




## Faculty Details proforma for DU Web-site

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Title	Dr.	First Name	Bindhy Wasini	Last Name	Pandey	Photograph
Designation		Associate Professor				
Address		<b>Department of Geography, Delhi School of Economics University of Delhi Delhi-110007</b>				
Phone No Office		91-11-27666491				
Residence		09560525260				
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Email		<a href="mailto:bwpdsegeo@gmail.com">bwpdsegeo@gmail.com</a> <a href="mailto:bwpandey@geography.du.ac.in">bwpandey@geography.du.ac.in</a>				
Web-Page		<a href="http://geography.du.ac.in/associate_professor.html">http://geography.du.ac.in/associate_professor.html</a>				
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		University of Delhi			2000	
M. Phil. / M. Tech.		University of Delhi			1992	
PG		University of Gorakhpur			1988	
UG		University of Gorakhpur			1986	
Career Profile						
<b>Associate Professor</b> , Department of Geography, Delhi School of Economics, University of Delhi, Since February 21, 2014.						
Administrative Assignments						
<ol style="list-style-type: none"> <li>1. <b>Warden</b> Jubilee Hall Hostel, University of Delhi since 01 February 2018.</li> <li>2. <b>Faculty-in-Charge</b> of M. Phil. and Ph. D. for 2018-2019, 2014-15 and M. A. 2015-2016, Department of Geography, Delhi School of Economics, University of Delhi.</li> <li>3. <b>Faculty-in-Charge</b> of M. A. for 2015-2016, Department of Geography, Delhi School of Economics, University of Delhi.</li> <li>4. <b>Superintendent of the Examinations</b> M. A. Geography, Department of Geography, Delhi School of Economics, University of Delhi, May 2017, November-December 2017 and May 2018.</li> <li>5. <b>Nodal Officer</b> for admission in M. A., M. Phil and Ph. D. in Department of Geography, Delhi School of Economics, University of Delhi for the Academic years, 2016-2017 and 2017-2018.</li> <li>6. <b>Member Admission Committee</b> for M. A., M. Phil. And Ph. D. In the Academic year 2017-2018.</li> <li>7. <b>Convener</b> for admission in M. A., M. Phil and Ph. D. in Department of Geography Delhi School of Economics, University of Delhi for the Academic years, 2015-16.</li> </ol>						

Areas of Interest / Specialization

**Vulnerability Assessment in High Altitudes. Climate Change, Hazard-risk Assessment and Natural Resource Management.**

Subjects Taught

**102: Environmental Ecology**  
**302: Natural Resources Management**  
**415: Urban Impacts on Resources and Environment**  
**443: Geography of Himalaya**

Time table of the subjects taught during the current semester

S.No.	Subject	Days	Time	Classroom
M. A. geog. I Sem.	Environment and Ecology	Tuesday	10:50-15:10	Hall No 01
M. A. Geog. III Sem.	Natural Resource Management	Wednesday	10:50-12:30 14:00-15:10	Hall No 02
M. A. Geog. IV Sem.	Geography of Himalaya	Thursday	9.00 to 11:30	Hall No 02
M. Phil. Course Work-II	Natural Resources Management	Wednesday	15.00 to 17.00	Room No. 13
M. A. /M. Phil. /Ph. D.	Dissertation/ Thesis Supervision	Monday to Saturday	9.00 to 06 pm	Room No. 13
Departmental/ Council Meetings, DRC, Courses of Committee and Seminars and Workshops	As per schedule and Notices			

Research Guidance

**Supervised 01 Ph. D. and 04 M. Phil. Presently Supervising 06 Ph. D. and 02 M. Phil. Scholars on various topics related to Himalayan Ecology, Vulnerability and Sustainable Development.**

## 1 Research Supervision

### (Ph. D.)

1. **Abhay Shankar Prasad:** Impact of Natural Hazards on Livelihood Security in Alaknanda River Basin Uttarakhand (**Awarded** on 08/12/2017).
2. **Usha Kumari Anand :** Management of Municipal Solid Waste for Urban Sustainability in Meerut City (25/09/ 2014).
3. **Himanshu Mishra:** Impact of Climate Change on the Livelihood of Transhumance Community in Chamba Himachal Pradesh (25/09/ 2014).
4. **Rajeev Kumar Ranjan:** Impact of Climate Change on Environmental Sustainability and Livelihood Security in Leh Region, Jammu and Kashmir (31/03/ 2015).
5. **Nikhil Roy:** Self-Organized Criticality in River Bank Failure: A Case Study of Brahmaputra River System Assam (01/04/ 2015).
6. **Sant Prasad:** Urban Health Wellbeing and Innovation in Varanasi City (Registered in 2017).
7. **Suman Saurabh:** Livelihood Vulnerability and Resilience to Natural Hazards in Rudraprayag District Uttarakhand (27/04/2018)
8. **Teja Ram Nitharwal:** Geographical Analysis of Effects of Indira Gandhi Canal Project on Dairy Occupation from 2000-2015 (27/04/2018)

### (M. Phil. Supervision)

1. **Prastha Rajoria:** Spatio-Temporal Analysis of Land Use Land Cover Change in Rewari District, Haryana (**Awarded, 2017**).
2. **Harish Kumar:** Impact of Forest Ecosystem Services on Livelihood Security in Carbet National Park. (**Awarded, 2018**).
3. **Sonam Bhaduria:** Geographical Assessment of Vulnerability in Slum areas of Gwalior Municipal Corporation: A Challenge for Smart City Development. (**Awarded, 2018**).
4. **Nishit:** Impact Analysis of Climate Change on Urban Health: A Case Study of National capital Territory (NCT) of Delhi. (**Awarded, 2018**).
5. **Rajesh Kumar:** Impact of Pradhanmantri Ujjwala Yojana on Women Health: A Case Study of Lakhisarai District, Bihar. (Registered in 2016-18).
6. **Pushlal Ganesh:** Implications of Flood Disasters: A Case of Kishanganj District, Bihar. (Registered in 2017-19).

**Supervised 24 M. A. Geography, Master Dissertation on Various Topics related to Himalayan Ecology, Vulnerability and Sustainable Development.**

### Publications Profile

#### **Books**

1. **Environmental Concerns and Sustainable Development in Himalaya** (Bindhy Wasini Pandey, V. S. Negi and Poonam Kumria eds.) Research India Press, New Delhi. 2017. ISBN 977-93-5171-104-9
2. **Water Resources: Potentiality, Vulnerability and Management: Indian Experiences.** (B. W. Pandey ed.) Research India Press, New Delhi. 2017. ISBN: 978-93-5171-0950

3. **Whither Sustainable Development: Studies in Planning and Management of Land and Water Resources** (V. S. Negi, B.W. Pandey and Poonam Kumria eds.) Research India Press, New Delhi. 2017. ISBN : 978-93-5171-096-7
4. **Dynamics of Land Use Change: Sustainability and Management** (B. W. Pandey ed.) Research India Press, New Delhi. 2014. Pp.316 ISBN: 978-93-5171-002-8
5. **In Search of Sustainability: Global Perspective on Marginality, Technology, Politics and Planning of Land Use.** (B. W. Pandey ed.) Research India Press, New Delhi. 2011. Pp. 312. ISBN: 978-81-89131-49-4
6. **Hazard Ecology: Approaches and Techniques** (B. W. Pandey ed.) Mittal Publication, New Delhi, 2010, Pp. 395. ISBN: 81-8324-105-0
7. **Natural Resource Management.** (B. W. Pandey ed.) Mittal Publication, New Delhi. 2005. Pp 465. ISBN: 81-7099-986-3
8. **Geoenvironmental Hazards in Himalaya: Assessment and Mapping.** (B. W. Pandey) Mittal Publication, New Delhi, 2002. Pp. 460. ISBN: 81-7099-864-6

#### Research Papers (Peer Reviewed Journals)

1. Slope vulnerability, mass wasting and hydrological hazards in Himalaya: a case study of Alaknanda Basin, Uttarakhand (Bindhy W. Pandey, Abhay S. Prasad) 10.20396/td.v14i4.8654111. **Terræ Didactica** Pp. 395-404.
2. Revisiting the Environmental Condition in Seelampur JJ Cluster (S. Anand, B. W. Pandey, Harish Kumar and Shakeel Ahmad). **The Horizon**-The Journal of Social Sciences. No. 2/2018, Volume: 9, July 2018.
3. Impact Assessment of Natural Hazard on Livelihood Security, Biodiversity and Sustainable Development in Alaknanda river basin Uttarakhand (Abhay Shankar Prasad and Bindhy Wasini Pandey). **The Deccan Geographer**. Vol.55, No. 1&2, June and December 2017. Pp. 132-146.
4. Pre-natal Health Status of Marginal Peasant Women in Lachigad Watershed, Uttarakhand. (B. W. Pandey, V. S. Negi, Vaneeta Chandna and Gayatri Meena). **The Eastern Anthropologist**. Vol. 70 No.3-4. July-December 2017. ISSN: 0012-8686. Pp. 327-343.
5. Climate Change, Land Use and Land Cover Change Detection and Its Impact on Hydrological Hazards and Sustainable Development: A Case Study of Alaknanda River Basin, Uttarakhand, India. (Abhay Shankar Prasad and Bindhy Wasini Pandey) **Riscuri si Catastrofe Journal**, An XVI, Vol. 20, nr. 1/2017, Editor: Victor Sorocovschi Riscuri și catastrofe , Casa Cărții de Știință Cluj-Napoca, 2017, Pp.55-68, ISSN 1584-5273
6. Horticulture Development in Himalaya: A Case Study of Lachi gad Watershed, Uttarakhand. (B. W. Pandey, Rinku Kumari, Usha Rani and O. J. Ranjan) **The Horizon**. No. 2/2017, Volume- VIII July 2017. ISSN-0975-5535. Pp. 153-163.
7. Climate Change Impacts On Mountain Communities, Perception and Adaptation in ‘Dabka Watershed’ of Uttarakhand. (Atithi Pant, B. W. Pandey and V. S. Negi). **Indian Streams Research Journal**. Vol.7 Issue 5, 2017. ISSN 2230-7850 Pp01-10
8. Forestry and mass-wasting hazard in South British Columbia, Canada (B. W. Pandey, Abhay Shankar Prasad and Himanshu Mishra). **Hill Geographer** XXXII:1, 2016. Pp.13-26
9. Hazard Risk Assessment through Community Participation: A Case Study Of Gaula Rive Catchment: Kumaun Himalaya (Atithi Pant, B. W. Pandey and V. S. Negi) **Deccan Geographers** December 2016. Vol. No. 52 No. 2, ISSN – 0011-7269 Pp. 11-16.

10. Spatio-Temporal analysis of Land Use Changes: A Case Study of Rewari District, Haryana (Prastha Rajoria, B. W. Pandey and Om Jee Ranjan) **The Horizon: A journal of Social Sciences**. No. II/2016. Vol.VII, July, 2016. ISSN-0975-5535. Pp. 01-11.
11. Community Based Disaster Management Planning and Hazard Risk Assessment for Social Security: A Case Study of Talla Johar Valley of Uttarakhand, India ( Atithi Pant, B. W. Pandey and V. S. Negi), **International Journal of Interdisciplinary Research in Science Society and Culture (IJIRSSC)** Vol: 2, Issue:1, (June Issue), 2016 ISSN: (P) 2395-4335, (O) 2455-2909. Pp. 01-19.
12. Mountain hazard susceptibility and livelihood security in the upper catchment area of the river Beas, Kullu Valley, Himachal Pradesh, India (Abhay S. Prasad, Bindhy W. Pandey, Walter Leimgruber and Ripu M. Kunwar) In **Springer Journal Geoenvironmental Disasters** (29/02/2016) 3:3 DOI 10.1186/s40677-016-0037-x. Pp. 01-17.
13. Concept and Practices in Disaster Management (Nikhil Roy and Bindhy Wasini Pandey). In **World Focus**. A Premier Indo-centric Foreign Affairs Journal, Special Issue on Disaster Management and Mitigation. May, 2016. ISSN 2230-8458. Volume XXXVII Number 05, May 2016. Pp. 127-129.
14. Climate Change and Weather Cycle Anomaly (B. W. Pandey) **NAM TODAY an International Journal for the New Age Mind**. Special Issue on Climate Disasters and Livelihood Security: Contribution towards Sendai Framework for Disasters Risk Reduction 2015-2023. ISSN 2347-3193 Vol. LV. No. 2 February 2016. Pp. 20-21.
15. Vulnerability and Extreme Events Assessment for Disaster Risk Reduction in High altitude Ecosystem: A Case Study of Alaknanda River Basin, Uttarakhand, India. (Abhay Shankar Prasad and B. W. Pandey) **Journal of Land use and Water Management, 2015, Volume 15, No1&2, ISSN: 0973-9300**. Pp. 14-42.
16. Anthropogeography of High Altitude Transhumance Region of Western Himalaya (B. W. Pandey) **The Eastern Anthropologists**. Vol.68. No. 4 October –December 2015. ISSN: 0012-8686. (Ethnographic and Folk Culture Society Lucknow, India). Pp. 527-545.
17. Pivotal Role of Prevailing Informal-Credit-System on Socio-Economic Optimization in Detached Villages: A Case Study of Three Villages of Bihar (Omjee Ranjan, B. W. Pandey) **International Journal of Interdisciplinary Research in Science Society and Culture (IJIRSSC)** Vol: 1, Issue:2, (December Issue), 2015 ISSN: (P) 2395-4335, (O) 2455-2909. Pp. 01-13.
18. Some Aspects on Prevailing Trends of Borrowing Money with Special Reference to a Remote Rural Area in Himachal Pradesh. (Omjee Ranjan, B. W. Pandey and Subhash Anand). **The Horizon: A journal of Social Sciences**. No. II/2015, Vol.VI, July 2015. ISSN-0975-5535. Pp. 137-148.
19. Adaptation Strategies for Flood risk Mitigation in Lower Brahmaputra River Basin, Assam through Integrated River Basin Management. (R. B. Singh, B. W. Pandey and Abhay Shankar Prasad). **Transactions, Institute of Indian Geographers (IIG)**. Vol.36. No. 2, 2014. Pp. 159-170. ISSN 0970-9851.
20. Extent and Magnitude of Flood due to Soil Erosion in Lower Brahmaputra River Basin Assam (R. B. Singh, B. W. Pandey and Abhay Shankar Prasad). **Annals of the National Association of Geographers India (NAGI)**. Volume: XXXIV No. 2 December 2014. ISSN: 0970972X. Pp. 162-179.
21. Living With Flood and Sustainable Livelihood Development in Lower Brahmaputra River

- Basin Assam. (R. B. Singh, B. W. Pandey and Abhay Shankar Prasad) **Indian Streams Research Journal**, (A Peer reviewed International Multidisciplinary Research Journal) Vol.4 Issue. 4 May 2014. Online. ISSN. 2230 7850. Pp. 01-09.
22. Slope Vulnerability, Landslides and Geohazards: Assessment and Mapping in Western Himalaya. (B. W. Pandey and Abhay Shankar Prasad) **Asian Academic Research Journal of Social Sciences and Humanities**. (A Peer reviewed International Journal of Asian Academic Research Associates) 2014. Vol. 01. Issue 22 April 2014.Pp. 402-419. On Line ISSN: 2278-859X.
  23. Environment Monitoring of Particulate Matter and Pollution in Major Rivers of India. (R. B. Singh and B. W. Pandey). In (K. Hartmut and Wilfried eds.) **Advances in Limnology 47, Official Journal of the International Association for Theoretical and Applied Limnology**. E. Schweizerbart'sche Verlags Buchhandlung Publication. Stuttgart, Germany 1996, pp. 557-561. ISSN: 0047-0557
  24. Environmental Degradation and Vanishing Livelihood Security in Western Himalaya, Himachal Pradesh. (B. W. Pandey). In **Deccan Geographical Journal**, Pune, Vol. 33, No. 2 (July to December 1995), pp. 112-120. ISSN: 0011-7269
  25. Environmental and Human Response to Hydro Geomorphology: Micro Level Study of Ganga Basin. (R. B. Singh and B. W. Pandey). **Journal of Scientific Research**. Vol. 43 (1&2), 1993. Banaras Hindu University, pp. 153-167. ISSN: 0447-9483.

#### Research Papers (Published as Chapters in Books and Proceedings)

1. Environmental Psychology and Health Care Cost: Understanding the Well-Being Level of Delhi Residents. (Swati Rajput, Kavita Arora, Rachna Mathur and B. W. Pandey). In Sharm V., Chandrakanta (eds) **Making Cities Resilient. The Urban Book Series, Cham. Springer** DOI [https://doi.org/10.1007/978-3-319-94932-1\\_14](https://doi.org/10.1007/978-3-319-94932-1_14). ISBN: 978-3-319-94931-4 (Print) 978-3-319-94932-1 (Online). Pp. 191-204. (09 February, 2019).
2. Bindhy Wasini Pandey and Abhay Shankar Prasad (2017) Integrated River Basin Management of Lower Brahmaputra River Basin, Assam, India: Perspective and Hope for Regional Development In V. S. Negi, Jagbir Singh, Vaneeta Chandana and Anupama M. Hasija (eds.) **Dimensions of Development: Implications and Management** Research India Press New Delhi. Pp. 218-244 ISBN : 978-93-5171-113-1
3. Atithi Pant, V. S. Negi and B. W. Pandey (2017) Ethnicity and Socio-Cultural Restructuring of Bhotiya Tribe: A case Study of Johar Valley of Kumaun Himalaya in Vishwambhar Prasad Sati and K. C. Lalmalsawmzauva (eds) **Natural Resource Management for Sustainable Development and Rural Livelihoods**. Vol. 2. Today and Tomorrow Printers and Publishers New Delhi. Pp. 939-952. ISBN 81-7019-584-1
4. B. W. Pandey, Akshansh Yadav and Himanshu Mishra (2017) Ecological Restoration and Livelihood Options Through Forestry: A Case Study of Pasolgaad Watershed Uttarakhand in Vishwambhar Prasad Sati and K. C. Lalmalsawmzauva (eds) **Natural Resource Management for Sustainable Development and Rural Livelihoods**. Vol. 3. Today and Tomorrow Printers and Publishers New Delhi. Pp. 593-603. ISBN 81-7019-584-1
5. Rajeev K. Ranjan, Anjan Sen, B. W. Pandey and Usha Kumari Pathak (2017) Environmental Sustainability Policies, Programmes and Millennium Development Goal in Bihar. In V. S. Negi, Jagbir Singh, Vaneeta Chandana and Anupama M. Hasija (eds.) **Dimensions of Development: Implications and Management** Research India Press New Delhi. Pp. 192-204 ISBN : 978-93-5171-113-1

6. Bindhy Wasini Pandey, Anand Malik, Om Jee Ranjan and Alankita Kundu (2017) GIS Based Landslide Susceptibility Analysis along the National Highway 10 and State Highway 12A. In V. S. Negi, Jagbir Singh, Vaneeta Chandana and Anupama M. Hasija (eds.) **Dimensions of Development: Implications and Management** Research India Press New Delhi. Pp. 42-60 ISBN : 978-93-5171-113-1
7. Hydro-Climatological Hazards and its Adaptations in Alaknanda River Basin, Uttarakhand, India. . (B. W. Pandey and Abhay Shankar Prasad) in V. S. Negi (ed.) **Climate Change Perspectives and Challenges in 21<sup>st</sup> Century**. Research India Press, New Delhi. 2017. Pp. 182-197. ISBN: 978-93-5171-094-3.
8. Urban Dynamics and Resource Consumption: A Case Study of NCT of Delhi. (Bindhy Wasini Pandey, Abhay S. Prasad, Himanshu Mishra and Sakshi Godara) in Poonam Sharma and Swati Rajput (Eds.) **Sustainable Smart Cities in India, Challenges and Future Perspectives** 2017. Pp. 333-352 Springer International Publishing. ISBN 978-3-319-47145-7 (E-Book) ISBN 978-3-319-47144-0
9. Sustainable Urban Development Through Ghats: A Case Study of Varanasi, Uttar Pradesh , 637-654, (Rajan Maurya, Bindhy Wasini Pandey and V.S. Negi) in Sharma, Poonam, Rajput, Swati (Eds.) **Sustainable Smart Cities in India, Challenges and Future Perspectives** Pp. 637-654. Springer International Publishing. 2017. ISBN 978-3-319-47145-7 (E-Book) ISBN 978-3-319-47144-0
10. Impact Analysis of Urbanization on Hydrological Profile: A Case Study of Lucknow Region (Meenakshi Lohani and B. W. Pandey). In Baleshwar Thakur, H S Sharma, Suresh Mishra, S. Chattopadhyay and Surendra Kumar (eds.) **Regional Development: Theory and Practice. Vol. 5. Development Challenges**. Concept Publishing Company Pvt. Ltd. New Delhi. 2016. Pp. 191-212. ISBN 978-93-5125-206-1 (Vol.5).
11. Economics Appraisals of Dams: A Case Study of Bagalihar Dam, Jammu and Kashmir, India (Bindhy Wasini Pandey and Shubham Padha). Proceedings of the International Seminar of Geography between Hiroshima University and University of Delhi on “**Promoting Economic Geography Studies on Inclusive Growth in Contemporary India**”. Graduate School of Letters, Hiroshima University, Japan, December 23-24, 2016.
12. Food Security in India: Policy Challenges and Performance (B. W. Pandey, Abhay Shankar Prasad, Om Jee Ranjan and Himanshu Mishra). In Baleshwar Thakur, H S Sharma, Suresh Mishra, S. Chattopadhyay and Surendra Kumar (eds.) **Regional Development Theory and Practice. Vol.4. Development Policies**. Concept Publishing Company Pvt. Ltd. New Delhi. 2016. Pp. 260-273. ISBN 978-93-5125-206-1 (Vol.4).
13. Understanding cultivation Ecology in Tawang-Chu River Basin Arunachal Pradesh (Om Jee Ranjan, S. Anand and B. W. Pandey) In Paramjit Singh (ed.) **Climate Change and Sustainable Development**. Shabdvani Prakashan, New Delhi. 2016. Pp. 189-203. ISBN. 978-81-931358-0-8
14. Anthropogenic Impact on Hydrological Hazards, Landslides and Soil Erosion in Alaknanda River Basin of Garhwal Himalaya, Uttarakhand, India (B. W. Pandey and Abhay Shankar Prasad), In VAV Raman (ed. **Geo Anthropogenic Environment: An Appraisal**. A. K. Publications, New Delhi. 2016. Pp. 283-289. ISBN: 978-93-85022-73-9.
15. Dynamics of Land use Change in Haryana: A Geographical Analysis. (B.W Pandey, Prastha Rajoria and Om Jee Ranjan) In VAV Raman (ed.) **Geo Anthropogenic Environment: An Appraisal**. A. K. Publications, New Delhi. 2016. Pp. 283-289. ISBN:

ISBN: 978-93-85022-73-9.

16. Vulnerability of River Gradient, Longitudinal Profile and Embankments Role in Extent and Magnitude of Flood: A Case Study of Lower Brahmaputra River Basin, Assam, India. (B. W. Pandey and Abhay Shankar Prasad). In Vishwambhar Prasad Sati (ed.) **Climate Change and Socio-Ecological Transformation**. Today and Tomorrow's Printers and Publishers, New Delhi. 2015. Pp. 253-263. ISBN 81-7019-518-3 (India) ISBN 1-55528-374-8 (USA).
17. Vulnerability Analysis of Climate Change and geo-hydrology in Alaknanda Basin, Uttarakhand. (B. W. Pandey, Abhay Shankar Prasad and Himanshu Mishra). In Chhering Tandup (ed.) Proceedings of the **International Conference on Change in Cryosphere its Impact on Ecosystem Services and Rural Livelihood: Understanding Local Adaptation in the Himalayan Region**. Department of Earth Sciences, Institute of Mountain Environment Bhaderwah Campus, University of Jammu. Excel India Publishers New Delhi. 2014. Pp. 405-415 ISBN: 978-93-83842-76-6
18. An Integrated Approach for Sustainable Use of Biodiversity in Agriculture. (B. W. Pandey, Neelam P. Mishra and P. M. Tripathi). In B. W. Pandey (ed.) **Dynamics of Land Use Change: Sustainability and Management**. Research India Press, New Delhi. 2014. Pp. 190-215. ISBN 978-93-5171-002-8.
19. Sustainable Use of Water Resources: The Need for New Management Options. (B. W. Pandey and Neelam P. Mishra). In Subhas Anand (ed.) **Progress in Environmental Management: Indian Experiences** Research India Press, New Delhi 2013. Pp.250-271. ISBN: 978-81-89131-91-3
20. Dynamics of Urban Ecology in Upper Kullu Valley-The Himachal Pradesh. (B. W. Pandey). In S. K. Chodhury (ed.) **Culture Ecology and Sustainable Development**. Mittal Publication, 2006. New Delhi. Pp. 273-286. ISBN: 81-8324-132-8
21. Community Participation in Water Resources Conservation and Management in Raath Region of Garhwal Himalaya. (B.W. Pandey, S. K. Bandooni and V. S. Negi). In G. S. Chauhan and R. N. Dubey (eds.) **Water Resources Management**. Nataraj Publications, New Delhi. 2004. Pp. 203-224. ISBN: 81-7312-024-2
22. Impact of Tourism on Ecohydrology in the Headwater Region of Beas, Himachal Pradesh. (R. B. Singh and B.W. Pandey). In S.R. Chalise and A. Herman (eds.) **Ecohydrology of High Mountain Areas**, ICIMODE-UNESCO Publication, Kathmandu, Nepal, 1998, pp. 519-525. ISBN: 92-9115-726-0
23. Sustainability of a Mountain Watershed Ecosystem in the Himachal Pradesh Himalaya: Background and Overview. (F. Berkes, G. S. Chauhan, I. Davidson Hunt, K. Davidson Hunt, C. Duffield, J. S. Gardner, L. Ham, B. W. Pandey, J Sinclair, R. B. Singh and M. Thakur). In R.B. Singh (ed.) **Sustainable Development of Mountain Environments in India and Canada** (CIDA\_SICI Project Experience). Oxford and IBH Publication, New Delhi, 1998, pp.1-35. ISBN: 81-204-1286-9
24. Population, Urbanization and Tourism in Kullu District. (B. W. Pandey, R. B. Singh and Tripta Singh). In R.B. Singh (ed.) **Sustainable Development of Mountain Environments in India and Canada** (CIDA\_SICI Project Experience). Oxford and IBH Publication, New Delhi, 1998, Pp. 153-171. ISBN: 81-204-1286-9
25. Environmental Hazards and Mitigation Measures in Upper Arrow Lake Region, British Columbia, Canada. (R. B. Singh and B. W. Pandey). In R.B. Singh (ed.) **Sustainable Development of Mountain Environment in India and Canada** (CIDA\_SICI Project



- Experience). Oxford and IBH Publication, New Delhi, 1998, Pp. 217-241. ISBN: 81-204-1286-9
26. Forest and Forestry, Degradation and Renewal in Arrow Lake Region, British Columbia, Canada. (B. W. Pandey and R. B. Singh). In R.B. Singh (ed.) **Sustainable Development of Mountain Environments in India and Canada** (CIDA\_SICI Project Experience). Oxford and IBH Publication, New Delhi, 1998, Pp. 242-256. ISBN: 81-204-1286-9
  27. Risk from Natural Hazards in the Manali Area. (J. S. Gardner, B. W. Pandey and R. B. Singh). In F. Berkes and J.S. Gardner (ed.) **Sustainability of Mountain Environment in India and Canada**. Natural Resources Institute, University of Manitoba Publication Canada. 1997, pp. 237-258.
  28. A Mountain Watershed Ecosystem in the Himachal Pradesh. (F. Berkes, G. S. Chauhan, I. Davidson Hunt, K. Davidson Hunt, C. Duffield, J. S. Gardner, L. Ham, B. W. Pandey, J. Sinclair, R. B. Singh and M. Thakur). In F. Berkes and J.S. Gardner (eds.) **Sustainability of Mountain Environments in India and Canada**. Natural Resources Institute, the University of Manitoba. Winnipeg, Canada, 1997, pp. 19-48.
  29. Hazard Zone Mapping and Risk Assessment Analysis in Upper Beas Basin: CIDA-SICI Experience. (R. B. Singh and B. W. Pandey). In R.B. Singh (ed.) **Disasters Environment and Development**, 1996, Oxford & IBH Publication, New Delhi, pp. 121-135. ISBN: 81-204-1072-6
  30. Snow Melting Variation and Environmental Effects: Micro Level Study of Himalayan Rivers. (B. W. Pandey and R. B. Singh). In Y.M. Yeung (ed.) **Global Change and the Commonwealth**, Chinese University of Hong Kong Press, 1996, pp. 433-445. ISBN: 962-441-526-9
  31. Landslide Hazard in Indian Himalaya and Canadian Rockies: A Comparative Analysis. (R. B. Singh and B. W. Pandey). In J. Chacon and C. Irigaray (eds.) **Landslides** (Proceedings of the Eighth International Conference on Landslides, Granada, Spain 27-28 September 1996). A. A. Balkema Publication, The Netherlands, 1996, pp. 63-69. ISBN: 9054108320
  32. Perspective for Managing Rural Water Resources: A Study of Ganga-Gomati Doab (R. B. Singh and B. W. Pandey). In (R.B. Singh ed.) **Research in Geography: Land Use Change and Sustainable Development**. Vol. 1. 1996, A.P.H. Publication. New Delhi, pp. 307-318. ISBN: 81-7024-735-7
  33. Common Resources and Sustainable Livelihood of Mountain Environment: Micro Level Experience of Upper Kullu Valley. (R. B. Singh and B. W. Pandey). In R.B. Singh and M.J. Haigh (eds.) **Sustainable Reconstruction of Highland and Headwater Regions**, 1995, Oxford & IBH Publication. New Delhi, pp. 663-681. ISBN: 81-2041035-1
  34. Sikkim Himalaya: Geographical System, Socio-economic Changes and Peoples' Perceptions. (R. B. Singh and B. W. Pandey). In M.P. Lama (ed.) **Sikkim Himalaya**, Indus Publication, New Delhi, 1994, pp. 557-561. ISBN: 81-7387-013-6.

#### Publications in the Last one year

1. Slope vulnerability, mass wasting and hydrological hazards in Himalaya: a case study of Alaknanda Basin, Uttarakhand (Bindhy W. Pandey, Abhay S. Prasad) 10.20396/td.v14i4.8654111. **Terræ Didactica** Pp. 395-404.
2. Revisiting the Environmental Condition in Seelampur JJ Cluster (S. Anand, B. W. Pandey, Harish Kumar and Shakeel Ahmad). **The Horizon**-The Journal of Social Sciences. No.

2/2018, Volume: 9, July 2018.

3. Environmental Psychology and Health Care Cost: Understanding the Well-Being Level of Delhi Residents. (Swati Rajput, Kavita Arora, Rachna Mathur and B. W. Pandey). In Sharma V., Chandrakanta (eds) **Making Cities Resilient. The Urban Book Series, Cham. Springer** DOI [https://doi.org/10.1007/978-3-319-94932-1\\_14](https://doi.org/10.1007/978-3-319-94932-1_14). ISBN: 978-3-319-94931-4 (Print) 978-3-319-94932-1 (Online). Pp. 191-204. (09 February, 2019).
4. Impact Assessment of Natural Hazard on Livelihood Security, Biodiversity and Sustainable Development in Alaknanda river basin Uttarakhand (Abhay Shankar Prasad and Bindhy Wasini Pandey). **The Deccan Geographer**. Vol.55, No. 1&2, June and December 2017. Pp. 132-146.
5. Pre-natal Health Status of Marginal Peasant Women in Lachigad Watershed, Uttarakhand. (B. W. Pandey, V. S. Negi, Vaneeta Chandna and Gayatri Meena). **The Eastern Anthropologist**. Vol. 70 No.3-4. July-December 2017. ISSN: 0012-8686. Pp. 327-343.

Conference Organization/ Presentations (in the last three years)

### Conference Organization

1. Organized a 3 Days' Inception Workshop, Break-out and plenary discussions of project plans and deliberations to assist DRR policy and practice in **UGC-UKIERI International Collaboration Project on HiFlo-DAT: Indian Himalayan Flood Database, for Disaster Risk Reduction**. International Guest House, University of Delhi during June 18-20, 2018.
2. Organized a Workshop in the Department of Geography, Delhi School of Economics, University of Delhi with **South Korean Delegates Ms. Olga, Ms. Won Bae and Ms. Rosaline on Nature and Peace** on March 15, 2018.
3. Organized UGC SAP-DRS *III* National Seminar on **Emerging Frontiers in Resources, Environment, Urban and Regional Planning**, Department of Geography, Delhi School of Economics, University of Delhi, December 23-24, 2017.

### Presentations in the Last Three Years

4. 2019. January, 12-13. Participated by delivering **Key Note Address** on Re-strengthening the Mountain Ecosystem through New Initiatives and Local Indigenous Knowledge: A Case Study of Garhwal Himalaya and Chaired a Technical Session "Social Dimensions in Geography." **In International Conference on Society and Sustainability: An Interdisciplinary Approach**. Organized by Department of Geography, Vivekananda College, Kolkata, West Bengal and The Eastern geographical Society, Bhubneshwar, Odisha.
5. 2018. December 01-03. Participated by Presenting a research paper on "Impact Assessment of Flood Disaster: A Case Study of Kishanganj District, Bihar" (B. W. Pandey, Pushalal Ganesh) and and Chaired a Technical Session on Economics of water system and impacts on water quality on Human Health. **International Conference on Global Water Crisis: Agriculture, and Food Security in the Era of Climate Change**. Department of Geography, Aligarh Muslim University, Aligarh.
6. 2018. November, 13-14. Participated as Observer, Indian Council of Social Science Research (ICSSR). **National Seminar on Mountain Communities and Adaptive Sustainable Livelihood Strategies**. Centre for the Study of Regional Development (CSRSD) Jawaharlal Nehru University, New Delhi.

7. 2018. October 03-05. Participated by Panel discussant in **30<sup>th</sup> IGI Conference on Geomorphology, Environment and Society**. Department of Geography, Jamia Millia Islamia, New Delhi.
8. 2018. June 02-03. Participated by Panel discussant and presenting a Research paper entitled “Water Crisis, Spatial distribution and Water Ethics as a tool for water conservation. In **National Conference on Environmental Challenges for New India**, Dr. Bhim Rao Ambedkar College, University of Delhi.
9. 2018. June 02-03. Participated by Panel discussant and presenting a Research paper entitled “Water Crisis, Spatial distribution and Water Ethics as a tool for water conservation. In **National Conference on Environmental Challenges for New India**, Dr. Bhim Rao Ambedkar College, University of Delhi.
10. 2018. April 21-22. Participated by presenting a Research paper entitled “Assessing the Effectiveness of Non-Structural Measures of Flood Management: Case Study of Brahmaputra Valley in Assam.” In **National Seminar on Climate Change Conclave**. Department of Geography, Shaheed Bhagat Singh Eve. College, University of Delhi
11. 2018 April 20-21. Participated by Delivering a Key Note on “Disaster Risk Reduction (DRR) Planning and Management in Himalayan Context.” In **International Conference on Mass Disaster and Emergency Management**. Organized by National Task Force for Disaster Management in Association with Kingsmead School, England and Dyal Singh College, University of Delhi.
12. 2018 March 27-28. Participated by (a) Presenting a research paper on “Impact of Tourism on the Environment of Manali” (B. W. Pandey, Usha Rani and Om Jee Ranjan) and (b) and Chaired a Technical Session on “Urban and Peri Urban Agriculture and Food Security”. In **National Seminar on ‘Urban Environment in the 21st Century: Issues and Challenges’** 27th-28th March, 2018 at the Department of Geography, Jamia Millia Islamia, New Delhi.
13. 2018 March 16-20. Participated by presenting a research paper on “Slope Vulnerability, Mass Wasting and Geohydrological Hazards in Himalaya: A Case Study of Alaknanda River Basin Uttakhand.” In **Earth System Sciences (ESS) of 105<sup>th</sup> Indian Science Congress (ISC)**, at University of Manipur, Imphal.
14. 2018. February 05-07. Participated by Chairing a Technical Session on Urban Housing Infrastructure” and Presented a Research Paper on Livelihood of Gaddi Community in Bharmaur District, Himachal Pradesh in **International Conference on Livable Cities: Transforming Sustainability and its Challenge**. Department of Geography, Shaheed Bhagat Singh College, University of Delhi.
15. 2017. December 29-30. Participated by (a) Chairing Technical Session-I and (b) Presented a Research Paper in Technical Session –II on “Himalayan Geoenvironmental Hazards” in **National Seminar on Mountain Economics and Environment Change in Himalayas**. DD College, Sri Dev Suman Uttarakhand University, Dehradun, Uttarakhand.
16. 2017. December 05-07. Participated by presenting a Research paper entitled *Anthropogenic Activity and Its impact on Hydrological Hazards, and Sustainable Development: a Case Study of Alaknanda River Basin, Uttarakhand, India* in **39<sup>th</sup> National Association of Geographers India (NAGI) Congress** at Department of Geography, Osmania University Hyderabad.
17. 2017. November 02. Delivered a Plenary Lecture on “Population, Environment and Sustainable Development in India: A Case Study of Himachal Himalaya” in ICSSR and

- Konkan Geographers Association National Conference on **Population, Environment and Sustainable Development**. At Department of Geography, NRS (GCR) PG College, Maharshi Dayanad University, Rohtak.
18. 2017. October 26-28. Participated by (a) Chairing a Technical Session entitled Rural “Livelihood Options and Governance” and (b) Presented a Research paper entitled “Ecological Restoration and Livelihood Options through Forestry: A case Study of Pasolgad watershed, Uttarakhand” in **International Conference on Resource Management for Sustainable Development and Rural Livelihoods**. School of Earth Sciences and Natural resources Management, Mizoram University, Aizawl.
  19. 2017. October 10-11. Participated by Delivering Invited Lecture on Environmental Ethics, Swachh Bharat Initiative and Sustainable Development in **National Conference on Recent Advances in Chemical Sciences Towards Green and Sustainable Environment: Swachh Bharat Abhiyan Perspective** at Aditi College, University of Delhi on 10/10/2017.
  20. 2017. June 30-July 06. Participated by (a) Deliver a Keynote Address on “Slope Vulnerability, Mass Wasting and Geo-Hazards: Investigations and Risk Analysis In Alaknanda River Basin, India” (b) Conducted Fieldwork on Geoscience in Ladoga Lake Region in at the **10th International Conference and Summer School on Geology in School and University: Earth Sciences and Civilization** organized at the Herzen State Pedagogical University of Russia, St. Petersburg, Russia.
  21. 2017. May 24. As a Resource Person participated and Co-Chaired a Panel Discussion on “Policy Making in Higher Education”, In **National Programme on Higher Education and Research: Issues and Challenges for Change in India**, jointly organized by Centre for the Study of Regional Development, School of Social Sciences-III, Jawaharlal Nehru University, New Delhi and JRN Rajasthan Vidyapeeth, University, Udaipur.
  22. April 21-22. Participated by (a) Chairing a Technical Session entitled “Governance and Institutional Arrangements” (b) Presented a Research paper entitled Maternal Health condition in Lachhigad Watershed: A Case Study (c) Environmental Sustainability, Policies, Programmes and Millennium Development Goals in Bihar in at **National Seminar on Adaptation and Implementation of Paris Agreement: National Initiatives Towards Climate Change Mission** on 21- 22 April 2017 Organized by Department of Geography, Shaheed Bhagat Singh Evening College, University of Delhi.
  23. 2017. March 03-05 Participated by (a) Chairing Technical Session entitled “Ecology Society and Development” and (b) Presented a Research paper entitled “Organic Farming and Women Health: A Case Study of Kumaun Himalaya.” In **International Conference on Politics, Society and Culture in South Asia**, Organized by Ethnographic and Folk Culture Society Lucknow at Department of Sociology, University of Lucknow.
  24. 2017. February 16-17. Participated by Co-Chairing Technical Session entitled Climate Induced Disasters in **National Workshop on Climate Change, Spatial Technology and Disaster Mitigation** and Presented a Research Paper entitled “Impact Analysis of Climatologically induced Hazards in Kullu Valley.” at Swami Shradhanand College, University of Delhi in Association with Ministry of Earth Sciences, Government of India.
  25. 2017. February 10-12. Participated by delivering a Talk on what can be said about the Future of Vulnerability and its Reduction in **International Workshop on Knowledge for Flood Disaster Risk Reduction in India**. Indian National Science Academy, New Delhi, India.

26. 2017. February 07-08. Participated by Co-Chairing Technical Session entitled Geoinformatics for Watershed Management, in **National Conference on Geoinformatics for Natural Resource Management**, at Department of Geography, Faculty of Natural Sciences, Jamia Millia Islamia, New Delhi.
27. 2017. February 03-04. Participated by presenting a Research paper entitled (a) “Analysis of Agrarian Economy for Sustainable Livelihood in Tawang –Chu River Basin, Arunachal Pradesh” and (b) by Co-Chairing Technical Session entitled “Disaster Risk and Mega Cities” in **National Conference on Making Cities Resilient: Post Habitat-III**. Department of Geography, Shaheed Bhagat Singh College, University of Delhi.
28. 2017. February 01-02. Participated by Chairing Technical Session entitled “Spatial Decision Support Systems to Promote Inclusive and Sustainable Economic Growth and Employment for all” in **International Conference on Spatial Decision Support System for United Nations Sustainable Development Goals**. Kalindi College, University of Delhi.
29. 2016. December 23-26. Participated by presenting Research Paper on Economics Appraisals of Dams: A Case Study of Bagalihar Dam, Jammu and Kashmir, India in International Seminar on “**Promoting Economic Geography Studies on Inclusive Growth in Contemporary India**” at **Graduate School of Letters, Hiroshima University, Japan**.
30. 2016. November 04. Participated by presenting Research Paper on “Role of Mountains in Cultural Diversity and Conservation”. In National Seminar on “**Sindhu Nadi Ka Udgam Aur Jalagam Kshetro Ki Bhasha Aur Sanskriti**” at Joshimath, Chamoli Garhwal, Uttarakhand.
31. 2016. August 21-25. Participated by presenting Research Paper “Extreme Events Assessment for Disaster Risk Reduction in High Altitude Region of Mountain System: A Case Study of Alaknanda River Basin Uttarakhand India,” in **33<sup>rd</sup> International Geographical Union (IGU) Congress (IGC), Geographical Society of China, Beijing, China**
32. 2016. June 30-July 06. Participated by presenting a research paper on Climate Change, Vulnerability and Geohazards in Lesser Himalaya at **Teach the Teacher” Workshop at University of Fribourg, Switzerland**. The Global Programme on Climate Change (GPCC) of the **Swiss Agency for Development and Cooperation (SDC)** and Indo-Swiss project titled Indian Himalayas Climate Adaptation Programme (IHCAP).
33. 2016. March 18-20. Participated by Chairing a Technical Session “Land Use Land Cover and Climate Change” in **9<sup>th</sup> International Geographical Union (IGU) Conference on Land Use Change, Climate Extremes and Disaster Risk Reduction**. Shaheed Bhagat Singh College, University of Delhi. March 18-20, 2016.
34. 2016. February 25-26. Participated by Chairing a Technical Session and Panel Discussions at **UGC Sponsored National Seminar on Environmental Ethics, Resource Depletion and Sustainable Development**. Department of Geography, Kalindi College, University of Delhi.
35. 2016. February 11-13. Participated by Chairing a Technical Session on “Urbanization and Environment” at **37th IIG Meet and International Conference, on the theme Land Resource Policies, Agriculture and Expanding Urban Industrial Spaces**, at Department of Geography, Kurukshetra University, Kurukshetra, Haryana.
36. 2016. January 23-24. Participated by delivering a Lecture on “Environmental Ethics as a

- tool for Natural Resources Management and Sustainable Development.” In **Two Days National Seminar on Earth as Home of Men: Crisis and Sustainability**. Department of Geography, JRN Rajasthan Vidyapeeth University, Pratap Nagar, Udaipur, Rajasthan
37. 2015. December 02-04. Participated by Chairing Technical Sessions on “Natural Resources Management” in 37th **Indian Geography Congress of the National Association of Geographers’ India (NAGI)** at Department of Geography, Jammu University. Jammu.
  38. 2015. November 05-06 Participated and Presented a research paper “Vulnerability of River Gradient, Longitudinal Profile and Embankments Role in Extent and Magnitude of Flood: A Case Study of Lower Brahmaputra River Basin, Assam, India. In **Second National Seminar on Climate Change and Socio-Ecological Transformation with Special Reference to North-East India**. At Department of Geography and Resource Management Mizoram University, Aizawl
  39. 2015. November 07-08 Participated and Presented a research paper “Climate Change, Extreme Events and Vulnerability Assessment in Himachal Himalaya, India” in **International Conference on Global Environmental Change in the Himalayan Region: Controversies/Impact /Futures. German House for Research and Innovation, Heidelberg Center, South Asia New Delhi**.
  40. 2015. October 04-08 Participated and Presented a research paper “Climate Change Adaptation and Vulnerability Assessment: A case Study of Lesser Himalaya, India” in International Conference on “Mountains of our Future Earth” Centre for Mountain Studies, Perth College, **University of the Highlands and Islands, (UHI), Crieff Road, Perth, Scotland UK**
  41. 2015. July 07-10. Participated and Presented a Research Paper **Impact Analysis of Climate Change on Glacier and Water Potentiality in High Altitude Region of Western Himalaya, India**. In International Council for Science (ICSU) Conference on **Our Common Future under Climate Change**, UNESCO Paris France. July 2015.

#### Research Projects (Major Grants/Research Collaboration)

1. **PI British Council International Collaboration:** UGC-UKIERI-III Project 2018-2020 on "(Hi Flo-DAT): Indian Himalayan Flood Database, for Disaster Risk Reduction" between University of Delhi, India and University of Bath Spa, UK.
2. PI in Research and Development Grant 2015-16, University of Delhi Project on **Cryosphere Hazard Susceptibility and Vulnerability Assessment for Livelihood Security in Mid Altitude Region of Western Himalaya**.
3. **Mentor in Innovative Research Project** on Stipulating the Role of Agriculture and Forestry in the Urban Environment: Mapping and Analysing Green Spaces of Delhi. Department of Geography and Department of Economics, Shaheed Bhagat Singh College, University of Delhi.
4. **PI in Research and Development Grant** 2014-15, University of Delhi Project on Impact of Rural Water Supply on Livelihood Security in Lower Ganga-Gomati Doab.
5. **PI in Innovative Research Project** 2013-14 on Religious Segregation in the Residential Pattern of Delhi: A Study in Causes Measurement and Consequences. University of Delhi, Shaheed Bhagat Singh Eve. College Research Unit.
6. **Research Assistant for the Canada International Development Agency**

(CIDA)–Shastri Indo-Canadian Institute (SICI) Partnership Project on Sustainable Development of Mountain Environments in India and Canada. June 1994 to June 1996.

7. **Research Assistant for the Government of India, Ministry of Agriculture** Project on Perspective Plan for Land Resources in Northwest India. March 1993 to May 1994.

#### Awards and Distinctions

1. **National Association of Geographers, India (NAGI)**, Young Geographers Award 2000, Dharwad, Karnataka, India.

#### Association With Professional Bodies

1. The Indian Science Congress Association (**ISCA**) (L-32154)
2. Founder and Member of the Executive Committee, Environmental Monitoring Society, Delhi. (**EMS**).
3. Life Member National Association of Geographers India (**NAGI**).
4. Life Member and Member of the Executive Committee, Indian Council of Geographers (**ICG**).
5. Corresponding Member, International Geographical Union (**IGU**), Commission on Evolving Issues of Geographical Marginality.
6. Corresponding Member, Commonwealth Geographical Bureau (**CGB**).
7. Life Member, Deccan Geographical Society (**DGS**).
8. Life Member and Secretary of Indian Institute of Geographers (**IIG**).
9. Life Member, Association of Geographical Studies (**AGS**).
10. Life Member, Ethnographic and Folk Culture, Society (**EFCS**)
11. Executive Member of International Geoscience Education Organization (**IGEO**)
12. Life Member of The Geographical Society of the North Eastern Hill Region, India (L - 1986)
13. Life Member, **Eastern Geographer**.

#### Other Activities

1. **Sectional Recorder, Earth System Sciences (ESS) Indian Science Congress** for 106 and 107 Sessions of Indian Science Congress (2018-19, 2019-20).
2. **Member of the Governing Council:** Institute of Indian Geographers (IIG) for the Years 2016-2019.
3. **Member of Departmental Research Committee (DRC)** Department of Geography, Delhi School of Economics, University of Delhi 2014-2016 and 2018-2020.
4. Executive External (International) **Member of the Advisory Board the Afromontane Research Unit (ARU)** Advisory Board, University of the Free State, (UFS) Qwa Qwa Campus, South Africa. Private Bag X13, Phuthaditjhaba, 9866 Republic of South Africa
5. **Reviewer:** Springer Journals GeoJournal.

Signature of Faculty Member