




Faculty Details proforma for DU Web-site

Title	Professor	First Name	R.B.	Last Name	Singh	Photograph
Designation		Professor				
Address		Department of Geography, Delhi School of Economics, University of Delhi, Delhi-110007, INDIA				
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Residence		143 Kadambari, Sector -9, Rohini, Delhi-110085 Phone:27553850				
Mobile		09971950226				
Email		rbsgeo@hotmail.com				
Web-Page		www.du.ac.in/geography				
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		Banaras Hindu University			1981	
PG		Banaras Hindu University			1977	
UG		Banaras Hindu University			1975	
Diploma in Statistical Methods		Banaras Hindu University			1979	
GIS Training		UNITAR/UNEP – GRID and EPFL, Switzerland			1989	
Career Profile						
Organisation / Institution		Designation			Duration	
University of Delhi		Professor			2002 onwards	
University of Delhi		UGC Research Scientist - C (Professor)			1996 to 2002	
University of Delhi		UGC Research Scientist -B (Reader)			1988 to 1996	
University of Delhi		Lecturer			1985 to 1988	
Banaras Hindu University		CSIR POOL Officer			1983 to 1985	
Administrative Assignments						
Head-Department of Geography, Delhi School of Economics, University of Delhi. Delhi -3 years (2013-early 2016) R.T., Warden and Acting Provost of Gwyer Hall, Univ.of Delhi -more than 13 years (April 1987 to September 2000).						
Areas of Interest / Specialization						
Environmental Studies, Urban Health, Remote Sensing and GIS, Disaster Management, Climate Change						
Subjects Taught						
Taught following courses to M. A. and M. Phil. programme at University of Delhi since 1985: Environment and Ecology, Natural Hazards and Disaster Management, Fundamentals of Remote Sensing and GIS, Environmental Impact Assessment, Urban Impacts on Natural Resources and Environment, Environmental Studies, Ecological Issues in Development, GIS and Remote Sensing, Environmental Problems and Policies, Environmental Security: Problems and Policies, Man and Environment, Biogeography, Regional Planning & Development.						
Research Guidance						

List against each head (If applicable)

1. Supervision of awarded Doctoral Thesis-30

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 Metropolitan- 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. 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).
14. Traffic and Environmental Assessment A Case Study of Delhi by Rakhi Mukherjee (2007).
15. Cyclone Disaster Vulnerability and Mitigation along the East Coast of India by Ms. Ushvinder Kaur (2008).
16. Management of Municipal Solid Waste in Urban Delhi: A Geographical Analysis by Subhash Anand (2008).
17. Impact of Land Use Change and Industrial Development on Atmospheric Quality in Agra Metropolitan City by Vishwa Raj Sharma (2008).
18. Influence of Environmental Degradation on Women in Rural Delhi by Monica Rana (2008)
19. Land and water Resource Management in Son-Karamnasa Interfluvium in Bihar by Dilip Kumar.(2009).
20. Spatial Analysis of Water Quality in River Yamuna and its Interrelationship with Human Activities in NCT of Delhi by Vaneeta Chandana (2009).
21. Environmental Implications of Agricultural Development in Patiala District, Punjab by Neha Arora (2011).
22. Forest Resource Assessment: A Case Study of Dehradun Valley by Ms. Poonam Kumaria (2011)
23. Hazards and Associated Risks in Upper Bhagirathi Basin by Subodh Kumar (2011) .
24. Monitoring Land Use Change and its Environmental Impacts in Jaipur City using Geoinformatics by R.K.Gupta (2011)
25. Assessment of Integrated Watershed Development Programme in Haryana Shiwalik, by Mehtab Singh (2012).
26. Influence of Climate Change on Nanda Devi Biosphere Reserve by Suraj Mal (2013).
27. Glacier Lake Outburst Flood and Associated Geohazards in Himachal Himalaya by Pankaj Kumar (2013).

28. Agriculture Vulnerability to Climate Change in Rajasthan 1950-2010 by Ajay Kumar Gurjar (2014).
29. Resource Base And Livelihood Strategies in Selected Panchayats of Himachal Pradesh by Anjali Yadav (2015).
30. Climate Change and Livelihood Security in Kangra District by Swarnima Singh (2015).

2. *Supervision of Doctoral Thesis, under progress-6*

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

3. *Supervision of awarded M.Phil dissertations-74*

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 Chhapra Block, Varanasi District By B.W. Pandey (1992).
9. Waterlogged Areas in Karnal District: A Geographical Analysis by Mehtab Singh (1994).
10. Ecological and Socio-Economic Impacts of River Basin Development: A Case of Sardar Sarovar Project by Umesh Kumar (1993).
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. Dynamics of Agriculture and Forestry as a Source of Sustainable Livelihood – A Case Study of Kangra District by Sandeep Jha (2014).
 71. Ecological Footprint Assessment in Dharamshala Tehsil, Himachal Pradesh by Naresh Kumar (2014).
 72. Food Security in Kangra District, Himachal Pradesh by Aarti (2015).
 73. Urban Environment and its Impact on Human Health: A Case Study of Kolkata by Md. Senaul Haque (2015).
 74. Prioritizing Watershed for Sustainable Development in Swan Catchment, Himachal Pradesh by Amit Kumar Batar (2015).
 75. Livelihood Security and Role of Forest Governance in Rajaji National Park, Uttarakhand by Divya Singh (2016)
- Supervision of M.Phil dissertations, under progress-6*
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.** Ground Water Security and Environmental Change Induced Migration-A Study of Rebari Community of Western Rajasthan, India by Anupama Kataria
 - 80.** Impact of Climate Change on Snow Cover, Glaciell Lakes and Associated Outburst Flood hazards in Bhilangana River Basin, Uttarakhand, by Abhisek Banerjee.

Publications Profile

List against each head (If applicable) (as Illustrated with examples)

1. Books/Monographs (Authored/Edited)

A. Published Books/Atlas: 12

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. 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.
4. 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.)
5. **Singh, R.B.**: Risk Assessment and Vulnerability Analysis, IGNOU PG Diploma in Disaster Management- MPA-003, New Delhi., pages 355, 2005.
6. Kumar, B. and **Singh, R.B.**: Urban Development and Anthropogenic Climate Change-Experience in Indian Metropolitan Cities, Manak Pub., New Delhi, pages 216, 2003.
7. **Singh, R.B.**: Practical Work in Geography, Part 2, Text Book for Class XII, NCERT, New Delhi, pages 58, 2003.
8. 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.
9. **Singh, R.B.**: Practical Work in Geography, Part 1, Text Book for Class XI, NCERT, New Delhi, pages 65, 2002.
10. **Singh, R.B.**: Space Technology for Disaster Monitoring and Mitigation in India, INCEDE, Inst. Of Industrial Science, University of Tokyo, Pages 58, 1994.
11. **Singh, R.B.**: Geography of Rural Development, New Delhi, Inter India Publisher, 1986.
12. Singh, R.P.B. and **Singh, R.B.**: Changing Frontiers of Indian Village Ecology, Varanasi, Banaras Hindu University-NGSI, 1981.

B. Edited Research Volumes/Books: 33

13. **Singh, R.B.**: Progress in Indian Geography-A Country report, Indian National Science Academy, New Delhi, Pages 214, 2016.
14. Singh, R.B., Schickhoff, Mal, Suraj, Climate Change, Glacier Response and Vegetation Dynamics in the Himalaya-Contribution towards Future Earth Initiatives, Springer, Pages 399, 2016.
15. **Singh, R.B.** : Environmental Geography of South Asia, Contributions toward a future earth Initiative, Springer, Tokyo, 2015
16. **Singh, R.B.** : Urban Development Challenges, Risk and Resilience in Asian Mega Cities-Sustainable Urban Future of Emerging Asian Mega Region, Springer, Tokyo, 2015.
17. **Singh, R.B.** and Hietala, R. : Livelihood Security in Northwestern Himalaya, Springer, Tokyo, Pages 258, 2014.
18. Singh, Mehtab, **Singh, R.B.** and M.I.Hasan : Climate Change and Biodiversity, Springer, Tokyo, 2014.
19. Singh, Mehtab, **Singh, R.B.** and M.I.Hasan : Landscape Ecology and Water Management, Springer, Tokyo, 2014.
20. **Singh, R.B.**: Progress in Indian Geography-A Country report, Indian National Science Academy, New Delhi, Pages 198, 2012.
21. Himiyama, Y., Kanda, F., **Singh, R.B.** and Hindson, J.: Glocal Environmental Education, Rawat Publications, Jaipur, Pages 246, 2010.
22. **Singh, R.B.**: Biogeography and Biodiversity, Rawat Publications, Jaipur, Pages 340, 2009.
23. Jha, M.M. and **Singh, R.B.**: Land Use-Reflection on Spatial Informatics, Agriculture and Development, Concept Publishing Company, New Delhi, Pages 318, 2008

24. Mohammad, N., **Singh, R.B.** and Datta, A.: Spatial Information Technology for Natural Resources Management, Concept Publishing Company, New Delhi, Pages 180, 2007.
25. 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.
26. **Singh, R.B.**: Natural Hazards and Disaster Management, Rawat Pub., Jaipur, Pages 352, 2006.
27. **Singh, R.B.**: Sustainable Urban Development, Concept Publishing Company, New Delhi, Pages 431, 2006.
28. **Singh, R.B.**: Human Dimensions of Sustainable Development, Rawat Pub., Jaipur, pages 279, 2002
29. **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.
30. **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.
31. **Singh, R.B.**: Disaster Management, Rawat Pub., Jaipur, pages 333, 2000.
32. **Singh, R.B.** and Murai, Shunji: Space Technology for Sustainable Development, Oxford & IBH Publisher, New Delhi, 1998, pages, 368.
33. **Singh, R.B.**: Sustainable Development of Mountain Environment of India and Canada, New Delhi, Oxford & IBH Pub., 1998, Pages 345.
34. **Singh, R.B.**: Ecological Techniques and Approaches to Vulnerable Environment, New Delhi, Oxford & IBH Pub., pages 255, 1998.
35. 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.
36. **Singh, R.B.** and Majoral, R.: Development Issues in Marginal Regions, New Delhi, Oxford & IBH Pub., 1996, Pages 310.
37. **Singh, R.B.** and Misra, S.: Environmental Law - Issues and Responses, New Delhi, Concept Pub., 1996, Page 303.
38. **Singh, R.B.**: Disasters, Environment and Development, New Delhi, Oxford & IBH Pub., Pages 600, 1996.
39. **Singh, R.B.**: Research in Geography, Vol. II Disaster and Environment - Monitoring and Forecasting, New Delhi, APH Pub., 1996, Pages 357.
40. **Singh, R.B.**: Research in Geography, Vol I - Land Use Changes and Sustainable Development, New Delhi, APH Pub., 1996, Pages, 335.
41. **Singh, R.B.** and Haigh, Martin J.: Sustainable Reconstruction of Highland and Headwater Regions, New Delhi, Oxford & IBH Pub. 1995, Pages 681.
42. **Singh, R.B.**: Global Environmental Change-Perspectives on Remote Sensing and GIS, New Delhi, Oxford & IBH Pub., 1995 Pages 321.
43. **Singh, R.B.**: Environmental Monitoring - Application of Remote Sensing and GIS, Hong Kong: Geocarto Int. Centre, Pages 192, 1991.
44. **Singh, R.B.**: Dynamics of Mountain Geosystems, New Delhi: Ashish Pub., 1991, Pages 375,
45. **Singh, R.B.**: Environmental Geography, Contribution to Indian Geography Vol. XI, New Delhi, Heritage Pub., 1990, Pages 352 XV.

2. *Research papers published in Refereed/Peer Reviewed Journals including Pub. with Impact factor : 44*

- 1 Singh, R.B., Janmajaya, M., 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 the Earth, <http://dx.doi.org/10.1016/j.pce.2015.04.004>.

- 2 **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.
- 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.**, 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).
- 5 **Singh, R.B.**, Grover, Aakriti and Zhan, Jinyan: Inter-Seasonal Variations of Surface Temperature in the Urbanized Environment of Delhi Using Landsat Thermal Data, *Energies* 7, doi:10.3390/en7031811, 2014.
- 6 **Singh, R.B.** and Shi, C.: 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.
- 7 **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.
- 8 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.
- 9 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, 2013.
- 10 Ma, Maohua, Haapanen, Toni, **Singh, R.B.** and Hietala, R.: Integrating Ecological Restoration into CDM Forestry Projects, *Environmental Science and Policy*, Vol. 30, 2013.
- 11 Mal, Suraj and **Singh, R.B.**: Differential Recession of Glaciers in Nanda Devi Biosphere Reserve, India, *IAHS Red Book 360*, pp. 71-76, 2013.
- 12 **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.
- 13 **Singh, R.B.** and Anand, Subhash: Geodiversity, Geographical Heritage and Geoparks in India, *International JI. Of Geoheritage*,1(1), pp 10-26, 2013.
- 14 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), pp.126-36, 2012.
- 15 **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.
- 16 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 JI.)*, No.55B, 2012.
- 17 Ma, Maoha, **Singh, R.B.** and Hietala, H.: Human driving forces for ecosystem services in the Himalayan region, *Environmental Economics*, 3(1), pp. 53-57, 2012.
- 18 **Singh, R.B.** and Kumar, Dilip: Remote sensing and GIS for land use/cover mapping and integratedland management: case from the middle Ganga plain, *Front. Earth Sci.*, 6(2), 2012
- 19 **Singh, R.B.** and Singh, S.: Rapid Urbanization and Induced Flood Risk in Noida, India, *Asian*

- Geographer, Vol. 28, Issue 2, pp. 147-69, 2011.
- 20 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.
 - 21 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 JI.)*, No.54B, pp. 49-55, 2011
 - 22 **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.
 - 23 **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.
 - 24 **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.
 - 25 **Singh, R.B.:** Integrated Water Resources Management in the Vulnerable Indian Environment, *IAHS Red Book 330*, pp. 187-93, 2009.
 - 26 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.
 - 27 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.
 - 28 **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.
 - 29 **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.
 - 30 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.
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143 **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.

Conference Organization/ Presentations (in the last three years)

2. Participation as Paper/Poster Presenter

Presentations In foreign countries (Last 5 years)

1. Presented paper and chair a session in the 2nd MAIRS Workshop, June 7-11, 2011 at Harbin, China
2. Presented paper in International Workshop on Developing Asian Mega Cities toward a Sustainable World, at Zhangjiajie, China during April 25-27, 2012.
3. Delivered invited Special lecture and Presented two papers and chaired a session in the Japan Geoscience Union (JpGU) Meeting during May 21-23, 2012 at Chiba, Japan.
4. Presented paper and Chaired a Session at the 32nd International Geography Congress, Cologne, Germany during August 26-30, 2012.
5. Participated in the IGU Executive Committee Meeting, Presented Papers and Chaired a Session at the Kyoto IGU Regional Conference during August 2-9, 2013.
6. Presented paper and Chair a session at the DPRI International Conference at the Kyoto University, December 1-3, 2013 and deliver Lecture at the Special Symposium at the Science Council of Japan, Tokyo on December 5, 2013.
7. Presented paper at the International Conference on Science and Technology for Sustainability Transdisciplinarity for Global Sustainability-- Strategies for Research and Capacity Building, at the Science Council of Japan, Tokyo on July 18, 2014.
8. Organised and Chair session, presented papers at IGU Regional Conference, Krakov, Poland during August 18-22, 2014.
9. Participated and delivered lecture at the ICSU-UNU workshop on Urban Health and wellbeing programme at the Institute of Urban Environment, Chinese Academy of Sciences in Xiamen, China during 8-9 December, 2014.
10. Delivered lecture at Danish Cultural Institute organised Indo-Danish meeting at Copenhagen during February 23-25, 2015.

11. Delivered lecture at the NIHU sponsored programme on Sustainable, Inclusive and Peaceful Development in Globalising South Asia and India at Kyoto University during March 6-9, 2015.
12. Chair Session and delivered lecture at AAG Conference at Chicago during April 20-22, 2015.
13. Chair Session and delivered lecture at IGU Regional Conference, Moscow, August 26-30, 2015.
14. Delivered Opening and Special Lecture at First Asian Conference on Geography, Shanghai, October 9-12, 2015.
15. Delivered invited talk at World Engineering Conference and Convention, Kyoto, November 30-December 2, 2015.
16. Moderated session on Exposure and Vulnerability and delivered lecture on Youth Side event at the UNISDR Science and Technology Conference on Disaster Risk Reduction, Geneva, January 27-29, 2016.
17. Lecture on Science Advice in times of Emergencies, IAP Global Network of Science Academy Conference at Hermanus, South Africa, during February 28-March 1, 2016.
18. Lecture at World Cultural Forum, Macau, China during June 7-9, 2016.

Conference Presentation in India (last 5 years)

19. Delivered Keynote lecture at MLB College, Gwalior on March, 03, 2012.
20. Delivered Lecture as Resource Person at DST Training Programme on GIS at MDU University Rohtak on 16th June, 2012.
21. Delivered Special Lecture at the 34th Indian Geography Congress at Patna University during November 11-13, 2012.
22. Delivered Lecture on Disaster Management at the CPDHE, University of Delhi on January 19, 2013.
23. Participated in the IGU Executive Committee Meeting, and Presented papers in the IGU Conference on Land Use, Biodiversity and Climate Change at M.D.University, Rohtak during March 14-17, 2013.
24. Delivered two lectures at the ICSSR Research Methodology Course for Teachers and research Students, organised by the SSN College, Delhi University, December 2013.
25. Presented key note lecture at the National Conference on the Development of Life Insurance Sector at Ghaziabad, January 11, 2014.
26. Delivered Key-note Lecture at the National Conference on the Non-Conventional Energy Sources, at the Raigarh, Rajasthan on January 18, 2014.
27. Chair session and Presented paper at the IGU India Conference on Geohazards, Biodiversity, Resource sustainability and Mountain response to Global Change at Srinagar, Kashmir during June 4-5, 2014 at the University of Kashmir .
28. Delivered lecture at the Conference on the Role of higher Education in Disaster Management with Special Reference th 12th Plan, Department of Anthropology, Delhi university on June 11,

2014.

29. Delivered lecture as Panelist at the National Conference on Preservation of Indian Rivers at the PHD Commerce, Delhi on July 15, 2014.
30. Chaired session at the Indian Geography Congress at Rajasthan University, Jaipur during November 17-18, 2014.
31. Chaired session and delivered lecture at the CSR Foundation Seminar on Role of CSR in Rural Sector at Delhi on January 17, 2015.
32. Deliver lecture at Summer School on Application of RS and GIS at Aligarh Muslim University, August 8, 2015.
33. Deliver lecture at Aditi College, Delhi University Workshop on Role of Women in Disaster management, October 5, 2015.
34. Deliver lecture at IGU Conference, SNDT Women University on Urban Health during November 4-6, 2015.
35. Deliver 3 lectures at Refresher Course programme, Burdwan University during February 19-20, 2016.
36. Deliver lecture at IGU India Conference, Delhi University, March 18-20, 2016.

Research Projects (Major Grants/Research Collaboration)

1. Principal Investigator: Livelihood Security in Changing Socio-Economic Environment in Himachal Pradesh, India (2012-2015) 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 sponsored by Shastri Indo-Canadian Institute.
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. 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.

Awards and Distinctions

1. Awarded JSPS Fellowship at the Hiroshima Jogakuin University, Japan during June-August 2013.
2. Member-Organising Committee, UN Conf on Role of Science and Tech.in Disaster Risk Reduction.
3. Leader, INSA National Delegation to 32nd International Geography Congress, 2012, Cologne, Germany.
4. UNESCO/ISSC, Paris Research and Study Grant Award in Social & Human Sciences, 1988.
5. UNEP-UNITAR Fellowship for Training in GIS Technology in the Field of Environment, at EPFL-Laussane and GRID-Geneva, October 1988 to April 1989.
6. Guest Fellowship for Asian Scholar, Nordic Institute of Asian Studies, Copenhagen, Denmark during Sept.-Oct. 1998
7. Visiting programme and Lectures during short term visit in November, 2008 and August, 2010 at the Department of Geography, Univ. of Turku, Finland.
8. Several Travel Fellowships/ Support from UNEP, UNITAR,UNU, UNCRD, WCRP, IAHS, IGU, NASDA, INSA, UGC, SICI and Univ. of Delhi etc. for participating and presenting papers, Chairing session and discussing research projects in more than 30 countries.
9. Leader, INSA National Delegation to Tunis International Geography Congress, 2008, Tunisia
10. Dy. Coordinator, UGC-DRS Programme, Department of Geography, University of Delhi.
11. Nominated Member Curriculum Development for Geoinformatics jointly nominated by UGC and Department of Space, Govt. of India.

12. Expert Committee Member: UGC/CEC-EDUSAT.
13. Past Expert - Glossary of Geography, Comm. of Sc. & Tech. Terminology, Government of India, NRC for Evn. Education, NCERT. Member, INSA National Delegation to Glasgow International Geography Congress, 2004
14. Member, INSA National Delegation to Glasgow International Geography Congress, 2004
15. Nominated Member –Study Group for Preparation of NCR Plan-2021, Govt. of India.
16. Nominated Member-Board of Studies, TERI School of Advanced Studies, New Delhi since 2003.
17. Second Position in M.A. Geography and First Position in Dip. in Stat. Methods.

Association With Professional Bodies

1. Elected Vice President-International Geographical Union (IGU) (2012-16).
2. Nominated Member-ICSU Science Committee-Health and wellbeing in Changing Urban Environment, 2016-18.
3. IAP-Global Network of Science Academies Representative on disaster Risk Reduction, 2015 onwards
4. Nominated Member-IUGG-IGU Nat. Committee, Indian National Science Academy (2008-2015).
5. Vice-Chair-IGU Commission on Biogeography and Biodiversity (2008-12)
6. Elected Secretary General-Nat. Asso. Of Geographers India (2002-2010); Joint Secretary in 2001
7. Nominated Steering Comm. Members of Various Commissions - Int. Geographical Union (IGU) Commissions (1988-2008).
8. Nominated Special Representative-World Asso. Of Soil and Water Conservation, 2007-2010.
9. Associate Faculty, Global Earth System Governance Project of ESSP, The Netherlands since 2008.
10. Regional Promoter-South Asia, IGU Initiative Culture, Civilisations and Human Dev. 2006-2009.
11. Elected Secretary, Hydrology Section, Asia-Ocenia Geoscience Society, Singapore, 2004-2007.
12. South Asian Rep. in Managing Board of Commonwealth Geographical Bureau (1992-2000).
13. Nominated Member, ICAR Programme Impl. Comm. on Land Use/Cover Change and Food Security in Indo-Gangetic Plain.
14. Chairman - NAGI -Comm. on Env. Monitoring and GIS during 1989-2000.
15. Elected Recorder - Earth System Science Section of Indian Science Congress Association (1996-98).

Editing

1. Springer Series Editor-Advances in Geographical and environmental Sciences (7 volumes published)
2. Special Issue Editor-Physics and Chemistry of the Earth, 2015.
3. Special Issue Editor-Advances in Meteorology, 2014.
4. Special Issue Editor-Sustainability, 2014.
5. Special Issue Editor-NAM Today, Feb.2016.
6. Managing Editor- Nat. Asso. Of Geographers, India , NAGI (2010-13).
7. Member, Advisory Council, Bulletin of Geography, Socio-Economic Series, 2013.
8. Editor, Asso. of Geographical Studies, Delhi University- 2002-2007.
9. Member-Editorial Board, Journal of Water & Land Use Management