

Professor R.B. Singh: Brief CV

Dr. R.B. Singh is Professor of Geography since 2002 and Coordinator UGC-SAP-DRS III, Department of Geography, Delhi School of Economics, University of Delhi, Delhi-7, India. Earlier served as UGC Research Scientist-C/Professor (1996-2002), UGC Research Scientist-B/Reader (1988-1996) and Lecturer (1985-1988); Head, Department of Geography during 2013-2016. Prof. Singh is Vice-President, International Geographical Union (IGU) with a distinction of being only the Second Indian to get this honour after establishment of IGU in 1922; Under his Headship during 2013-2016 the Department of Geography received two prestigious recognitions: i) second position among all the departments of the University of Delhi in showcasing good practices at Antardhwani-2014 ii) Under QS World University Ranking the Department featured Rank 1 as the Best Institution in India for Geography. He is Springer Series Editor- Advances in Geographical and Environmental Sciences; IAP-Global Network of Science Academies representative on Disaster Risk Reduction. Invited by UN to Moderate a Working Group on Exposure and Vulnerability at UNISDR Science and Technology Conference on Sendai Framework of Disaster Risk Reduction, 2015-2030, Geneva January, 2016 and IAP invited as Panelist on Science Advise in Times of Disaster Emergencies in South Africa during 28 February – 2 March, 2016. He was awarded prestigious Japan Society for Promotion of Science (JSPS) Research Fellowship at Hiroshima in 2013 and Several Travel Fellowships/ Support from UNEP, UNITAR, UNISDR, IAP, UNU, UNCRD, WCRP, IAHS, IGU, NASDA, INSA, UGC, SICI, MAIRS and Univ. of Delhi etc. for participating and presenting papers, Chairing session and discussing research projects in USA, Canada, Mexico, Japan, Australia, France, Finland, Denmark, Spain, U.K., Netherlands, Norway, Germany, Switzerland, Russia, Georgia, Armenia, Poland, Czech Rep., Mongolia, Malaysia, Thailand, Egypt, China, Taiwan, Tunisia, Sweden, Israel, South Korea, Ireland, S. Africa, Brazil, Singapore, Sri Lanka, Indonesia, Nepal and Bhutan. Prof. Singh has specialized in Environmental Studies, Climate Change, Urban Regional Development, Disaster Management, Remote Sensing and GIS. He has to his credit 11 books, 33 edited research volumes and more than 200 research papers published in national and international journals (i.e. Climate Dynamics, Energies, Theoretical and Applied Climatology, Environmental Science and Policy, Physical Geography, Advances in Meteorology, Physics and Chemistry of the Earth, Agriculture, Ecosystem and Environment, Hydrological Processes, Mountain Research and Development, Journal of Mountain Science, Advances in Earth Science, Advances in Limnology, Asian Geographer, Environmental Economics, Tourism Recreation Research). He was Special Series Editor of prestigious journals like Sustainability, Advances in Meteorology, Physics and Chemistry of the Earth, NAM Today. In 1988 the UNESCO/ISSC (Paris) awarded him Research and Study Grants Award in Social and Human Sciences. He was also associated with prestigious international collaborative research programs such as ICSSR-IDPAD, CIDA-SICI, DFID and Ministry of Agriculture. He has supervised 31 Ph.D. and 74 M.Phil students. He was also associated with Nordic Inst. of Asian Studies, Copenhagen (Denmark) in 1998 and Visiting Professor for delivering invited Lectures at the University of Turku (Finland). He was as one of the contributors in the famous-The World Atlas-Earth Concise, Millennium House Ltd., Australia. He was invited by UGC for Preparing National Level CBCS Syllabus for Undergraduate Geography in 2015.

Professor R.B.SINGH: CV

Present Affiliation:

- Professor and Coordinator-UGC SAP DRS III, Department of Geography, Delhi School of Economics, University of Delhi, Delhi-110007, India. E-mail: rbsgeo@hotmail.com // rbsgeo2@gmail.com. Tel.: 91-11-27666783 (Office) 27553850 (Res.) Mobile: 91-9971950226
- Elected Vice President: International Geographical Union (IGU) (2012-2016) with an distinction of being only the Second Indian to get this honour after establishment of IGU in 1922.

Professional Experiences: Since 1983 serving as CSIR Pool Officer (1983-85) at BHU; and Lecturer (1985-83), UGC Research Scientist-B (Reader) (1988-96), UGC Research Scientist- C (Professor), (1996-2002), Professor (2002 onwards) at Department of Geography, Delhi School of Economics, University of Delhi, Delhi- 110007, India.

Education: M.A. in 1977, Ph.D. in 1981 (Geography), Diploma in Statistics in 1979 (all from the Banaras Hindu University), UNITAR Training in GIS Technology in the Field of Environment during 1988-89 from UNITAR/UNEP-GRID-Geneva and EPFL, Laussane (Switzerland).

Date of Birth: Third February, 1955.

Administrative Assignments

- Head, Department of Geography, DSE, University of Delhi, (2013-2016). Under his Headship during 2013-2016 the Department of Geography received two prestigious recognition i) second position among all the departments of the University of Delhi in showcasing good practices at Antardhwani-2014 ii) Under QS World University Ranking the Department featured Rank 1 as the Best Institution in India for Geography.
- Served as Provost (Acting), Warden and Resident Tutor of Gwyer Hall Hostel, University of Delhi for more than 13 years during April 1987 to September 2000.

Areas of Research Interest / Specialization

Environmental Studies, Climate Change, Urban Environment, Disaster Management, Remote Sensing and GIS.

Special Issue Guest Editor

Physics and Chemistry of the Earth, 2015

Advances in Meteorology, 2014

Sustainability, 2014

Nam Today, February 2016

International Award/Fellowship:

1. Invited by UN to Moderate a Working Group on Exposure and Vulnerability at UNISDR Science and Technology Conference on Sendai Framework of Disaster Risk Reduction, 2015-2030, Geneva January, 2016
2. IAP-Global Network of Science Academies invited as Panelist on Science Advise in Times of Disaster Emergencies in South Africa during 28 February – 2 March, 2016
3. Research Fellowship, Japan Society for the Promotion of Science (JSPS), Hiroshima, Japan, June-July 2013.
4. UNESCO/ISSC, Paris Research and Study Grant Award in Social & Human Sciences, 1988.
5. Visiting Professor and Lectures during short term visit in November, 2008 and August, 2010 at the Department of Geography, Univ. of Turku, Finland.

6. Guest Fellowship for Asian Scholar, Nordic Institute of Asian Studies, Copenhagen, Denmark during Sept.-Oct. 1998.
7. UNEP-UNITAR Fellowship for Training in GIS Technology in the Field of Environment, at EPFL-Lausanne and GRID-Geneva, October 1988 to April 1989.
8. Several Travel Fellowships/ Support from UNEP, UNITAR, UNU, UNCRD, WCRP, IAHS, IGU, NASDA, INSA, UGC, SICI, MAIRS and Univ. of Delhi etc. for participating and presenting papers, Chairing session and discussing research projects in USA, Canada, Mexico, Japan, Australia, France, Finland, Denmark, Spain, U.K., Netherlands, Norway, Germany, Switzerland, Russia, Georgia, Armenia, Poland, Czech Rep., Mongolia, Malaysia, Thailand, Egypt, China, Taiwan, Tunisia, Sweden, Israel, South Korea, Ireland, S. Africa, Brazil, Singapore, Sri Lanka, Indonesia, Nepal and Bhutan.

International / National Academic Recognition:

1. IAP Global Network of Science Academies Representative on DRR since 2015.
2. Nominated Coordinator: UGC SAP DRS III, Department of Geography, Univ. of Delhi, 2013-18.
3. Nominated Member-IUGG-IGU Nat. Committee, Indian National Science Academy (2008-2016).
4. Springer Series Editor: Advances of Geographical and Environmental Sciences.
5. UGC Invited for Preparing National Level CBCS Syllabus for Undergraduate Geography in 2015
6. Vice-Chair-IGU Commission on Biogeography and Biodiversity (2008-12)
7. Managing Editor- Nat. Asso. Of Geographers, India , NAGI (2010-13)
8. Elected Secretary General-Nat. Asso. Of Geographers India (2002-2010); Joint Secretary in 2001
9. Leader, INSA National Delegation to Tunis International Geography Congress, 2008, Tunisia.
10. Nominated Steering Comm. Members of Various Commissions - Int. Geographical Union (IGU) Commissions (1988-2008).
11. Dy. Coordinator, UGC-DRS Programme, Department of Geography, University of Delhi until 2012.
12. Nominated Special Representative-World Asso. Of Soil and Water Conservation, 2007-2010.
13. Associate Faculty, Global Earth System Governance Project of ESSP, The Netherlands since 2008.
14. Nominated Member Curriculum Development for Geoinformatics jointly nominated by UGC and Department of Space, Govt. of India.
15. Regional Promoter-South Asia, IGU Initiative Culture, Civilisations and Human Dev. 2006-2009.
16. Member, INSA National Delegation to Glasgow International Geography Congress, 2004
17. Elected Secretary, Hydrology Section, Asia-Oceania Geoscience Society, Singapore, 2004-2007.
18. Nominated Member –Study Group for Preparation of NCR Plan-2021, Govt. of India.
19. Nominated Member-Board of Studies, TERI School of Advanced Studies, New Delhi since 2003.
20. Nominated Member, UGC Xth Plan Visiting Team to University of Pune (2002).
21. South Asian Rep. in Managing Board of Commonwealth Geographical Bureau (1992-2000).
22. Nominated Member, ICAR Programme Impl. Comm. on Land Use/Cover Change and Food Security in Indo-Gangetic Plain.
23. Past Expert - Glossary of Geography, Comm. of Sc. & Tech. Terminology, Government of India, NRC for Evn. Education, NCERT.
24. Editor, Asso. of Geographical Studies, Delhi University- 2002-2007.
25. Member, Advisory Council, Bulletin of Geography, Socio-Economic Series, 2013.
26. Member-Editorial Advisory Board, Indian Jl. Of Development Research and Social Action.
27. Member-Editorial Board, Journal of Water & Land Use Management.
28. Member-Editorial Board, North Eastern Geographer.
29. Member-Editorial Advisory Board, The Horizon-A Journal of Social Science.
30. Chairman - NAGI -Comm. on Env. Monitoring and GIS since 1989-2000.
31. Expert Committee Member: UGC/CEC-EDUSAT.
32. Elected Recorder - Earth System Science Section of Indian Science Congress Association (1996-98).

Courses Taught

Taught courses to M. A., M. Phil. And Ph.D. programme at University of Delhi: Environment and Ecology, Fundamentals of Remote Sensing and GIS, Environmental Impact Assessment, Urban Impacts on Natural Resources and Environment, Environmental Studies, Ecological Issues in Development, Environmental Security: Problems and Policies, Man and Environment, Biogeography, Regional Planning & Development.

Undertaken Collaborative Major Research Projects:

1. Principal Investigator: Livelihood Security in Changing Socio-Economic Environment in Himachal Pradesh, India (2012 onwards) collaborated with University of Turku, Finland.
2. Co-Investigator: Shastri Applied Research Project (SHARP) on Role of Public, Private and Civil Sectors in Sustainable Env. Management (2003-2005) collaborated with Univ. Of Manitoba and the University of Winnipeg, Winnipeg, Canada.
3. Project Director: ICSSR -Indo-Dutch Programme on Alternative in Dev. (IDPAD) on Environmental Implications and its Socio-Economic Implications in Rural-Urban Fringe of Delhi -Univ. of Delhi & Univ. of Groningen, The Netherlands. (1997-2002).
4. Chief Co-investigator-CIDA-SICI Partnership Project-II on Urban Development and Environmental Impacts in Mountain Context, Univ. of Delhi & Univ. of Manitoba, Canada. (1998-2002)
4. Project Director, DFID Res. Project on Enhancing Food Chain Integrity...Pollution Impact on Vegetable System (2000-2) in Peri-Urban Areas, Collaboration with Imperial College, London, UK.
5. Chief Co-investigator-CIDA-SICI Partnership Project-I on Sustainable Development of Mountain Environment in India and Canada, Univ. of Delhi & Univ. of Manitoba, Canada, (1994-1997).
6. Project Director: Ministry of Agriculture Project for Preparation of Perspective Plan for Land Resources in N. Zone, India (1994).

LIST OF PUBLICATIONS AND RESEARCH SUPERVISION

A. Published Books/Atlas:

1. Panwar, M., Sharma, S.K. and **Singh, R.B.:** Medicinal Plants and Sustainable Livelihood, R.K.Books, New Delhi, Pages 342, 2010.
2. **Singh, R.B.** and Mal, Suraj: Environmental Change and Biodiversity, Rawat Publication, Jaipur, 2009.
3. Dey, B. and **Singh, R.B. :**Natural Hazards and Disaster Management, CBSE, Delhi, pages 45, 2006. www.cbse.nic.in/natural%20hazards%20&%20disaster%20management.pdf (*Internet Pub.*)
4. **Singh, R.B.:** Risk Assessment and Vulnerability Analysis, IGNOU PG Diploma in Disaster Management- MPA-003, New Delhi., pages 355, 2005.
5. Kumar, B. and **Singh, R.B:** Urban Development and Anthropogenic Climate Change-Experience in Indian Metropolitan Cities, Manak Pub., New Delhi, pages 216, 2003.
6. **Singh, R.B.:** Practical Work in Geography, Part 2, Text Book for Class XII, NCERT, New Delhi, pages 58, 2003.
7. Sen Roy, S. And **Singh, R.B.:** Climate Variability, Extreme Events and Agricultural Productivity in Mountain Regions, Oxford & IBH Pub., New Delhi, pages 232, 2002.
8. **Singh, R.B.:** Practical Work in Geography, Part 1, Text Book for Class XI, NCERT, New Delhi, pages 65, 2002.
9. **Singh, R.B.:** Space Technology for Disaster Monitoring and Mitigation in India, INCEDE, Inst. Of Industrial Science, University of Tokyo, Pages 58, 1994.
10. **Singh, R.B.:** Geography of Rural Development, New Delhi, Inter India Publisher, 1986.
11. Singh, R.P.B. and **Singh, R.B.:** Changing Frontiers of Indian Village Ecology, Varanasi, Banaras Hindu University-NGSI, 1981.

B. Edited Research Volumes:

12. **Singh, R.B.**, Schickhoff and Suraj Mal: Climate Change, Glacier Response, and Vegetation Dynamics in the Himalaya, Springer, Switzerland, pages 399, 2016.
13. **Singh, R.B.** : Environmental Geography of South Asia, Contributions toward a future earth Initiative, Springer, Tokyo, Pages 351, 2015
14. **Singh, R.B.** : Urban Development Challenges, Risk and Resilience in Asian Mega Cities-Sustainable Urban Future of Emerging Asian Mega Region, Springer, Tokyo, Pages 488, 2015.
15. **Singh, R.B.** and Hietala, R. : Livelihood Security in Northwestern Himalaya, Springer, Tokyo, Pages 258, 2014.
16. Singh, Mehtab, **Singh, R.B.** and M.I.Hasan : Climate Change and Biodiversity, Springer, Tokyo, 2014.
17. Singh, Mehtab, **Singh, R.B.** and M.I.Hasan : Landscape Ecology and Water Management, Springer, Tokyo, 2014.
18. **Singh, R.B.**: Progress in Indian Geography-A Country report, Indian National Science Academy, New Delhi, Pages 198, 2012.
19. Himiyama, Y., Kanda, F., **Singh, R.B.** and Hindson, J.: Glocal Environmental Education, Rawat Publications, Jaipur, Pages 246, 2010.
20. **Singh, R.B.**: Biogeography and Biodiversity, Rawat Publications, Jaipur, Pages 340, 2009.
21. Gritzner, Charles F. et al.: The World Atlas-Earth Concise (Jointly with several other Contributors including **R.B. Singh**), Millennium House Ltd., NSW, Australia, pages 576, 2008.
22. Jha, M.M. and **Singh, R.B.**: Land Use-Reflection on Spatial Informatics, Agriculture and Development, Concept Publishing Company, New Delhi, Pages 318, 2008
23. Mohammad, N., **Singh, R.B.** and Datta, A.: Spatial Information Technology for Natural Resources Management, Concept Publishing Company, New Delhi, Pages 180, 2007.
24. Park, Namsik, Nakakita, E., Yoo, C. and **Singh, R.B.**: Advances of Geosciences: Vol. 4: Hydrological Sciences (HS), Ed., World Scientific Publishing Co., Singapore, Pages 295, 2006.
25. **Singh, R.B.**: Natural Hazards and Disaster Management, Rawat Pub., Jaipur, Pages 352, 2006.
26. **Singh, R.B.**: Sustainable Urban Development, Concept Publishing Company, New Delhi, Pages 431, 2006.
27. **Singh, R.B.**: Human Dimensions of Sustainable Development, Rawat Pub., Jaipur, pages 279, 2002
28. **Singh, R.B.**: Urban Sustainability in the Context of Global Change, Science Pub., Inc., Enfield (NH), USA and Oxford & IBH Pub., New Delhi, Pages 282, 2001.
29. **Singh, R.B.**, Fox, J. and Himiyama, Y.: Land Use and Cover Change, Science Pub., Inc., Enfield (NH), USA and Oxford & IBH Pub., New Delhi, pages 299, 2001.
30. **Singh, R.B.**: Disaster Management, Rawat Pub., Jaipur, pages 333, 2000.
31. **Singh, R.B.** and Murai, Shunji: Space Technology for Sustainable Development, Oxford & IBH Publisher, New Delhi, 1998 , pages, 368.
32. **Singh, R.B.**: Sustainable Development of Mountain Environment of India and Canada, New Delhi, Oxford & IBH Pub., 1998, Pages 345.
33. **Singh, R.B.**: Ecological Techniques and Approaches to Vulnerable Environment, New Delhi, Oxford & IBH Pub., pages 255, 1998.
34. Becker, A. et al.: Predicting Global Change Impacts on Mountain Hydrology and Ecology: Integrated Catchment Hydrology/ Altitudinal Gradient Studies, (Together with others including **R.B.Singh**), IGBP Report 43, Royal Swedish Academy of Sciences, Stockholm, Pages 61, 1997.
35. **Singh, R.B.** and Majoral, R.: Development Issues in Marginal Regions, New Delhi, Oxford & IBH Pub., 1996, Pages 310.
36. **Singh, R.B.** and Misra, S.: Environmental Law - Issues and Responses, New Delhi, Concept Pub., 1996, Page 303.
37. **Singh, R.B.**: Disasters, Environment and Development, New Delhi, Oxford & IBH Pub., Pages 600, 1996.

38. **Singh, R.B.:** Research in Geography, Vol. II Disaster and Environment - Monitoring and Forecasting, New Delhi, APH Pub., 1996, Pages 357.
39. **Singh, R.B.:** Research in Geography, Vol I - Land Use Changes and Sustainable Development, New Delhi, APH Pub., 1996, Pages, 335.
40. **Singh, R.B.** and Haigh, Martin J.: Sustainable Reconstruction of Highland and Headwater Regions, New Delhi, Oxford & IBH Pub. 1995, Pages 681.
41. **Singh, R.B.:** Global Environmental Change-Perspectives on Remote Sensing and GIS, New Delhi, Oxford & IBH Pub., 1995 Pages 321.
42. **Singh, R.B.:** Environmental Monitoring - Application of Remote Sensing and GIS, Hong Kong: Geocarto Int. Centre, Pages 192, 1991.
43. **Singh, R.B.:** Dynamics of Mountain Geosystems, New Delhi: Ashish Pub., 1991, Pages 375,
44. **Singh, R.B.:** Environmental Geography, Contribution to Indian Geography Vol. XI, New Delhi, Heritage Pub., 1990, Pages 352 XV.

C. Research Papers Published in Foreign Journal/Peer Reviewed Publications with Impact Factor

1. Singh, R.B., Janmajaya, Dhaka, S.K. and Kumar, V. (2015). Study on the association of green house gas (CO₂) with monsoon rainfall using AIRS and TRMM satellite observations, Physics and Chemistry of Earth, 89-90 (2015), dx.doi.org/10.1016/j.pce.2015.04.004, 65-72.
2. O'Shea, P. M., Roy, S. S., & Singh, R. B. (2015). Diurnal variations in the spatial patterns of air pollution across Delhi. *Theoretical and Applied Climatology*, 1-12. DOI: 10.1007/s00704-015-1441-y
3. Singh, R.B. and Kumar, Ajay (2015). Climate variability and water resource scarcity in drylands of Rajasthan, India, *Geoenvironmental Disasters*, 2:7, DOI 10.1186/s40677-015-0018-5, 1-10.
4. **Singh, R.B.** and Grover, Aakriti (2015). Analysis of urban heat island (UHI) in relation to Normalized Difference Vegetation Index (NDVI): A comparative study of Delhi and Mumbai. *Environments*, 2, 125-138; doi:10.3390/environments 2020125..
5. **Singh, R.B.**, Haque, Senaul and Grover, Aakriti (2015). Drinking water, Sanitation and Health in Kolkata Metropolitan City: Contribution towards Urban Sustainability, *Geography, Environment, Sustainability*, No. 4, (V.08).
6. **Singh, R.B.**, Grover, Aakriti and Zhan, Jinyan (2014). Inter-Seasonal Variations of Surface Temperature in the Urbanized Environment of Delhi Using Landsat Thermal Data, *Energies* 7, doi:10.3390/en7031811,
7. **Singh, R.B.** and Grover, Aakriti (2014). Remote sensing of urban microclimate with special reference to urban heat island using Landsat thermal data. *Geographica Polonica*, 87(4), 555-568, DOI: 10.7163/GPol.2014.38
8. **Singh, R.B.** (2014). Emerging frontiers, challenges and changing professional avenues for geographers in the contemporary world. *Geographica Polonica*, 87(2), 203-212, DOI: 10.7163/GPol.2014.12
9. **Singh, R.B.** and Shi, C. (2014). Advances in Observation and Estimation of Land Use Impact on Climate Changes: Improved Data, Upgraded Models and Case Studies, *Advances in Meteorology DX*. DOI.org/10.1155/2014/748169.
10. **Singh, R.B.** and Suraj Mal: Trends and Variability of Monsoon and other Rainfall Seasons in Western Himalaya, *Atmospheric Science Letters*, DOI: 10.1002/asl2.494, 2014.
11. Sahu, N., **Singh, R.B.**, Kumar, Pankaj, Da Silva, R.V. and Behera, S.K: La Nina Impacts on Austral Summer Extremely High-Streamflow Events in the Paranaiba River in Brazil, *Advances in Meteorology DX*. DOI.org/10.1155/2013/461693, 2013.

12. Sahu, N., Behera, S.K., Ratnam, J.V., Da Silva, R.V., Parhi, P., Duan, W., Takara, K., **Singh, R.B.** and Yamagata, T.: El Nino Modoki Connection to Extremely-Low Streamflow of the Paranaiba River of Brazil, *Climate Dynamics*, DOI 10.1007/s00382-013-2006-3, 2014.
13. Ma, Maohua, Haapanen, Toni, **Singh, R.B.** and Hietala, R.: Integrating Ecological Restoration into CDM Forestry Projects, *Environmental Science and Policy*, Vol. 30, 2013.
14. Mal, Suraj and **Singh, R.B.**: Differential Recession of Glaciers in Nanda Devi Biosphere Reserve, India, *IAHS Red Book 360*, pp. 71-76, 2013.
15. **Singh, R.B.**, Gahlot, S. and Singh, Anju: Ecohydrological Perspectives of Declining Water Sources and Quality in Traditional Water Bodies in Delhi, *IAHS Red Book 361*, :pp. 361-68, 2013.
16. **Singh, R.B.** and Anand, Subhash: Geodiversity, Geographical Heritage and Geoparks in India, *International Jl. Of Geoheritage*,1(1), pp 10-26, 2013.
17. Anand, Anupam, Chandan, Pankaj and **Singh, R.B.**: Homestays at Korzok: Supplementing Rural Livelihoods and Supporting Green Tourism in the Indian Himalayas, *Mountain Research and Development*, 32(2), 2012:pp.126-36.
18. Ma, Maoha, **Singh, R.B.** and Hietala, H.: Human driving forces for ecosystem services in the Himalayan region, *Environmental Economics*, 3(1), 2012: pp. 53-57.
19. **Singh, R.B.** and Kumar, Dilip: Remote sensing and GIS for land use/cover mapping and integrated land management: case from the middle Ganga plain, *Front. Earth Sci.*, 6(2), 2012
20. Sahu, Netranand, Yamashiki, Y, Avatar, Ram, **Singh, R.B.** and Takara, Kaoru: Impact of ENSO on the Paranaiba Catchment, Brazil, *Annuals of Disas. Prev. Res. Inst.*, Kyoto University (Online Jl.), No.55B, 2012.
21. **Singh, R.B.** and Kumar, Ajay: Climate Variability in Dry Regions of India: Case Study of Rajasthan, *Scientific Annals of Alexandru IOAN CUZA University of IASI*, Vol.L VIII, pp.59-76, 2012.
22. **Singh, R.B.** and Singh, S.: Rapid Urbanization and Induced Flood Risk in Noida, India, *Asian Geographer*, Vol. 28, Issue 2, 2011, pp. 147-69.
23. Sen Roy,S., **Singh, R.B.** and Kumar, Manoj: An Analysis of Local Spatial Temperature Patterns in the Delhi Metropolitan Area, *Physical Geography*, Vol. 32, pp. 114-38, 2011.
24. Sahu, Netranand, Yamashiki, Y, Takara, Kaoru and Singh, **R.B.**: An Observation on the Relationship between Climate Variability Modes and River Discharges of the Citarum Basin, Indonesia, *Annuals of Disas.Prev.Res. Inst.*, Kyoto University (Online Jl.), No.54B, pp. 49-55, 2011
25. **Singh, R.B.** and Kumar, Subodh: Mountain Risks in Downstream Water Resource Management in Upper Bhagirathi Basin, Indian Himalayas, *IAHS Red Book Pub. 347*, pp. 49-54, 2011.
26. **Singh, R.B.** and Chandana, Vaneeta: Spatial Analysis of the Yamuna Water Quality in Pre and Post Monsoon Periods, *IAHS Red Book Pub. 348*, pp. 8-13, 2011.
27. **Singh, R.B.**, Mal, Suraj and Kala, C.P.: Community Response to Mountain Tourism-A Case in Bhyundar Valley, Indian Himalaya, *Journal of Mountain Science*, Vol.6, No.4, December, pp.394-404, 2009.
28. **Singh, R.B.**: Integrated Water Resources Management in the Vulnerable Indian Environment, *IAHS Red Book 330*, pp. 187-93, 2009.
29. Goel, A. and **Singh, R.B.**: Sustainable Forestry in Mega-cities of India for Mitigating Carbon Sequestration: Case Study of Delhi, *Advances in Earth Science*, Vol.21, No.2, Feb., pp.144-150, 2006.
30. Goel, A. and **Singh, R.B.**: Climate Variability and Drought in Rajasthan, in *Advances of Geosciences: Vol. 4: Hydrological Sciences (HS)*, Ed., World Scientific Publishing Co., Singapore, pp. 57-68, 2006.
31. **Singh, R.B.** and Mishra, D.K.: Green Tourism in Mountain Regions-reducing Vulnerability and promoting People and place Centric Development in the Himalayas, *Journal of Mountain Science*, Vol. 1, No. 1, pp. 57-64, 2004.

32. **Singh, R.B.:** Assessment of Wastewater Generation, Management Pattern and its Re-Use Potential in Urban India, IAHS Red Book 285, pp. 19-22, 2004.
33. Gardner, James, Sinclair, John, Berkes, Fikret and **Singh, R.B.:** Accelerated Tourism Development and its Impacts in Kullu-Manali, H.P., India, In Tourism Recreation Research, Vol. 27 (3), pp. 9-20, 2002.
34. **Singh, R.B.:** Sustainable Management of Water Resources in an Agriculturally Developed Region of the Indo-Gangetic Ecosystem, India, Pub. In FRIEND 2002-Regional Hydrology: Bridging the Gap Between Research and Practice, IAHS Red Book 274, pp. 315-21, 2002.
35. **Singh, R.B.:** Impact of Land-use change on groundwater in the Punjab-Haryana Plains, India, Pub. In Impact of Human Activity on Groundwater Dynamics, IAHS Red Book 269, pp. 117-122, 2001.
36. **Singh, R.B.:** Sustainable Regional Water Management in the Yamuna River Basin: Case Study of Delhi Region, Pub. In Regional Management of Water Resources, IAHS Red Book 268, pp. 25-32, 2001.
37. **Singh, R.B.:** Environmental Consequences of Agricultural Development: A Case study from the Green Revolution State of Haryana, India, In Agriculture, Ecosystem and Environment, 1637, 2000, 1-7.
38. **Singh, R.B.:** Land Use and Cover Change and Comprehensive Food Security in the Indo-Gangetic Plains: Challenges and Responses, Journal of Geography Education, Vol. 43, pp. 27-31, 2000.
39. **Singh, R.B.:** Urban Impact on Groundwater Quality in the Delhi Region, IAHS Red Book 259, pp. 227-234, 1999.
40. Duffield, C., Gardner, J.S., Berkes, F. and **Singh, R.B.:** Local Knowledge in the Assessment of Resource Sustainability: Case Studies in Himachal Pradesh, India and British Columbia. Canada, Mountain Research and Development, vol.18, No.1, 1998, pp. 35-49.
41. **Singh, R.B.:** Land Use/Cover Changes, Extreme Events and Ecohydrological Responses in the Himalayan Region, in Hydrological Processes, 12, 1998.
42. **Singh, R.B.** and Verma, R.P.: Monitoring Hydrological Parameters and Sustainable Water Resource Development in the Mahanadi River Basin, Acta hydrotechnica, 15/19, 1997, pp.159-162.
43. **Singh, R.B.:** Water Resources Monitoring for Environmental Sustainability under increasing uncertainty in the Himalayan Region, In Sustainability of Water Resources Under Increasing Uncertainty, IAHS Red Book 240, 1997, pp. 479-485.
44. **Singh, R.B.** and Pandey, B.W.: Environmental Monitoring of Particulate Matter and Pollution in Major Rivers of India, in Particulate Matter in Rivers and Estuaries, Hamburg: Max Planck Inst. pp. 246-251, 1994, published in Advances in Limnology, Vol. 47, 1996. pp.557-561.
45. **Singh, R.B.:** Spatial Distribution of rural Settlement System: Micro-Level Indian Case Study, Asian Geographer, Vol. 1, No. 2, 1982, pp. 51-56.
46. **Singh, R.B.:** The role of Education in Rural Development : Spatial and Structural Strategy in Rural India, The Indonesian JI. of Geography, Vol. 10, No. 39, 1980, pp.45-53 also published in Human Resource Development, Vol. Ed. A. Kumar, Anmol Pub., New Delhi, 1991
47. Singh, Rana P.B. and **Singh, R.B.:** Ecological Perspectives of Rural Development in North Indian Plain: A Case of Siwan District, Geographica, Vol. 13, 1979, pp. 49-57.
and Uttarakhand Himalaya, World Focus, October 2015, 23-33.

D. Research Papers Published in Indian Journals:

48. Singh, R.B. and Kumar, Ajay (2015). Understanding climate change-induced disasters for sustainable future earth, case studies of Rajasthan
49. **Singh, R.B.,** Pandey, B.W. & Prasad, Abhay Shankar (2014) Adaptation strategies for flood risk mitigation in lower Brahmaputra river basin, Assam through integrated river basin management, Transactions (Journal of the Institute of Indian Geographers), 36(2), 159-170.

50. **Singh, R.B.**, Pandey, B.W. & Prasad, Abhay Shankar (2014). Extent and Magnitude of Flood due to Soil Erosion in Lower Brahmaputra River Basin Assam. *Annals of the National Association of Geographers India (NAGI)*, 34 (2), 162-179.
51. Thakur, Swati and Singh, R.B. (2014). Climate variability in the foothills of Indian Central Himalayan Region, *Regional Symbiosis*, Vol.22, 51-64.
52. **Singh, R.B.**, Pandey, B.W. & Prasad, Abhay Shankar (2014). Living With Flood and Sustainable Livelihood Development in Lower Brahmaputra River Basin Assam. *Golden Research Thoughts* 3(10), 1-10.
53. **Singh, R.B. & Janmajaya, M.** (2014). Anthropogenic activities impacting temperature variations over Delhi, *International Journal of Applied Sciences and Humanities*, 14, 54-60.
54. **Singh, R.B. & Janmajaya, M.** (2014). Monsoon: mechanism, variability and emerging issues, *International Journal of Applied Sciences and Humanities*, 3, 88-92.
55. **Singh, R.B. & Kumar, A.** (2013). Land use land cover change in peripheral National Capital Region: A case study of Alwar district, Rajasthan *Journal of Water and Land use Management* 13(2) 13-24 (ISSN 0973-9300)
56. **Singh, R.B. & Kumar, A.** (2013). Impact of changing monsoon pattern on dryland agriculture in India: A case of Nagaur district, Rajasthan, *Journal of water and land use management*, 13(1),1-14.
57. Mehtab Singh and **R.B.Singh**: Change in Land Use and Land Cover through Watershed Development Programme: A Case of Nakti Nadi Sub Watershed in Haryana Shiwaliks, *The Horizon-A JI. Of social Science*, Vol.4 (1), pp.11-19, 2013.
58. **Singh, R.B.** and Nath, Rituparna: Remote Sensing, GIS and Micrometeorology for Monitoring and Predicting Urban Heat Islands in Kolkata Mega City, *Annals of NAGI*, Vol. 32 (1), pp.17-39, 2012.
59. Gupta, Rupesh and **Singh, R.B.**:Population Growth and Land Use Change Analysis of Jaipur City using Remote Sensing and GIS Techniques, *Hill Geographer*, 27 (1&2), pp.75-84, 2011.
60. **Singh, R.B.** and Kumar, Rajesh: Assessment of Climate Variability in the Dry Regions of Haryana, *Journal of Landscape Systems and Ecological Studies*, Vol. 34 (2), pp.23-32, 2011.
61. **Singh, R.B. and Gurjar, A.K.:** Climate change Vulnerability of Agriculture in Arid Region of Rajasthan, India, *Annals of NAGI*, 30 (1), pp. 22-38, 2011.
62. **Singh, R.B.** and Kumar, Subodh: Hazard Risk Assessment and Disaster Management Strategies in Mountains, *World Focus*, Vol. 32, No.3, pp.143-52, 2011.
63. **Singh, R.B.:** Geospatial Information Technology for Governance and Education in India: Focus on Disaster Management and Agriculture Development, *Charmanvati: Research JI. Of Geography*, Vol. 10, pp. 1-10, 2010.
64. Sati, V.P. and **Singh, R.B.:** Migration and Agrarian Changes in Mountain Regions: A Case Study of the Pindar Basin of Uttarakhand Himalaya, India, *Annals of the Nat. Ass. Of Geographers, India (NAGI)*, Vol. 29, No. 1, June, pp. 20-33, 2009.
65. **Singh, R.B.:** Remote Sensing and Geographical Information System, Pub. In *Geography in India- Selected Themes*, Ed. L.S.Bhat, Pearson, Delhi, pp.203-257, 2009. Also see *Remote Sensing Research in India: Trends and Prospects in Trans. Inst. Indian Geographers*, Vol. 15, No. 1, 1993, pp. 71-83 also pub. in *Third World Impact*, June-Aug. 1993.
66. **Singh, R.B.:** Mitigating Natural Disasters for Achieving Inclusive Development and Human Security in India, In *Journal of Social Science*, Vol. 10, No.2, July-December, pp 258-72, 2008.
67. **Singh, R.B.** and Chauhan, G.S.: Hydrology for sustaining Planet Earth and Biodiversity: Indian Experience, *Indian National Geographer*, Vol. 23, No. 1&2, pp. 1-6, 2008.
68. **Singh, R.B.** and Anand, Subhash: Current Status of Municipal Solid Waste Management Practices in Delhi, *Annals of the Nat. Ass. Of Geographers, India (NAGI)*, Vol. 28, No. 1, June, pp. 36-50. 2008.

69. Singh, Mehtab, Kumar, Suresh, **Singh, R.B.** and Prasad, J.: Estimation of Soil Erosion by Using RUSLE and GIS for a Himalayan Sub-Watershed in India, *Annals of the Nat. Ass. Of Geographers, India (NAGI)*, Vol. 27, No. 2, December, pp. 1-11, 2007.
70. **Singh, R.B.:** Hydroinformatics for Integrated Watershed Management-Combining Science and Community Participation, *Indian National Geographer*, Vol.21, No. 1 & 2., 59-66, 2006.
71. **Singh, R.B.** and Anand, Anupam: Biodiversity in the High Altitude Lakes of Ladakh: Threats and Opportunities, *Annals of NAGI*, Vol. 26, No.2, December, pp. 10-17, 2006.
72. **Singh, R.B.:** Geographical Mosaics of Culture, Environment and Human Development, *Annals of NAGI*, Vol. 25, No.2, December, pp.20-32, 2005.
73. **Singh, R.B.:** Prediction in Ungauged Basins (PUB): Hydrological Challenges for India, *Annals of NAGI*, Vol. 22, No.1, June 2002, pp. 89-98. Also Pub. In PUB as Disaster Mitigation Tool in the Himalayan River Basin, *Proceeding of the World Congress on Natural Disaster Mitigation*, Vol. 2, The institution of Engineers (India), New Delhi, pp.256-64, 2004.
74. **Singh, R.B.:** Impact of Climate Change on Water Resources Sustainability in the Himalayan-Gangetic Region, in *Annals of the National Association of Geographers, India*, Vol XXIV, No 1, pp.32-39, 2004, Also in *Water Resources Sustainability in the Context of Increasing Disasters in the Himalaya-Gangetic Region*, In. *Proceedings of the 2nd Asia Pacific Association of Hydrology and Water Resources Conference*, Vol. 11, AOGS, Singapore, pp. 566-74., 2004.
75. **Singh, R.B.,** Kumar, B. and Singh, Anju: Mapping Environmental Stress in the Context of Land Use Changes and urban Sprawl in Delhi Metropolitan Region, *The Geographer*, Vol. 49, Number 2, July, pp. 44-60, 2002
76. **Singh, R.B.:** Management of Water Related Disasters in the Context of the Himalayan Mountain Region of India, *Annals of the National Asso. Of Geographers, India (NAGI)*, Vol. 21, No. 2, December 2001, pp. 41-46.
77. **Singh, R.B.** and Kumar, B.: Levels of Atmospheric Quality in Mumbai, Calcutta and Delhi, *The Indian Geographical Jl.*, Vol. 74, No.2, December, pp. 112-25, 1999.
78. **Singh, R.B.** and Kumar, Umesh: Rainfall Variability and its Relation with climate and Ecosystem: A Case of Western India, (jointly with U.Kumar), *Indian Jl. Of Landscape system and Ecological Studies*, Vol. 22, No.1, June, pp. 29-35, 1999.
79. **Singh, R.B.** and Kumar, B.: Prediction and Detection of Anthropogenic Climate Change: Case of Delhi, *Transactions, Institute of Indian Geographers*, Vol.21, No.1 ,Jan., pp. 61-75.1999.
80. **Singh, R.B.:** Human Dimensions of Environmental Change: Geographical Perespective, In *Bhartiya Samajik Chintan*, Vol. XXII Nos. 1-4, Jan.-Dec., pp.55-60, 1999.
81. **Singh, R.B.:** Urbanization, Environmental Crisis and Urban Planning in India, *The Geographer*, Vol. XLIV, No. 2., July 1997, pp. 5-21.
82. **Singh, R.B.:** Environmental Regeneration of Wasteland through Agroforestry in Rajasthan (jointly with G.S.Chauhan), *The Geographer*, Vol.XLIV, No. 1, Jan. 1997. 79.
83. **Singh, R.B.:** Hydrological Monitoring for Integrated Watershed Management in India, *Indian Cartographer*, Vol. 17, pp. 260-64, 1997.
84. **Singh, R.B.:** Forest and Forestry in India: Spatial Nature, Uses & Issues of Sustainability, *National Geographical Jl. Of India*, Vol. 4, March 1995, pp. 55-67.
85. **Singh, R.B.** and Kumar, B.: Spatial Variability of Anthropogenic Influences on Atmospheric Chemistry in Indian Mega-Cities (jointly with Bhuwan Kumar) in *Geographical Review of India*, Vol. 55, No.1, 1993, pp. 22-33.
86. **Singh, R.B.** and Pandey, B.W.: Environmental and Human Response to Hydrogeomorphology: Micro- Level Experience of Ganga Basin, (Jointly with B. W. Pandey) in *Journal of Scientific Research*, Vol. 43, (i&ii) 1993. pp. 153- 167.
87. **Singh, R.B.:** Remote Sensing and GIS as Decision Support System in the Himalaya, *Annals, NAGI*, Vol.XII No. 1 & 2, 1992, pp.103-11. Also pub. In *Application of GIS Technology for Environmental Monitoring and Forecasting in India*, in *Research Methodology in Geography*, Eds. H.N.Misra and V.P.Singh, New Delhi: Rawat Pub., 1998, pp.255-71.

88. **Singh, R.B.:** Geographical Monitoring of Himalaya Highland - Lowland Interactive Systems, NGJI, Vol. 37 pt. 3, 1991, 272- 81 also published in Environment-Yesterday, Today and Tomorrow, eds. H.P. Bhatt and S. Bhatt, Galgotia Pub., New Delhi, 1992, pp. 238-57.
89. **Singh, R.B.:** Application of Digital Image Processing and GIS Technology for Land Use Mapping and Monitoring Land Degradation Hazards in U.P. Himalaya, Indian Cartographer, Vol. IX-I, 1989, pp. 432-42. Also pub. In Environmental Monitoring, Editor R.B. Singh Geocarto Int. Centre, Hong Kong, 169-78, 1991.
90. **Singh, R.B.** and Khan, A.R.: Determinants of Energy Use - A study of Rural Delhi, Indian Nat. Geographer, Vol. 2 (1& 2), 1987, pp. 69-78.
91. Kayastha, S.L. and **Singh, R.B.:** Energy Potentialities and Related Rural Programmes in India : An Assessment of Emerging Trends, Nat. Geog. Jl. Of India, Vol. J31, pt. 2, 1985, pp. 147-50.
92. Ansari, S.H. and **Singh, R.B.:** Micro-Level Development Planning of Mohamadpur Gram Panchayat, The Jl. of Scientific Research, B.H.U., Vol. 33(2), 1983, pp.145-56.
93. **Singh, R.B.:** The role of Rural Industrialization Towards Eradication of Rural Poverty : Case Study of Siwan District, Rural System, Vol. I Part 3, Varanasi, 1983, pp. 225-36. Also in Manpower Planning in India, ed. A. Kumar, Criteria Pub., New Delhi, 1989, pp.141-58.
94. **Singh, R.B.:** Demographic Structure and Topology of Population Resource, A Case Study of Siwan District (Bihar), Indian Geographical Studies, Res. Bull. 16, 1981, Patna, pp. 33-40.
95. Kayastha, S.L. and **Singh, R.B.:** Regional Development through Social Planning : A Micro - level Study from India, Indian Jl. Of Regional Science, Vol. XIII, No. 1 , 1981, pp. 28-45.
96. Kayastha, S.L. and **Singh, R.B.:** Emerging Dynamics of Integrated Rural development, Nat. Geog. Jl. of India, Vol 26, Pt. 3-4, pp. 28-38, 1980.

E. Research Paper Published in Foreign Books and Proceedings:

97. **Singh, R.B.** and Kumar, Ajay (2015): Vulnerability of Agriculture to Climate Change in arid Regions: A Case Study of Western Rajasthan, India, In Vulnerability of Land systems in Asia, Eds. Ademola K. Braimoh and He Qing Huang, Wiley Blackwell, 77-90.
98. **Singh, R.B.** and Kumar, Dilip (2014). Water Scarcity, handbook of Engineering Hydrology: Environmental Hydrology and Water Management, Taylor & Francis Group, 519-544.
99. Suraj Mal and **Singh, R.B.** (2014). Changing glacial lakes and associated outburst floods risks in nanda Devi Biosphere reserve, Indian Himalaya, IAHS Publ. 364, 255-260.
100. **Singh, R.B.** and Kumar, Dilip: Land-use planning for Sustainable Development Using Geoinformatics: Policy Implications for Drylands, In Developments in Soil Classification, Land use planning and Policy Implications, Eds. S.A. Shahid et al., Springer Science Dordrecht, pp.563-575, 2013.
101. **R.B. Singh,** Gahlot S., and Kumar, Ajay: Environmental Implications of Depleting Traditional Water Bodies in NCT of Delhi, SLUAS Science Report, Asahikawa, pp. 51-58, 2013.
102. **R.B. Singh,** B.P. Singh and Pram Jit: Drought Monitoring using Standardized Precipitation Index: Indian Experience, SLUAS Science Report, Asahikawa, pp. 59-70, 2013.
103. **Singh, R.B.** and Kumar, Dilip: Spatial Information Technology for Land Use Based Integrated Watershed Management in Son-Karamnasa Interfluve, In Towards Sustainable Land Use in Asia (III), Ed. Y. Himiyama, SLUAS Science Report, Asahikwa, pp. 67-87, 2012.
104. **Singh, R.B.** and Mal, Suraj: Land Use Environment and Development in the Uttarakhand Himalaya, India, in Volume Towards Sustainable Land Use in Asia, Ed. Y. Himiyama, SLUAS Science Report 2010, Hokkaido University of Education, Asahikwa, pp.47-64, 2010.
105. **Singh, R.B.:** Land Use/Cover Change, Environment and Climate Change in Delhi Metropolitan Region: Towards Promoting Sustainable City, In Proceedings of the Int. Symp. On Sustainable Urban Environment 2007, Tokyo Metropolitan University, Tokyo, pp. 73-79. 2007.
106. **Singh, R.B.** and Bortamuly, M.: Impact of Floods on Biodiversity in the Brahmaputra Valley, in Proceedings of the International Conference on Monitoring, Prediction and Mitigation of Water-Related Disasters, Eds Takara, K et al., Kyoto University, Kyoto, Japan, pp. 599-606, 2005.

107. **Singh, R.B.** and Mishra, P.: Forest-Cover Mapping of Uttaranchal State, India, In Understanding Land-Use and Land-Cover Change in Global and Regional Context Eds Milanova, E. et al. Science Publisher, Inc Enfield (NH), USA. Pp 249-258, 2005.
108. **Singh, R.B.** and Singh, Anju: Water and Environment Related Disasters and Vulnerability in Indian Mega Cities: Case of Delhi Metropolitan Region in Proceedings of the International Conference on Monitoring, Prediction and Mitigation of Water-Related Disasters, Eds Takara, K et al., Kyoto University, Kyoto, Japan, pp. 691-606, 2005.
109. **Singh, R.B.** and Mishra, P.: Remote Sensing Based Land Use and Cover Change Monitoring as an Hydrological Indicator of Sustainability in the Himalayan Ungauged Basin, In Sustainable Water Resources Management in the Changing Environment of the Monsoon Region, Vol. 1 Eds. S. Herath et al., UNU and Nat. Water Resources Secretariat, Sri Lanka, Colombo, pp.425-31, 2004.
110. **Singh, R.B.** and Kumar, Dilip: Monitoring, Mapping and Mitigation of Flood Disaster in India Using Remote sensing and GIS: A Case Study, Pub. In Monitoring, Prediction and Mitigation of Disasters by Satellite Remote Sensing, Eds. K.Takara et al., DPRI, Kyoto University, pp. 53- 59, 2004.
111. **Singh, R.B.:** Local Knowledge and community participation in water management for poverty alleviation: towards integrating water science and ethics in India, Proceedings of the Asia-Pacific Asso. of Hydrology and Water Resources, Eds. K. Takara and Kojiima, Disaster Prevention Inst., Univ. of Kyoto, 2003.
112. **Singh, R.B.:** Tourism Development and Environmental Implications for the Indian Frontier Region: A Study of Himachal Himalaya, Pub.in Tourism in Frontier Areas, Eds. Shaul Krakover and Yehuda Gradus, Lexington Books, Lanham, Maryland, pp.177-94, 2002.
113. **Singh, R.B.:** Environmental Degradation and its impact on Land Use/Land Cover Changes in Agriculturally Developed Regions of India, Proceedings of the IGU-LUCC International Conference, Eds. I.Blicik et al., Charles University, Prague, pp. 67-74, 2002.
114. **Singh, R.B.** and Kumari, Smriti: Environmental Implications of the Tala Hydro Electric project, Bhutan, Pub.in Wasserwirtschaft IM Wandel, Ed. A. Hoffmann, Kasseler Wasserbau-Mitteilungen, Number 12, Herkules Verlag Kassel, pp. 165-174, 2001.
115. **Singh, R.B.:** Hazard-induced Hydrological problems in Himalayan Watershed-A study of an Indian Hot Spot., Pub. In Hydrological Challenges in Transboundary Water Resources Management, Unesco-IHP/OHP Secretariat, Koblenz, pp. 75-80, 2001.
116. **Singh, R.B.** and Parijat, Rakhi: Ecological Impact of Land Use Change in Delhi Ridge: Anthropogenic Stress and Spatial Realities, Pub. In Urban Sustainability in the Context of Global Change, Ed. R.B.Singh, Science Pub., Inc., Enfield (NH), USA, pp.189-201, 2001.
117. **Singh, R.B.** and Kumar, B.: Sources of Air Pollution Emissions in Selected Metropolitan Cities of India, Pub. In Urban Sustainability in the Context of Global Change, Ed. R.B.Singh, Science Pub., Inc., Enfield (NH), USA, pp.29-48, 2001.
118. **Singh, R.B.** and Mathur, A.: Large -scale Dams as Drivers of Land Use/clover Change in the Tropical Deciduous Forests-A Case -Study of Sardar Sarovar Project (SSP), India., Pub. In Land Use and Cover Change, Eds. R.B.Singh, J.Fox and Y. Himiyama, Science Pub., Inc., Enfield (NH), USA, pp.139-153, 2001.
119. **Singh, R.B.** and Jag Mohan: Diversification of Rural Agricultural Land Due to Urban Intrusion-A Case -Study of the Metropolitan Periphery of Delhi, India, Pub. In Land Use and Cover Change, Eds. R.B.Singh, J.Fox and Y. Himiyama, Science Pub., Inc., Enfield (NH), USA, pp.155-168, 2001.
120. **Singh, R.B.:** Urbanization in India's metropolis Delhi: Problem and Perspectives, In Resolving Urban Environmental and Spatial Conflicts, eds. Donald Miller & Gert De Roo, Geo Press / Geo Pers Pubs. Groningen, pp. 27-37, 2000.
121. Drujiven, P.C.J. and **Singh, R.B.:** The Depletion of Common Lands in the Rural-Urban Fringe of Delhi: A Case Study of Unsustainable Development, Pub. Dimensions of Sustainable Rural Systems, Ed. I.R. Bowler et. al., Groningen: Netherlands Geographical Studies, pp. 105-14., 1998.

122. **Singh, R.B.:** Impact of Agriculture and Land Use/Cover Change on Soil and Water Resources and Ecosystem Sustainability: A Case Study of Punjab, Sustaining Rural Systems in the context of Global Change, Ed. R. Epps, Armidale: Univ. of New England, 1998, pp.335-42.
123. **Singh, R.B.** and Pandey, B.W.: Impact of Tourism on Ecohydrology in the Headwater Region of the Beas, Himachal Pradesh, Ecohydrology of High Mountain Areas, Eds. S.R.Chalise et al., Kathmandu: ICIMOD, 1998, pp. 519-525.
124. **Singh, R.B.:** Environmental Change study using Land use/Cover Data in LIS Framework in India, Information Bases for Land Use/Cover Change Research, Proceedings IGU SG LUCC, Eds. Y. Himiyama and L. Crissman, 1997, Asahikawa : Hokaido Univ. of Education. pp. 98-104.
125. **Singh, R.B.:** Environmental, Economic and Social Sustainability through Human Development Initiatives: Case study of an Indian Marginal Region-Upper Kullu Valley, Proceedings of IGU SG Meeting Dev. Issues in Marginal Regions, Ed. G.Jones et al., 1997, Glasgow: Univ. of Strathclyde.
126. **Singh, R.B.:** Challenges and Crisis of Sustainability and Opportunities for Resource Management in Indian Himalaya, Proceedings of NASDA/UNCRD/ICIMOD seminar on Space Informatics for Sustainable Development, Nagoya, UNCRD, Proceeding series No.21, 1997 pp. 51-60.
127. **Singh, R.B.:** Monitoring Tropical Geosystem, Underground Topography and Potential Water Resources for Sustainable Development Using Geoinformatics-Indian Case Study, in Proceedings of the 12th Int. Congress of Speleology, Ed. Pierre-Yves Jeannin, La Chaux-de-Fonds, pp. 369-372. 1997.
128. Berkes, F. et al.: Sustainability of a Mountain Watershed in the Himachal Pradesh Himalaya: Background and Overview, (Jointly with several including **R.B.Singh**), Sustainability of Mountain Environment in India and Canada, Eds. F.Berkes and J.S .Gardner, Univ.of Manitoba, Winnipeg, 1997, pp. 19-48.
129. Gardner, James, Pandey, B.W. and **Singh, R.B.:** Risk from Natural Hazards in the Manali Area, in Sustainability of Mountain Environments in India and Canada, eds. F.Berkes and J.S.Gardner, Winnipeg, Univ. of Manitoba, pp. 237-254, 1997.
130. **Singh, R.B.:** Environmental Monitoring and Natural Resource Management in Indian Arid Region using Space Informatics, Proceedings of the International Symp. on the Role of Remote Sensing for the Environmental Issues in Arid and Semi-Arid Regions, Eds. S. Shindo and A. Kondoh, CEReS, Chiba Univ.,pp.9-21, 1997.
131. Pandey, B.W. and **Singh, R.B.** and.: Snow Melting Variation and Regional Environmental Change - A Micro-Level Study of Himalayan Rivers, Proceedings of CGB Symp. on Global Change and the Commonwealth,ed. Yue-man Yeung, Hong Kong: the Chinese Univ. of Hong Kong, pp.433-45, 1996.
132. **Singh, R.B.:** Remote Sensing and GIS Based Land Use Information System for Natural Resource Monitoring and Management: The Indian Experience in Proceedings of Int. Workshop held at Ullan Bataar, Nagoya, UNCRD, pp.99-106, 1996.
133. **Singh, R.B.** and Pandey, B.W.: Landslide Hazard in Indian Himalaya and Canadian Rockies: A Comparative Analysis, Proceedings of the Eighth Int.Conf.on Lanslides.Eds. J.Chacon et al. Rotterdam: A.A Balkema, pp.63-69,1996.
134. **Singh, R.B.:** Recent Earthquake in Maharashtra, India : Uncertainty, Existing Reality, and Task Ahead in Disaster Management in Metropolitan Areas for the 21st Century, Proceedings of the IDNDR Aichi/Nagoya Int.conf., UNCRD, Nagoya also in Research in Geography, Disasters and Enviroment : Monitoring and Forecasting, eds. R.B. Singh, New Delhi, APH Pub., Vol. II, pp. 83-89, 1996.
135. **Singh, R.B.:** Land Use, Development and Environmental Criticality in Marginal Regions: A Case Study of Himachal Pradesh, in Marginality and Development Issues in Marginal Regions, Ed. Chang-Yi David Chang, Taipei, Nat. Taiwan Univ., 1994. pp. 19-40; Also published in Contemporary Approaches to Indian Geography, Ed. Rais Akhtar, pp. 109-140, 1997.

136. **Singh, R.B.:** Desert Region in India: Resource Management Issues and Research Strategy, "Towards Solving the Global Desertification Problems, eds. T. Miyazaki and A. Tsunekawa, Tsukuba: NIES pp. 1-18, 1994. Also pub. Environmental Strategies, Ed. R. M. Lodha, 1993.
137. **Singh, R.B.:** Monitoring Soil Loss and Sediment Deposition in Indian Perspective, Erosion and Sediment Transport Monitoring Programmes in River Basins, Ed. Jim Bogen, NWREA, Oslo, 1992. pp. 138-42.
138. **Singh, R.B.:** Remote Sensing Data Base and GIS Projects for Monitoring National Environmental Change in India in Environmental Change and GIS, Editor I. Ota, Proc. of INSEG -1991, Vol. 2. 344-51.
139. **Singh, R.B.:** Role of Geographical Monitoring and Forecasting in Ecosystem Modelling and Management: The Indian Experience Editor - Y. Aruga, Proceedings of the UNESCO/ MAB Seminar on Future Research Trends in MAB, Tokyo: MAB, 1991, pp. 209-252. Also pub. in Global Environmental Change, ed.R.B. Singh, op.cit., pp. 1-21, 1995.
140. **Singh, R.B.** and Khan, A.R.: Domestic Energy Use in Delhi Metropolitan Fringe: A Study of Rural and Urban Villages, Proc. of 10th Int. Symp. on Asian Studies, Hong Kong; ARS, 1989, pp. 1003-9.
141. **Singh, R.B.:** The state of environmental and Resource Management in Drylands of North India, in Resource Management in Drylands, eds. W. Mecalien et al. Stuttgarter (Germany) : Stuttgarter Geographische Studien, 1985, pp. 127-40 also published in Indian Desert : Resources and perspectives Development ed. T.S. Chauhan, Jaipur, Printwell:pp. 254-62, 1995.
142. **Singh, R.B.** and Singh, M.P.: Spatial Organisation of Service Centres: case of Jaunpur District Proc. of IGU Symp. on Rural Development, Liege (Belgium), ed. Ch. Christians, 1983, pp. 321-35.
143. **Singh, R.B.:** Ecological Approach of Irrigation System : Potentiality Constrains and Management in Traditional Society, Problems of the Management of irrigated Land in Areas of Traditional and Modern Cultivation, ed. H.G. Mensching, Proc. of IGU Working Group Stmp., Cairo-ElMinia (Egypt), Humberg (Germany), 1983, pp 123-32.
144. **Singh, R.B.:** Transformation of Agriculture for Rural Development : the Indian Micro Level Experience, Changing Scene of Rural Developing Countries eds. Yuihama et al, 24th IGU Tokyo pub., Okyohama : Geography Department, 1980, pp.145-53.
145. **Singh, R.B.:** Rural Spatial Taxonomy for Integrate Rural Development : the Indian Experience, Changing Scene of Rural Habitat in Developing Countries, eds. S. Yuihama et al., 24th IGC Tokyo Pub., Okyohama : Geography Department, 1980, pp. 129-44.

F. Research Papers Published in Indian Books and Proceedings:

146. **Singh, R.B.** and Kumar, Rajesh: Climate Change Research: Status and Methodology, In Management of Natural Resources for Sustainable Development, Eds. B.S.Rathor and V.S.Rathor, Daya Pub. House, New Delhi, pp.219-45, 2013.
147. Misra, R.P.,Thakur, B. and **Singh, R.B.:** Thimphu: The City of Peace and Organic Development, In Urbanisation in South Asia-Focus on Mega Cities, Ed. R.P.Misra, Cambridge Univ. Press, New Delhi, pp.398-420, 2013.
148. Goswami, Nitu, **Singh, R.B.** and Kala, C.P.: Herbal Home Remedies and Role of Traditional Healers as Health Care Providers, Pub. in Sustainable Use of Medicinal Plants, Ed. R.N.Pati, Abhijeet Pub., New Delhi, pp. 197-210, 2012.
149. **Singh, R.B.** and Gurjar, A.K.: Economic Reforms and Employment Generation and Inclusive Growth in India, Pub. in New Economic Policies and Employment Opportunities in India, Eds. B.S.Yadav et al., Shree Pub., New Delhi, pp.1-12, 2012.
150. **Singh, R.B.:** Designing and Shaping Global to Local Environmental Education: The Indian Experience, Pub. In Glocal Environmental Education, Eds. Y.Himiyama et al., Rawat Publications, Jaipur, pp.62-80, 2010.
151. **Singh, R.B.:** Forest Resources, Biogeography and Biodiversity: Indian Experience, Pub. In Biogeography and Biodiversity, Ed. R.B.Singh, Rawat Publications, Jaipur, pp.1-21, 340, 2009.

152. Singh, Mehtab, Kumar, Suresh, **Singh, R.B.** and Kala, P.M.: Remote Sensing and GIS Based Modelling Approach for Land Capability Classification (Case Study of East Dehradun Valley), Pub.In Land Use, Biodiversity and Climate Change, Eds. R.B.Singh et al., MMC College, Marthandam, pp.13-26, 2009.
153. **Singh, R.B.** and Mal, Suraj: Landslides Hazard and its Influences on Biodiversity in Nanda Devi Biosphere Reserve, Pub. In Biogeography and Biodiversity, Ed. R.B.Singh, Rawat Publications, Jaipur, pp.1-21, 340, 2009.
154. **Singh, R.B.** and Singh, Mehtab: Geographical Analysis of Water logging Induced Land Degradation in Karnal District of Haryana, In. Perspectives in Resource Management in Developing Countries, Vol. 3, Ed. B.Thakur, Concept Pub., New Delhi, pp. 196-211, 2008.
155. **Singh, R.B.:** Local Governance in Disaster Management through Vulnerability Analysis and Mitigation, Pub. In Disaster Management in India-Perspective, Issues and Strategies, Eds. N. Rai and A.K.Singh, New Royal Book, Lucknow, pp. 93-107, 2007.
156. **Singh, R.B.** and Singh, Swarnima: Challenges of Flood Disaster Management: A Case Study of NOIDA, In Disaster Management: Future Challenges and Opportunities, Ed. Jagbir Singh, I.K.Int. Pub.House, New Delhi pp.15-30, 2007.
157. **Singh, R.B.** and Singh, Swarnima: Temporal Transport Hazard Dynamics: A Case Study of Delhi, In Disaster Management: Future Challenges and Opportunities, Ed. Jagbir Singh, I.K.Int. Pub.House, pp.95-112, 2007.
158. **Singh, R.B.** and Prakash, Nawal: Integrated Watershed Management for Livelihood Security:A Case Study of Uppalgaon Watershed, Uttaranchal Himalaya, Pub. In Use and Misuse of Land and Water Resources, Ed. A.L.Singh, B.R.Pub., Delhi, pp.113-127, 2006.
159. **Singh, R.B.:** Introduction to Natural Hazards and Disasters: Conceptual Framework, Vulnerability, Spatial Pattern, Impacts and Mitigation Strategy: Indian Experience, In Natural Hazards and Disaster Management, Ed. R.B.Singh, Rawat Pub., Jaipur, pp 3-39, 2006.
160. **Singh, R.B.:** Tsunami Disaster in India: Warning, Responses, Impacts and Mitigation, In Natural Hazards and Disaster Management, Ed. R.B.Singh, Rawat Pub., Jaipur, pp. 104-119, 2006.
161. Gardner, J.S. and **Singh, R.B.:** Urban Development and Environmental Impacts in a Mountain Context, In Sustainable Urban Development, Concept Publishing Company, New Delhi, pp. 67-86, 2006.
162. **Singh, R.B.** and Mishra, D.K.: Slums, Environment and Development in Metropolitan Cities of India, In Sustainable Urban Development, Concept Publishing Company, New Delhi, pp. 261-71, 2006.
163. **Singh, R.B.** and Jag Mohan: Brick Kiln Industry as Drivers of Land Use Change and Related Land Degradation in Rural-Urban Fringe of Delhi, In Sustainable Urban Development, Concept Publishing Company, New Delhi, pp. 279-88, 2006.
164. **Singh, R.B.** and Kumar, Dilip: Geoinformatics for Sustainable Development-A case Study of Ferozpur Jhirka Block of Gurgaon District in Haryana, In Geoinformatics Applications for Sustainable Development, Eds. A.K.Singh et al., ISRS (Delhi Chapter) and IARI, New Delhi, pp.126-33, 2004.
165. **Singh, R.B.** and Mishra, D.K.: Agricultural Transformation and Rural Sustainability in a Himalayan Watershed: Case Study of Kullu Valley (Jointly with D.K.Mishra), In Resource Conservation and Food Security, Ed. T. Singh, Concept.Pub., New Delhi, pp. 345-55, 2004.
166. **Singh, R.B.** and Sen Roy, S.: Impact of Climate Change on Mountain Ecosystems, In Assessment of Climate Change in India, Eds. S.K.Das and Prakash Rao, WWF, New Delhi, 221-30, 2004.
167. **Singh, R.B.:** Remote Sensing and GIS for Resource Management in India, Perspectives in Resource Management in Developing Countries, Vol. 1-Resource Management: Theory and Techniques, Ed. B.Thakur, Concept Pub. Company, New Delhi, pp. 485-99, 2003.
168. **Singh, R.B.** and Kumar, Bhuwan: Urban Environmental Data Base, Planning and Policies, In Management of environmental Pollution, Eds. Anju Kohli et al., Book Enclave, Jaipur, pp. 252-69, 2003.

169. **Singh, R.B.:** Himalayan Environment, Land Use Cover Changes and Highland Lowland Interactive System with Indus-Ganga -Brahmaputra Plains, Pub. In Land Use-Historical Perspectives-Focus on Indo-Gangetic Plains, Eds. Y.P.Abrol et al., Allied Pub., New Delhi, pp.475-98, 2002.
170. **Singh, R.B.:** Environmental Impact and Response Analysis of Urban and Tourism Infrastructure Development in the Himachal Himalaya, In. Recent Advances in Geomorphology, Quaternary Geology and Environmental Geosciences: Indian Case Studies, Eds. S.K.Tandon and B.Thakur, Manisha Pub., New Delhi, pp. 385-94., 2002.
171. **Singh, R.B.:** Land Use Planning in Resettlement and Rehabilitation Areas in Highlands, In Human Dimensions of Sustainable Development, Ed. R.B.Singh, Rawat Pub., Jaipur, pp.254-66, 2002.
172. **Singh, R.B.** and Pandey, B.W.: Landslide Hazard in Himachal Himalaya, in Geoenvironmental Hazards, Eds. V. Subramanian and Jayakumar, UNESCO-ENVIS, New Delhi, pp.71-84, 2000.
173. **Singh, R.B.** and Ghai, Sarita: Human Induced Hazards and Development in a part of Upper Yamuna Watershed, Garhwal Himalaya in Contributions to Environmental Geoscience, Eds. A.M.Pathan and S.S. Thigale, Aravali Books Int., New Delhi, pp. 151-160. 2000.
174. **Singh, R.B.:** Environmental Impact Assessment and Management in Highlands and Headwater Regions, In Environmental Impacts Assessment of Water Resources Projects, Ed. R.S.Goel, Oxford & IBH. Pub., New Delhi, pp. 343-356, 2000.
175. **Singh, R.B.** and Mishra, D.K.: River Pollution as Environmental Disaster in Yamuna at Delhi: Perspectives for 21st Century, In Disaster Management, ed. R.B. Singh, Rawat Pub., Jaipur, pp. 319-330, 2000
176. Srivastava, A.K.. and **Singh, R.B.:** Governmental Response to Flood Disaster Preparedness, Relief and Mitigation in Haryana, In Disaster Management, ed. R.B. Singh, Rawat Pub., Jaipur, pp. 308-318, 2000
177. **Singh, R.B.** and Tingal, D.: Man-made and Natural Geo-Hazards in Kullu Valley, In Disaster Management, ed. R.B. Singh, Rawat Pub., Jaipur, pp. 259-286, 2000
178. **Singh, R.B.:** Remote Sensing and GIS for Disaster Management, In Disaster Management, ed. R.B. Singh, Rawat Pub., Jaipur, pp. 11-24, 2000.
179. **Singh, R.B.** and Babar Ali, M.: Dynamics of Village Common Land and its Sustainable Management in the Himalayan Upper Beas Basin, In The Himalayan Environment, Eds. S.K. Dash and J. Bahadur, New Age International (P) LTD-Pub., New Delhi, pp. 246-57, 1999.
180. **Singh, R.B.:** Geographic Information System for Environmental Monitoring and Management, In Proceedings of National Seminar on Environmental Management in Hydro Electric Projects, New Delhi, 1999, Ministry of Environment & Forests, Govt. of India, Organised by Institute for Resource Management and Economic Development, pp. 119-128., 1999. Also Pub. In Geographic Information System as a Tool of Environmental Decision Making, Ed. B. Misra, Proceedings of SCADA Conference . New Delhi: Mittal Pub.,1998.
181. Mishra, B., **Singh, R.B.** and Malik, Anupama: Delhi Metropolis: Housing and Quality of Life, Pub. in Million Cities of India, Volume 1, Ed. R.P. Misra and K. Misra, New Delhi: Sustainable Development Foundation, pp. 196-228, 1998.
182. Grewal, Varinder S., and **Singh, R.B.:** Status of Environmental Quality and Decision-making in India: Past, Present and Future Trends, Pub. in Techniques and Approaches to Vulnerable Environment, Ed. R.B. Singh, New Delhi: Oxford and IBH Pub., pp. 350-68, 1998.
183. Verma, Romila P. and **Singh, R.B.:** Dam and Water Resource Development: Myth or Reality - Case of Hirakud Dam, Pub. in Ecological Techniques and Approaches to Vulnerable Environment, Ed. R.B. Singh, New Delhi: Oxford and IBH Pub., pp. 223-42, 1998.
184. **Singh, R.B.:** Earth Science Data and Information Technology Network Development in India, in Space Informatics for Sustainable Development, Eds. R.B.Singh and S.Murai, New Delhi: Oxford & IBH Pub., pp. 47-62. 1998.
185. **Singh, R.B.:** Understanding High Mountain Land Use Towards Sustainable Environmental in Jammu and Kashmir, in Headwaters-Water Resources and Soil Conservation, Eds. M.J.Haigh et al., New Delhi: Oxford & IBH Pub. 1998, pp. 409-422.

186. Haigh, Martin J., Krecek, J. and **Singh, R.B.:** Headwater Control: Matters Arising, in Headwaters-Water Resources and Soil conservation, Eds. M.J.Haigh et al., New Delhi: Oxford & IBH Pub., 1998, pp. 3-24.
187. **Singh, R.B.** and Ghai, Sarita: Genesis and Impacts of A Landslide-The Case Study of Kharadi-Khanera Slope Section, U.P. Himalayas, in Sustainable Development of Mountain Environment in India and Canada, Ed. R.B.Singh, New Delhi: Oxford & IBH Pub., 1998, pp. 298-308.
188. **Singh, R.B.** and Pandey, B.W.: Forest and Forestry: Degradation and Renewal in Arrow Lake Forest District, British Columbia, Canada, in Sustainable Development of Mountain Environment in India and Canada, Ed. R.B.Singh, New Delhi: Oxford & IBH Pub., 1998, pp. 242-256.
189. Pandey, B.W. and **Singh, R.B.:** Environmental Hazards and Mitigation Measures in Upper Arrow Lake Region, British Columbia, Canada, in Sustainable Development of Mountain Environment in India and Canada, Ed. R.B.Singh, New Delhi: Oxford & IBH Pub., 1998, pp. 217-241.
190. **Singh, R.B.,** Pandey, B.W. and Singh, Tripta: Population, Urbanization and Tourism in Kullu District, in Sustainable Development of Mountain Environment in India and Canada, Ed. R.B.Singh, New Delhi: Oxford & IBH Pub., 1998, pp. 153-171.
191. **Singh, R.B.** and Babar Ali, M.: Village Common Land In Upper Beas Basin, in Sustainable Development of Mountain Environment in India and Canada, Ed. R.B.Singh, New Delhi: Oxford & IBH Pub., 1998, pp.126-141.
192. **Singh, R.B.** and Gurudatt, G.N.S.: Environmental Stress of Forest Degradation on Erosional Intensity: A Micro-level Study of Solan District, in Sustainable Development of Mountain Environment in India and Canada, Ed. R.B.Singh, New Delhi: Oxford & IBH Pub., 1998, pp. 113-125.
193. **Singh, R.B.,** Bas, Kirti and Datta, P.: Environmental Stress of Horticulture on Sustainable Livelihood and Food Security in Kullu Valley, in Sustainable Development of Mountain Environment in India and Canada, Ed. R.B.Singh, New Delhi: Oxford & IBH Pub., 1998, pp. 98-112.
194. **Singh, R.B.** and Mishra, D.K: Environmental Implications of Land use Change and Forest Degradation In Upper Beas Basin, in Sustainable Development of Mountain Environment in India and Canada, Ed. R.B.Singh, New Delhi: Oxford & IBH Pub., 1998, pp. 76-85.
195. **Singh, R.B.** and Ghai, Sarita: Environmental Disasters in Marginal Areas: A Study of Road Construction Induced Impacts in a Himalayan Yamuna Catchment, in Development Issues in Marginal Regions, eds R.B.Singh and R. Majoral, Oxford & IBH Pub., New Delhi, pp. 311-20, 1996.
196. Drujiven, P.C.J. and **Singh, R.B.:** Environmental Degradation and its Impact on Livelihood Strategies in the Urban Fringe of Delhi-Some Theoretical Reflections, in Disasters, Environment, and Development, ed. R.B.Singh, Oxford & IBH pub, New Delhi, pp. 355-68, 1996.
197. **Singh, R.B.:** Disasters Monitoring and Mitigation, ed. R. B. Singh, in Disasters, Environment and Development, Oxford & IBH Pub., New Delhi, pp.31-62, 1996.
198. **Singh, R.B.** and Pandey, B.W: Hazard Zone Mapping and Risk Assessment Analysis in the Upper Beas Basin: CIDA-SICI Experience, in Disasters, Environment and Development, ed. R.B. Singh, New Delhi, Oxford & IBH Pub., pp. 121-35, 1996.
199. **Singh, R.B.** and Pandey, B.W.: Perspectives for Managing Rural Water Resources: A Study of Ganga-Gomati Doab, jointly with B.W. Pandey in Research in Geography, Land Use Changes and Sustainable Development, eds. R.B. Singh, New Delhi, APH Pub., Vol. I, pp. 307-18, 1996.
200. **Singh, R.B.:** Sustainable Development Initiatives in Indian Geosystems : Case of Social Forestry in in Research in Geography, Land Use Changes and Sustainable Development, eds. R.B. Singh, New Delhi, APH Pub., Vol. I, pp. 127-38, 1996.
201. Singh, Rana.P.B., Kayastha, S.L. and **Singh, R.B.:** Pattern and Prospects of Service Centres in Spatial Context, Case of the Siwan District, Transformation of Rural Habitat, NGS Res. Pub. 1978, pp.108-116.

202. Rowbotham, D. and **Singh, R.B.:** The Importance of Natural Hazards Research to the Himalaya Region: Himachal Pradesh, a Case in Point, in *Global Environmental Change Perspectives of Remote Sensing and Geographic Information System* Ed. R.B. Singh, Oxford & IBH Pub., New Delhi, 1995 pp. 185-99.
203. **Singh, R.B.:** The State of Environment and Resource Management in Drylands of North India, in *Resource Management in Drylands*, published in *Indian Desert: Resources and Perspective Development* ed. T.S. Chauhan, Jaipur, Printwell: pp. 254-62, 1995.
204. **Singh, R.B.** and Tingal, D.: Identification of Critical Environmental Zones in Kullu District, in *Sustainable Reconstruction of Highland and Headwater Regions*, eds. R.B. Singh and M.J. Haigh, New Delhi, Oxford & IBH Pub., pp. 627-38, 1995.
205. **Singh, R.B.** and Chauhan, G.S.: Landuse Change and Land Information System in Kullu Valley, in *Sustainable Reconstruction of Highland and Headwater Regions*, eds. R.B. Singh and M.J. Haigh, New Delhi, Oxford & IBH Pub., pp. 639-47, 1995.
206. **Singh, R.B.** and Pandey, B.W.: Common Resources and Sustainable Livelihood of Mountain Environment: A Micro-Level Experience of Upper Kullu Valley, in *Sustainable Reconstruction of Highland and Headwater Regions*, eds. R.B. Singh and M.J. Haigh, New Delhi, Oxford & IBH Pub., pp. 663-81, 1995.
207. **Singh, R.B.:** Land Use Change, Diversification of Agriculture and Agroforestry in North-west India, *Proc. of Indo- British Seminar*, ed. A. Mukerji, 1994, New Delhi: Concept Pub. Also Pub. in *Global Environmental Change*, op.cit.,1995,pp.313-21. Also published in *Land Use Planning in India*, Ed. T. Haque, New Delhi, NCAEPR, 1999, pp. 122-130.
208. **Singh, R.B.** and Chauhan, G.S.: Land Use Pattern, Land Degradation Hazard and Sustainability in the Indian Desert Region: in *Afroforestry Systems for Degraded Lands*, Eds. P. Singh et al. New Delhi: Oxford & IBH Pub., pp. 13-19, 1994.
209. **Singh, R.B.** and Pandey, B.W.: Sikkim Himalaya: Geo Ecological System, Socio-Economic Change and People's Perception, in *Sikkim -Society, Polity Economy and Environment*, Ed. M.P. Lama, pp. 241-254, 1994.
210. **Singh, R.B.** and Pirazizy, A.A.: Anthropogenic Impact on Landscape Synthesis in Kashmir Himalayas: A Study of Land Suitability and Capability Classification, in *Frontiers in Environmental Geography*, Eds. Onkar Singh et.al., Concept Pub., New Delhi, pp. 93-104, 1993.
211. **Singh, R.B.:** Micro-level Monitoring of Land Use and Agriculture in Himalayas, *Landuse and Agricultural Planning*, Ed. N. Mohammed, Concept, New Delhi, 1992, 227-41.
212. Pirazizy, A.A. and **Singh, R.B.:** Forest Energetic and Environmental Anomaly in Temperate Himalaya, in *Dynamics of Mountain Geosystems*, Editor R.B. Singh, 1992, op.cit. 87-100.
213. **Singh, R.B.:** Environmental Geography in India: Challenges and Opportunities, in *The Roots of Indian Geography: Search and Research*, NGJI Vol. 38 (1-2), 1992. Also pub. In *Emerging Frontiers in Environmental Geography: An Introductory Overview*, in *Environmental Geography*, ed. R B.Singh, New Delhi, Heritage Pub., pp. 1-23, 1990.
214. **Singh, R.B.:** Human Resource Base for Rural Development in a Mountainous Region, *Human Resource Development Vol. 1*, Ed. A. Kumar, Anmol Pub., New Delhi, 1991, pp. 207-22.
215. **Singh, R.B.:** Drought - Prone Areas in India: Regional Planning Issues and Resources Management Strategy in Planning Development and Disparities in Rural India, Editor: Ashok Kumar, New Delhi: Commonwealth Pub. 1990.
216. **Singh, R.B.:** Integrated Rural Development: Concepts and Experience in Regional Development, *Cont. to Indian Geog. Vol.X*, Ed. Moonis Raza, New Delhi: Heritage Pub. 1988, pp. 544-68.
217. **Singh, R.B.:** Spatial Perspective of Population and Resource Management in Arid Environment : A Case Study of Western Rajasthan, India, *Resource Management in Dry Lands*, eds. H.G. Mensching et al. 1984, pp. 206-14.
218. Kayastha, S.L. and **Singh, R.B.:** Settlement Planning and Integrated Rural Development in Micro-level Unit : A Case Study of Daraundha Block, *Proc. Or Nat. Seminar on Regional Planning and Rural Development*, ed.L.R. Singh, Allahabad, 1984, pp.147-50.

219. Kayastha, S.L. and **Singh, R.B.:** Energy Resources and Technology Transfer in the Management of Rural Environment, Environmental Management eds. L.R. Singh et al., Allahabad, 1983, pp.-89.

RESEARCH SUPERVISION

A. Ph.D. Thesis Supervised

1. Anthropogenic Impact on Environmental Changes in Temperate Zone of the Himachal Himalayas by Ali Akbar Pirazizy (1992).
2. Integrated Block Level Planning in Agriculturally Developed Region, (A Study of Kapurthala Block) by Lakhvinder Singh (1993).
3. Monitoring and Forecasting Hydrological Parameters in the Mahanadi River Basin by Romila Prasad (1996).
4. Man-Forest Interactions in the Himalayan Yamuna Basin - A Geoecological Perspective by Sarita Ghai (1998).
5. Atmospheric Quality in Metropolitan Cities of India by Bhuwan Kumar (1998).
6. Environmental Implications of Farmland Diversification in Rural-Urban Fringe of Delhi by Tejbir Singh Rana (2000)
7. Hazard Risk Assessment and Sustainable Land Development in Upper Beas Basin by B. W. Pandey (2000).
8. Squatter Settlements of Delhi Metropolis- A Human Ecological Study by Ravi Shekhar (2002).
9. Environmental Degradation and Development in the Metropolitan Fringe of Delhi by Naval Prasad Singh.(2003).
10. Changing Land use and Land Degradation Problems in the Indian Desert Region by Gambhir Singh Chauhan (2003).
11. Impact of Land Use Change on Biophysical and Socio-Economic Systems of Upper Beas Basin by D.K Mishra (2003).
12. Geographic Dimensions of Common Land Resources in the Santhal Parganas Region by Mohammed Baber Ali (2004).
13. Population, Land Use and Environmental Sustainability in Haryana, by Suman Chauhan, Joint Supervisor at M.D.University, Rohtak (2005).
14. The Changing Pattern of Domestic Energy Consumption and its Impact on Quality of Life: A case Study of National Capital Region (NCR) by V.K.Dixit.(Joint Supervision) (2006).
15. Traffic and Environmental Assessment A Case Study of Delhi by Ms.. Rakhi Mukherjee (2007).
16. Cyclone Disaster Vulnerability and Mitigation along the East Coast of India by Ms. Ushvinder Kaur (2008).
17. Management of Municipal Solid Waste in Urban Delhi: A Geographical Analysis by Subhash Anand (2008).
18. Impact of Land Use Change and Industrial Development on Atmospheric Quality in Agra Metropolitan City by Vishwa Raj Sharma (2008).
19. Influence of Environmental Degradation on Women in Rural Delhi by Monica Rana (2008)
20. Land and water Resource Management in Son-Karamnasa Interfluvium in Bihar by Dilip Kumar.(2009).
21. Spatial Analysis of Water Quality in River Yamuna and its Interrelationship with Human Activities in NCT of Delhi by Vaneeta Chandana (2009).
22. Environmental Implications of Agricultural Development in Patiala District, Punjab by Neha Arora (2011).
23. Forest Resource Assessment: A Case Study of Dehradun Valley by Ms. Poonam Kumaria (2011)
24. Hazards and Associated Risks in Upper Bhagirathi Basin by Subodh Kumar (2011) .
25. Monitoring Land Use Change and its Environmental Impacts in Jaipur City using Geoinformatics by R.K.Gupta (2011)
26. Assessment of Integrated Watershed Development Programme in Haryana Shiwalik, by Mehtab Singh (2012).

27. Influence of Climate Change on Nanda Devi Biosphere Reserve by Suraj Mal (2013).
28. Glacier Lake Outburst Flood and Associated Geohazards in Himachal Himalaya by Pankaj Kumar (2013).
29. Agriculture Vulnerability to Climate Change in Rajasthan 1950-2010 by Ajay Kumar Gurjar.
30. Climate Change and Livelihood Security in Kangra District by Swarnima Singh.
31. Resource Base And Livelihood Strategies in Selected Panchayats of Himachal Pradesh by Anjali Yadav .

B. Ongoing Ph. D. Thesis

- ..
32. Urban Health And Wellbeing In Changing Urban Environment : A Comparative Study of Delhi And Mumbai By Aakriti Grover.
33. Livelihood Security in Changing Socio-Economic Environment in Kangra District of Himachal Pradesh By Nitu.
34. Relationship Between Monsoon Rainfall, Aerosols and its Environmental Implications in the National Capital Region by Mansi Janmajaya.
35. Landslide risk Assessment Along the Major Transport corridor: A Case study of Kullu-Rohtang Pass, by Nirbhav.
36. Impact of Climate Change on Nutrition and Health in Mountain Region-Case Study of Kumaun Himalaya by Arti
37. Environment, Exposure and Diseases: An Epidemiological Assessment of Urban Health in Kolkata by Senaul Haque

C. M.Phil Thesis Supervised

1. Environmental Effects of Highland Tourism in Kashmir Himalayas by Ali Akbar Pirazizy (1987).
2. Forestry and Rural Development in the Upper Yamuna Valley - A Study of Jaunsar Bawar by Sarita Ghai (1988).
3. Rural Development in Mountainous Region: A Case Study of Mandi Tehsil by A.R. Khan (1989).
4. Non-farming Activities and Rural Transformation: A Case Study of Alipur Block (Delhi) by Tejvir Singh (1989).
5. Assessment of Existing Environmental Data Base and Research Stations for Geographical Monitoring and Forecasting in India by Romila Prasad (1990).
6. Environmental Transformation of Ganganagar - Impact of Indira Canal by Seema Gupta (1989).
7. Flood Hazard in North Bihar by Arun K. Singh (1992).
8. Environmental Aspects of Rural Water Supply in Cholanpur Block, Varanasi District By B.W. Pandey (1992).
9. Ecological and Socio-Economic Impacts of River Basin Development: A Case of Sardar Sarovar Project by Umesh Kumar (1993).
10. Waterlogged Areas in Karnal District: A Geographical Analysis by Mehtab Singh (1994).
11. Assessment of Erosional Hazards and Critical Zones in Chamoli District by Meeta Sharma (1994).
12. Spatial Pattern of Non-Conventional Energy Use in U.T. of Delhi by Ritu Malik (1994).
13. Ecological Implications of Land Use Changes and Forest Renewal in Solan District by G.N.S. Gurudatt (1994).
14. Transformation of Socio-Economic Environment in a Metropolitan Fringe Area - A Case Study of Kanjhawala Block by Sanjiv (1995).
15. Landscape Fragility and Environmental Change in Kullu Valley by D. Tingal (1995).
16. Industrial Growth and Environment Degradation in Gurgaon District by Spandan Naneet (1996).
17. Environmental Implications of Rural-Urban Fringe of Delhi - A Case Study of Najafgarh Block by Shilpa Chikara (1996).

18. Degrading Delhi Ridge Forest: Changing Scenario and Conservation Efforts by Rakhi Mukherjee (1996).
19. Village Common Land and its Management in the Upper Beas Basin by Mohammed Baber Ali (1997).
20. Ecological Dimensions of Desertification in Jhunjhunun District by Anoop Kumar (1997).
21. Indigenous Knowledge in the Protection of the Mountain Ecosystem- A Case Study of Kullu Valley by Ambika Chugh (1997)
22. Women Empowerment and Sustainable Development of Mountain Environment in Kullu Valley by Monica Rana (1997).
23. Land Degradation with Special Reference to Spread of Brick Kiln Industry in Kanjhawala Block (Delhi) by Jag Mohan (1997).
24. Socio-Economic and Spatial Mobility of Street Children in Delhi by Hemant Kumar (1997).
25. Geographical Analysis of Water Pollution in Hooghly River by Debasri Mukherjee (1998).
26. Varanasi- A Study in Impact of Development on the Environment by Tripta Singh (1998).
27. Sustainable Livelihood and Food Security in Kullu Block by Kirti Bas (1998).
28. Impact of Rural Development Programmes on Socio-Economic Conditions in Rural Delhi by Subhash (1999)
29. Environmental Monitoring and Mitigation of Cyclone Disaster in Coastal Region of Andhra Pradesh by Ushvinder Kaur (2000).
30. Air Pollution and Open Cast Coal Mining in Talcher Region (Orissa) by Hema Gupta (1999).
31. Environmental and Socio-Economic Implications of Tala- Hydro Electric Project in Wanchu Valley, Bhutan by Smirti Kumari (2001).
32. Climatic variability, Agrohorticultural Production and extreme Events in Mountainous areas-A Case Study of Kullu District by S. Sen Roy.(2002).
33. Spatial Analysis of Air pollution-A Case Study of Agra City by Vishwa Raj Sharma (2003).
34. Flood impact and Management in the Bhagalpur district, Bihar by Nilesh Kr. Singh (2003).
35. Role of ENGOs towards Environmental Improvement in Delhi by Kiran Dabas (2003).
36. Urban Water Problems in Delhi Metropolitan Region by Sheel Kumar (2003).
37. Impact of Flood on Biodiversity in Kaziranga National Park, Assam by M. Bortamuly (2004).
38. Spatial Analysis of Wastewater Reuse in Delhi by Reena Singh (2004).
39. Impact of Super Thermal Power Station on Land Degradation: A Case Study of Kahalgaon by Arun Kumar Singh (2005)..
40. Retreat of Gangotri glacier and related geo-hazards in Upper Bhagirathi basin by Subodh Kumar (2005).
41. Integrated Watershed Management in Upper Yamuna-Tons basin by Nawal Prakash (2005).
42. Human Impact on landuse Change and Biodiversity in Sariska Tiger Reserve by Nidhi Gandhi (2005).
43. Ecotourism in Pokhara Valley by Baasanti Shahi (2006).
44. Land Use/Cover Change, Landslides and their Influence on Biodiversity in Nanda Devi Biosphere Reserve by Suraj Mal (2006).
45. Human Impact and Indegenous Knowledge on Biodiversity in Rajaji National Park by Abhineety Goel.(2006).
46. Sustainable Mountain Ecotourism Development in Uttarkashi District of Uttaranchal by Pankaj Kumar (2007).
47. Climate Variability, Extreme Events and Land Use Change- A Case Study of Doon Valley, by Swati Thakur (2007).
48. Integrated Coastal Zone Management along Visakhapatnam by Shalini Sharan (2007).
49. Disaster Vulnerability and Mitigation Plan for NOIDA and Greater NOIDA by Swarnima Singh (2007).
50. Environmental Vulnerability of the High Altitude Wetlands of Changthang Valley by Anupam Anand (2007).

51. Integrated Coastal Zone Management of Goa by Sujeet Kumar (2008).
52. Spatial Distribution of Urban Heat Islands in Delhi by Manoj Kumar (2008) .
53. Urban hydrology of Mithi River in Mumbai by Kanishk Kumar Singh.(2009).
54. Depletion and Degradation of Biodiversity in National Capital Territory of Delhi by Parul Jain (2009).
55. Herbal Home Remedies in North-West District of Delhi and Haridwar District of Uttarakhand by Nitu (2010).
56. Industrial Development and Environmental Degradation in Panipat City by Ritu (2010).
57. Spatial –Temporal Variability in Traditional Water Bodies of Delhi by Sarita (2010).
58. Vulnerability to Climate Change in Arid Region of Rajasthan by Ajay Kumar Gurjar (2011).
59. Urban Climate Change in Kolkota Metropolitan Region by Rituparna Nath (2011).
60. Agricultural Vulnerability to Climatic Change in the Dry Regions of Haryana by Rajesh Kumar (2011).
61. Status and Planning for Low Carbon Resilient Mega City- A Case study of Delhi by Vidhi Saluja (2012).
62. Integrated Coastal Zone Management in North Kanara Coast by Ashok Kumar (2012)
63. Assessing Drought Vulnerability in Mirzapur Region of Uttar Pradesh by Bhanu Prakash Singh (2013)
64. Integrated River Management of the Lower Brahmaputra Basin by Abhay Shankar Prasad (2013)
65. Role of Self Help Groups in Joint Forest Management in Kumaun Region by Atithi Pant (2013)
66. Impact of Climate Change on Ecosystem Services in Kullu Valley by Ranjeet Kumar (2013).
67. Climate Change and Glacier Fluctuation in Pindari Region, Uttarakhand by Santosh Kumar (2013).
68. Environmental Implications of Road and Dam Construction in Norh District of Sikkim by Sisum W. Bhutia (2013).
69. Monsoons in India: Variability and Influence on Agriculture by Mansi Janmajaya (2014).
70. Ecological Footprint Assessment in Dharamshala Tehsil, Himachal Pradesh by Naresh Kumar(2014)
71. Dynamics of Agriculture and Forestry as a Source of Sustainable Livelihood – A Case Study of Kangra District by Sandeep Jha (2014).
72. Food Security in Kangra District, Himachal Pradesh by Aarti.
73. Urban Environment and its Impact on Human Health: A Case Study of Kolkata by Md. Senaul Haque.
74. Environmental Security: Problems and Policy by Amit Kumar Batar.

D. Ongoing M. Phil Thesis

75. Environmental Security: Problems and Policy by Divya Singh
76. Sustainable Urban Innovation in Varanasi city by Sant Prasad.
77. Agriculture, Forest and Tourism based Livelihoods: a study of Dimapur District, Nagaland by Geeta Kumari.
78. Srinagar Flood, 2014: Vulnerability, Response and Mitigation by Sritama Bose.
79. Anupama Aataria
80. Abhisek Banerjee.

Academic Organizational Activities/Research Dissemination and Field Trips Organised

1. As Coordinator Organised UGC-SAP-DRS III Seminar on Thrust Areas: Environment and Resource
2. As member IUGG-IGU National Committee co-organised IGU Seminar/Conferences at MD University, Rohtak (2013); CWRDM, Kozhikode (2011), Cotton College, Guwahati (2010), Bilaspur (2009)
3. Co-Organised IGU Commission Seminar on Biogeography and Biodiversity at HNB Garhwal University, Srinagar, during May 3-4, 2007.

4. Teacher Participant in the Departmental Field Excursion for M.A. Students at Backwater ecosystem in Kerala, CESS- Trivanthapuram and Kanyakumari Region of Tamilnadu during January 1-10, 2007.
5. Teacher Participant in the Departmental Field Excursion for M.A. Students at Pondicherry, Tsunami Affected Areas of Tamil Nadu and Chennai during December 31, 2005- January 10, 2006.
6. Organised as Dy. Coordinator-UGC SAP Programme Workshop on Mega Cities: Infrastructure and Governance, Univ. of Delhi, March 24-25, 2006.
7. Organised SHARP Programme Workshop at Joshimath, Uttaranchal, on 15th October, 2004, Uttarkashi on 21 June, 2005 and Dehradun on October 14-15, 2005.
8. Organised Departmental Field Excursion for M.A. Students at Panchmarhi Hills during January 2-8, 2004
9. Organised SHARP programme workshop at Delhi University on 25th June, 2004.
10. Organised UGC-SAP Nat. Seminar on Spatial inf. Technology for Natural Resources Management, Feb. 21-22, 2003.
11. Organised CIDA-SICI Dissemination Workshop on World Environment Day on 5th June 2003, Delhi Univ.
12. Organised CIDA-SICI Project Dissemination Workshop at Manali during Feb. 17-18, 2002.
13. Organised CIDA-SICI Project Dissemination Seminar at Manali during June 24-25, 2000.
14. Organised CIDA-SICI Project Dissemination Workshop at Univ. of Delhi, November 3-4, 2000.
15. Organised ICSSR-IDPAD Cluster Meeting and National Seminar on Urban Issues, Delhi University, January 29-30, 1999.
16. Organised Departmental Educational Tour to Kullu Valley during October 8-16, 1999.
17. Organised CIDA-SICI Project Dissemination Seminar at Manali during October 14-15, 1999.
18. Organised National Seminar on Sustainable Development of Mountain Environment, Delhi University, March 27-28, 1998. .
19. Organised Departmental Educational Tour to Thimphu and Paro Valley (Bhutan), November 3-14, 1998.
20. Organised Int. Seminar on Sustainable Reconstruction of Highland and Headwater Regions at Delhi and Field Trip to Himachal Pradesh and Punjab and Haryana Regions during Oct. 1995.
21. As Chairman NAGI Commission on Environmental Monitoring and GIS organised a National Seminar at Jammu Univ. on Dec. 27, 1995.
22. Organised CIDA-SICI Workshop at Manali during June 30 - July 1, 1995.
23. Organised Int. Seminar on Disasters, Environment and Development at Univ. of Delhi and Field Trip to Himachal Himalaya during Dec. 9-18, 1994.
24. As Convenor of National Association of Geographers - Commission on GIS, organised seminar at University of Rajasthan, Jaipur, December 26, 1992.
25. Organised Department Field Trip to Indian Desert Region in January 1992.
26. Organised International Seminar on Monitoring Geosystems; Perspectives for the 21st Century at University of Delhi, Dec. 6-9, 1991; Also organised Scientific Field Trips to Darjeeling and Kumaun-Garhwal Himalaya.
28. As Convenor of National Association of Geographers - Commission on Geographic Information Systems, organised seminar at Magadh Univ. during December 25-26, 1991.
29. Advisor of NORAD Project on Role of Women in Improving Environmental Quality in Slums.
30. Organised Departmental Field Trip to Sikkim and Darjiling Himalaya during November 30 to December 13, 1989.