
13. Sucharita Pal, **J. P. Shrivastava** and S. K. Mukhopadhyay (2013) “**Mineral Chemistry of Clays Associated with the Late Cretaceous-Early Palaeogene Succession of the Um-Sohryngkew River Section of Meghalaya: Palaeoenvironmental Inferences and K/T boundary**” in abstracts “**International Symposium on Role of Earth System Sciences &**

Human Prosperity, ISAG, Hyderabad” (oral).

14. Nishi Rani, Vamdev Pathak and **J. P. Shrivastava** (2013) CO<sub>2</sub> mineral trapping: an experimental study on the carbonation of basalts from the eastern Deccan volcanic province, India Water Rock Interaction 14<sup>th</sup> International Conference, Avignon, France
15. Nishi Rani, **J.P. Shrivastava** and R.K. Bajpai (2013) Study of alteration mechanism of obsidian and barium borosilicate glass for its long-term assessment in geological repository. Glass and Optical Materials Division Annual Meeting American Ceramic Society, California, USA.
16. Nishi Rani, **J.P. Shrivastava** and R.K. Bajpai (2013) Deccan Traps associated obsidian glass: a nuclear waste containment. BASALT 2013, Germany
17. Vamdev Pathak, S.K. Patil and **J.P. Shrivastava** (2013) Palaeomagnetic, low field AMS and rock magnetic evidences from the lower part of the lava flow sequence from the Mandla lobe of the eastern Deccan volcanic province, India: Basalt 2013, International Seminar, Germany.
18. Vamdev Pathak, S.K. Patil and **J.P. Shrivastava** (2012) Palaeomagnetic, low field AMS and rock magnetic investigations on the basaltic flows of Mandla lobe: implications on their age and magma flow direction: AOGS, International seminar, 2012, Singapore
19. Pal, S., Srivastava, S. and **Shrivastava, J. P.** (2012) Compositional studies on detrital clays associated with the Jhilmili intertrappean bed in the eastern Deccan volcanic province: palaeoenvironmental implications and KTB national seminar, BHU, Varanasi.
20. Rani, N., **Shrivastava, J. P.** Bajpai, R. K. (2011) Alteration studies on nuclear waste and natural glasses for long-term performance assessment in geological repository national seminar on Geodynamics and Metallogenesis of the Indian lithosphere, 64, BHU, Varanasi.
21. Jha, S.K., **Shrivastava, J. P.** and Bhairam, C.L. (2011) Proterozoic uranium mineralization in lower formation of the Sonrai basin: evidence from the hydrothermally altered (tv-1M polytype) illite national seminar on Geodynamics and Metallogenesis of the Indian lithosphere, 107, BHU, Varanasi.
22. Patil, S.K., Pathak, V., **Shrivastava, J. P.** (2011) Palaeomagnetic, low field AMS and rock magnetic investigations on the basaltic flows of Mandla lobe: implications on their age and magma flow directions national seminar on Geodynamics and Metallogenesis of the Indian lithosphere, 88, BHU, Varanasi.
23. **Shrivastava, J. P.**, Mukhopadhyay, S K., Pal, S (2011) Compositional and thermodynamic components of the detrital clays from the Late Cretaceous-Early Palaeogene succession of the Um Sohryngkew river section of Meghalaya: Palaeoenvironmental inferences and KTB national seminar on Geodynamics and

Metallogenesis of the Indian lithosphere, 32, BHU, Varanasi.

24. Rani, N, **Shrivastava, J. P.** Bajpai, R. K.. (2011) Alteration studies of nuclear waste and natural Glasses for performance assessment in geological repository international seminar recent advancements in Earth Resources Research: The road to the Future (Earth-Future), 121-122, Salem, India.
25. Rani, N, **Shrivastava, J. P.** Bajpai, R. K. (2011) Chemico-mineralogical studies on impact glass from Lonar Crater: its suitability as natural analogue for nuclear waste glass. Abstract published in Glass and Optical Materials Division Annual Meeting American Ceramic Society, Savannah, Georgia.
26. Rani, N, **Shrivastava, J. P.** Bajpai R. K (2011) Nuclear Waste Disposal in the Impact Glass from Lonar Crater and its Long term Assessment in Geological Repository: Alteration Studies and Chemico-mineralogical Attributes National Seminar Recent Advances in Mineral Sciences and Their Applications, 118 - 119, MSI, Mysore.
27. Jha, S.K., **Shrivastava, J. P.** and Bhairam, C.L. (2011) Clay alteration associated with Proterozoic uranium mineralization in Bijawars of the Sonrai Basin in Abstract national seminar on “Recent advances in mineral sciences and their applications”, (Mysore) 120-122, University of Mysore.
28. Shrivastava, J. P, Mukhopadhyay, S K., and Pal, S. (2011) Chemico-mineralogical attributes of clays from Late Cretaceous-Early Palaeogene succession of the Um Sohryngkew River section of Meghalaya, India: Palaeoenvironmental inferences and K/Pg boundary in Abstract international seminar on “7<sup>th</sup> International conference on Asian Marine Geology”, 201, NIO, Goa
29. Ahmad, M., Srivastava, S. and **Shrivastava, J. P.** (2011) REE signatures in the clays associated with the intra-volcanic bole horizons of the eastern Deccan volcanics: Palaeoenvironmental implications. National Seminar Recent Advances in Mineral Sciences and Their Applications, 129 - 130, MSI, Mysore.
30. Shrivastava, J. P, Mukhopadhyay, S K., Srivastava, S and Pal, S. (2011) Trace elemental studies on detrital clays from late Cretaceous- early Palaeogene succession of the Um-Sohryngkew river section of Meghalaya, India: palaeoenvironmental implications and K/Pg boundary” in abstracts all- India seminar “GJCMSI-2011 & Nat. Sem. on Recent Advances in Mineral Sciences and Their Applications” 132-133, MSI, Mysore.
31. Rani, N, **Shrivastava, J. P.** Bajpai, R. K. (2010) Modelling of alteration behaviour of nuclear waste glass for long-term performance assessment in the geological repository in abstract National Mathematical Modelling of Natural Phenomena, Kolkata, INSA.
32. Jha, S. K., **Shrivastava, J. P.** and Bhairam, C. L. (2010) Clay mineralogical constraints on the palaeoenvironment of the Bijawar metasediments in the Sonrai Basin in Abstract national conference “Geology and Mineral resources of Bundelkhand craton GMRB-

2010". (Jhansi) 91-92, Jhansi.

- 33. Shrivastava, J. P.**, Mukhopadhyay, S K., Pal, S (2010) "Compositional studies on bole clays from the Early Cretaceous Sylhet Traps from Therriaghat section of Meghalaya: Palaeoenvironmental inferences" in abstracts all India seminars "National conference and XXVII- convention of Indian association of sedimentologists (IAS-2010)". (Jammu University) 17-18, IAS, Jammu.
- 34. Srivastava, S., Shrivastava, J. P.**, Mazumdar, A. and Naik, B. G. (2010). n-Alkanes and associated hydrocarbons in the intra-volcanic bole horizons from the Mandla lobe of the eastern Deccan volcanic province: palaeoenvironmental inferences. International Seminar, (Lucknow), 188 - 4, NBRI.
- 35. Raju Kumar and J. P. Shrivastava** (2010) Petrology and geochemistry of mafic dykes from eastern part of the Narmada-Son and Tapti lineaments. 6<sup>th</sup> International Dyke Conference, held at Banaras Hindu University Varanasi from 4-7 February 2010.
- 36. Nishi Rani, J. P. Shrivastava** and R. K. Bajpai. (2010) Study of corrosion mechanism in the obsidian glass in near hydrothermal conditions to assess its long-term performance in the geological repository. Homi Bhabha Birth Centenary Celebrations and National seminar on Advances in Atomic Science in India held at AMD, Hyderabad from 26-28<sup>th</sup> Aug. 2010.
- 37. Surendra Kumar Jha, J. P. Shrivastava** and C. L. Bhairam (2010) Clay mineralogical studies on Bijawars of the Sonari Basin, Lalitpur district, U. P. Homi Bhabha Birth Centenary Celebrations and National seminar on Advances in Atomic Science in India held at AMD, Hyderabad from 26-28<sup>th</sup> Aug. 2010.
- 38. Nishi Rani, J. P. Shrivastava** and R. K. Bajpai (2009) Aqueous alteration studies on obsidian under accelerated pressure – temperature conditions for long term performance assessments as suitable natural analogue for nuclear waste glass. National Seminar on geodynamics, sedimentation and biotic response in the context of India-Asia collision held at University of Mizoram, Aizwal from 26-28<sup>th</sup> Nov. 2009.
- 39. J. P. Shrivastava,** Nishi Rani and R. K. Bajpai (2009) Corrosion mechanism in the obsidian and its comparison with the nuclear waste glass for long-term performance assessment in the geological repository. National Seminar on geodynamics, sedimentation and biotic response in the context of India-Asia collision held at University of Mizoram, Aizwal from 26-28<sup>th</sup> Nov. 2009.
- 40. J. P. Shrivastava** and Mansoor Ahmad (2009) Clay mineralogical variations in the bole horizons from the eastern Deccan volcanic province: Duration of Deccan volcanism and K/Pg boundary. 14<sup>th</sup> International Clay Conference, held at Castellaneta, Marina, Italy from 14-20<sup>th</sup> June 2009.
- 41. Jitendra Kumar Nagar, Raj Kumar and J. P. Shrivastava** (2007) Chemico-mineralogical

study on indoor suspended particulate matter in the industrial areas of Delhi and its relationship with the respiratory allergy in children. *41<sup>th</sup> Annual conference of the Indian College of Allergy, Asthma & Applied Immunology (ICAAACON-2007)* (International Conference) held at Vallabhbhai Patel Chest Institute, University of Delhi 9-12 December, 2007.

42. Jitendra Kumar Nagar, Raj Kumar, Ritu Kulshrestha, Pawan Kumar, Alka Singh, Mahesh Meena, **J.P. Shrivastava** and S.N. Gaur (2007) Exposure of Indoor Air Pollution and Asthma in Children at Delhi, India. *41<sup>th</sup> Annual conference of the Indian College of Allergy, Asthma & Applied Immunology (ICAAACON-2007)* (International Conference) held at Vallabhbhai Patel Chest Institute, University of Delhi 9-12 December, 2007.
43. Raj Kumar, Jitendra Kumar Nagar, Pawan Kumar, Alka Singh, Mahesh Meena, Harsh Kumar, Dheeraj Kumar, Neelima Raj, S.N. Gaur, **J. P. Shrivastava** (2006) Indoor Air Pollutants and Rhinitis in Children in Delhi: an Exposure response study. *40<sup>th</sup> Annual convention of the Indian College of Allergy, Asthma & Applied Immunology (ICAAACON-2006)* (International Conference) held at Jalandhar, Punjab on 7-10 December, 2006.
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45. Nishi Rani and **J.P. Shrivastava** (2007) DST- Advance Training Course on “Modelling of Magmatic & Allied Processes” (28 September-11 October 2007) at Department of Geology, Kumaun University, Nainital, Uttarakhand.

**Total Publication Profile:** more than **83** research papers published

1. Nishi Rani, J. P. Shrivastava and R. K. Bajpai (*In Press*) Geochemical modelling of alteration behaviour of nuclear waste and natural glasses for long-term performance assessment in the geological repository. *Current Science*
2. Sucharita Pal, **J. P. Shrivastava** and Sanjay K. Mukhopadhyay (*In Press*) Mineral chemistry of clays associated with the late Cretaceous-early Palaeogene succession of the Um Sohryngkew river section of Meghalaya, India: Palaeoenvironmental inferences and K/Pg transition. *Geological Society of India*.
3. Sucharita Pal, **J.P. Shrivastava** and Sanjay K. Mukhopadhyay (2015) Physils and organic matter-base palaeoenvironmental records of the K/Pg boundary transition from the late Cretaceous-early Palaeogenesuccession of the Um-Sohryngkew River section of Meghalaya, India. <http://dx.doi.org/10.1016/j.chemer.2015.09.004>
4. J. P. Shrivastava, Nishi Rani and Vamdev Pathak (2015) Geochemical Modeling and Experimental Studies on Mineral Carbonation of Primary Silicates for Long-term

Immobilization of CO<sub>2</sub> in Basalt from the Eastern Deccan Volcanic Province. *Journal of Indian Geophysical Union, Special Volume*.pp 10-25.

5. Nishi Rani, J. P. Shrivastava and R. K. Bajpai (2015) Natural glass from Deccan volcanic province: an analogue for radioactive waste form. *International Journal of Earth Sciences*, DOI 10.1007/s00531-015-1244-5.
6. Sucharita Pal, **J. P. Shrivastava** and Sanjay K. Mukhopadhyay (2015) PAH excursions and K/Pg transition in the late Cretaceous-early Paleogene succession of the Um-Sohryngkew river section, Meghalaya. *Current Science. Current Science*, v. 109, No. 6, 1140-1050.
7. **J.P. Shrivastava**, Robert A. Duncan, Mamta Kashyap (2015) Post-K/PB younger 40Ar–39Ar ages of the Mandla lavas: Implications for the duration of the Deccan volcanism. *Lithos* 224–225 (2015) 214–224.
8. **J. P. Shrivastava**, J. J. Mahoney and M. R. Kashyap (2014) Trace elemental and Nd-Sr-Pb isotopic compositional variation in 37 lava flows of the Mandla lobe and their chemical relation to the western Deccan stratigraphic succession, India, *Mineralogy and Petrology*, v. 108:801–817 DOI 10.1007/s00710-014-0337-3.
9. **J. P. Shrivastava** and V. Sharma (2014) Compositional Variation in Magma through Early Neogene in the Northeast Indian Ocean: A Testimony from Glass Shards. *Journal Geological Society of India*. v. 84, pp.181-186.
10. Jitendra Nagar, **J. P. Shrivastava** and Raj Kumar (2014) Airborne Suspended Particulate Matter and its Impact on Human Respiratory System-Mineralogical Study from Shahdara and Shahzada Bagh areas in Delhi, *Georesources* (EDs; K. L. Shrivastava and Arun Kumar) Scientific Publishers, India. ISBN 978-81-7233-895-4.
11. **J.P. Shrivastava**, Sanjay K. Mukhopadhyay and Sucharita Pal (2013) Chemico-mineralogical attributes of clays from the late Cretaceous - early Palaeogene succession of the Um Sohryngkew river section of Meghalaya, India: Palaeoenvironmental inferences and the K/Pg boundary. *Cretaceous Research* v. 45 (2013) 247-257
12. Nishi Rani, **J. P. Shrivastava** and R. K. Bajpai (2013) Alteration Study of Sodium Borosilicate Glass under Hydrothermal-like Conditions. *Transactions of the American Nuclear Society*, Vol. 108, 151-153.
13. Nishi Rani **J. P. Shrivastava** and R. K. Bajpai (2013) Deccan Traps associated obsidian glass: a nuclear waste containment. *Current Science*. v. 105, No.3, pp 371-379.
14. Nishi Rani **J. P. Shrivastava** and R. K. Bajpai (2013) Alteration of sodium borosilicate

- glass under hydrothermal-like conditions. *Transactions of the American Nuclear Society*, pp 151-153.
15. Sucharita Pal, Surabhi Srivastava and **J. P. Shrivastava** (2012) Mineral Chemistry of Clays Associated with the Jhilmili Intertrappean bed in the Eastern Deccan Volcanic Province: Palaeoenvironmental inferences and KTB Transition, *J. Geological Society of India*, v. 82, pp 38-52.
  16. Nishi Rani, **J.P. Shrivastava**, and R.K. Bajpai (2013) Induced Near-Hydrothermal Alteration Studies on Nuclear Waste Glass and Natural Analogue (Obsidian) for Performance Assessment in Geological Repository *IN: Sustainable Future of the Earth's Natural Resources* (ED.) Mu. Ramkumar, *Springer Earth System Sciences, Springer-Verlag Berlin Heidelberg*, pp 285-316.
  17. Nishi Rani and Vamdev Pathak and **J. P. Shrivastava** (2013) CO<sub>2</sub> mineral trapping: an experimental study on the carbonation of basalts from the eastern Deccan Volcanic Province, India. *Procedia Earth and Planetary Science*, v. 7, pp 8065-809.
  18. Nishi Rani and R. K. Bajpai and **J. P. Shrivastava** (2013) Obsidian: alteration study under hydrothermal-like conditions for its assessment as a nuclear waste glass. *Procedia Earth and Planetary Science*, v. 7, pp 725-728.
  19. Sanjay Kumar Pandey, **J. P. Shrivastava**, Sucharita Paul and G. S. Roonwal (2013) Trace elements geochemistry and petrogenesis of basalt from the southern part of the East Pacific Rise, *J. Geol. Soc. of India*, v. 81, pp 91-100.
  20. Mansoor Ahmad, **J. P. Shrivastava** and Surabhi Shrivastava (2012) Microstructures and compositional variation in the intra-volcanic bole clays from the eastern Deccan volcanic Province: palaeoenvironmental implications and duration of volcanism. *J. Geol. Soc. India*, v. 80, pp 177-188.
  21. Rajesh Prakash and **Shrivastava, J. P.** (2012) A Review of the Seismicity and Seismotectonics of Delhi and adjoining areas *J. Geol. Soc. India*. *J. Geol. Soc. India*, v. 79, pp 376-382.
  22. Rani, N, **Shrivastava, J. P.** Bajpai R. K (2012) Near Hydrothermal alteration of Obsidian Glass: Implications for Long Term Performance Assessments. *J. Geol. Soc. India*. v. 79, pp 376-382.
  23. Mansoor Ahmad, **J. P. Shrivastava** and Surabhi Shrivastava (2012) REE abundance in the clays associated with the intra- volcanic bole horizons of the eastern Deccan Traps: palaeoenvironmental implications. *Proc. Indian Nat. Sci. Acad.*, v. 78, pp 59-69.

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45. Jitendra K. Nagar, **J. P. Shrivastava**, Raj Kumar Umesh Chandra Brijesh Rathi S. V. S. Rana Kafeel Ahmad (2007) Urban air pollution: a global environmental health problem - a review. *Bulletin of Environmental Sciences*, v. xxv, No. 3, pp 201-223.
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75. **Shrivastava, J. P.** (1981) Note on beneficiation of fluor spar ore of Karara deposit of Rajasthan. *Madhya Bharti*, v. 29-32, Part II, Sec. B, pp. 227-229.
76. **Shrivastava, J. P.** and Alexander, P. O. (1981) Estimation of Ni in soils – Comparison of

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77. **Shrivastava, J. P.** (1980) Microbial studies in geochemical exploration. *Madhya Bharti*, v. 26-28, Part II, Sec. B, pp. 77-79.

### **Articles: 8**

1. Nishi Rani, **J.P. Shrivastava**, and R.K. Bajpai (2013) Induced Near-Hydrothermal Alteration Studies on Nuclear Waste Glass and Natural Analogue (Obsidian) for Performance Assessment in Geological Repository *IN: Sustainable Future of the Earth's Natural Resources* (ED.) Mu. Ramkumar, Springer Earth System Sciences, Springer-Verlag Berlin Heidelberg, pp 285-316.
2. Nishi Rani, **J.P. Shrivastava** and Rakesh Bajpai (2011) Chemico mineralogical and dissolution studies on obsidian under near hydrothermal conditions for long-term performance assessments in geological repository. In: *Radioactive Waste* edited by: Dr. R. O. Abdel Rahman Hot Laboratory Center, Atomic Energy Authority of Egypt, Cairo, Egypt Intech Open Access Publisher.
3. Nishi Rani, Mansum P. Kashyap and **J. P. Shrivastava** (2009) Impact glass from Lonar Crater: A potential analogue for nuclear waste glass. Some glimpses on the origin and Evolution of the Deep Continental Crust, India (Eds: N. R. Karmalkar, R. A. Duraiswami, N. J. Pawar and Ch. Sivaji. Norosa Publishing House Pvt. Ltd., New Delhi, pp 203-216.
4. **J. P. Shrivastava** (2009) Book review on "A handbook of Minerals, Crystals, Rocks and Ores, by P. O. Alexander, *J. Geological Society of India*, v. 74, pp646-647.
5. **Shrivastava, J. P.** Ahmad M. and Raju Kumar (2008) Petrography, composition and petrotrogenesis of the basalts of the Chakhla – Delakhari intrusive Complex from the eastern Deccan volcanic province. India. *Indian Dykes: Geochemistry, Geophysics and Geochronology*, Norosa Pub. House Pvt., Ltd., pp 83-109.
6. **Shrivastava, J. P.** and Ahmad, M. (2005). Chemical Composition and Stratigraphic Correlation of Volcano-Sedimentary Sequences from Mandla Lobe of Eastern Deccan

Volcanic Province. *Gond. Geol. Magz., Spl.* v. 8, pp. 61-82.

7. Pujari, G.N. and **Shrivastava, J. P.** (2003). Threshold Estimation using Probability Plot for Biogeochemical Anomaly Interpretation in the Malanjkhanda Copper Province, Madhya Pradesh. In: *Computer Application in Mineral Development and Water Resource management, SAAEG volume* (Ed: K.L. Rai and others) pp 45-70.
8. **Shrivastava, J. P.** and Pattanayak, S.K. (1995). Nb-Zr-Y discrimination diagram: a testimony to MORB nature of Deccan Trap basalt. In: R.K. Shrivastava and R. Chandra (eds.) *Magmatism in relation to diverse tectonic settings. Oxford and IBH Pub. Co. Ltd., New Delhi*, pp. 429-438.
9. **Shrivastava J. P.** and Alexander, P.O. (1983). Nature of Copper mineralization at Malanjkhanda and its relevance for future prospecting programme. *Current Trends in Geology, Today and Tomorrow's Publications, New Delhi*, v. 7pp. 301-307.

#### **Conference Presentations**

More than 90 presentations and chairing sessions in the national and international conferences.

#### **Public Service / University Service / Consulting Activity**

1. Expert, UPSC, New Delhi
2. Expert member, Science Board, IGNOU, New Delhi
3. Member, Selection committee, PSC, Jharkhand
4. Expert, Banaras Hindu University, Varanasi
5. Expert, AMD selection committees
6. Expert, DRDO, New Delhi
7. Expert, Selection committee, Staff Selection Board, New Delhi
8. Expert, Selection Committee, University of Pune.
9. Expert, Selection Committee, Banaras Hindu University, Varanasi
10. Expert, Selection Committee, Aligarh Muslim University, Aligarh
11. Expert, Selection Committee, Mizoram University, Aizawal.
12. Expert, Staff Selection commission, Northern Region, New Delhi
13. Chairman, BOG nominee for Selection Committee, NSIT, Delhi
14. Member, Governing body of NSIT from 2005 - 2011

15. Warden, D.S. Kothari Hostel, Delhi University from 2000 - 2002

16. Member, Governing body, P. G. Men's Hostel from 2005 – 2011

17. Member, CSIR selection committee for RA and SRF-2015

### **Professional Societies Memberships**

1. International Association of Geochemistry
2. Member, International Association for the Study of Clays.
3. Life Member, Geological Society of India, Bangalore
4. Life Member, Mineralogical Society of India, Mysore
5. President, SAAEG
6. Life Member, Electron Microscopy Society of India.
7. Life member, Indian Association of Analytical Scientists.

### **Projects (Major Grants / Collaborations)**

#### **(A) Ongoing Research Projects: 5**

1. CO<sub>2</sub> sequestration studies on volcano-sedimentary succession of the eastern Deccan volcanic province. Sponsored by DST (**Grant Rs. 57, 00000**).
2. Compositional studies on soluble organic matter entrapped within clay sediments from the Late Cretaceous – Early Palaeogene succession of the Um-Sohryngkev river section of Meghalaya India: Palaeoenvironmental implications and KTB: Sponsored by CSIR, New Delhi (**Grant Rs. 27, 00000**).
3. Cosmogenic Be dating of the bole sediments of the Deccan Traps: palaeoenvironmental implications and duration of volcanism at KTB. Sponsored by Inter University Accelerator Center, New Delhi (**Grant: Rs. 10, 50, 000**)
4. Study of Corrosion Mechanism in Borosilicate Nuclear Waste Glass for long Term Performances Assessments in Geological Repository. Sponsored by Bhabha Atomic Research Center. (**Grant Rs. 27, 00000**).
5. Sr/Ce Ion Implantation and Long Term Performance Assessment of Nuclear Waste (Impact) Glass from Lonar Crater, Buldana Maharashtra (**Grant: Rs. 2,44,000**)

#### **(B) R & D Projects: Concluded 12**

1. Geochemical Flow Stratigraphy and Age of Basalts from Eastern Deccan Volcanic Province, India (ESS/CA/A6-07/91). Sponsored by Department of Science and Technology, New Delhi. **(Grant Rs. 4,07,000)**
2. Compositional and Structural Studies on the Smectites and Geopolymers of Ir enriched and other Infra-? Inter-trappean sediments: implications on Deccan Volcanism and KTB. (ESS/CA/A6-11/95) Sponsored by Department of Science and Technology, New Delhi. **(Grant Rs. 7, 82,000)**
3. Mineralogical and geochemical studies on the clay minerals of the intra-volcanic bole horizons from the Deccan Traps: Palaeoenvironmental implications and KTB. Sponsored by University Grants Commission, New Delhi. **(Grant Rs. 9, 89,000)**
4. Magmatism and hydrothermal activity on the fast spreading East Pacific Rise. (DOD/12 – MMDP/1/02) Sponsored by Department of Ocean Development, New Delhi. **(Grant Rs. 6,32,400)**
5. Study of corrosion mechanism in the basaltic Glasses (analogue for nuclear waste glass) for long-term assessments in geological repository. Funded by Delhi University. Funded by Delhi University **(Grant Rs. 2, 50000).**
6. Age and duration of Deccan volcanic activity in the eastern Deccan volcanic province, India. Funded by Delhi University **(Grant Rs. 2, 50000).**
7. Study of hydrothermal and chemical behavior of impact glass from Lonar area in the Buldana district of Maharashtra, India. Funded by Delhi University **(Grant Rs. 2, 50000).**
8. Paleomagnetic, Compositional and Tectono-magmatic Setting of Basaltic Lava Sequence from Mandla Lobe of the Eastern Deccan Volcanic Province. (ESS/16/286/2006). Sponsored by Department of Science and Technology, New Delhi. **(Grant Rs. 13, 00000).**
9. Petrochemistry and Petrogenesis of Mafic Dykes from the Eastern Deccan Volcanic Province between Narmada-Son and Tapti Lineaments (ESS/16/291/2006). Sponsored by Department of Science and Technology, New Delhi. **(Grant Rs. 24, 00000).**
10. Compositional studies on soluble organic matter entrapped within clay sediments, associated with intra-volcanic bole horizons from Deccan Traps: Palaeoenvironmental implications and KTB (F. No. 34-49\2008 (SR). Sponsored by University Grants Commission, New Delhi. **(Grant: Rs. 7.36800).**
11. Studies on hydrothermal sulphides (MoES/Hydro-Sulphides/04/08-PC-II, Government of India. Sponsored by Ministry of Earth Sciences, New Delhi **(Grant Rs. 47.973 Crores:**



**Delhi University component under Prof. J. P. Shrivastava, Rs. 55, 00000 approx.).**

12. Study of alteration mechanism under accelerated P-T conditions in the barium borosilicate nuclear waste glass for its long-term performance assessment in geological repository. Funded by Delhi University (**Grant Rs. 2, 50000**).
13. CO<sub>2</sub> sequestration studies on volcano-sedimentary succession of the eastern Deccan volcanic province (Funded by Department of Science and Technology, New Delhi, Vide Letter No. DST Reference No: IS- STAC/CO2-SR-79/10(G) **Grant: 59 lacs approx.**
14. Compositional studies on soluble organic matter entrapped within clay sediments from the Late Cretaceous-Early Paleocene succession of the Um-Sohryngkev river section of Meghalaya, India: palaeoenvironmental implications and KTB (Funded by CSIR, New Delhi Vide Letter No. 24(0315)/11/EMR-II, dated 20/04/2011) **14 lacs approx.**
15. Sr-Cs ion implantation and long term performance assessment of nuclear waste (impact) glass from Lonar Crater, Buldana Maharashtra. Funded by Delhi University (**Grant Rs. 2, 50000**).
16. Cosmogenic <sup>10</sup>Be dating of the clay sediments associated with the intra-volcanic bole horizons of the Deccan Traps: palaeoenvironmental implications and duration of volcanism at KTB. Funded by Inter University Accelerator Centre IUAC Letter No. IUAC/ III.01/1567 dated 11/04/2013. (**Grant: 12 Lacs approx.**
17. Compositional studies on clays and organic matter associated with the intra-cratonic Proterozoic Bijawar basin in Central India: alteration haloes and palaeoenvironmental control in the unconformity related U mineralization. Funded by BRNS-BARC Letter No. 36(5)/14/57/2014-BRNS/10272 dated 28/May 2015) **49 lacs approx.**
18. Geochemical Flow Stratigraphy, Age and Duration of Deccan Volcano-Sedimentary Succession from Koyna Drill-Core Site. Likely to be funded by the Ministry of Earth Science, Govt. of India. **34 lacs approx.**

**(C) Consultancy Projects Completed: 5**

1. Analysis of water samples with special reference to the grain size, mineral composition, physical and chemical characteristics. Sponsored by Indo-Canadian Consultancy Services Ltd. (**Cost Rs. 1,66,000**)
2. Grain size, mineral composition and chemical analysis of water samples. (**Cost Rs. 2,98,000**)
3. Grain size, mineral composition and chemical analysis of water samples. (**Cost Rs. 3,04,980**)
4. Analysis of water samples with special reference to the grain size, mineral composition, physical and chemical characteristics. Sponsored by Indo-Canadian Consultancy Services Ltd. (**Cost Rs. 20,700**).

5. Consultancy and training programme on silt analysis for two Scientific Officers from the Druk Green Power Corporation, CHP-Chhukha, Bhutan. (Cost Rs. 0.6 lacks)

#### Other Details

#### Scientist and Research Associate working under my supervision: 2

1. **Dr. Shilpi Saxena (2010 - 2013)**. Hydro Chemical Characterization and Pollutant Transport Study in the regime of groundwater at Najafgarh Basin in the South-Western part of Delhi sponsored by DST (WOS A), New Delhi (Cost Rs. 23,00,000)
2. **Dr. Nishi Rani (2011-2012)**. Alteration Studies of Induced Radioactivity in Obsidian Glass for High Level Nuclear Waste Immobilization sponsored by CSIR, New Delhi (Cost Rs. 10,89,000).
3. **Dr. Samba Cissokho (2014)** Geodynamic Context and Fluids Mineralizing of Massawa Gold Deposit Kedougou-Kenieba Inlier, Senegal (JPS-Academic Supervisor under Sir C. V. Raman International Fellowship by Department of Science and Technology, Government of India.
4. **Dr. Nishi Rani (2013-2014)** Immobilization of radionuclide and its diffusion in obsidian (natural analogue) for its suitability as nuclear waste glass. D. S. Kothari Post-Doctoral Fellow, UGC. Pune

#### Ph. D. Degree awarded under my supervision: 12

1. **Pattanayak, S.K. (1999)**. Geochemical Flow Stratigraphy of Basalts from Eastern Deccan Volcanic Province, India.
2. **Girdhar, Mukta (2001)**. Geochemistry and Petrogenesis of the Basalt from the Chakhla-Delakhari Intrusive Complex and their Chemical Correlations with the Lava Flows of the Eastern Deccan Volcanic province, India.
3. **Pujari, Gobinda Nanda (2002)**. Biogeochemical Studies around Malanjkhanda Copper Deposit, India.
4. **Ahmad, Mansoor (2006)**. Mineralogical and Geochemical Studies on Intra-volcanic Bole

Clays from Eastern Deccan Volcanic Province: Palaeoenvironmental Implications and K-T Boundary.

5. **Sanjay, Kumar Pandey (2008)**. Magmatism and Hydrothermal activity on the fast spreading East Pacific Rise.
6. **Jitendra Kumar Nagar (2010)** Airborne suspended particulate matter in the industrial area of Delhi and its effects on respiratory allergy in children.
7. **Rajesh Prakash (2010)** Seismicity and attenuation studies of Delhi and adjoining areas.
8. **Nishi Rani (2011)** Alteration studies on Nuclear Waste and natural Glasses for Long Term Performance Assessment in Geological Repository.
9. **Raju Kumar (2012)** Petrochemistry and petrogenesis of mafic dykes from eastern part of the Deccan volcanic province between Narmada-Son and Tapti lineaments.
10. **Mamta Ramesh Kashyap (2012)** Geochemical flow stratigraphy, age and petrogenesis of basalts from Mandla lobe of the eastern Deccan volcanic province, India.
11. **Surendra Kumar Jha (2014)** Compositional studies on clays and organic matter and their relevance to depositional mechanism and palaeoenvironmental control over uranium mineralization in Bijawars of the Sonrai basin.
12. **Sucharita Pal (2014)** Compositional Studies on Clays and Extractable Organic Matter Associated with the Late Cretaceous-Early Palaeogene Succession of the Um-Sohryngkew River Section of Meghalaya, India: Palaeoenvironmental implications and KTB boundary.
13. **Surabhi Srivastava (2015)** Compositional Studies on Organic Matter Associated with Clays of the Jhilmilli and Other Intertrappean Intra-volcanic Bole Beds from the Eastern Deccan Volcanic Province: Palaeoenvironmental Implications and K/Pg transition (submitted for the award)
14. **Vamdev Pathak (2015)** Palaeomagnetic, AMS and Rock Magnetic Studies on Lavas of the Mandla Lobe of the Eastern Deccan Volcanic Province, India. (submitted for the award)

**M. Phil degrees awarded under my supervision: 5**

1. **Salil, M.S. (1993)**. Comparative Mineralogy and Geochemistry of Infra- (Lametas)/ Inter-trappean Sediments and Weathered Deccan Volcanics.
2. **Raza, S.A. (1994)**. Petrography and Geochemical Flow Stratigraphy of Tholeiitic Basalt from Eastern Deccan Volcanic Province (Seoni-Jabalpur Traverse).
3. **Ahmad, Mansoor (2002)**. Mineral Chemistry and Petrogenesis of Basalts from Eastern Deccan Volcanic Province, India.
4. **Kumar, Raju (2006)**. Petrochemistry and Petrogenesis of Deccan Basalt Dykes, between Betul-Jabalpur areas of M. P (to be awarded).

5. **Surendra Kumar Jha (2010)** Compositional studies on clays and their palaeoenvironmental implications on uranium mineralization in Bijawars of the Sonrai basin.

**Ph. D. Thesis Reviewed:**

1. Geochemistry of crystalline rocks around Rayachoti, Cuddapah District and Kasturigattu, Nellore district, Andhra Pradesh India, and its bearing on uranium mineralization, submitted by **C. Sudhakar** for the award of Ph. D. of Bangalore University, Bangalore.
2. Geological investigations on search of mineralization in carbonatite-nephelinite, alkaline suite of Sanpa-Dandali Area, District Barmer, Rajasthan, submitted by **Yasmin Sayeed** for the award of Ph. D. Degree of Jodhpur University, Jodhpur.
3. Seismotectonics of deep crustal earthquakes in parts of Central Indian Sheer Zone with special reference to Jabalpur and its surrounding environs, submitted by **Sadanand Pimprikar** for the award of Ph. D. degree of Jabalpur University.
4. Comparative study of low cost and high cost DPW: Software focused on orthophoto production and its utility in GIS application for geo-environmental studies, submitted by **Manoj Kumar Gaur**, Department of Geology, Maharaja Ganga Singh University, Bikaner.
5. Petrological and geochemical investigation of the Behradih kimberlite from the Bastar Craton, Central India, with special reference to its diamond potential submitted by **Datta Mainkar**, Department of Applied Geology, National Institute of Technology, Pt. Ravishankar Shukla University, Raipur.
6. Hydrogeological and hydrogeochemical studies in and around Sehore town with special reference to Fluorine pollution (M. P.) India”, submitted by **Surndra Kumar Khatarkar**, Department Geology, Government Motilal Vigyan Mahavidyalaya, Barkatullah University, Bhopal, Bhopal (M. P.).
7. Petrology and geochemistry of syenite pluton and associated rocks of Elagiri, Tamil Nadu, Southern India, submitted by **Sharmistha Mukhopadhyay**, Department of Geology, University of Calcutta, Calcutta.
8. Environmental geo-scientific study of westernpart of Nokha Tehsil, District Bikaner,

Rajasthan, submitted by **Priti Parihar**, Department of Geology, Maharaja Ganga Singh University, Bikaner.

9. Magnetostratigraphic study of the Nhuban Formation (Surma Group) around Aizwal, Mizoram, submitted by **J. Malsawma**, Department of Geology, Mizoram University, Aizwal  
Submitted by J. Malsawma, Department of Geology, Mizoram University, Aizwal.
10. Geoenvironmental Assessment and Management Strategies of Groundwater around Kishengarh District, Ajmer, Rajasthan, submitted by **Mr. Manoj Panwar**, Department of Geology, Faculty of Science, Dungeer College, Maharaja Ganga Singh University, Bikaner.
11. Seismic Risk Assessment and Development of Seismic Disaster Management Plan for Hoshangabad City, District Hoshangabad (M. P.) using Remote Sensing Techniques, submitted by **Dilip Kumar Singh**, Department Geology, Government Motilal Vigyan Mahavidyalaya, Barkatullah University, Bhopal Bhopal (M. P.).
12. An evaluation of geo-exploratory developments and environmental management around Khetri, District Jhunjhunu, Rajasthan, India, *submitted by* **Manmohan Shukla**, Department of Geology, Government Dungeer College, Faculty of Science, Maharaja Ganga Singh University, Bikaner.
13. Geohydrological Studies of Balaghat Block, District Balaghat, Madhya Pradesh, *submitted by* **Mr. Mado Prasad Bisen**, Research Center, Department of Geology, Government Model Science College, Rani Durgavati Vishwavidyalaya, Jabalpur (M. P.).
14. Magnetostratigraphic study of the Surma and Tipam Groups in parts of the Kolasib District, Mizoram, *submitted by* **Paul Lalnunluanga**, Department of Geology, Mizoram University, Aizawl.
15. Geology and prospects of clay deposits around Kolayat, Bikaner, Rajasthan Submitted by **Mr. Bahagirath**, P. G. Department of Geology, Government Dungeer College, Faculty of Science, Maharaja Ganga Singh University, Bikaner.
16. Petrology and geochemistry of Deccan Trap lava flows around Linga, Chindwara District, Madhya Pradesh, Central India, *Submitted by* **Sohini Ganguly**, Department of Geology,

University of Calcutta, Calcutta.

17. Geological and geochemical studies on granitoids located on either side of Peddavoora schist belt and its bearing on uranium mineralization in Nalgoda district, Andhra Pradesh, India, *Submitted by Cinthala Ravi*, Geology Department, Osmania University, Hyderabad.
18. Sedimentological study of rocks around bidasar (Churu district) and their geological and tectonic setting *Submitted by Mr. Sukesh Jhakar*, P. G. Department of Geology, Government Dunder College, Faculty of Science, Maharaja Ganga Singh University, Bikaner
19. Hydrogeomorphological study of watersheds for prioritization and water resources development in Bharveli area, Tehsil and District - Balaghat (M. P.)” *Submitted by Mr. Trilok Singh Patle*, Department of Geology, Government Model Science College, Rani Durgavati Vishwavidyalaya, Jabalpur (M. P.)
20. Petrography, Geochemistry and Palaeontology of Carbonate Rocks of Shella Formation Occurring in and Around Shella-Ismati Area, East Khasi Hills District of Meghalaya (India)”. *submitted by Moloji Bora*, Department of Geological Sciences, Guwahati University, Guwahati
21. Nature and composition of crystalline basement below Deccan volcanic covered 1993 Latur - Killari earthquake region, Maharashtra, (India)” *submitted by Priyanka Tripathi*, CSIR-National Geophysical Research Institute, Hyderabad
22. Sedimentation model and hydrocarbon potential of the Barail Group of rocks from parts of the oilfield areas in Dibrugarh and Tinsukia Districts and adjoining fold-belt areas of Assam-Arakan basin, *submitted by Manas Kumar Sharma*, Dibrugarh University, Assam.
23. Study of geology and industrial characteristics of Tertiary clays of Bikaner and Nagaur regions *submitted by Sandeep Kumar*, Department of Geology, Government Dunder College, Faculty of Science, Maharaja Ganga Singh University, Bikaner

**Research Papers Reviewed:**

1. Geological Society of India, Bangalore (17 papers)
2. Current Science (6 papers)
3. Earth System Science (5 paper)
4. Indian Journal of Geochemistry (4 papers)
5. Journal of Asian Earth Sciences (2 papers)

**Students' Summer Training Programme:**

1. Ashutosh Kumar (2011) from IIT, Kharagpur: Clay mineral separation and analysis of Deccan Traps associated bole horizons.
2. Raj Kumar (2011) from IIT Kharagpur: Clay mineral separation and analysis of Deccan Traps associated bole horizons.
3. Narayan Shandilya (2011) Separation and analysis of extractable organic carbon from bole horizons associated with the Deccan Traps.
4. Abhimanyu (2011) Clay mineral separation and analysis from from Late Cretaceous-Early Palaeogene succession of the Um Sohryngkew River section of Meghalaya.
5. Shilpa (2011) Clay mineral separation and analysis from from Late Cretaceous-Early Palaeogene succession of the Um Sohryngkew River section of Meghalaya.

**International and National collaboration :**

1. On Pb-Sr-Nd isotopic composition of Deccan basalt: Professor J. J. Mahoney, University of Hawaii, SOESET, U. S.
2. On duration of Deccan volcanism: Professor Robert Duncan, Oregon University, U. S.
3. International Geological Correlation Programme: Geological Survey of India, Kolkata (Project Coordinator: Dr. S. K. Mukhopadhyay).
4. On hydrothermalism in the Indian ocean and Andaman Nicobar Islands: NGRI, Hyderabad, NIO, Goa and Inter IUAC, New Delhi.
5. On duration of Deccan volcanism: IUAC, New Delhi (with Dr. Sandeep Chopra and Pankaj Kumar).
6. On uranium mineralization in the Bijawars of the Sonrai basin: AMD, Hyderabad.
7. On organic matter associated with the infra/intertrappean sediments in the Deccan Traps:

NIO, Goa.

8. On organic matter associated with the Late Cretaceous- Early Palaeogene succession of the Um Sohryngkew River section of Meghalaya: NIO, Goa.

(Signature of Faculty Member)

(Signature & stamp  
of Head of the Department)