



PROFESSOR VINOD KUMAR SHARMA

Senior Professor, Disaster Management/ Consultant
Indian Institute of Public Administration, I. P. Estate, New Delhi-110002 (INDIA)
Visiting Professor, Kyoto University, Japan;
Adjunct Professor, Amrita University, Amritapuri, India;
Vice Chairman, Sikkim State Disaster management Authority, Gangtok, Sikkim
Member UN ISDR Asia Science, Technology and Academic Advisory Group (2015-2020)
Member, Committee for framing National Science, Technology and Innovation Policy 2020
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Receipt of Subhash Chandra Bose Aapda Prabandhan National Award 2022
Receipt of Paul Appleby Award in Public Administration 2017

Academic Qualifications:

- Ph.D. (Ecology and Environment) Banaras Hindu University, Varanasi, India (1971)
- P.G. Diploma in Resources Ecology, Banaras Hindu University, Varanasi, India (1970)
- M.Sc. (Botany) Meerut University, India (1968)
- B.Sc. (Biology/Life Sciences) Agra University, India (1966)

Specialized Trainings:

- Certificate course in Environment and Sustainable Development , University of Edinburgh, Scotland 1996 (12 weeks training in India and UK)
- Health Emergency in Large Populations (HELP) 2001, Center of Excellence, Hawaii, USA
- Training of Trainers Program on Rehabilitation and Resettlement (1994) World Bank/ASCI Hyderabad
- Direct Trainers' Skill (DTS), 1993, British Council, UK / L.B.S.N.Academy Mussoorie

Specialization:

Forest Ecology, Environment, Climate Change and Disaster Risk Reduction

WORK EXPERIENCE:

July 1992- Till Date: Sr. Professor Environment and Disaster Management (Indian Institute of Public Administration, New Delhi)

I joined Indian Institute of Public Administration in 1992 as Associate Professor of Environment and developed training modules for senior and middle level officers on Environment and Management of Natural Resources. Later, I established National Centre for Disaster Management in the institute (which is now National Institute of Disaster Management under Ministry of Home Affairs, Govt. of India). I was promoted to Professor in 1997 and later Senior Professor in 2013. I was on deputation from March 2003-October 2006 as Chief of Party for USAID funded PEER project for five Asian Countries (details given below).

I am involved in training, research, and documentation of natural disasters. I have conducted more than 150 training in the areas of Environment, Climate Change and Disaster Management and completed more than 35 research projects. I am also nodal officer for Department of Science and Technology to train their scientists from foundation courses to specific need based training to various levels of scientists working in different institutions in India. I was coordinator, Foreign Training (Nepal, Afghanistan, Myanmar, Vietnam, Maldives, Sri Lanka, Bangladesh etc.) in the institute.

May 2012-Till Date: Vice Chairman, Sikkim State Disaster Management Authority (Status of Cabinet Minister in the state)

I am responsible for making State Policy and plans; District, Block and Village level plans for Disaster Management and their implementation in the different levels. We have State public awareness and capacity building plan for the Disaster Management. The state is having school and hospital safety programme, Urban risk reduction programme, which are closely monitored by me. We have revised State Disaster Management Plan and now upgrading our District Plans. Sikkim is preparing disaster plans up to Village Panchayat level. The state is using science and technology for early warning system at most vulnerable places in the state by putting sensors. The project is being taken by Amrita University with SSDMA. We have inducted climate change adaptation in Disaster Risk Reduction in our state and District plans. Sikkim is the state working for community based Disaster Risk Reduction and working for strengthening capacities of 'Gram Panchayats' local grassroots level government.

May 2003 – October 2006: National Society for Earthquake Technology-Nepal as Chief of Party, Program for Enhancement of Emergency Response (PEER)-USAID funded programme for five Asian countries

I was heading a Program for Enhancement of Emergency Response, funded by USAID/OFDA. The project aims for capacity building of first responders during disasters in five countries viz. India Nepal, Bangladesh, Philippines and Indonesia, prone to Earthquakes and other natural and man-made disasters. The project was basically to train various stakeholders (Government and non-governmental organizations) in Collapse Structure Search and Rescue (CSSR), Medical First Responders (MFR), Training For Instructors (TFI) and Hospital Preparedness for Emergencies (HOPE) and to establish a coordinating network of emergency and medical response and training institutions and individuals in these countries that can ensure the continuation of the PEER process and further promote its evolution. The program is being implemented by National Society for Earthquake Technology in Nepal in partnership with IRG, John Hopkins University and Safety Solutions Inc. of USA.

As Chief of Party, I was responsible for the overall technical and administrative oversight of the program and ensure effective, efficient and timely implementation of all program activities. I also provided on-site management of the program, oversees day-to-day managerial and implementation duties, and makes responsible and timely decisions on behalf of the NSET team. All field- based staff, including in-country consultants, materials production and information management personnel, work under my supervision. This also includes the Deputy Chief of Party and the Lead Trainer.

As program manager I had an active role in the strategic formulation of PEER program for five

countries particularly in regard to the networking aspect and in linking PEER activities to national policies and planning. Additionally, I helped in formulate and implement strategies to promote PEER at the senior policy levels within the respective PEER countries. I coordinated the inputs and oversee the quality of the work of the three sub-contractors – IRG, Johns Hopkins and Safety Solutions and oversee arrangements for payment for the three sub-contractors and also reviewed all contract documents, consultant and sub-contractor agreements, long-term and part-time staff appointments, and any other required documents.

I ensured that PEER implemented in accordance with USAID policies and procedures, and Results Oriented Framework. The PEER trained rescuers did excellent job in the many disasters including recent earthquake in Nepal. I got letter of appreciation from Govt. of Bangladesh for rescuing many people in their building collapse in 2004.

March 1995- May 2003: Founder Coordinator National Centre for Disaster management / Professor, Disaster Management at National Centre for Disaster Management

I was instrumental in setting up the National Centre for Disaster Management in the Indian Institute of Public Administration, New Delhi, the nodal agency for disaster management in India (which is now upgraded as National Institute of Disaster Management) and was founder coordinator of the Centre. I was holding the position of Professor, Disaster Management; at the National Centre for Disaster Management since 1997. I have adequate experience of providing policy, technical and operational support to National and State Governments, Research and Training Institutions and Local, National and South Asia Regional NGO fora in the area of Environmental Management and Disaster Management.

I was member of the advisory committee for implementation of UNDP-GOI program on national capacity building for disaster management. I was also a member of the High Powered Committee set up at the behest of the Prime Minister of India for preparation of a National Disaster Management Plan for India, which is now converted into Working Group for National Committee for Disaster Management headed by Prime Minister. Member of CII National Committee on Disaster Management and Project advisory and monitoring committee for seismicity, set up by Department of Science and Technology (Govt. of India).

I have spent a major part of my career in human resource development, training, and team building in the various organizations that I have worked with. As part of institutional building I have networked with governments, voluntary organizations, private sector organizations and communities. I was visiting faculty to almost all state level disaster management cells in the country and select NGOs like CARE India, Oxfam etc as well as for few regional organizations like ADPC Bangkok.

Besides organizing more than 250 training courses for various target groups, from policy makers to grass root level NGOs in India, I have organized training programs on Disaster Management for the UNDP, Rehabilitation and resettlement for project affected people for World Bank, Environmental Epidemiology for WHO and UNEP, Planning for Disaster management(3 courses) for Asian Disaster Preparedness Center, Bangkok, Community Based Disaster Risk Management (2 Courses) for Disaster mitigation Institute, Combined Humanitarian Assistance Response training (CHART) for Center of Excellence, Hawaii, USA and collaborated in organizing training program on various aspects of disaster management with many national and international organizations.

I have also coordinated projects at community level, including the Reducing Urban Risk in India project that was supported by DFID. I play the role of advisor to the Government of India in case of any major disaster in the country and assist them as a member of Central team for damage assessment and rehabilitation. I also carried out community awareness programs with vulnerable communities in different parts of India, directly, through NGOs, and also through educational institutions including schools, colleges and Universities.

Other International/National Experience:

- Associate Professor of Ecology and Environment (1985-1990) at Garyounis University, Benghazi, Libya
- Visiting Faculty/ Assistant Professor of Ecology and Environment(1978-1982) at Sulaimaniya University and Salahadeen University, Iraq
- Consultant, Forest Productivity, Delaware State College, Dover, Delaware University,(1977 and 1978 summer) USA
- Visiting Professor, Kyoto University, Japan; February/March 2013
- Adjunct Professor, Disaster Management, Amrita University, India 2015-2017
- Member, UN ISDR Asia Scientific, Technology and Academic Advisory Group (2015-2020)
- Member, Executive Committee of SPHERE India (GO-NGO coordination body in DRR)
- Founder Chairman, SEEDS India since 1995 to 2020 (25 years). The NGO got Subhash Chandra Bose National Award for Disaster Management in 2021 and UN Sasakawa Award in 2022.
- Chairman, FICCI Committee on Disaster Management-2023

Consultancies:

- Consultant with Khadi and Village Industries commission on Human Resource Development and Livelihood issues (Ministry of Small Scale Industries, GOI).1991-1992
- Restructuring of KVIC (Ministry of Small Scale Industries, Govt. of India) 1994
- Peoples' Participation in Ganga Action Plan (Ministry of Environment and Forests, Government of India 1993
- Capacity Building of local NGOs of Orissa for Drought Mitigation (Action Aid-India)
- Lessons Learned from relief work of orissa Super Cyclone (CARE-India)
- Lessons learned from relief work of Gujarat Earthquake (CARE-India)
- Program for Enhancement of Emergency Response (Primary data collection for two states- Delhi and Maharashtra)- ADPC, Bangkok
- Training of Senior and middle level officers in Disaster Planning in India, ADPC, Bangkok
- Reducing Urban Risk, India (Technology Development and Research-TDR) in collaboration with Oxford Center for Disaster Studies and SEEDS-India, funded by DFID, UK

- Urban Risk Reduction (Knowledge and Research- KAR) in collaboration with CARE India, CARE-Nepal, DMI, Ahmedabad and SEEDS-India,
- Need Assessment for REDD (Reduced Emission from Deforestation and Forest Degradation) in India sponsored by USAID; 2009
- Incident Command System- Institutionalization Strategy in India (USAID); 2010
- Development of tools for mainstreaming Disaster Risk Reduction in Environment Sector, NIDM (Ministry of Home Affairs and UNDP); 2011
- Guidelines for Safety from Natural Disasters for Schools and other Educational Institutions, Edcil India Ltd 2012
- Impact assessment Study of the initiatives implemented under the aegis of investor education and protection fund. Sponsored by the Ministry of Corporate Affairs, Govt. of India, 2012
- Pilot Project on Capacity Building of IAS and officers of all India service officers for Disaster management by LBSNAA, Mussoorie, India 2015 (sponsored by NDMA)
- Multistate Earthquake scenario building in Himachal and Haryana and UT of Chandigarh by IIT Mumbai, Sponsored by NDMA, New Delhi (2015)
- Evaluation of 'Research on Soil Piping in the high lands and foot hills of Kerala to avoid disaster. Sponsored by NDMA, New Delhi (2015)
- Evaluation of 'Preparation of Upgraded Earthquake Hazard Maps' , sponsored by NDMA, New Delhi (2015)
- Evaluation of Pilot project on 'Capacity Building on Disaster management of Government officials, representatives of Panchayati Raj Institutions and Urban local bodies in the areas of Disaster prevention, preparedness, mitigation, response and recovery. Sponsored by NDMA, New Delhi (2015)
- Evaluation of Pilot project on 'Advance Trauma Life Support Project at J P N Apex Trauma Centre AIIMS, New Delhi, India , sponsored by NDMA, New Delhi (2015)
- Impact assessment of M 8.7 Shillong 1897 Earthquake Scenario: NE Multistate Preparedness Campaign Project , NDMA, New Delhi (2016)
- Strengthening and Restructuring of Central Pollution Control Board, Sponsored by CPCB, MoEF, Govt. of India (2017)
- Assessing Capacities and Training Need Analysis for Biodiversity Conservation in selected districts of Sikkim, sponsored by UNDP & MoEF&CC , 2018-2020
- Capacity Building Strategies for managing complex disasters in the face of climate change. Sponsored by MoEF&CC, Govt. of India (2017-2020)
- Climate Smart Governance. Sponsored by Department of Science and Technology, Govt. of India (2017-2020)
- Blended Capacity Building Programme for different stakeholders of Ganga, sponsored by Ministry of Jal-Shakti (GOI), National Mission for Clean Ganga (2020-2023)

Countries Working Experience:

India, Nepal, Bangladesh, Philippines, Indonesia, Sri Lanka, Iraq, Libya and USA

Publications and Research:

I guided seven Ph.D. and several M.Sc. research projects and published 18 books and more than 75 research papers (40 in disaster management). I guided more than 50 M.Phil. Thesis in Environment and DRR. I completed six case studies. List of important publications is attached.

PUBLICATIONS IN THE AREA OF DISASTER MANAGEMENT

Books:

- Proceedings, Symposium on Advancement of Ecology, 1979;
- Progress of Ecology Vol. 3 & 4 Today & Tomorrow Publications, New Delhi, India;
- Disaster Management (1994) (Proceedings of UNDP workshop of Natural Disaster Management) Published by UNDP/Indian Institute of Public Administration, New Delhi. (Reprinted in 1995-1997-1999-2001)
- Disaster Management (2016) Scientific Int. New Delhi
- Culture of Prevention, IIPA, New Delhi, 1999
- Cyclones in Andhra Pradesh (Oxfam, Hivos and IT, 2000)
- India : IDNDR and Beyond (IIPA, New Delhi, 2000)
- Manual on Natural Disaster Management (IIPA, New Delhi, 2001)
- Orissa Super Cyclone, 1999 (IIPA, New Delhi, 2001)
- Drought of Gujarat (IIPA, New Delhi, 2001)
- Drought of Rajasthan (IIPA, New Delhi, 2001)
- Gujarat Earthquake (IIPA, New Delhi, 2002)
- Sustainable Rural Development for Disaster Mitigation (Concept Publishers, New Delhi, 2004)
- Global Warming-Its impact on India (Indian Institute of Public Administration Publication) 2008
- Disaster Risk and Impact Management-Some Ecological and Strategic issues by Anil K. Gupta, Sreeja Nair and V.K. Sharma, Daya Publishing House (A Division of Astral Int. Pvt.Ltd) 2018
- Shyamli Singh, Aashish Jain and V. K. Sharma : Solid Waste Management – Compendium of Case Studies. Concept Publishing Delhi, 2018
- Helen James, Rajib Shaw, Vinod Sharma and Anna Lukasiewicz : Disaster Risk Reduction in Asia Pacific : Governance, Education and Capacity. Palgrave Macmillan 2022

Research Papers:

1. Sharma, V.K., (1996) Natural Disaster Mitigation and Government interventions An over view. INCODIM -96 In Role of Universities in Natural Disaster Reduction at Anna University. Madras. P.C1-6.
2. Sharma, V.K., (1996) Natural Disaster preparedness, mitigation and reduction: Efforts in India during IDNDR. In Disasters, Environment and Development (ed.R.B.Singh) Oxford & IBH, New Delhi p. 93-104.
3. Sharma, V.K. and Amir Ali Khan (1996) Earthquake Disaster - Management and Administrative issues. Symp. on Earthquake effects on structures, plant & Machinery. ISET Delhi Chapter: IX - 5.1 -5.12.
4. Sharma, V.K., (1996) Environmental conservation and sustainable development, a case of

- NCT of Delhi. 'National capital Territory of Delhi' Land marks in Delhi administration Post Independence era (1947-1997) (ed. S.C. Vajpeyi and S.P. Verma) Gyan Publishing House, p.296-311.
5. Sharma, V.K., A. Sharma, A. Bagley, M. Jain and M. Gupta (1997) Risk in Cities - A case of Delhi and an outline Risk Assessment Methodology. Jour. Ind. Buildings Congress 4 (1): 164 - 169.
 6. Sharma, V. K., (1997) Natural disaster Administration in India. In Governing India. Public Policy, Institutions and Administration. (ed. O.P. Dwivedi *et.al*) B.R. Publishing Corp. Delhi. P. 303-342.
 7. Sharma, V.K., (1997) Functioning of disaster management organization and methodology to cope with disasters in India. Indo-US Seminar on disaster relief, New Delhi, p.1-12.
 8. Sharma, V.K., (1997) Strengthening Vulnerable Communities for Natural Disaster Reduction. Workshop on 'Understanding Vulnerability: A South Asian Perspective (Aug. 21-22, 1997) Colombo, Sri Lanka.
 9. Sharma, V. K., (1997) Earthquake Disaster Mitigation and Preparedness in India. Workshop on Earthquake Disaster Preparedness, University of Roorkee (Oct. 13-14, 1997). pp.89-96.
 10. Sharma, V. K., (1997) Natural Disaster Management in India. IJPA, Vol. XLIII (3) p. 764-774.
 11. Sharma, V. K., (1997) National Policy and Planning for Emergency Response in India. International - Disaster and Emergency Response (IDER) Conference, Hague, The Netherlands. (Oct. 7-9, 1997) (Paper selected for special presentation in the opening session).
 12. Sharma, V. K., (1997) Roles and Responsibilities of Health Sector in Disaster Situation In India. Medico Friend Circle Bulletin, OXFAM (India) ,July – August. p. 7-8.
 13. Sharma, V.K., Gupta, M. and Sharma A. (1997) Science and Technology in Disaster Risk Reduction. International Conference on Habitat, Institution of Engineers (India), New Delhi.
 14. Sharma. V.K., (1997) Preparedness for Natural Disasters in Urban Areas. Golden Jubilee Conference on Natural Hazards in Urban Habitat, New Delhi, Nov 10-11, 1997.
 15. Sharma, V.K., Gupta, M., Sharma, A. (1997) Environmental Considerations in Urban Development. Nagarlok, Vol. XXIX April-June 1997: (2). p. 63-68.
 16. Sharma, V.K. and Amir Ali Khan (2000) Post Earthquake reconstruction and rehabilitation in Jabalpur. XI Symposium on Earthquake Engineering organized ISET at Roorkee University, Roorkee (17-19, Dec. 1998) p. 132-142.
 17. Sharma, V.K., (1998) Comparative Analysis of Andhra Cyclones of 1977 and 1996, UN IDNDR Conference on Early Warning Systems, Potsdam, Germany.
 18. Sharma, V.K., (1999) Use of GIS related technologies for managing disasters in India : An overview. [GIS@Development](#). May-June Vol. III (3): p.26-30.
 19. Sharma, V.K. (1999) Status of preparedness planning in India for disaster mitigation, *Shelter*, Special issue- World Disaster Mitigation Day, October 13, 1999, A HUDCO-HSMI publication, pp.13-15
 20. Sharma, V.K., (2000) Scope of Business Partnerships towards Disaster Management in India, Conference on Building a Disaster Resistant Asia – Managing for 21st Century, April 2-5, 2000. (Organized by U.S., T.D.A. at Honolulu, Hawaii, U.S.A.).
 21. Gupta, M.C., Sharma, V.K., (2000) Orissa Super Cyclone: Administrative Issues, Conference of Relief Commissioners, Pune, India, May 2000. p. 4-20 (Mimeo).
 22. Sharma V.K. & Amir Ali Khan (2000) Orissa (India) Super Cyclone: Impact and Emergency Management. Proceedings International Millennium Conference on Village Infrastructure to cope with Environmental Hazards, Dhaka (Nov. 24-25, 2000) p. 135-149.

23. Sharma V.K. (2001) Institutional set-up and disaster response mechanism in India. Seminar on Earthquake in Built Environment (May 24-26, 2001) Journal of Indian Buildings Congress Vol. 8 (1): p. 290-299.
24. Sharma V.K. (2001) Food availability & vulnerability to Natural Disasters (workshop on “towards hunger free India” organized by planning commission, Govt. of India)
25. Sharma, Vinod K. & Tanu Priya (2001) Development strategies for flood prone areas: case study Patna, India, Disaster Prevention and Management ; An International Journal : Vol. 10, No. 2, p. 101-109.
26. Sharma, Vinod K. (2001) Managing disaster in the new millennium. In Disaster Mitigation, experiences and reflections (ed. Pradeep Sahni et.al.), Prentice-Hall, India p.15-21.
27. Sharma, Vinod K. (2001) Disaster Management in India – Past Experiences, Seminar on Disaster Mitigation Strategy in India, organized by Fire Engineer, New Delhi. Vol. 26 No. 3A Special Issue Sept. 2001, p. 11-26.
28. Sharma, Vinod K. (2003) Disaster Management-Approach and Emerging Strategies in India. Vision : The Journal of Business Prospective, January-June 2003, pp 135-144
29. Sharma, V.K. (2004) National policies relating to disaster care. Disaster Mental Health in India (ed. Dr. Rashmi Lakshminarayana, Dr. R. Srinivasa Murty and Dr Joseph O. Prewith Diaz) page 70-81
30. Dixit, Amod M., Vinod K Sharma and Damodar Adhikari (2004) Program for Enhancement of Emergency Response(PEER) : An initiative towards self-sufficiency in responding to large scale disaster in Asia. World Congress on Natural disaster Mitigation, New Delhi , Feb 19-22, 2004 (Vol 2) page 413-419.
31. Sharma, V.K. (2004) Disaster Management Strategies in India In ‘Coping with Natural Hazards: Indian Context (ed. K.S Valdiya) Orient Longman, p 250-256.
32. Sharma, V.K. (2004) Psychological Support within Disaster management Plan International (India) Newsletter :4 (4) 7-8
33. Sharma, V.K. (2005) Capacity Building in Emergency Response in five Asian Countries. DMISA Conference, South Africa.
34. Sharma, V.K. (2006) Linking development with disaster reduction-A case of Surat Floods 2006. First India Disaster management Congress, Vigyan Bhawan, New Delhi November, 2006
35. Sharma, V.K. (2006) Program for Enhancement of Emergency Response (PEER)- an initiative of USAID in six Asian countries. First India Disaster management Congress, Vigyan Bhawan, New Delhi November, 2006
36. Sharma, V.K. (2007) Recent developments in disaster management in India. Lessons from Natural Disasters: International roundtable on Policy issues and mitigation strategies, organized by Centre for Science & Technology of the Non – aligned and other developing countries, New Delhi and Centre for Disaster Mitigation and Management (CDMM), Vellore Institute of Technology, Vellore, India (January 8-12, 2007).
37. Sharma, V.K. (2008) India’s planned national approach for Disaster Risk Reduction. South Asia Disaster Reduction Report, Duryog Nivaran, Sri Lanka
38. Sharma, V.K. (2008) Drought Risk Management, South Asia Disaster Reduction Report, Duryog Nivaran, Sri Lanka
39. Sharma, V.K. (2008) Global Warming-Its impact on India, theme paper of Annual General Body Meeting of Indian Institute of Public Administration. Indian Institute of Public Administration Publication, New Delhi

40. Sharma, V. K. (2009) Climate Change Adaptation-Governance Issues, 'Governance for Climate Security Business Innovation, social change and National Security (ed. Lt. Gen. J. S. Ahluwalia) pp. 272-283
41. Sharma, V. K. and Kaushik, A. D. (2009) Natural Disaster Management-An Overview. World Focus, 371-378.
42. Sharma, V.K.(2010) Disaster Management in India- New Initiatives. Paper presented in EROPA Seminar at Kathmandu, Nepal: 21-25 Nov. 2010.(Indian Institute of Public Administration Publication)
43. Anil K Gupta, Sreeja Nair and Vinod K Sharma (2011) Environmental Knowledge for Management of Hydro-meteorological disasters. In Environmental Knowledge for Disaster Risk Reduction, pp 106-117.
44. Kaushik, A D and Vinod K Sharma (2012) Flood Management in India, Ind Jour of Public Administration Vol LVIII (1) : 119-136.
45. Shyamli Singh, V.K. Sharma, Usha Muju Munshi, (2014) "Ganga Gyan Dhara – A knowledge Repository: Connecting the Dots and Filling the Data Gaps", International Conference on Data Sharing and Integration for Global Sustainability, New Delhi (SciDataCon2014)
46. Shyamli Singh and Vinod K. Sharma (2015) "Status of Tannery Effluent in Ganga River basin", published in Water and Energy International, vol. 58, No. 7 Oct 2015 pp. 47-52 (ISSN: 0972057X)
47. Shyamli Singh, Ishupinder Kaur and V. K. Sharma (2017) "Rainfall trend analysis over past 100 years (1915-2015) in Delhi" Presented at 3rd International Conference on Environment Management 2015 at Jawaharlal Nehru Technological University, Hyderabad, 27-29 November, 2017
48. Shyamli Singh, Mutup Tashi, Prof .Vinod K. Sharma (2018) Forest Fire vulnerability in the face of Climate Change: A case study of eastern Himalayan region, Sikkim, India, 7TH January, 2018, CHSED, Dehradun
49. Sharma, V.K. (2018) Building Back Better: Focus on resilience and participation. In Science and Technology in Disaster Risk Reduction in Asia, 395-408, Elsevier Inc.
50. Sharma V. K. and Shyamli Singh (2019) Urban Drought in India: Case study of Delhi published in Urban Drought: Emerging Water Challenges in Asia; Ed. Ray, B, Shaw, Rajib, Springer 2019 (ISBN: 978-981- 10-8947-3)
51. Shyamli Singh and V. K. Sharma (2020) A review of Solid Waste management and Swot Analysis in Ganga Basin, Trends in Biosciences Journal Volume 13 Issue 17, September 2020
52. Sharma V. K. and Shyamli Singh (2021) V.K., Challenges in Disaster Management in Hill Areas: A study of Sikkim, The Journal of Governance, IC Center for Governance, New Delhi, Vol 22, pp 248—268, January 2021
53. Shyamli Singh and V. K. Sharma (2021), Is climate change a Real-time situation Case studies on water bodies in India, Know Disaster magazine, November -December 2021, New Media Communication Pvt. Ltd
54. Rajib Shaw, Helen James, Vinod Sharma and Anna Lukasiewicz (2022) Disaster Risk Reduction and Resilience : Practice and Challenges in Asia Pacific: In Disaster Risk Reduction in Asia Pacific : Governance, Education and Capacity, Palgrave Macmillan Publication pp. 1-18
55. Sharma, V. K. (2022) Use of Scientific Knowledge and Public Participation in Disaster Risk Reduction in the state of Sikkim, India, In Disaster Risk Reduction in Asia Pacific : Governance, Education and Capacity, Palgrave Macmillan Publication pp. 271-290

56. Sharma, V. K. Rajib Shaw, Helen James and Anna Lukasiewicz (2022), Towards a Resilient Asia Pacific Region, In Disaster Risk Reduction in Asia Pacific: Governance, Education and Capacity, Palgrave Macmillan Publication pp. 369-377.