Curriculum vitae

Name Dr Vikram Gupta

Areas of Specialization

Engineering Geology, Applied Geology, Geomorphology, Natural Hazards, Landslides, Disaster Management.

Academic Qualifications

Sr No	Degree	Subjects	Institution	Year	Division
1	B.Sc. (Hons School) in Geology	Geology (Major), Physics, Chemistry	Panjab University, Chandigarh	1987	First
2	M.Sc. (Hons School) in Geology	Geology	Panjab University, Chandigarh	1988	First
3	M.Phil. (Geology)	Geology	Panjab University, Chandigarh	1989	First with Distinction
4	Certificate Course in French language	French	University of Fribourg, Fribourg, Switzerland	1996	
5	Ph. D.	Geology	HNB Garhwal University, Srinagar -Working full time at Wadia Institute of Himalayan Geology (WIHG), Dehra Dun	1998	
6	PG Diploma in Aseismic Design and Construction (CADAC)	Seismic Hazards	University of St Cyril, Mehodius, Skopje, Republic of Macedonia	2004	
7	PG Dip. in Disaster Management & Risk Analysis (CERG)	Disaster Management	University of Geneva, Geneva, Switzerland	2005	

Employment Chronology

Position	Place	Period	
		From	To
Geologist	Nathpa Jakhri Joint Venture, Kotla - Himachal Pradesh, **India**	May 2, 1995	May 20, 1996
Boursier / Post-Doctoral Fellow	Ecole Polytechnique Federale de Lausanne (EPFL), **Switzerland**	Oct. 7, 1996	Sept. 11, 1998
Post-Doctoral Fellow	University of the Western Cape, Cape Town, **South Africa**	Sept. 1998	Oct. 2000
Assistant Professor	Fatih University, Istanbul, **Turkey**	Nov. 1, 2000	Feb. 15, 2003
Scientist 'C'	Wadia Institute of Himalayan Geology, Dehra Dun (Uttarakhand)	Feb. 24, 2003	Feb. 23, 2008
Scientist 'D' and Technical Secretary to the Director (TS w.e.f.26.11.2011)	-do-	Feb. 24, 2008	June 15, 2013
Scientist 'E' and Technical Secretary to the Director	-do-	June 16, 2013	June 15, 2018
Scientist 'F' and Technical Secretary to the Director (TS till 03.09.2021)	-do-	June 16, 2018	Till date

Research Indicators:-

Book (edited jointly)	: 01	***Annexure I***
Research Publications	: 71	***Annexure I***
Technical Reports	: > 35	***Annexure II***
Ph.Ds. Guided	: 06 (Awarded) : 06 (Perusing)	***Annexure III***
International Collaboration:	: 01 (continuing) : 01 (completed)	***Annexure IV***
Externally funded Research Projects	:	***Annexure V***
Members Important External Committees	:	***Annexure VI***
Invited Lectures Delivered	: > 56	***Annexure VII***

LIST OF PUBLICATIONS

Books One (edited) Natural Hazards (Eds: OP Varma, AK Mahajan and Vikram Gupta), Special Publication of Indian Geological Congress, 307 pp.

Research Publications

1. Gupta V, Kumar S, Kaur R and Tandon RS. (2021), Regional Scale Landslide Susceptibility Assessment for the hilly state of Uttarakhand, NW Himalaya, India. Journal of Earth System Science (accepted)
2. Devi M., Gupta V, Solanki A., and Sarkar K (2021) Assessment of Slope instability using Kinematic analysis and Finite Element Modelling in the Main Central Thrust zone, Bhagirathi Valley, NW Himalaya. Himalayan Geology, (accepted)
3. Sandeep Kumar and Vikram Gupta (2021) Evaluation of spatial probability of landslides using bivariate and multivariate approaches in the Goriganga valley, Kumaun Himalaya, India, Natural Hazards DOI: 10.1007/s11069-021-04928-x
4. Chauhan, G.S., Nainwal, HC. And Gupta, V. (2021) Geological and geotechnical studies of landslides located near Ichhari Dam Reservoir on Tons valley, Uttarakhand Himalaya. Himalayan Geology, 42(2), 372-381
5. Gupta V., Paul, A., Kumar S., and Dash B. (2021) Spatial distribution of Landslides vis-à-vis epicentral distribution of Earthquakes in the vicinity of Main Central Thrust (MCT) zone, Uttarakhand Himalaya, India - Current Science 201 (12), 1927-1932. (IF 0.756) doi: 10.18520/cs/v120/i12/1927-1932 (IF 0.756)
6. Vipin Kumar, Imlirenla Jamir, Vikram Gupta, Rajinder K. Bhasin (2021) Inferring potential landslide damming using slope stability, geomorphic constraints and run-out analysis; case study from the NW Himalaya - Earth Surface Dynamics, 9, 351-377 (IF 3.928) https://doi.org/10.5194/esurf-9-351-2021, https://esurf.copernicus.org/articles/9/351/2021/
7. Pratap Ram and Vikram Gupta (2021- Published online) Landslide Hazard, Vulnerability and Risk Assessment (HVRA), Mussoorie township, Lesser Himalaya, India - Environment, Development and Sustainability, https://doi.org/10.1007/s10668-021-01449-2 (IF 2.191)
8. Sandeep Kumar, Vikram Gupta, Parveen Kumar and YP Sundriyal (2021 – Published online) Coseismic landslide hazard assessment for the future scenario earthquakes in the Kumaun Himalaya, India. Bull. of Engineering Geology and Environment https://doi.org/10.1007/s10064-021-02267-6 (IF 3.041)
9. Penna I., Hermanns, R., Nicolet, P., Morken, OA., Dehls, J., Gupta, V., and Jaboyedoff M. (2021) Airblasts caused by large slope collapses. GSA Bulletin, 133 (5-6), 939-948 https://doi.org/10.1130/B35531.1. (IF. 3.558)
10. Ramola, N., Sundriyal, YP., Puniya, MK., Gupta V. (2021) Large scale mapping and to assess active and potential landslide zones between Sonprayag to Kedarnath using geomorphic and kinematic analysis method. Himalayan Geology, 42 (1), 163-174

11. Tandon, RS., Gupta V and Venkateshwarlu B., (March 2021) Geological, Geotechnical, and GPR investigations along the Mansa Devi hill-bypass (MDHB) Road, Uttarakhand, India. Landslides, 18, 849-863. (IF 4.708) https://doi.org/10.1007/s10346-020-01546-9
12. Bhasin, R., Shabanimashcool, M., Hermanns, R.L., Morken, O.A., Dehls, J.F., Gupta, V. (2020) Back Analysis of Shear Strength Parameters of a Large Rock Slide in Sikkim Himalaya, Journal of Rock Mechanics and Tunnelling Technology (JRMTT) 26 (2) 2020 pp 81-92
13. Ram P., Gupta, V., Devi, M., and Vishwakarma, N. (2020) Landslide susceptibility mapping using Bivariate Statistical method for the hilly township of Mussoorie and its surrounding areas, Uttarakhand Himalaya, Journal of Earth System Science, 129 167 (IF. 1.104) https://doi.org/10.1007/s12040-020-01428-7
14. Sain, K., Sharma, R., Kumar, S., Dobhal, DP. Gupta, V., Srivastava, P., Perumal RJG and Lokho, K. 2020 Research status at Wadia Institute of Himalayan Geology (WIHG), Dehradun during 2015-2019, In D.M. Banerjee & Sunil Bajpai (Ed.), Proc: INSA, 2015-2019, 86(1), 721-745. (IF 0.681)
15. Jamir, I., Gupta, V., Thong, G.T. and Kumar, V., (2020). Litho-tectonic and precipitation implications on landslides, Yamuna valley, NW Himalaya. Physical Geography, 41(4), 365-388. (IF. 1.183)
16. Solanki A., Gupta, V., Bhakuni S.S., Ram P., & Joshi, M. (2019) Geological and geotechnical characterization of the Khotila landslide in Dharchula Region, NE Kumaun Himalaya. Journal of Earth System Science, 128:86 (IF 1.104) https://doi.org/10.1007/s12040-019-1106-9
17. Kumar V., Gupta V, and Sundriyal Y.P. (2019) Spatial interrelationship of landslides, litho-tectonic, and climate regime, Satluj valley, Northwest Himalaya. Geological Journal 54(1), 537-551 (IF 1.949) https://doi.org/10.1002/gj.3204
18. Kumar, V., Gupta V. Jamir, I. & Chattoraj S.L. (March 2019) Evaluation of Potential Landslide Damming; Case study of Urni landslide, Kinnaur, Satluj valley, India. Geoscience Frontiers, 10(2), 753-767 (4.410) https://doi.org/10.1016/j.gsf.2018.05.004
19. Kumar V., Gupta, V. and Jamir I. (2018) Hazard Evaluation of Progressive Pawari Landslide Zone, Satluj Valley, Higher Himalaya, India. Natural Hazards 93 (2), 1029-1047 (IF 2.319) https://doi.org/10.1007/s11069-018-3339-3
20. Jamir I., Gupta V., Kumar V. and Thong, G.T (2018) Evaluation of Potential Surface Instability in Kharsali Village, Yamuna Valley, NW Himalaya. Journal of Mountain Science, 14(8), 1666-1676 (IF 1.135)
21. Chauhan, G.S., Nainwal H.C., Vikram Gupta 2017. Stability analysis of rock cut slopes along the Minas road between Ichhari Dam and Minas Bridge, Tons valley, Garhwal Himalaya. Himalayan Geology, 39(1), 68-84
22. Gupta, V., Jamir, I., Kumar, V., and Devi, M., 2017 Geomechanical characterisation of slopes for assessing rockfall hazards between Janki Chatti and Yamunotri Temple, Yamuna valley, Higher Himalaya, India Himalayan Geology, 38(2), 156-170
23. Vikram Gupta, Tandon R.S., Venkateshwarlu, B., Bhasin, R.K., and Kaynia A.M., (2017) Accelerated mass movement activities due to increased rainfall in the Nainital township, Kumaun Lesser Himalaya, India. Zeitschrift fur Geomorphologies, 61 (1), 29-42. (IF .987) DOI : 10.1127/zfg/2017/0445

24. Monika Wadhawan, Devajit Hazarika, Arpita Paul, Naresh Kumar, S.S. Thakur, Vikram Gupta (2017) Crustal thickness and Poisson's ratio variation in the Satluj valley, Northwest Himalaya. Himalayan Geology, 38(1), 38-48

25. Vikram Gupta, Rajinder Bhasin, A.M. Kaynia, Vipin Kumar, A.S. Saini, R.S. Tandon, Thomas Pabst (2016) Finite Element Analysis of failed slope by Shear Strength Reduction technique: a case study for Surabhi Resort Landslide, Mussoorie township, Garhwal Himalaya. Geomatics, Natural Hazards and Risk, 7(5), 1677-1690. (IF 2.332)

26. Vikram Gupta, Hemlata Nautiyal, Vipin Kumar, Imlirenla Jamir and Ruchika S. Tandon (2016) Landslide hazards around Uttarkashi township, Garhwal Himalaya after the tragic flash flood in June 2013. Natural Hazards, 80 (3), 1689-1707.

27. Vikram Gupta, Rajinder Bhasin, Amir Kaynia, Ruchika Sharma Tandon and B. Venkateshwarlu (2016) Landslide Hazard in the Nainital township, Kumaun Himalaya, India - the case of Sept 2014 Balia Nala landslide. Natural Hazards, 80 (2), 863–877.

28. Ruchika Sharma Tandon, Vikram Gupta and Kaushik Sen (2015) Seismic properties of naturally deformed quartzites of the Alaknanda valley, Garhwal Himalaya, India. Journal of Earth System Science, 124 (6), 1159-1175

29. Ruchika Sharma Tandon and Vikram Gupta (2015) Estimation of strength characteristics of different Himalayan rocks from Schmidt hammer rebound, point load index and compressional wave velocity. Bull. of Engineering Geology and Environment, 74(2), 521-533, DOI 10.1007/s10064-014-0629-1 (IF 2.138)

30. Vikram Gupta and Ruchika Sharma (2015) Kinematic Rockfall Hazard Assessment along a Transportation Corridor in the Upper Alaknanda valley, Garhwal Himalaya, India, Bull of Engineering Geology and Environment, 74 (2), 315–326, DOI: 10.1007/s10064-014-0623-7

31. Vikram Gupta, A.K. Mahajan and V.C. Thakur (2015) A study on landslides triggered during Sikkim Earthquake of September 18, 2011. Himalayan Geology, 36 (1), 81-90

32. Vikram Gupta, S.C. Vaideswaran and D.P. Dobhal (2014) Colonization delay of *Rhizocarpon georaphicum*: Study from the Gangotri Glacier, Northwestern Himalaya, Geol. Soc. of India, 84 (3), 335 – 340 (IF 0.994)

33. Gupta, Vikram, Asthana, A.K.L. and Mazari, R.K. (2013) Slope instability and risk assessment of the Mansa Devi Hills near Haridwar Township, Uttarakhand. International Journal of Fundamental & Applied Research, ISSN-2320-7973 Vol.-1 Issue-1 pp 37-47.

34. Saini J.S., Maheshwari B.K. and Gupta Vikram (2013), "Effect of Joint Strength Parameters on Stability of Rock Slopes", Proc. of Indian Geotechnical Conference (IGC-2013) held at IIT Roorkee, during 22 -24 December 2013

35. Vikram Gupta, D.P. Dobhal and S.C. Vaideswaran (2013) August 2012 cloudburst and subsequent flash flood in the Asi Ganga, a tributary of the Bhagirathi river, Garhwal Himalaya, India, Current Science, 105(2), 249-253 (IF 0.756)

36. Ruchika Sharma and Vikram Gupta (2013) The control of mineral constituents and textural characteristics on the Petrophysical & Mechanical (PM) properties of different rocks of the Himalaya. Engineering Geology, 153, 125-143 (IF 3.909)

37. Vikram Gupta and Ruchika Sharma (2012) Relationship between textural, petrophysical and mechanical properties of quartzites: a case study from northwestern Himalaya. Engineering Geology, 135-136, 1-9

38. A.K. Mahajan, Vikram Gupta and V.C. Thakur (2012) Macroseismic Field Observations of September 18th 2011 Sikkim Earthquake, Natural Hazards, 63, 589-603. DOI. DOI 10.1007/s11069-012-0170-0

39. VC Thakur, A.K. Mahajan and Vikram Gupta (2012) Seismotectonics of 18 September 2011 Sikkim earthquake: a component of transcurrent deformation in eastern Himalaya. Himalayan Geology, 33(2), 89-96

40. Vikram Gupta, R.K. Mazari and Piyoosh Rautela (2011) Engineering Geological Characterization of a landslide on the slope of Mansa Devi Hill near Haridwar, Uttarakhand: In Slope Stability (Natural and Man made) Eds: T.N. Singh and Y.C. Sharma, Publishers Vayu Education of India, New Delhi. pp. 282 - 297

41. Ruchika Sharma, Vikram Gupta, B.R. Arora and K. Sen (2011) Petrophysical Properties of the Himalayan Granitoids: Implication on Composition and Source. Tectonophysics 497, 23-33. DOI:10.1016/j.tecto.2010.10.016 (IF 2.764)

42. Vikram Gupta, Ruchika Sharma and M.P. Sah (2011) Surface weathering of gneiss, northwestern higher Himalaya, India. Quarterly Journal of Engineering Geology and Hydrogeology, 44, 135-140. DOI 10.1144/1470-9236/09-064

43. G. Philip, N. Suresh, S.S. Bhakuni, and Vikram Gupta **(**2011**)** Palaeoseismic Investigation of Nalagarh Thrust: Evidence of Holocene and mid Late Pleistocene Earthquakes in Pinjaur Dun, Northwestern Sub Himalaya, India. Jour of Asian Earth Sciences 40 (5), 1056-1067 DOI: 10.1016/j.jseaes.2010.11.012

44. Gupta, V (2011) Anthropogenic activity, climate change and landslides in the northwestern Himalaya, Geohazards: Challenges and Solutions, (Eds. Mohan S Panwar et al.), Research India Press, New Delhi, 345-359

45. Vikram Gupta & M.P. Sah (2010) Field Assessment of Surface Hardness of Rocks using Schmidt Hammer as a Function of Elevation: Study form Satluj Valley, Northwestern Higher Himalaya, India International Journal of Geotechnics and Environment, 2(2), 171-179.

46. Vikram Gupta (2010) Landslides and Climate Change: Case Study from Satluj Valley, Northwestern Himalaya, India, Disaster and Development, 4(1), 131-144. (Journal of the National Institute of Disaster Management, New Delhi)

47. B.R. Arora, Vikram Gupta, Ruchika Sharma and Koushik Sen (January 2010) Petrophysical Properties of the Himalayan Granitoids: Bridging Geophysical Anomalies to Crustal Composition Model. DST's Deep Continental Studies in India Newsletter, 20(1), 8-13.

48. Sen, K., Sharma, R., Arora B.R. and Vikram Gupta (2010) Influence of magnetic fabric anisotropy on seismic wave velocity in paramagnetic granites from NW Himalaya: results from preliminary investigations. Journal Geological Society of India, 76, 322 – 330. DOI: 0016-7622/2010-76-4-322

49. Shipra Choudhry, Vikram Gupta and Y. P. Sundriyal (2010) Surface and Sub-Surface Characterization of the Byung Landslide in Mandakini Valley, Garhwal Himalaya, Himalayan Geology, 31 (2), 125 – 132.

50. Vikram Gupta and R.K. Mazari (2010) Slope Stability study of the proposed Madhyamaheshwar Small Hydropower Project (MSHP), District Rudraprayag, Uttarakhand. Indian Landslides, 3 (1), 17-24.

51. Vikram Gupta, Ruchika Sharma and M. P. Sah (2009) An evaluation of surface hardness of natural and modified rocks using Schmidt hammer: Study from Northwestern Himalaya, India. Geografiska Annaler, 91A(3), 179-188. DOI 10.1111/j.1468-0459.2009.00362
52. Vikram Gupta (2009) Non-destructive testing of some Higher Himalayan Rocks in the Satluj Valley. Bull Engineering Geology and the Environment, 68, 409-416 DOI 10.1007/s10064-009-0211-4
53. Vikram Gupta (2009) Evaluation of landslides in the Satluj valley, Northwestern Higher Himalaya, India, Journal Indian Geological Congress,1(1), 20-29.
54. Vikram Gupta and M. P. Sah (2008) Impact of the Trans-Himalayan Landslide Lake Outburst Flood (LLOF) in the Satluj Catchment, Himachal Pradesh, India. Natural Hazards, 45, 379-390. DOI 10.1007/s11069-007-9174-6
55. Vikram Gupta and M. P. Sah (2008) Formation and breaching of landslide dams and related aspects: Documented examples from the Himalaya. In *Landslide Management : Present Scenario and Future Directions* (edited by A. Ghosh, S. Sarkar and D.P. Kanungo), NIDM Publisher, New Delhi, pp. 77-86
56. Vikram Gupta and M.P. Sah (2008) The Relationship between Main Central Thrust (MCT) and the Spatial Distribution of Mass Movement in the Satluj Valley, Northwestern Higher Himalaya, India, Zeitschrift fur Geomorphologie, 52 (2), 169-179. DOI 10.1127/0372-8854/2008/0052-0169
57. Vikram Gupta and M.P.Sah (2008) Spatial Variability of mass movements in the Satluj Valley, Himachal Pradesh during 1990 – 2006, Journal of Mountain Science, Springer publication, 5(1), 38-51. DOI 10.1007/s11629-008-0038-7 (IF 0.963)
58. Vikram Gupta and Iqrar Ahmed (2007) The effect of pH of water and mineralogical properties on the slake durability (degradability) of different rocks from the Lesser Himalaya, India, Engineering Geology, 95, 79-87.
59. Vikram Gupta, K. S. Bist, Bhagwat Sharma and A. K. L. Asthana (2007) Varunavat Landslide in the Bhagirathi Valley, Garhwal Himalaya: Its Causes and Risk assessment In: Natural Hazards (Eds: OP Varma, AK Mahajan and Vikram Gupta), Special Publication of Indian Geological Congress, 97-111
60. Vikram Gupta and Iqrar Ahmad (2007) Geotechnical characteristics of Surabhi Resort Landslide in Mussourie, Garhwal Himalaya, India, Himalayan Geology, 28(2), 21-32
61. Vikram Gupta (2006) Landslide Hazard Zonation Mapping in the Himalaya: A case study from Satluj Valley, Himachal Pradesh, Environmental Geo-Hazards: Science and Society, (Eds Sharma, K.K., Bandooni, S.K. and Negi, V.S.), Research India Press, New Delhi, pp. 102-116
62. Vikram Gupta (2005) Application of Lichenometry to Slided materials in the Higher Himalayan Landslide zone: A case study, Current Science 89 (6), pp 1032-1036
63. Vikram Gupta (2005) The relationship between tectonic stresses, joint patterns and landslides in the higher Indian Himalaya, Journal of Nepal Geological Society, 31, 51-58
64. Vikram Gupta and K. S. Bist (2004) The 23 September 2003 Varunavat Parvat landslide in the Uttarkashi Township, Uttaranchal, Current Science 87(11), pp. 1600 – 1605

65. Vikram Gupta (2003) Thrust controlled anthropogenically triggered landslide: An example from Baspa valley, Higher Himalaya, India, Bull Indian Geologists' Associations Vol. 36 (1&2), pp. 47-52
66. Vikram Gupta (2001) Geomorphological control of landslide activity in the Du Toit's Kloof area, Western Cape, South Africa, South African Geographical Journal, 83(3), pp.258-263. (IF 0.923)
67. Vikram Gupta, Surya Parkash and N. S. Virdi (2001) Morphometric analysis of active landslides in the higher Himalayan crystallines, India. Himalayan Geology, 22 (2), pp. 99 – 107
68. Vikram Gupta and Virdi, N. S. (2000) On the connection between landslides and nickpoints along the Satluj River course, Higher Himalaya, India. Zeitschrift fur Geomorphologie, 122, pp 141 – 148.
69. B. Kumar, N. S. Virdi, M. P. Sah, S. K. Bartarya & Vikram Gupta (1994) Landslide Hazard Zonation between Rampur and Wangtu, H. P. India. Proc. of the Geological Survey of India, pp. 324 – 326.
70. Vikram Gupta, S. K. Bartarya N. S. Virdi & M. P. Sah, (1994) Climatic Zones viz. a viz. landslides activity along the Satluj valley in the Higher and Lesser Himalayas of Himachal Pradesh. Jour. Indian Soc. of Remote Sensing (ISRS), pp. 80 – 86.
71. Vikram Gupta, M. P. Sah, N. S. Virdi & S. K. Bartarya (1993) Landslide Hazard Zonation in the Upper Satluj Valley, District Kinnaur, Himachal Pradesh. Journal of Himalayan Geology, Vol.4 (1), pp. 81 – 91.

Technical Reports / Consultancy

Sr No	Authors	Years	Title	Submitted to -
1	Vikram Gupta and others Member Expert Committee	2017	Carrying capacity of the Shimla townhip, Himachal Pradesh	Hon'ble National Green Tribunal (NGT), New Delhi
2	Vikram Gupta and others Member Expert Committee	2017	Carrying capacity of the Shimla townhip, Himachal Pradesh"	Hon'ble National Green Tribunal (NGT), New Delhi
3	Vikram Gupta and others Member Expert Committee	2016	Recommendations of the construction activities between Kedernath and Rambara region	Department of Disaster Management, Government of Uttarakhand
4	Vikram Gupta, S.S. Bhakuni and B. Venkateshwarlu)	August 2016	GPR Study and the Engineering Geological Mapping of the Jakhri Landslide, Satluj Valley, Himachal Pradesh,	Central Scientific and Instruments Organization (CSIO), Chandigarh,
5	Vikram Gupta and others Member Expert Committee		An Interim Draft Report on the feasibility of allowing construction in the Green Areas of Shimla	Hon'ble National Green Tribunal (NGT), New Delhi
6	Vikram Gupta and others (Member of Expert Team)	2015	Landslide Assessment and Technical support to Nepal after the Napal Earthquake	National Disaster Management Authority (NDMA), New Delhi.
7	Vikram Gupta and others Member - Joint Expert Committee		Collateral damages on the selected rim area villages due to the filling and drawdown of the Tehri Reservoir	THDC, New Tehri
8	Vikram Gupta	2017	Final Report on the "International Symposium on Tackling the Challenge of Slope Stabilization and Landslide Prevention"	World Bank published by the GoUK
9	Vikram Gupta	Oct 2014	Pre-Feasibility study for the construction of Tunnels at Shinkhun La, Baralacha La, Tanglang La and Lachung La Report A: Shinkhun La	Border Road Organization (BRO)
10	Vikram Gupta and others Member - Joint Expert Committee	Sept 2014	Report on collateral damages In villages namely Kangsali, Chanti, Ghandyalki, Motana, Siyansu due to the Tehri reservoir & shops near zero bridge & village Mehar due to Koteshwar reservoir	THDC, New Tehri
11	Vikram Gupta and others Member -Joint Expert Committee	2014,	Report on the Collateral damages on the selected Rim area villages due to the Tehri	THDC, New Tehri

			Dam reservoir	
12	Rawat BS and Vikram Gupta	March 2014	Preliminary Geological - Geotechnical site investigation report for the area around Jharipani Toll, Mussoorie, Dehra Dun	MDDA, Dehra Dun
13	Vikram Gupta and others Member - Joint Expert Committee		Collateral damages on the selected Rim area villages due to the Koteshwar reservoir	THDC, New Tehri
14	Rawat BS and Vikram Gupta	May 2013	Preliminary Geological – Geotechnical site investigation report for Dhakpatti, Rajpur, Dehra Dun,	MDDA, Dehradun
15	S.K. Bartarya and Vikram Gupta	Januar2013	Mass movement activities affecting Vasant Vihar Colony and Sports Stadium in Gopeshwar township, district Chamoli, Uttarakhand	PWD, GoUK
16	Rohtash Kumar, S.K. Ghosh and Vikram Gupta	January 2011	Geological report on Mapping of the Kolodyne Stage II, HEP – (4 x 115 MW), Distt. Lawngtlai, Mizoram	NTPC, Noida
17	M.P. Sah and Vikram Gupta	September 2010	Landslide investigation on Tachla – Naur Motor Marg (NH-94, Km stone-39), Tehri district, Garhwal Uttarakhand	PWD, GoUK
18	Vikram Gupta	February 2010	Project Completion Report - Rock Properties Laboratory - A National Facility	Department of Science and Technology, Govt. of India
19	M.P. Sah, Vikram Gupta and Ajay Pal	November 2009	Development of cracks in Tarsali and adjoining villages during excavation of Phata-Byung HEP, Rudraprayag district, Uttarakhand	District Magistrate, GoUK
20	M.P. Sah and Vikram Gupta	August 2009	Geological feasibility report on parking sites in the Mussoorie township, district Dehra Dun, Uttarakhand,	Mussoorie Dehradun Development Authority (MDDA), Dehradun
21	Vikram Gupta and A.K.L. Asthana	March 2009	Geological report on a part of the Lakhsyari – Ludhera – Kyari - Kachta Motor Marg and the Rani Gaon Link Road district Dehra Dun, Uttarakhand submitted to PWD, Sahiya (Kalsi)	PWD, GoUK

22	Vikram Gupta and A.K.L. Asthana	December 2008	Report on the Kangsali and Vallambitta Landslides on Motna - Madan Negi Motor Marg, New Tehri, Uttarakhand submitted to PWD, New Tehri, Borari	PWD, GoUK
23	R.K. Mazari, K.S. Bist and Vikram Gupta	August 2008	Geological Investigation of open channel section of Madhyamaheshwar Small Hydro Project, District Rudraprayag, Uttarakhand.	Uttarakhand Jal Vidyu Nigan Ltd. (UJVNL), Dehra Dun
24	M.P.Sah and Vikram Gupta	August 2008	Geological Feasibility of a Site for the proposed residential house at Chaman Estate, Mussoorie	Mussoorie Dehradun Development Authority (MDDA), Dehradun
25	M.P.Sah and Vikram Gupta	July 2008	Geological Feasibility of Rambara Hydroelectric Project (RHEP), Wadia Institute of Himalayan Geology Technical report	Department of Energy, GoUK, Dehra dun
26	N.S. Virdi and Vikram Gupta	January 2008	Excursion Guide 'Hydel Projects in the Yamuna and Tons valleys, Dehra Dun'	Publication of the Panjab University, Chandigarh,
27	R.K. Mazari,, M.P. Sah and Vikram Gupta	May 2007	Report on the relative slope stability in Mussoorie Muncipal Area, District Dehra Dun,	Mussoorie Dehra Dun Development Authority (MDDA) Dehra Dun
28	M. P. Sah and Vikram Gupta	July 2007	Geological Feasibility of a Site for the proposed residential house at Radha Bhawan Estate, New Circular Road, Mussoorie	Mussoorie Dehra Dun Development Authority (MDDA) Dehra Dun
29	M. P. Sah and Vikram Gupta	July 2007	Geological Feasibility of a Site for the proposed residential house at Radha Bhawan Estate, New Circular Road, Mussoorie	Mussoorie Dehra Dun Development Authority (MDDA) Dehra Dun
30	Vikram Gupta and S.S. Bhakuni	July 2007	Stabilization of cut slope at 132 kV Sub-Station, Satpuli (Pauri Garhwal),	Uttarakhand Power Transmission Corporation, Dehra Dun
31	M. P. Sah and Vikram Gupta	March 2007	Geological Feasibility of a Site for the proposed residential house at Radha Bhawan Estate, New Circular Road, Mussoorie	Mussoorie Dehra Dun Development Authority (MDDA) Dehra Dun
32	M. P. Sah and Vikram Gupta	March 2007	Geological Feasibility of a Site for the proposed residential house at Radha Bhawan Estate, New Circular Road, Mussoorie	Mussoorie Dehra Dun Development Authority (MDDA) Dehra Dun

33	M. P. Sah and Vikram Gupta	2006	Report on the Chronic Landslides in Karanprayag and its Environs	PWD Karanprayag, District Chamoli, Uttaranchal, 12 pages and 8 figures.
34	Vikram Gupta and M. P. Sah	2006	Geological Feasibility Report for the proposed Himalayan Yoga Meditation Center at Srinagar Estate Mussoorie.	
35	M. P. Sah and Vikram Gupta	2006	Geological Feasibility Report for the extension of Takle Road in the premises of the Indira Gandhi National Forest Academy (IGNFA), Dehra Dun,	Indira Gandhi National Forest Academy (IGNFA), Dehra Dun

Ph.D. theses supervised

Awarded

Sr No	Name	Supervisors	Title of thesis	University	Status	Present Position
1	**Ruchika Sharma**	Vikram Gupta (WIHG), Prof. YP Sundriyal (HNB Garhwal University), Srinagar	An integrated study of physical, mechanical and acoustic properties of rocks of the Bhagirathi and Alaknanda valleys and their inter-relationship	H.N.B. Garhwal University, Srinagar	Awarded 2012	Asst Professor, Graphic Era Hill University, Dehradun
2	**Monika Wadhawan**	Devajit Hazarika (WIHG), Vikram Gupta (WIHG) and Mandira Agarwal (UPES)	Shear wave velocity and Crustal structure along Satluj valley, Northwest Himalaya	University of Petroleum and Energy Studies (UPES), Dehradun	Awarded 2018	Scientist, National Center for Seismology, (MoES), New Delhi
3	**Vipin Kumar**	Vikram Gupta (WIHG), Prof. YP Sundriyal (HNB Garhwal University), Srinagar	Landslide susceptibility Zonation and slope stability analyses between mooring and Rampur, Satluj valley, Himachal Pradesh	H.N.B. Garhwal University, Srinagar	Awarded 2019	Post Doc Fellow, Leige University, Belgium
4	**Imlirenla Jamir**	Vikram Gupta (WIHG), Prof G.T. Thong (Nagaland University, Kohima)	Slope stability analyses in part of the Yamuna valley, Garhwal Himalaya	Nagaland University, Kohima	Awarded 2019	Scientist, National Geophy Res. Inst. (NGRI), Hyderabad
5	**GS Chauhan**	Prof. HC Nainwal (HNB GU) and Vikram Gupta (WIHG)	Study of Landslides between Ichhari Dam Site and Atal along Tons River Valley, Uttarakhand Himalaya	H.N.B. Garhwal University, Srinagar	Awarded 2020	
6	**Ms Neeraj Ramola**	Prof. YP Sundriral (HNB GU) and Vikram Gupta	Large scale Engineering Geological & Geotechnical mapping of Kali Ganga and Mandakini valley	H.N.B. Garhwal University, Srinagar	Awarded 2020	

Continuing

1. Ms Meenakshi Devi jointly with K Sarkar (IIT ISM Dhanbad)
2. Sh Pratap Ram jointly with jointly Neeraj Vishwakarma (NIT Raipur)
3. Sh Ambar Solanki jointly with M Joshi (BHU Varanasi)
4. Sh Sandeep Kumar jointly with Prof. YP Sundriyal (HNB GU, Srinagar)
5. Ms Ramandeep Kaur jointly with BS Choudhury (Kurukshetra University, Kurukshetra)
6. Mohd Shawej

Annexure IV

International Collaboration

Sr No	Collaborators	Project	Status
1	Dr Reginald L. Hermanns and Dr John F. Dehls) Geological Survey of Norway (NGU) - Trondheim Dr R.K. Bhasin Norwegian Geotechnical Institute-(NGI) - Oslo Prof. Aniruddha Sengupta Indian Institute of Technology - Kharagpur Dr Vikram Gupta Wadia Institute of Himalayan Geology - Dehradun	Landslide hazard assessment in NE India along the Gangtok-Tsomgo/Changu Lake and Gangtok-Chungthang-Lachen corridors	Continuing
2	Dr Dominik Lang (NORSAR Norway) Dr. Amir M. Kaynia (NGI Norway) Dr. Rajinder K. Bhasin (NGI Norway) Prof. B.K. Maheshwari (IIT Roorkee Dr. Vikram Gupta (WIHG Dehardun)	Earthquake Hazard and Risk Reduction on the Indian Subcontinent (Chapter on Mass Movement)	Completed

Annexure V

Externally Funded (Extra Murals) Projects

Sr No	Title of the Projects	Role and Duration	Funding from and amount	Status
1	Rock Properties Laboratory – A National Facility	Co-PI 07.04.2005 – 31.01.2009	DST ~ 17 Lakh	Completed
2	Earthquake hazard and risk reduction in the Indian subcontinent (RRISC)	Coordinator 19.04.2012 – 18.04.2017	Govt of Norway ~ 50 Lakhs	Completed
3	Damage assessment mapping of Yamunotri valley with special reference to extreme rainfall events of the June 2013, Uttarakhand	Coordinator 26/09/2013 – 31/12/2014	DST 25 Lakhs	Completed
4	Damage assessment mapping of Bhagirathi valley with special reference to extreme rainfall events of the June 2013, Uttarakhand	Member 26/09/2013 – 31/12/2014	DST 25 Lakhs	Completed
5	Geotechnical characterization of soil / rocks with special reference to active landslides in the Mandakini valley, Garhwal Himalaya	PI 23/04/2015 – 22/04/2017	DST ~21 Lakhs	Completed
6	Status of geo-resources and impact assessment of geological (exogenic) processes in NW Himalayan Ecosystem under National Mission for Sustaining the Himalayan Ecosystem (NMSHE) -	Co-PI 03/06/2016 – 02/06/2021	DST > 10 Crore	Completed
7	Landslide Hazard Assessment in NE India along the Gangtok-Tsomgo / Changu Lake and Gangtok – Chungthang – Lachen Corridor	Co-PI 24/05/2017 – 23/05/2021 - on extension	MoES >1 Crore	Continuing

Members External Committees (Important only)

Role	Committee	Purpose
Member	High Power Committee	Constituted by the Supreme Court of India to look into the Environmental degradation due to the Char Dhan Yatra Project - continuing
Member	Expert Committee	Constituted by the Ministry of Environment, Forest and Climate Change to formulate the guidelines for muck disposal in hilly areas of Uttrakhand and Himachal Pradesh - continuing
Member	Expert Committee	Constituted by the Hon'ble National Green Tribunal (NGT) to understand the carrying Capacity and construction related activities in Shimla
Member	Special Expert Committee	Constituted by the Hon'ble National Green Tribunal (NGT) regarding construction related activities in Kasauli
Member	Oversight Committee	Constituted by Hon'ble National Green Tribunal (NGT)
Member	Committee of Experts	Constituted by Hon'ble National Green Tribunal (NGT) to advise Amarnath Shrine Board on environmental degradation
Member	Working Committee of Experts	Constituted by National Disaster Management Authority (NDMA), New Delhi for the upgradation of landslide hazard map of India
Member	School Board of Earth Sciences	Constituted by Hon'ble Vice Chancellor, HNB Garhwal University, Srinagar

Invited Lectures delivered

Sr No	Date	Title	Venue
1	24.08.2021	Landslide Hazard in the present day changing climatic scenario in the Himalaya	(Webinar) - Indian Academy of Highway Engineering, Noida
2	21.08.2021	Career opportunities in Geosciences	(Webinar) - Graphic Era Hill University, Dehradun
3	23.03.2021	Landslide hazard assessment in NE India – Sikkim Himalaya along the Gangtok-Tsomgo/Changu Lake and Gangtok-Chungthang-Lachen corridors	(Webinar) -
4	18.12.2020	Landslide Hazards Assessment and Mitigation' in the training program on Training Program on 'Landslides Risks Reduction and Resilience'	(Webinar) - National Institute of Disaster Management, New Delhi
5	10.12.2020	Landslide Hazards:-Landslide Disaster Risk Reduction (L-DRR) Strategy and Impact of climate change in the Himalaya	(Webinar) - Kurukshetra University, Kurukshetra (Refresher Course on 'Earth System Sciences for Mitigating Disaster and climate Change')
6	20.11.2020	Landslides in the Himalaya and impact of climate change in the International Webinar on 'Natural Hazard and Management'	(Webinar) - Bundelkhand University, Jhansi, Institute of Geology, Petrozavodsk, Russia and Govt Degree College Almora.
7	09.11.2020	Recent Examples of Landslides in the Himalaya and impact on climate change in the	(Webinar) - National Institute of Disaster Management, New Delhi on 'Climate Resilient Development with special reference to Landslide'
8	09.10.2020	Landslide Disaster Risk Reduction (L-DRR) Strategy: Some fundamental concepts	(Webinar) - Wadia Institute of Himalayan Geology, Dehradun - 'Himalayan Day'
9	24.06.2020	Landslides research – the recent trends	(Webinar) - Wadia Institute of Himalayan Geology, Dehradun - National Geo-Research Scholars Meet
10	12.06.2019	'An overview of landslide hazards in the Himalaya'	NGU Trondheim, Norway

11	21.11.2019	Landslides: the Indian scenarios Invited Lectures in the Satellite Seminar on "Western Ghat and Dam Management"	National Centre for Earth System Sciences (NCESS), Thiruvananthapuram, Kerala
12	27.09.2019	Landslide vis-à-vis Climate Change in the Himalaya Invited Lectures CAP-RES-22 Int Symposium on Disaster Resilience and Green Growth for Sustainable Development	National Institute of Disaster Management, New Delhi
13	09.08.2019	Landslide Hazards and their mitigation measures in the Himalaya	Indian Academy of Highway Engineering (IAHE), Noida
14	10.01.2019	Landslide hazards in the Garhwal Himalaya" Invited Lectures	National Centre for Earth System Sciences (NCESS), Thiruvananthapuram, Kerala
15	31.01.2019	Landslide Hazards in the Himalaya and its possible mitigation measures"	Indian Academy of Highway Engineering (IAHE), Noida
16	24.09.2018	'An overview of landslides in the Garhwal Himalaya' in a seminar "use of technology for reducing landslide induced losses" Invited Lectures	Disaster Mitigation and Management Centre (DMMC), Dehradun, Govt of Uttarakhand.
17	17.01.2018	Series of lectures on the various aspects of landslides and mass movement in the Himalaya	Indian Academy of Highway Engineering (IAHE), Noida
18	05.01.2018	Series of lectures on the various aspects of landslides and mass movement in the Himalaya	Indian Academy of Highway Engineering (IAHE), Noida
19	29.12.2017	Mineral constituents of different rocks" to the probationers of Indian Forest Services	Indira Gandhi Forest National Academy (IGFNA), Dehradun
20	27.12.2017	The mighty Himalaya: source of natural resources and disasters" - to the probationers of Indian Forest Services	Indira Gandhi Forest National Academy (IGFNA), Dehradun
21	26.10.2017	Various aspects of Landslide hazards in the Himalayan terrain" - to the delegates of joint Indian Academy of Highway Engineers (IAHE) Noida and Japan International Cooperation Agency (JICA), Japan	Wadia Institute of Himalayan Geology (WIHG), Dehradun
22	28.04.2016	Landslide problems in the North-western Himalaya" - Kick off meeting of the of the Indo-Norwegian Project on Hazard Assessment in the Garhwal Himalaya	National Geotechnical Facility, Dehradun

23	12.03.2016	Series of lectures on the "Various Geotechnical issues and Engineering Geology"	University of Petroleum of Energy Studies (UPES), Dehra Dun.
24	02.12.2015	"Landslide Hazard scenarios in the hilly township of Mussoorie and Nainital, Uttarakhand Himalaya "	India Habitat Center, New Delhi
25	03.07.2015	General hazard scenario in the Indian Himalaya" - Scientific exchange workshop on Vulnerability, Risk and Hazards and adaptation: Indian Himalayan region	New Delhi.
26	18.06.2015	(i) Landslide and various Geotechnical issues in the Himalaya and (ii) Geotechnical issues for landslide mitigation in the Himalaya to the officers of the Geological Survey of India (GSI)	NGF, Dehra Dun.
27	29.04.2015	Towards establishing rainfall threshold for the Uttarakhand Himalaya" - International symposium on "Tackling the challenge of slope stabilization and Landslide Prevention"	Civil Service Institute, Dehra Dun
28	24.04.2015	'Surabhi Landslide - revisited' Indo-Norwegian bilateral Project Meeting	NGF Dehra Dun.
29	17.12.2014	Series of lectures on rock mechanics and landslide studies in the Himalaya	University of Petroleum of Energy Studies (UPES), Dehra Dun
30	10.12.2014	Geological and geomorphological set up along with associated hazards of the Uttarakhand Himalaya	Office Sena Nayak SDRF Vahini, Haridwar
31	09.12.2014	Mitigation of landslide hazards in India" -Indo-Norwegian Joint Committee on Science and Technology "DST-NGI (ICG) Institutional co-operation program.	Wadia Institute of Himalayan Geology (WIHG), Dehradun
32	03.12.2014	Landslide disasters in the Himalayan region with special reference to the 2013 Uttarakhand disaster" - Regional meeting under Asian Programme for Regional Capacity enhancement for landslide impact mitigation (RECLAIM) at Bangkok, Thailand	ADPC, Bangkok, Thailand
33	10.11.2014	Geotechnical properties of rocks and soil vis-à-vis landslides" - Geotechnical Orientation Programme (Indian Society of Engineering Geology, the National Group of the International Association of Engineering Geology and	National Geotechnical Facility, Dehra Dun

		Environment (IAEG))	
34	19.09.2014	Application of Engineering Geology for tunnelling - for the Senior level Officers of the Border Road Organization	Wadia Institute of Himalayan Geology (WIHG), Dehradun
35	08.07.2014	Landslide factors, causes and their management in the Himalaya" - training programme on "Forestry in Landslide Risk Management" at	Forest Research Institute (FRI), Dehra Dun
36	07.06.2014	Landslide Hazards and related issues in Uttarakhand Himalaya" - Conference on Indian Building Code	Forest Research Institute (FRI), Dehra Dun
37	30.04.2014	Slope Stabilization using facilities developed at National Geotechnical Facility" - for the officials of the GoUK, Dehra Dun	National Geotechnical Facility, Dehra Dun
38	16.12.2013	Geological Disaster in the Himalayan regions and their mitigation	Oil and Natural gas Commissions (ONGC), Dehradun
39	17.09.2013	Various Engineering Geological issues in the Himalayan terrain	National Security Council (NSC), New Delhi
40	18.10.2012	Landslides as a primary and secondary hazards in the Himalaya	WIHG, Dehradun
41	22.06.2012	Landslides in Highway of Uttarakhand- Char dham Yatra route	Uttarakhand Academy of Administration, Nainital
42	30.03.2012	Natural Disasters in the Himalaya	Aligarh Muslim University, Aligarh
43	19.02.2011	Landslides and related disasters in Uttarakhand	Headquarter of Uttaranchal sub area Dehradun
44	27.07.2010	Landslides and their management in the Himalaya	Lal Bahadur Sashtri National Academy of Administration (LBSNA), Mussoorie
45	25.06.2008	Landslide and mitigative measures	Administrative Training Institute (ATI), Nainital
46	19.12.2007	Landslide hazards in the Satluj valley	National institute of Disaster Management (NIDM), New Delhi
47	12.12.2007	Parent material and rock types	Indira Gandhi national Forest Academy (IFNFA), Dehradun
48	22.09.2007	Application of Remote Sensing and GIS	Administrative Training Institute (ATI), Nainital
49	10.08.2007	Natural Disasters with special reference to landslides and their management in the	Lal Bahadur Sashtri National Academy of

		Himalayan terrain	Administration (LBSNA), Mussoorie
50	10.06.2007	Development activities in the Himalayan terrain vis-à-vis natural disaster	Institutions of Engineers, Dehradun
51	13.12.2006	Natural Hazards and their management in the Himalaya	ITBP, Dehradun
52	25.05.2006	Natural and man-made disasters in the Himalaya	Kendriya Vidyalaya, FRI Dehradun
53	05.07.2005	Natural Hazards and their management in the Himalaya	ITBP, Mussoorie
54	19.05.2005	Natural Hazards with particular reference to Uttaranchal	WIHG, Dehradun
55	10.10.2004	Natural Hazards with special reference to landslides in the Himalayan terrain	Ins of earthquale Eng. St Cyril, Rep of Macedonia
56	15.06.2004	Landslide hazards in the Himalayan terrains	Kendriya Vidyalaya Birpur, Dehradun