

Curriculum vitae

M. L. Sharma

Professor, Department of Earthquake Engineering, IIT Roorkee,
Roorkee – 247667, India



Personal Data

Name: M. L. Sharma
Born: Dec. 09, 1962, Uttar Pradesh, India
Nationality: Indian
Address: Department of Earthquake Engineering, IIT Roorkee,
Roorkee – 247667, India
Professional affiliation: Professor, Department of Earthquake Engineering
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Education

1992 Ph.D., in Earthquake Engineering, University of Roorkee, India
1985 M. Tech., in Applied Geophysics, , University of Roorkee, India
1982 Bachelor of Science from Meerut University, India

Employment Record

Since 01 Jan, 2018	Professor HAG, Department of Earthquake Engineering, Indian Institute of Technology Roorkee, India
08 May, 2008-31 Dec, 2017	Professor, Department of Earthquake Engineering, Indian Institute of Technology Roorkee, India
28 Sep, 2004 – 8 May, 2008	Associate Professor, Department of Earthquake Engineering, Indian Institute of Technology Roorkee, India
09 April, 1996 – 28 Sep, 2004	Assistant Professor, Department of Earthquake Engineering, Indian Institute of Technology Roorkee, India
26 June, 1986 – 09 April, 1996	Lecturer, Department of Earthquake Engineering, Indian Institute of Technology Roorkee, India
27 Dec, 1985-26 June, 1986	Scientist B, Department of Earthquake Engineering – University of Roorkee, India

Research Interests

Engineering Seismology, Seismic Microzonation, Seismic Hazard Assessment, Strong Ground Motion

Prediction

Languages

Hindi – mother tongue, English – fluent.

Fellow of Professional Bodies

- **FISSET** : Fellow of Indian Society of Earthquake Technology, F-45
- **FIGS** : Fellow of Indian Geotechnical Society, F-501
- **FIGU** : Fellow of Indian Geophysical Union, Hyderabad, F-232

Life member of Professional Bodies

- **Life Member** : Indian Society of Earthquake Technology, LM-386
- **Life member** : Indian Society of Engineering Geology, LM-1426
- **Life Member** : Association of Exploration Geophysicists, Hyderabad-M1022-88
- **Life Member** : American Geophysical Union, USA, M-821600

Annual member of Professional Bodies

- **Member** : Seismological Society of America, USA
- **Member** : Earthquake Engineering Research Institute, USA

Administrative-Technical responsibilities (out side IITR)

- **Chairman**, Soil Dynamics Forum, (2018 – continued)
- **Program Advisor**, SAADRI (permanent position)
- **President**, SAADRI Society (2023-continued)
- **President** : Indian Society of Earthquake Technology Roorkee (2017-2019)
- **President** : Indian Society of Earthquake Technology Roorkee (2015-2017)
- **Vice President** : Indian Society of Earthquake Technology, Roorkee (2013-2015)
- **Vice President** : Indian Society of Earthquake Technology, Roorkee (2011-2013)
- **Secretary** : Roorkee Chapter, Indian Society of Earthquake Technology,(1999-2014)
- **Associate Editor** : ISET Journal of Indian Society of Earthquake Technology, (2007-2009, 2009-2011, 2011-2013, 2013-2015, 2015-2017)
- **Member**: International Editorial Review Board, International Journal of Geotechnical Earthquake Engineering (IJGEE), DOI: 10.4018/IJGEE, ISSN: 1947-8488, EISSN: 1947-8496 , 2012-2016

Administrative-Technical responsibilities (within IITR)

- **Head, International Centre of Excellence for Dams**, (May 01, 2024 – continued)
- **Joint Faculty, International Centre of Excellence for Dams**, (October 12, 2023-April 30, 2024)
- **Dean, Finance and Planning**, August 2019 – June 2023

- **Chairman**, Institute Space Management Committee, (Sept 20, 2022 to Dec 12, 2022)
- **Chairman**, Institute Website Management Committee, (Sept 20, 2022 to Dec 12, 2022)
- **Chairman**, Information Dissemination Committee, (Sept 20, 2022 to Dec 12, 2022)
- **Chairman**, Ranking Analytics Committee, (Sept 20, 2022 to Dec 12, 2022)
- **Chairman**, Commercial Establishments Committee, (Sept 20, 2022 to Dec 12, 2022)
- **Chairman**, Guest House Advisory Committee, (Sept 20, 2022 to Dec 12, 2022)
- **Chairman**, Security Advisory Committee, (Sept 20, 2022 to Dec 12, 2022)
- **Chairman**, ICC Advisory Committee, (Sept 20, 2022 to Dec 12, 2022)
- **Chairman**, Greater Noida Campus, (Sept 20, 2022 to Dec 12, 2022)
- **I-STEM representative**, Department of Earthquake Engineering, 2019-onwards
- **Head of the Department**, Department of Earthquake Engineering, IIT Roorkee (2012-16)
- **Organising Chairman**, Joint Entrance Examination (Advanced), IIT Roorkee, 2019
- **Chief Advisor Sports** (*Organised Inter IIT in 2012*): Sports Association, IIT Roorkee (2010-2013)
- **Chairman**, Joint Entrance Examination (Advanced), IIT Roorkee, 2018
- **Chairman**, Joint Entrance Examination (Advanced), IIT Roorkee, 2017
- **Convenor**, Adhoc committee on management of Sri Saraswati Mandir, IIT Roorkee 2016-17
- **Vice Chairman**, Joint Entrance Examination 2010-11, IIT Roorkee
- **Vice Chairman**, Joint Entrance Examination 2011-12, IIT Roorkee
- **Sports advisor**, Gym, Sports Association, IIT Roorkee (2010-2013)
- **Sports advisor**, Squash, Sports Association, IIT Roorkee (2010-2013)
- **Warden**, Govind Bhawan, University of Roorkee (2001-2004)
- **Warden**, Ravindra Bhawan, University of Roorkee (1998-2001)

Chairing Sessions

1. Engineering Geology conference, IIT Delhi, 2015, IGS from gopal dhawan
2. Indian Geophysical Union, Kurukshetra, 2014-15 from dinesh

International visits

Sl. No.	Dates	Institute and country	Purpose
1.	May 25-June 10, 2024	Oslo and Bergen, Norway	Norway for the collaboration project NATRISK
2.	December 11-16, 2023	San Francisco, California, USA	AGU2023
3.	November 16-23, 2023	Fukuoka, Japan	2 nd International Conference on Construction Resources for Environmentally Sustainable Technologies (CREST2023).
4.	Nov. 16-19, 2023	South Korea	Kyung Hee University, South Korea

5.	July 08-12, 2023	Reftek Inc, Canada	Instrumentation and MOU meeting
6.	April 24-30, 2023	Vienna, Austria	EGU Conference
7.	March 25-30, 2023	Taiwan	Attended future prospects of Earthquake at Taiwan
8.	Dec 12-16, 2022	Chicago, USA	Attended AGU
9.	May 29-June 06, 2022	Denever, USA	Attended NAFSA, Denver
10.	March 20-27, 2022	Germany	Visited universities and institutes under COPREPARE, Potsdam
11.	Sept 29-Oct 10, 2019	Israel	Seismic AI
12.	Jan 04-12, 2018	Taiwan	Project work for Taiwan Project
13.	Jan 09-14, 2017	Santiago, Chile	Presented a paper on STOCHASTIC SIMULATION OF STRONG GROUND MOTIONS FOR WESTERN HIMALAYA REGION by Neha Kumari, M. L. Sharma and I. D. Gupta at 16WCEE Attended Executive committee meeting of International Association of Earthquake Engineering as National Delegate from India in Santiago, Chile
14.	March12-18, 2016	NCREC, Taiwan	Seismic hazard assessment of nuclear power plants, Observer to Level 3 SHA
15.	Jan 23-30, 2016	NCREC, Taiwan	MoES research project
16.	Sept 20-22, 2015	Nepal	To attend and chair a session in seminar on "Seismic Evaluation and Retrofitting on pre & post-Earthquake", organized by Nepal Engineers Associates (NEA) and ociety of Consulting Architectural and Engineering Firms (SCAEF), September 21, 2015, Kathmandu, Nepal.
17.	Aug. 02-09, 2015	Singapore	12th Annual Meeting on AOGS
18.	Janu. 27-31 , 2015	Taipai, Taiwan	Research Project Work (NCREC)
19.	Sept 28- Oct 04, 2014	NTU, Singapore	Academic/Project discussion
20.	March 08-10, 2014	Taipai	Project work for Taiwan Project
21.	March 10-16, 2014	Singapore	Project discussions
22.	Sept. 24- 28 , 2012	Lisbon, Portugal	Presentation of papers in 15 World Coneference on Earthquake

			Engineering, Lisbon, Portugal
23.	July 08- 14, 2012	St. Petersburg Moscow Russia	Part of the delegation for collaboration for Indo-Russian scientific exchange programme.
24.	May 27- June 06, 2012	Norway	Project work
25.	08-10-2010 to 08-04-2011	Mexico	MoES research project work with UNAM
26.	22-10-2010 to 20-11-2010	Schengener-Staaten	
27.	07-06-2009 to 20-06-2009	Schengener-Staaten	
28.	24-12-2008	China	Presentation of papers in 14 World Conference on Earthquake Engineering, Beijing, China
29.	20-09-2007 to 30-09-2007	Schengen- statene	
30.	10-10-2006 to 16-10-2006	Taiwan	To present paper in 4th Int. Conf. Earthquake Engineering, Taipei, Taiwan
31.	12-06-05 to 18-06-2005	Norway	Research Project work at NORSAR and NGI, Norway
32.	06-06-05 to 11-06-2005	Switzerland	To check the strong ground motion instruments at GEISIG, Switzerland
33.	12-12-2004 to 05-01-2005	Schengen- statene	
34.	09-12-2004 to 09-06-2005	U.K.	Project work
35.	July 29-August 12, 2004	Canada	Presentation of papers in 13 World Conference on Earthquake Engineering, Vancouver, British Columbia, Canada
36.	Oct-1988	U.K.	Earth Data Ltd for Telemetry equipment to be deployed under DST project in Garhwal region
37.	Sept-Oct, 1989	Potsdam, Germany	One month UNESCO course on seismology and seismic hazard assessment in Potsdam

Major Sponsored Projects

Number of major sponsored projects : 24

Number of sponsored projects as PI : 11

Number of sponsored projects as PI in last Five years as PI : 06

1. Development of Indiginions Earthquake Early Warning System, **(PI)**, IMPRINT2, SERB, DST, 2019-2022, New Delhi 1.20 Crores
2. Earthquake Early Warning System, **(PI)**, Uttarakhand Government, **2017-2019**, (Rs. 3.20 Crores)
3. Seismological Network Around Tehri Region **(PI)**, THDC India Ltd., Rishikesh, **2016-2019**, (Rs. 285.5 Lacs)
4. Strong Motion Network Around Tehri Region **(PI)**, THDC India Ltd., Rishikesh, **2016-2019**, (Rs. 43.7 Lacs)
5. Operation and Strong motion Accelerograph in Tehri and Koteswar, THDC India Ltd., Rishikesh, **2015-2016**, (Rs. 30.91 Lacs)
6. Seismological Network Around Tehri Region **(PI)**, THDC India Ltd., Rishikesh, **2013-2016**, (Rs. 287.72 Lacs)
7. Probabilistic seismic hazard assessment and estimation of strong ground motion for Delhi region (PI), EREC, New Delhi, **2011-2013**, (Rs. 5.70 Lacs)
8. Shear Wave Velocity profiling in NCT, Delhi using MASW technique **(PI)**, EREC New Delhi, **2009-2011**, (Rs.50.00 Lacs)
9. Application of DIF-SAR to investigate critical deformation regimes in Garhwal Kumaon Himalaya related to earthquakes and landslide **(PI)**, DST New Delhi, **1997-1999**, (Rs. 15.75 Lacs)
10. Broadband Seismograph Network for Modelling of earthquake source & upper crust in the GarhwalKumaon Himalaya region. **(PI)**, DST New Delhi, **1996-1998**, (Rs. 24.96 Lacs)
11. Study of Shallow earthquakes in Indian region using Differential SAR Interferometry, **(PI)**, AICTE, New Delhi, **1994-1995**, (Rs. 10.00 Lacs)

Number of sponsored projects as Co PI – 13

Number of sponsored projects as Co PI in last five years – 01

12. Site Characterization and Attenuation Studies for Garhwal-Kumaun Himalaya and Delhi Region(**Co-PI**), Funded by Ministry of Science and Technology, New Delhi, **2015-2018 (Rs. 23.24 Lacs)**
13. Indo Norwegian programme on earthquake engineering (Co-PI), NORSAR, Norway, **2011-2015**, (1182000 NOK)
14. Strong motion network in NCT region(**Co-PI**), DST New Delhi, **2011-2014**, (Rs. 45.81Lacs)
15. Source modeling and generation of strong motion : A case study of Sumatra earthquake of Dec 26, 2004 (Co-PI), DAE, BRNS, **2011-2013**, (Rs. 15.86 Lacs)
16. Estimation of site effects and ground motion in Delhi and Mexico city using strong ground motion data and preparation of near real time shake map **(Co-PI)**, DST, New Delhi, **2010-2013** (Rs. 14.61

Lacs)

17. Seismological network around Tehri region (Co-PI), THDC, Rishikesh, **2010-2013**, (Rs.171.00 Lacs)
18. Seismological network around Tehri region (Co-PI), THDC, Rishikesh, **2007-2010**, (85.31 Lacs)
19. Indo Norwegian programme on earthquake engineering (Co-PI), NORSAR, Norway, **2006-2011**, (621264 NOK)
20. Seismological network around Tehri region (Co-PI), THDC, Rishikesh, **2004-2007**, (Rs.97.24 Lacs)
21. Indo Norwegian Program of institutional Corporation on Earthquake Engineering (Co-PI), NORSAR Norway, **2004-2006**, (Rs.33.95 Lacs)
22. Seismological network around Tehri region (Co-PI), THDC, Rishikesh, **2001-2004**, (Rs.85.96 Lacs)
23. Seismological network around Tehri region (Co-PI), THDC, Rishikesh, **1998-2001**, (Rs.85.28 Lacs)
24. **1995-1996** : SAR interferometry for mapping land subsidence due to mining in Jharia Coal Field, Jharkhand, (Co-PI), DST New Delhi

Consultancy Projects

442

Number of Consultancy Projects as PI : 156

Number of consultancy projects as PI in last five years : 78

Number of Consultancy Projects as Co-PI: 286

Number of consultancy projects as Co-PI in last five years: 56

Only some of the important projects are enlisted below

- 1 Assessment Of Vibrations And To Establish The Structural Soundness/Integrity Of The Existing Buildings Over The Underground Corridor From Central Secretariat To Kashmere Gate Of DMRC, Delhi Metro Rail Corporation Ltd., New Delhi, 2017-2018Rs. 28.75 Lacs.
- 2 Vetting of technical reports, data analysis reports, survey finding reports for Risk assessment studies, Uttarakhand Disaster Recovery Project, PI, Uttarakhand Government, 2016-2019, Rs. 160.00 Lakhs, Co PI: Profs NK Goel, Y. Singh, M. Shrikhande, Ravi Jakka, J. Das, A. Saraf, B. R. Gurjar, Rajat Agrawal, Z. Rahaman, A. Joshi, S. C. Gupta
- 3 Seismic Hazard Assessment for South India, DRIP, CWC, New Delhi, , 2016-2018, Rs. 82.44 Lacs, PI, Co-PI: M. Shrikhande and J. Das
- 4 Processing, Analysis and Interpretation of the Seismological Data and Preparation of Annual Technical Report based on one year Data Recording, NTPC KOL Dam, Himachal Pradesh, , 2016-2017, Rs. 17.25 Lacs, PI, Co-PI: S. C. Gupta
- 5 Assessment of Lateral Load Pile Capacities for harduaganj Thermal Power Station, Aligarh, UP., Head of Civil Dept., Joshiba JSW Power Systems Pvt. Ltd., Gurgaon, 2016-2017, Rs. 60.11 Lacs,
- 6 Seismic hazard studies for infield pipe line route (west block) M.P., Reliance Industries Ltd, 2015-2018, Rs. 27.36 Lacs, PI

- 7 Operation and Maintenance of Six Stations Seismological Network around Kol Dam Site, NTPC, KOL Dam Himachal Pradesh, 2015-2018, Rs. 17.10 Lacs, PI
- 8 Operation and Maintenance of Six Stations Seismological Network around Ettalin And Attulni Dam Site, Arunachal Pradesh, 2015-2018, Rs. 45.6 Lacs, PI
- 9 Operation and Maintenance of five Stations Seismological Network around Lakhwar Hydro Electric Project Uttarakhand, Uttarakhand Jal Vidhut Nigam Ltd., Lakhwar Bhawan, Dakpathar, Dehradun, 2015-2016, Rs. 62.97 Lacs, PI
- 10 Operation of Strong Motion Accelerographs in Tehri & Koteswar, THDC India Ltd., Rishikesh, 2015-2016, Rs. 10.26 Lacs, PI
- 11 Operation and Maintenance of Six Stations Seismological Network around Kol Dam Site, NTPC, KOL Dam Himachal Pradesh, 2014-2017, Rs. 20.22 Lacs, PI
- 12 Kalpasar multipurpose scheme, Kalpasar Department, Govt. of Gujarat, 2014-2016, Rs. 8.98 Lacs, PI
- 13 Site Specific Design Earthquake Parameter Studies for Rishikesh-Karanpryag new BG Rail line Project in Uttarakhand, Rail Vikas Nigam Ltd, Rishikesh, 17.04.2017 to 31.03.2019, 1,38,00,000.00, Co PI
- 14 Site Specific Seismic Design Parameters Study for Mawblei Hydro Electric Project in West Khasi Hills, District, Meghalaya, Meghalaya Power Generation Corporation Ltd. Meghalaya, 30.06.2017 to 31.03.2019, 13,80,000.00, Co PI

Recognition

- Member: Taskforce, Uttarakhand Disaster Recovery Project, Govt. of Uttarakhand, 2016-2018
- Chairman: Strong motion instrumentation, Bhakra Beas Managment Board, 2015-2017
- Member: International Editorial Review Board, International Journal of Geotechnical Earthquake Engineering (IJGEE), DOI: 10.4018/IJGEE, ISSN: 1947-8488, EISSN: 1947-8496 , 2012-2016
- Alternate Member: CED-39- Earthquake Engineering Sectional Committee, Bureau of Indian Standard, New Delhi, 2012-2016
- Member: National committee on site specific design earthquake parameters, CWC, New Delhi, 2012-2016
- Member: HPSDMA, Govt. of Himachal Pradesh, Disaster Management Cell, Shimla, 2012-2016
- Member: Committee on Indira Sagar Polavaram Project, Irrigation & CAD Department, Govt. of Andhra Pradesh, 2012-2016
- Member: Koyna Tremor Sub Committee (KTSC), Dam Safety Organization, Nashik, 2012-2016
- Member: Advisory group for preparation of upgraded earthquake hazard maps, NDMA, New Delhi, 2012-2016
- Member: Project Advisory Committee on Seismicity and Earthquake Precursors, Ministry of Earth Sciences, New Delhi, 2012-2016

- Co-author of the Guidelines for preparation and submission of site specific seismic study report of river valley project to national committee on seismic design parameters, Central Water Commission, Government of India.
- Chairman, Subcommittee on framing the guidelines for seismic microzonation, BIS, New Delhi
- Reviewer: many national and international journals

Awards:

- A.S. Arya-IIT Roorkee Disaster Prevention Award-2012, IIT Roorkee
- Best paper award for the year 2011-12, Wadia Institute of Himalayan Geology, Dehradun
- Best commercialization for Strong Motion Sensor Award, IIT Roorkee, 2024

Patents Granted:

1. Patent No 496293-2024: A Strong Ground Motion Sensor, The Patent Office, Government of India, 09-01-2024
2. Patent No 489653 - 2024: Tiltmeter with Liquid-Liquid Measuring, The Patent Office, Government of India, 27-12-2024.

Patent Filed

1. CRN007: A method for improving the strength of pond ash deposits
2. CRN008: Method for improving the liquefaction resistance of pond ash deposits
3. Application IITRCRN174 with Publication No. 202111062011 dated 30/12/2021: A low cost Earthquake Early Warning System for Home/office
4. Application IITRCRN172 with Publication No. 202111000637 dated 05/01/2022: A low cost Earthquake Early Warning Siren for public.

Lectures Delivered

1. Challenges in Seismic Hazard Assessment: Indian Perspective, 44th ISET Annual Lecture, December 08, 2023.
2. A. S. Arya memorial lecture, "Knowing earthquakes" Sept 02, 2020
3. Webinar arranged by NIDM
4. Webinar arranged by Engineering College
5. Webinar arranged by ISET
6. NPCIL Bombay

PhD guided

Completed- 23

1. **R. Kumar**, Earthquake occurrence in India and its use in seismic hazard estimation using probabilistic

- methods, 2007
- 2 **Anupam Tyagi**, Physics of the earthquake sources and development of expert system for earthquake prediction, 2007
 - 3 **Javed Ahemed Naqash**, Microzonation of megacities, 2008
 - 4 **Navin Pareek**, Landslide Hazard Zonation in Garhwal Himalaya using remote sensing techniques, 2008
 - 5 **Shipra Malik**, 3D Crustal velocity structure Modelling of Garhwal Himalayas, 2009
 - 6 **Girish C. Joshi**, Estimation of uncertainties in probabilistic seismic hazard analysis, 2009
 - 7 **Atanu Bhattacharya**, Surface Displacement Measurement Studies using DInSAR in a Part of Himalayas, 2013
 - 8 **Ashish Herbendoo**, Stochastic Modeling of Ground Motion for Indian Himalaya Region, 2013
 - 9 **Ranjit Das**, Probabilistic Seismic Hazard Assessment for Northeast India Region, 2013
 - 10 **Pushpa Chaudhary**, Simulation of Strong Ground Motion Using Semi Empirical Modelling Technique, 2014
 - 11 **Rakhi Bhardwaj**, Algorithm for Earthquake Early Warning System, 2014
 - 12 **Neeti Bhargava**, Mathematical Modelling for Earthquake Prediction through Animal Abnormal Behaviour, 2014
 - 13 **A. K. Srivastava**, Seismic Microzonation of an Urban Habitat, 2014
 - 14 **Rajeev Sachdeva**, Prediction of Strong motion parameters using ANN, 2015
 - 15 **Narsihma D S**, Seismic risk assessment due to slope failures, 2016
 - 16 **Vaneeta Devi**, Time Frequency Analysis of ground motion time history of microearthquakes (2018)
 - 17 **Chhavi**, Seismic Hazard Assessment using extreme statistics, 2018
 - 18 **Manoj Kuri**, Studies on landslide movements in parts of Himalaya in Uttarakhand using DINSAR techniques, 2019
 - 19 **Ritu Raj Nath**, Seismically induced Landslide Hazard Zonation, 2019
 - 20 **Shweta Bajaj**, Conditional probabilities of strong ground motion in the Himalaya, 2020
 - 21 **Neha Kumari**, Comprehensive ground motion simulation and its prediction in western Himalaya region, 2020
 - 22 **Sunil Saini**, Self consistent scaling laws for the Himalayas, 2020
 - 23 **Priyanka Sharma**, Site characterization and liquefaction potential assessment in Indo-Gangetic Plains, 2020.

Ongoing-13

- 24 **Rajni Modi**, Local Earthquake Tomography
- 25 **C Lalla Wama**, Seismic hazard and risk assessment in NE India
- 26 **Deepak Rawat**, Landslide studies using time frequency analysis
- 27 **Arun Tyagi**, Landslide and earthquakes
- 28 **Mayuri**, Seismic, Risk Assessment in north east

- 29 **Mudit Srivastava**, Soil characterization and deep soil effects
- 30 **Deepak Jhangra**, Crustal velocity structure of North West Himalaya using Surface Wave Dispersion
- 31 **Ritesh Shaw**, Prediction of soil response and Generation of shake maps
- 32 **Anupa Chakraborty**, Landslide monitoring and prediction using seismological data through machine learning
- 33 **Abhishek Pandey**, Seismotectonic Modelling of Himalayas
- 34 **Nupoor Gupta**, Earthquake Source modelling
- 35 **Subhaneet**, AI in earthquake engineering
- 36 **Sudhir Yadav**, Coda Q

Master's Degree Supervision: 80

1. **Naveen**, Ground motion prediction equations, 2024
2. **Md. ILIYAS KHAN**, Attenuation relationships for strong ground motion, 2024
3. **Avichal**, Analysis of Nepal Himalayan seismicity, 2023
4. **Subash Patel**, Probabilistic Seismic Hazard Assessment of VPHEP, Pipalkoti in Chamoli district of Uttarakhand. 2023
5. **Hardik Arora**, Scenario earthquake generation and risk estimation, 2022
6. **Aman Kumar**, Seismic Hazard Assessment in Case of Lystric Faults, 2022
7. **Mithlesh Sarkar**, Estimation of local site effects using Bihar Nepal isoseismals, 2021
8. **Monika Gautam**, Landslide studies in Garhwal Himalaya, 2020
9. **Satyajit Mitra**, Time frequency analysis of accelerograms, 2020
10. **Devendra Paliwal**, Comparative analysis of landslide hazard zonation mapping, COEDMM, 2020
11. **Ayushmaan Sharma**, Conditional Probability Assessment in Himalayas, 2019
12. **Sahil Gulab Angural**, Near Field Ground Motion Effects in GMPEs, 2019
13. **Ashish Bahuguna**, Strong Ground Motion Analysis from Himalayas, 2019
14. **Deepak Kumar**, Seismic Risk assessment in Rural and Urban Areas, COEDMM, 2019
15. **Akanksha Agarwal**, Time Dependent Seismic Hazard Assessment, 2018
16. **Ali Ahmed Khan**, Reservoir Induced Seismicity (RIS) due to Tehri Dam, 2018
17. **Arun Tyagi**, Land Slide Hazard Zonation in Garhwal Himalaya, 2018
18. **C Lalla Wma Wma**, Seismic Hazard and Risk Assessment for NE India, 2018
19. **Rinku**, Site Amplification and Attenuation Studies for Himalayan Region, 2018
20. **Ritesh Kumar Rai**, Site Amplification Case Study, 2018
21. **Vivek Singh Yadav**, Induced Seismicity, 2018
22. **Vivek Bhardwaj**, Seismic hazard assessment for Uttarakhand, 2018
23. **Singh Jalesh Santosh**, Estimation of bed rock depth using GPR, 2017
24. **Harshvardhan Singh**, Scaling Laws in Himalayas, 2017
25. **Kuldip Khichar**, Site Amplification & Attenuation Studies for Garwal-Kumaun Himalaya & Delhi Region, 2017
26. **Rishi Grewal**, Seismic Risk Assessment of Srinagar city, Jammu and Kashmir, COEDMM, 2017
27. **Gautam Kumar**, Estimation of bed rock using GPR, 2016
28. **Ashish Kumar Verma**, Generation of Shake maps, 2016
29. **Rahul Kumar**, Seismic hazard analysis with moment release constraint in Kumaoun and Garhwal region, 2016
30. **Saurabh Kumar Mangal**, Evaluation of dynamic response of deep soils, 2016

31. **Ankita Prasun**, Seismic Risk Assessment due to Scenario Earthquake – A case study for Bihar Nepal 1934 Earthquake, 2016
32. **Ishan Roy**, Methodology for generation of Shakemaps for Delhi region, 2015
33. **Deepika Sayana**, Deep soil effect, 2015
34. **Phibe Khalko**, Seismic Hazard assessment, 2015
35. **Shivani Chauhan**, Damage Scinario under great earthquake – A case study of 1934 Bihar Nepal Earthquake, COEDMM, 2015
36. **Shivani Singh**, Effect of deep soils on strong ground motion, 2014
37. **Vaddi Monica**, Seismic Hazard estimation for south India, 2014
38. **Smita Singh**, Ground motion simulation using modified semi empirical methodology, 2014
39. **Mod Ahemad**, Amplification of strong ground motion due to deep soils, 2013
40. **Akhilesh Singh**, Seismic Hazard and Risk Assessment for Indo-Gangetic plains, 2013
41. **Chibi Rajram**, Earthquake Early Warning System for North India, 2013
42. **Rebecca RC**, Evaluation of strong ground motion prediction equations, 2012
43. **Nitesh Patel**, Earthquake Early warning system, 2012
44. **Saurabh Vijay**, Advances in SAR interferometry, 2012
45. **Harish Shinde**, Seismic Microzonation of Chandigarh City, 2011
46. **Manu Mohan**, A Neural Network Approach for Earthquake Early Warning System, 2011
47. **Amarjeet Birajdar**, Attenuation relationship for spectral displacement for Himalayan region, 2011
48. **Abhishek**, Integrated Geo exploration over Solani Knee band, NW Himalaya, 2010
49. **Venu Gopal**, Comparison of site specific PGA using neural networks and regression models, 2010
50. **A. Panchal**, Determination of design ground motion parameters for displacement based design, 2010
51. **Mansi Kulkarni**, Seismic Hazard Assessment using Non Poissonian Models, 2010
52. **Jainish Kotadia**, Development of spectral attenuation relationship for Indian region, 2007
53. **Shiva Kumar**, Application of artificial Neural Network for prediction of spectral acceleration in site specific, 2006
54. **Ravindra Golia**, Estimation of cumulative and conditional probabilities in Himalayas, 2006
55. **Anshul Kumar**, Seismic microzonation of rural areas, 2005
56. **Prashant Ambulkar**, Development of methodology for insurance tariff against earthquakes, 2005
57. **Shivani Sharma**, Reflection of seismic waves from non-welded interfaces, 2005
58. **Murugavel Raja**, Automatic Phase Picking of Seismic Signals using ANN, 2005
59. **Sonal Gupta**, Dem generation from SAR interferometry, 2005
60. **A. Ahemad**, Development of Automatic Phase pickers for earthquakes, 2004
61. **Atanu Bhattacharya**, Estimation of strong ground motion in Himalayas using strong ground motion and SRR data, 2004
62. **J. Niwas**, Development of world wide GIS earthquake based system, 2003
63. **Pratim Sil**, SAR interferrometry studies in Jharia Coal fields, 2003
64. **G. C. Joshi**, Seismic hazard analysis and risk computation, 2002
65. **K. Samba S Rao**, Seismic microzonation of Delhi, 2002
66. **Satendra Saini**, Development of attenuation relationship for Himalayan region using Indian Strong motion array data, 2002
67. **S. K. Gupta**, Remote sensing application in seismic hazard studies, 2001
68. **M. Khan**, Seismic hazard Analysis using GIS, 2001
69. **R. G. K. Nath**, Development of Attenuation relationship for Indian Region, 2000
70. **Venkata Raju**, Seismic hazard Analysis using Artificial Neural network, 2000
71. **S. Panda**, Design of an 10-storied building in NE India at location C, Maharashtra, 1999
72. **R. G. K. Nath**, Design of an 10-storied building in NE India at location B, Mehghalaya, 1999

73. **Amit Sahu**, Design of an 10-storyed building in NE India at location A, Assam, 1998
74. **Umakant Singh**, Design of an 8-storyed reinforced concrete office building in NE India, 1998
75. **R. Gautam**, Background noise characteristics of ground using broad band seismometer, 1998
76. **Kiran Pal**, Fabrication of interface unit between seismometer and recorder, 1998
77. **Kh. Ibophisak Singh**, Seismological studies and design of Earth and Rockfill dam, 1995
78. **R. Verma**, Determination of coda magnitude of local earthquakes, 1991
79. **A Ghosh**, Automatic earthquake recognition, 1990
80. **Pravesh Gupta**, Design and Fabrication of an instrument for the measurement of ground conductivity, 1989

Conference Organised

- **Chairman** : A New Perspective on Natural Hazard, Risk & Insurance, *A workshop on challenges and innovations*, May 2018
- **Co-Chairman** : 6th International Conference on Recent Advances in Geotechnical Earthquake Engineering, 2016, Greater Noida
- **Co-Chairman** : 7th International Conference on Recent Advances in Geotechnical Earthquake Engineering, 2020, ISC, Bangalore
- **Chairman**, 15th Symposium on Earthquake Engineering, 2014
- **Organizing Secretary** : 14th Symposium on Earthquake Engineering, 2010
- **Organizing Secretary** : 13th Symposium on Earthquake Engineering, 2006,
- **Organizing Secretary** : 12th Symposium on Earthquake Engineering, 2002
- **Organizing Secretary** : Indo Norwegian Workshop, 2012

Collaboration:

- Indo Norwegian Project (2003-2015)
- Indo Taiwanese Project (2013-2015)
- Indo Mexican project on site characterization in New Delhi, 2009-2011.
- Indo Norwegian Project on seismic Risk Assessment, 2006-2010
- Indo Norwegian Programme on Institutional Cooperation on Earthquake Engineering, 2003-2006
- Seismic Hazard estimation of KGDVI site, NGI, Norway
- Seismic Hazard estimation of KGDIII site, NGI, Norway
- Conducted UNESCO Course on Seismology and Seismic Risk Assessment, Nov 04 to Dec 06, 1993; 30 participants from 23 countries and faculty from 3 countries participated

Books Authored:

- Sitharam, T.G., S. Kolathayar and M. L. Sharma, Seismic Hazards and Risk - Select proceedings of 7th ICRAAGEE, 2020, 282
- M.L. Sharma, Manish Shrikhnade and H. R. Wason, Advances in Indian Earthquake Engineering and Seismology: Contributions in Honour of Jai Krishna, Springer, 2018.
- Proceedings, 15th Symposium on Earthquake Engineering – 15SEE, 2014, Vol I, pp 1-438, Published by Department of Earthquake Engineering, IIT Roorkee.

- Proceedings, 15th Symposium on Earthquake Engineering – 15SEE, 2014, Vol II, pp 439-1135, Published by Department of Earthquake Engineering, IIT Roorkee.
- Proceedings, 14th Symposium on Earthquake Engineering- 14SEE, Vol I, 2010, pp1-690 , Published by Department of Earthquake Engineering, IIT Roorkee
- Proceedings, 14th Symposium on Earthquake Engineering- 14SEE, Vol II, 2010, 691-1459, Published by Department of Earthquake Engineering, IIT Roorkee
- Proceedings, 13th Symposium on Earthquake Engineering – 13SEE, Vol I, 2006, pp 1-616, Published by Department of Earthquake Engineering, IIT Roorkee.
- Proceedings, 13th Symposium on Earthquake Engineering- 13SEE, Vol II, 2006, 617-1468, Published by Department of Earthquake Engineering, IIT Roorkee
- Proceedings, 12th Symposium on Earthquake Engineering – 12SEE, 2004, Vol I, pp 1-713, Published by Department of Earthquake Engineering, IIT Roorkee.
- Proceedings, 12th Symposium on Earthquake Engineering- 12SEE, 2004, Vol II, 714-1587, Published by Department of Earthquake Engineering, IIT Roorkee.
- A report on Chamoli Earthquake of March 29, 1999, 2000, Published by Department of Earthquake Engineering, University of Roorkee.

Chapters in Books

1. Chhavi Chaudhari, ML Sharma, Shusil Gupta (2024), Earthquake Occurrence models, Recent Developments in Earthquake Seismology: Present and Future of Seismological Analysis, Recent Developments in Earthquake Seismology, 1-13, Springer International Publishing.
2. Rinku Mahanta, Vipul Silwal and M. L. Sharma (2024). Body Waves– and Surface Waves–Derived Moment Tensor Catalog for Garhwal-Kumaon Himalayas, Recent Developments in Earthquake Seismology, Present and Future of Seismological Analysis, Recent Developments in Earthquake Seismology, 47-63, Springer International Publishing.
3. Pankaj Kumar, Kamal, Mukat Lal Sharma, R.S. Jakka, Pratibha (2023). Instrumentation of India's First Regional Earthquake Early Warning System and Site Characterization of Its Stations, Geohazards: Analysis, Modelling and Forecasting, Springer Nature Singapore, 155-183.
4. Ritu Raj Nath, Mukat Lal Sharma, Naveen Pareek, Shilpa Pal, Shweta Bajaj, Neha Kumari (2023), Earthquake Induced Landslide Hazard Evaluation for Seismic Microzonation: A Case Study of the Garhwal Himalayas, Earthquake Engineering and Disaster Mitigation: Contributions in the Honour of Late Professor DK Paul, Springer Nature Singapore, 59-83.
5. Neetu Goswami, SC Gupta, Ashwani Kumar, M. L. Sharma (2022). Source and Path Characteristics of Chamoli Region, India, Advances in Geophysics, Tectonics and Petroleum Geosciences: Proceedings of the 2nd Springer Conference of the Arabian Journal of Geosciences (CAJG-2), Tunisia 2019, Springer International Publishing, 187-190.
6. Ritu Raj Nath, shilpa Pal and M. L. Sharma (2022). Use of Probabilistically Generated Scenerio Earthquakes in Landslide Hazard Zonation : A Semi-qualitative Approach, 247-274.
7. Vaneeta Devi, M.L. Sharma (2019). Advances in Extraction of Signal From Ground Motion Time Histories Using Time-Frequency Analysis, Recent Challenges and Advances in Geotechnical Earthquake Engineering, 1-30.

8. S. Gupta, M. K. Arora, M. L. Sharma (2006). Surface displacement studies using differential SAR interferometry: an overview, Disaster forewarning diagnostic methods and management, Kogan, Felix; Habib, Shahid ;Hegde, V. S.Matsuoka, Masashi, SPIE, ISBN 0819465194
9. Sharma M. L. (2019) Engineering Seismology, Advances in Indian Earthquake Engineering and seismology, Springer.
10. Wason, H. R, Ranjit Das and M. L. Sharma (2019) Regression Relations for Magnitude Conversion for the Indian Region, Advances in Indian Earthquake Engineering and seismology, Springer.

Educational Movies:

1. Fault Plane Solution, 45 min, EERC, Roorkee
2. Tsunami Part-I, 30 min, EERC, Roorkee
3. Tsunami Part-II, 30 min, EERC, Roorkee
4. Tsunami Part-III, 30 min, EERC, Roorkee
5. Earthquake Magnitude Intensity Part-I
6. Earthquake Magnitude Intensity Part-II
7. Seismological Instrumentation, 30 min, EERC Roorkee
8. Chi Chi Earthquake Museum Taiwan, 10 min
9. Seismograph, 15 min

Recent publications:

Journals – 111

1. Rawat, Deepak, **M. L. Sharma**, Divyesh Varade, Roshan Kumar, Debi Prasanna Kanungo, Rayees Ahmed, S. C. Gupta, Hemant Singh and Nishant Saxena (2024). Early Warning Potential of Regional Seismic Network: Seismic Assessment of One of the Precursors of Chamoli 2021 Disaster, Earth Systems and Environment, 1-20.
2. Kumar Pankaj, Kamal, **M. L. Sharma**, R.S. Jakka and Pratibha (2024). Uttarakhand State Earthquake Early Warning System: A Case Study of Himalayan Environment, Preprints, <https://doi.org/10.20944/preprints202403.0891.v1> Kumar, P.; Kamal, K.; Sharma, M.L.; Jakka, R.S.; Pratibha, P. Uttarakhand State Earthquake Early Warning System: A Case Study of Himalayan Environment. Preprints , <https://doi.org/10.20944/preprints202403.0891.v1>Copy .
3. Borah, Mayuri, **M. L. Sharma** and Ramanand Dubey (2024). Assessment of seismic hazard incorporating site-specific study for Assam, North-East India, <https://doi.org/10.21203/rs.3.rs-3750104/v1>.
4. Lallawmawma, C., M.L. Sharma, J.D. Das (2023). Probabilistic seismic hazard and risk assessment of Mizoram, North East India, Natural Hazards Research. 3(3), 447-463.
5. Kumar, Pankaj, Vipul Silwal, Rinku Mahanta, Vipin Kumar Maurya, M. L. Sharma, Kamal and Ambikapathy Ammani (2023). Near Real-time Detection and Moment Tensor Inversion of the May 11, 2022, Dharchula Earthquake, Journal of Seismology, <https://doi.org/10.21203/rs.3.rs-2860237/v1>.

6. Kumar, Pankaj, **M. L. Sharma**, R. S. Jakka, Ashok Kumar, GC Joshi, Piyoosh Rautela(2023). Successful alert issuance with sufficient lead time by Uttarakhand state earthquake early warning system: Case study of Nepal earthquakes, *Journal of the Geological Society of India*, 99(3), 303-310.
7. Sharma, Saurabh, Anand Joshi, Che-Min Lin, Chun-Hsiang Kuo, Kuo-Liang Wen, Sandeep Singh, **M. L. Sharma**, Mohit Pandey and Jyoti Singh (2023). Modeling of rupture using strong motion generation area: a case study of Hualien earthquake (Mw 6.1) occurred on April 18, 2019, *Acta Geophysica*, Vol 71 no 1, 1-28
8. Rathore, Govind, Ashok Kumar, R.S. Jakka and **M. L. Sharma** (2023). Design and implementation of earthquake early warning dissemination mobile app for Uttarakhand (India), *Journal of Seismology*, 27:203–217
9. Nath, Ritu Raj, , Naveen Pareek, **Mukat Lal Sharma** (2022). Implications and inclusion of size-dependent scenario earthquakes on landslide hazard zonation: A case study of the Indian Himalayas, *CATENA*, 212, 1-12, 106027, <https://doi.org/10.1016/j.catena.2022.106027>
10. Rathore, Govind, Kamal, Ravi S Jakka, **Mukat Lal Sharma** and Ashok Kumar (2021). Development of Earthquake Early Warning Dissemination System for Northern India, *Earth and Space Science Open Archive*, <https://doi.org/10.1002/essoar.10508679.1>
11. Pandey, Bhavesh, Ravi Sankar Jakka, Ashok Kumar and **M. L. Sharma** (2021). Site characterization of strong-motion stations of Himalaya and adjoining plains, *Arabian Journal of Geosciences*, 14(10), 1-21.
12. Nath, R.R., **M. L. Sharma**, A. Goswami, K. Sweta and N. Pareek (2021). Landslide Susceptibility Zonation With Special Emphasis on Tectonic Features for Occurrence of Landslides in Lower Indian Himalaya, *Journal of the Indian Society of Remote Sensing*, 49(5), 1221-1238.
13. Sharma, P., V. A. Sawant and **M.L. Sharma** (2021). Numerical modeling of liquefaction in deep saturated sands, *Innovative infrastructure solutions* 6 (2), 1-11.
14. Sharma, P., **M. L. Sharma** and Viswas Sawant (2020). Estimation of Seismic Hazard and Amplification of Strong Ground Motions in Indo-Gangetic Plains, *Journal of Seismology and Earthquake Engineering*, 22(1), 15-30.
15. Nath, R.R., **M. L. Sharma** and A. Tyagi (2020). Review of the current practice of inclusion of seismicity in landslide susceptibility conation: A case study for Himalaya, *Himalayan Geology*, 41 (2), 222-233.
16. Kanaujia, Joytima, S. Mitra, S.C. Gupta and **M.L. Sharma** (2019). Crustal anisotropy from shear wave spilliting of local earthquakes in the Garhwal lesser Himalaya, *Geophysical Journal International*, 219(3), 2013-2033.
17. Bajaj, S. and **M. L. Sharma** (2019). Modeling Earthquake Recurrence in the Himalayan Seismic Belt Using Time-Dependent Stochastic Models: Implications for Future Seismic Hazards, *Pure and Applied Geophysics*, 176(12), 5261-5278.
18. Das, R., **M. L. Sharma**, H. R. Wason, D. Chaudhary, G. Gonzalez (2019). A Seismic Moment Magnitude Scale, *Bull. Seis. Soc. Am.*,109(4), 1542-1555.
19. Mittal, Himanshu, Yih-Min Wu, **M.L. Sharma**, Benjamin Ming Yang, Sushil Gupta (2019). Testing the performance of earthquake early warning system in northern India, *Acta Geophysica*, 67(1), 59-75.

20. Kumar, Sunil, **M. L. Sharma** and J. Das (2018) Consistent scaling laws for thrusting environment: A case study for Himalayan region, *Int Jour. Geotechnical Earthquake Engineering*, 9(2), 46-62.
21. Choudhary, Chhavi and **M. L. Sharma** (2018). Global strain rates in western to central Himalayas and their implications in seismic hazard assessment, *Natural Hazards*, 94(3), 1211-1224.
22. Kumari, Neha, I.D. Gupta, **M.L. Sharma** (2018). Synthesizing Nonstationary Earthquake Ground Motion via Empirically Simulated Equivalent Group Velocity Dispersion Curves for Western Himalayan Region, *Bulletin of the Seismological Society of America*, 108(6), 3469-3487.
23. Bhardwaj, R. and **M. L. Sharma** (2018) Lead time for cities of Northern India by using multiparameter EEW algorithm, *International journal of Geophysics*, Vol(2018), 1-8.
24. Nath, R.R., Gautam Kumar, **M. L. Sharma** and S.C. Gupta (2018) Estimation of Bedrock Depth for a Part of Garhwal Himalayas Using Two Different Geophysical Techniques, *Geoscience letters*, 6(1), 1-9.
25. Lal, Sohan, A Joshi, Monu Tomer, Parveen Kumar, Chun-Hsiang Kuo, Che-Min Lin, Kuo-Liang Wen, **M.L. Sharma** (2018). Modeling of the strong ground motion of 25th April 2015 Nepal earthquake using modified semi-empirical technique, *Acta Geophysica*, 66(4), 461-477.
26. Das, Ranjit, H.R. Wason, Gabriel Gonzalez, **M.L. Sharma**, Deepankar Choudhury, Conrad Lindholm, Narayan Roy, Pablo Salazar (2018). Earthquake Magnitude Conversion Problem, *Bulletin of the Seismological Society of America*, 108(4), 1995-2007.
27. Das, Ranjit, H. R. Wason, **M. L. Sharma** and G. Gonzalez (2017) Reply to "Comment on 'Unbiased Estimation of Moment Magnitude from Body- and Surface-Wave Magnitudes' by R. Das, H. R. Wason, and M. L. Sharma and 'Comparative Analysis of Regression Methods Used for Seismic Magnitude Conversions' by P. Gasperini, B. Lolli, and S. Castellaro" by J. Puj, *Bulletin of the Seismological Society of America*, 108(1), 540-547.
28. Chaudhary, C. and **M. L. Sharma** (2017) Probabilistic Models for Earthquakes with Large Return Periods in Himalaya Region, *Pure and Applied Geophysics*, 174, 4313-4327.
29. Devi, vaneeta and **M. L. Sharma** (2016) Spectral Estimation of Noisy Seismogram using Time-Frequency Analyses, *IJGEE*, 7(1), 19-312.
30. **Sharma, M. L.**, S. C. Gupta, A. K. Jindal, S. K. Jain and Arup Sen (2016), Local seismological network around Tehri dam, *THDC Hydro Tech Vol (4) Issue II*, 32-39.
31. Das, Ranjit, **M. L. Sharma** and H. R. Wason (2016) Probabilistic Seismic Hazard Assessment for Northeast India Region, *Pure and Applied Geophysics*, 173(8), 2653-2670.
32. Devi, Vaneeta and **M. L. Sharma** (2016) Recent Spectral Decomposition Techniques and Its Applications in Analysis of Seismological Data: A Review, *International Journal of Innovative Research in Science, Engineering and Technology*, 5(1), 213-220.
33. Kuri, Manoj, Atanu Bhattacharya, Manoj K Aroora and **M. L. Sharma** (2016). Time series InSAR techniques to estimate deformation in a landslide-prone area in Haridwar region, India, *Geoscience and Remote Sensing Symposium (IGARSS)*, 2016 IEEE, 6839-6842.
34. Bhardwaj, Rakhi, **M. L. Sharma**, Ashok Kumar (2016) Multi-parameter algorithm for Earthquake Early Warning, *Geomatics, Natural Hazards and Risk*, 1242-1264.

35. Joshi, A., Monu Tomer, Sohan Lal, Sumer Chopra, Sandeep Singh, Sanjay Prajapati, **M. L. Sharma** and Sandeep (2016) Estimation of the source parameters of the Nepal earthquake from strong motion data, *Natural Hazard*, 83(2), pp. 867-883.
36. Bhattacharya, Atanu, Kriti Mukherjee, Manoj Kuri, Malte Vöge, **M. L. Sharma**, M. K. Arora, Rejinder K Bhasin (2015) Potential of SAR intensity tracking technique to estimate displacement rate in a landslide-prone area in Haridwar region, India, *Natural Hazards*, Vol 79(3), 2101-2121. DOI: 10.1007/s11069-015-1949-6
37. Jakka, R.S., M. Hussain and **M.L. Sharma** (2015) Effects on amplification of strong ground motion due to deep soils, *Geomechanics and Engineering*, 8(5), pp. 663-674.
38. Joshi, A., Chun-Hsiang Kuo, Piu Dhibar, **M. L. Sharma**, Kuo-Liang Wen, Che-Min Lin (2015) Simulation of the records of the 27 March 2013 Nantou Taiwan earthquake using modified semi-empirical approach, *Natural Hazards*, 78, 995-1020.
39. Bhattacharya, A., M. K. Arora and **M. L. Sharma**, M. Voge and R. Bhasin (2014) Surface displacement estimation using space born SAR interferometry in a small portion along Himalayan Frontal Fault, *Optics and Lasers in Engineering*, Vol. 53, pp. 164-178.
40. Das, Ranjit, H, R, Wason and **M. L. Sharma** (2014) Reply to comments on General orthogonal regression relations between body wave and moment magnitudes by Das, Ranjit, H, R, Wason and M. L. Sharma, by Paolo Gasperini and Barbara Lolli, *Seismological Research letters*, Vol. 85, No. 2, pp.352-353 (Impact factor : 1.826).
41. Das, Ranjit, H, R, Wason and **M. L. Sharma** (2014) Reply to Comment on 'Magnitude conversion problem using general orthogonal regression, by Paolo Gasperini and Barbara Lolli, *Geophysical Journal International* Vol. 196 (1), pp.628-631.
42. Das, Ranjit, H, R, Wason and **M. L. Sharma** (2014) Unbiased estimation of moment magnitude from body and surface wave magnitude, *Bull. Seis. Soc. America*, Vol. 104, pp. 1802-1811.
43. Herbindoo, A, Susheel Kumar and **M. L. Sharma** (2014) Earthquake ground motion predictive equations for Garhwal Himalaya, India, *Soil Dynamics and Earthquake Engineering*, Vol. 66, pp. 135-148.
44. Bhardwaj R, A. Kumar and **M. L. Sharma** (2013) Inclusion of Q-value in parameters for Earthquake Early Warning Systems, *Disaster Advances*, Vol. 6(5), pp. 54-60.
45. Bhardwaj R, A. Kumar and **M. L. Sharma** (2013) Root Sum of Squares Cumulative Velocity: An Attribute for Earthquake Early Warning, *Disaster Advances*, Vol. 6(3), pp. 24-31.
46. Bhattacharya, A., M. K. Arora and **M. L. Sharma** (2013) Usefulness of Adaptive Filtering for Improved Digital Elevation Model Generation, *Journal of the Geological Society of India*, Vol. 82, pp. 153-161.
47. Bhattacharya, A., Malte Vöge, M. K. Arora, **M. L. Sharma** and R. K. Bhasin (2013) Surface displacement estimation using multi-temporal SAR Interferometry in a seismically active region of the Himalaya, *Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards*, Vol. 7 (3), pp. 184-197.
48. Das, Ranjit, H, R, Wason and **M. L. Sharma** (2013) General orthogonal regression relations between body wave and moment magnitudes, *Seismological Research letters*, Vol. 84 (2), pp. 219-224 (Impact factor : 1.826).

49. Maheshwari, B. K. A.K. Mahajan, **M.L. Sharma**, D.K. Paul, A.M. Kaynia and Conrad Lindholm (2013) Relationship between Shear Velocity and SPT Resistance for Sandy Soils in the Ganga basin, *Int Journal of Geotechnical Engineering*, Vol 7(63), pp. 63-70.
50. Maheshwari, B. K., **M. L. Sharma**, Y. Singh and A. Sinhal (2013) Geotechnical aspects of Sikkim earthquake of September 18, 2011, *Indian Geotechnical Journal*, April-June-2013, Vol. 43(2), pp. 170-179.
51. Pareek, N., **M. L. Sharma**, M. K. Arora and S. Pal (2013) Inclusion of earthquake strong ground motion in a Geographic Information System based Landslide Susceptibility Zonation in Garhwal Himalayas, *Natural Hazard*, 65, pp. 739-765.
52. Pareek, N., S. Pal, **M. L. Sharma**, and M. K. Arora (2013) Study of effect of seismic displacements on landslide. susceptibility zonation (LSZ) in Garhwal Himalayan region of India using GIS and remote sensing techniques, *Computers & Geosciences*, Vol. 61, pp. 50-63.
53. **Sharma, M. L.**, A. Sinhal, Y. Singh and B. K. Maheshwari (2013) "Damage survey report for Sikkim earthquake of September 18, 2001, *Seismological Research Letters*, Volume 84 (1), pp. 49-56 (Impact factor : 1.826).
54. Bhardwaj R., **M. L. Sharma** and A. Kumar (2012), "Earthquake magnitude prediction for real time EEW system: An automatization from P-wave time window analysis", *Himalayan Geology*, Vol. 34 (1), pp. 84-91.
55. Bhattacharya, A., M. K. Arora and **M. L. Sharma** (2012) Improved Digital Elevation Model creation using SAR Interferometry in plane and undulating terrains, *Himalayan Geology*, Vol. 33 (1), pp. 29-44.
56. Bhattacharya, A., M. K. Arora and **M. L. Sharma** (2012) Surface displacement measurements along Himalayan frontal fault using differential SAR interferometry, *Natural Hazards*, Vol. 64, pp. 1105–1123.
57. Bhattacharya, A., M. K. Arora and **M. L. Sharma** (2012) Usefulness of SAR Interferometry for DEM Generation and Estimation of Land Surface Displacement in Jharia Coal Field Area, *Geocarto International*, Vol. 27(1), pp. 57-77.
58. Das Ranjit, H, R, Wason and **M. L. Sharma** (2012), Magnitude conversion to unified moment magnitude using orthogonal regression relation *Journal of Asian Earth Sciences* (JAES), [Vol. 50](#)(2), pp. 44–51. (Impact factor 2.152)
59. Das Ranjit, H, R, Wason and **M. L. Sharma** (2012) Temporal and spatial variations in the magnitude of completeness for homogenized moment magnitude catalog for Northeast India, *Journal of Earth Sciences System (JESS)*, Vol. 121(1), pp. 19–28. (Impact factor 0.82)
60. Das Ranjit, H. R. Wason and **M. L. Sharma** (2012) Homogenisation of earthquake catalogue for North East India and adjoining region, *Jour. of Pure and App. Geophysics* (PAGEOPH), Vol. 169, pp. 725-731. (Impact factor 1.787)
61. Herbindu, A, **M. L. Sharma** and Kamal (2012) Stochastic ground-motion simulation of two Himalayan earthquakes: seismic hazard assessment perspectives, *Journal of Seismology*, Vol. 16, pp. 345-369.

62. Herbindu, A., Kamal and **M. L. Sharma** (2012) Site amplification and frequency-dependent attenuation coefficient at rock sites of Himachal region in NW Himalaya, India, *Bull. Seis. Soc. Am.* Vol. 102(4), pp. 1497-1504.
63. Joshi, A., P. Kumari, S. Singh and **M. L. Sharma** (2012) Near-field and far-field simulation of accelerograms of Sikkim earthquake of September 18, 2011 using modified semi-empirical approach, *Natural Hazards*, Vol. 64, pp. 1029-1054.
64. Joshi, A., Pushpa Kumari, and **M. L. Sharma** (2012) Synthesis of Strong Ground Motion Using Modified Semi-Empirical Technique, *IACSIT International Journal of Engineering and Technology*, Vol. 4(4), pp. 424-426.
65. Joshi, A., P. Kumari, **M. L. Sharma**, A. K. Ghosh, M. K. Agrawal, R. Ravikiran (2012) A strong motion model of the 2004 great Sumatra earthquake: simulation using a modified semi empirical method, *Journal of Earthquake and Tsunami* Vol. 6(4), 1250023-1-1250023-29.
66. Joshi, A., P. Kumari, Sushil Kumar, **M. L. Sharma**, A. K. Ghosh, M. K. Agrawal, R. Ravikiran (2012) Estimation of model parameter of Sumatra earthquake using Empirical Green's Function technique and generation of hypothetical earthquake scenario for Andaman Island, India, *Natural Hazards*, Vol. 62, pp. 1081-1108.
67. **Sharma, M. L.** and C. Lindolhm (2012) Earthquake hazard assessment for Dehradun, Uttarakhand, India, including a characteristic earthquake recurrence model for the Himalaya Frontal Fault (HFF), *Pure and Applied Geophysics (PAGEOPH)*, Vol. 169, pp. 1601–1617.
68. Tripathi, J. N, P. Singh and **M. L. Sharma**(2012) Variation of Seismic coda-wave attenuation in the Garhwal region, north western Himalaya, *Jour. of Pure and App. Geophysics (PAGEOPH)*, Vol. 169(1-2), pp. 71-88.
69. Wason, H. R, R. Das, and **M. L. Sharma** (2012) Magnitude Conversion Problem Using General Orthogonal Regression, *Geophysical Journal International*, Vol. 190(2), pp. 1091-1096. (Impact factor 2.42)
70. Bhattacharya, A., M. K. Arora and **M. L. Sharma** (2011) Landslides Monitoring using Small Baseline SAR Interferometry technique, *International Journal of Earth Sciences and Engineering*, Vol.04 (06 SPL), pp. 309-314.
71. Das, Ranjit, H, R, Wason and **M. L. Sharma** (2011) Global regression relations for conversion of surface wave and body wave magnitudes to Moment Magnitude, *Natural Hazards*, Vol. 59(2), pp. 801-810.(Impact factor 1.529)
72. Joshi, G. C. and **M. L. Sharma** (2011) Estimation of Peak Ground Acceleration and Its Uncertainty for Northern Indian Region, *International Journal of Geotechnical Earthquake Engineering*, Vol. 2(1), pp. 1-19.
73. Joshi, G. C., and **M. L. Sharma** (2011) Strong Ground Motion Prediction and Uncertainties Estimation for Delhi, India, *Natural Hazard*, Vol. 59 (2), pp. 617-637.
74. Kumar, R. and **M. L. Sharma** (2011) Estimation of conditional probabilities of occurrence of moderate earthquakes in India using non-Poissonian distributions and their implications, *Himalayan Geology*, Vol. 32(1), pp. 81-92.

75. Paul, A and **M. L. Sharma** (2011) Recent earthquake swarms in Garhwal Himalaya: a precursor to moderate to great earthquakes in the region, *Journal of Asian Earth Sciences(JAES)*, Vol. 42, pp. 1179-1186
76. Bhargava, N., V. K. Katiyar, **M. L. Sharma** and P. Pradhan (2010) Electric Charge Developed by Seismic Stress on Earthquake Sources and Its Effect on Animals, *Journal of International Academy of Physical Sciences*, Vol. 14 (2), pp. 205-214
77. DAS. R., H. R. Wason and **M. L. Sharma** (2010) Variations in the magnitude of completeness and 'b' value for the Indian Himalaya region during the catalog period 1964-2007, *Journal of Nepal Geological Society*, 2010, Vol. 41 (Sp. Issue)
78. Mahajan, A. K., V. C. Thakur, **M. L. Sharma** and M. Chauhan (2010) Probabilistic Seismic Hazard Map of NW Himalaya and its adjoining area, India, *Natural Hazards*, Vol. 53, pp. 443-457.
79. Pareek, N., **M. L. Sharma** and Manoj Aroa (2010) Impact of seismic factors on Landslide Susceptibility Zonation: A case study in part of Indian Himalayas, *Landslides* Vol. 7, pp. 191-201
80. **Sharma, M. L.** and R. Kumar (2010) Estimation and implications of conditional probabilities of occurrence of moderate earthquakes in India, *Ind. Jour.. Science and Tech.*, Vol. 3(7), pp. 808-817.
81. **Sharma, M. L.** and A. Tyagi (2010) Cyclic behaviour of seismogenic sources in India and use of ANN for its prediction, *Natural Hazard*, Vol. 55, pp. 389-404.
82. Singh S. K., A. Kumar, G. Suresh, M. Ordaz, J.F. Pacheco, M.L. Sharma, B.K. Bansal, R.S. Dattatrayam, and E. Reinoso (2010) A study of Delhi earthquake of November 25, 2007 (Mw4.1): Implications for seismic hazard, *Current Science*, Vol. 99(7), pp. 939-947.
83. Bhargava, N, V. K. Katiyar, **M. L. Sharma** and P. Pradhan (2009) Earthquake prediction through animal behaviour – A review, *Indian Journal of Biomechanics*, March 2009 Issue, pp. 159-165.
84. **Sharma, M. L.**, J. Douglas, H. Bungum and J. Kotadia (2009) Ground motion predicting equations on data from the Himalayan and Zagros regions, *Jour. Earthquake Engineering*, Vol. 13(8), pp. 1191-1210.
85. Joshi, G. C. and **M. L. Sharma** (2008) Uncertainties in estimation of Mmax, *Jour. Earth Sciences Systems*, Vol. 117(S2), pp. 671-682.
86. Ahmed A., **M. L. Sharma** and A. Sharma (2007) Wavelet based Automatic Phase Picking Algorithm for 3-Component Broadband Seismological Data, *J. Seismology and Earthquake Engineering*, pp. 15-24.
87. Maheshwari B.K., **M. L. Sharma** and J. P. Narayan (2006) Geo technical and structural Damages on the Indian Coast due to Tsunami caused by December 26, 2004 Sumatra Earthquake, *Earthquake Spectra*, Vol. 22(S3), pp. S475-S493.
88. Narayan, J. P., **M. L. Sharma** and B. K. Mahashwari (2006) Tsunami intensity mapping along the coast of Tamilnadu (India) during the deadliest Indian Ocean Tsunami of December 26, 2004, *Jour. of Pure and App. Geophysics, (PAGEOPH)*, Vol. 163(7), pp. 1279-1304.
89. Shambashiva Rao, **M. L. Sharma** and J. P. Narayan (2006) Scenario of ground motion amplification in Delhi, *Geological Society of India*, Vol. 68, pp. 993-1002.

90. Ameer, A. S., **M. L. Sharma**, H. R. Wason and S. A. Alsinawi, (2005) Preliminary seismic hazard assessment for Iraq using complete earthquake catalogue files, *Jour. of Pure and App. Geophysics (PAGEOPH)*, Vol. 162, pp. 951-966.
91. Maheshwari, B.K., **M.L. Sharma** and J. P. Narayan (2005) Structural Damages on the Coastline of Tamil Nadu due to Tsunamis caused by December 26, 2004 Sumatra Earthquake, *Jour. Indian Soc. Earthquake Tech.*, Vol. 42 (2-3), pp. 63-78.
92. Narayan, J. P. **M. L. Sharma** and B. K. Maheshwari (2005) Effects of Medu and Coastal topography on the damage pattern during the recent Indian Ocean Tsunami along the coast of Tamilnadu, *Science of Tsunami Hazard*, Vol. 23(2), pp. 9-18.
93. Narayan, J. P. **M. L. Sharma** and B. K. Maheshwari (2005) Run up and inundation patterns developed during the Indian Ocean Tsunami of December 26, 2004 along the coast of Tamilnadu, India, *Gondwana Research*, Vol. 8(4), October 2005
94. **Sharma, M. L.** (2005) A new empirical attenuation relationship for peak ground horizontal acceleration for Himalayan region using Indian and world wide data, *Jour. of Geophysics* , Vol. 26(3), pp. 151-158.
95. **Sharma, M. L.** and M. Arora (2005) Prediction of seismicity cycles in Himalayas using ANN, *Acta Geophysica Polonica* Vol. 53(3), pp. 299-309.
96. Paul, A., H. R. Wason, **M. L. Sharma**, C. C. Pant, A. Nirwan and H. B. Tripathi(2004) Seismotectonic implications of data recorded by DTSN in the Kumaun region of Himalaya, *Jour. Geol. Society of India*, Vol. 64, pp. 43-51.
97. **Sharma, M. L.** (2003) Seismic hazard in Northern India region *Seismological Research Letters*, Vol. 74(2), March/April 2003, pp. 140-146. (Impact factor: 1.826).
98. **Sharma, M. L.** and R. Dimri, (2003) Seismic hazard estimation and zonation of northern Indian region for bed rock ground motion, *Journal of Seismology and Earthquake Engineering*, Vol. 5(2), pp. 23-34
99. **Sharma, M. L.**, H. R. Wason and R. Dimri, (2003) Seismic zonation of Delhi for bed rock strong ground motion, *Jour. of Pure and App. Geophysics, (PAGEOPH)* Vol. 160, pp. 2381-2398.
100. Arora, M, V. K. M. Patel and **M. L. Sharma** (2002) SAR interferrometry for DEM generation, GIS development, June 2002, Vol. VI(6), pp. 26-28.
101. Narayan, J. P., **M. L. Sharma** and Ashwani Kumar (2002) A seismological report on the January 26, 2001 Bhuj, India earthquake, *Seismological Research Letters*, Vol. 73(3), May/June 2002, pp. 343-355. (Impact factor: 1.826).
102. Wason, H. R., **M. L. Sharma**, P. K. Khan, K. Kapoor, D. Nandini and V. Kara (2002) Analysis of initial aftershocks of Chamolli earthquake of March 29, 1999 using broadband data, *Himalayan Geology*, Vol. 23 (1&2), pp. 7-18.
103. **Sharma, M. L.** and D. Shanker (2001) Estimation of seismic hazard parameters for the Himalayas and its vicinity from mix data files, *ISSET Journal of Earthquake Technology* Vol. 38(2-4), pp. 93-102
104. Arora, M and **M. L. Sharma** (1998) Seismic hazard analysis - An Artificial Neural Network Approach, *Current Science*, Vol. 75(1), pp. 54-59

105. Paul, A., **M. L. Sharma** and V. N. Singh (1998) Estimation of focal parameters for Uttarkashi earthquake using peak ground horizontal accelerations, *ISET Journal of Earthquake Technology*, Vol. 35(1-3), pp. 1-8.
106. Shanker, D. and **M. L. Sharma** (1998) Estimation of seismic hazard parameters for the Himalayas and its vicinity from complete data files, *Journal of Pure and Applied Geophysics (PAGEOPH)*, Vol. 152(2), pp. 267-279.
107. Sharma, M. L. (1998) Attenuation relationship for estimation of peak ground horizontal acceleration using data from strong motion arrays in India, *Bull. Seism. Soc. Am.* Vol. 88, pp. 1063-1069.
108. Shanker, D. and **M. L. Sharma** (1997) Statistical analysis of completeness of seismicity data of the Himalayas and its effect on earthquake hazard determination, *Bull. Ind. Soc. Earthq. Tech.*, Vol. 34(3), pp. 159-170.
109. **Sharma, M. L.** and H. R. Wason, (1995) Seismic moment-magnitude relationship for the Garhwal Himalaya Region, *Bull. Ind. Soc. Earthq. Tech.*, Vol. 32(3), pp. 85-95
110. **Sharma, M. L.** and H. R. Wason. (1994) Occurrence of low stress drop earthquakes in Garhwal Himalaya region, *Physics of the Earth and Planetary Interior*, 85, pp. 265-272.
111. **Sharma, M. L.** (1992) Sample telemetered digital seismic array in Garhwal Himalaya -Software and data management, *Himalayan Seismicity Memoir No. 23, Geo. Soc. of India*, pp. 67-80.

International/ National Conferences/Symposia/Workshop – 198

1. Rawat, Deepak, **M. L. Sharma**, Roshan Kumar, Nishant Saxena, Atul Kumar and Abdul Kadir (2023). 6th International Conference on Signal Processing and Information Security (ICSPIS), IEEE, 27-32.
2. **Sharma, M. L.**, & Lallawmawma, C. (2023). Investigating the Influence of Local Site Conditions using topographic proxy for shear wave velocity on Seismic Risk. AGU23, Dec 11-15, 2023, San Francisco, USA.
3. Lallawmawma, C., Malsawmzuala, **Mukat Lal Sharma**, H. T. Vanlalzuithanga, Henry Lalchhuankima, P. Sanghnuna (2023). Assessing the Impact of the 2020 Earthquake in Tuipuiral, Mizoram: Implications for Seismic Safety Measures. IDRIM (2023), Roorkee, India.
4. **Sharma, M. L.** (2023) Seismic hazard assessment – A case study for Tehri Dam, August, 24-25, 2023, INCOLD, Seismic Response Analysis of Dam- Numerical Analysis, IIT Roorkee
5. Mudit Srivastava, **Mukat Lal Sharma** (2023). Comparison of Deterministic and Probabilistic framework for Vs30 estimation in data scarce region: a case study for Southern Bihar, India, EGU23 Vienna, Austria, EGU23-4108.
6. **Sharma, M. L.** (2022) Non-Uniform seismicity in Himalayas and its Implications towards seismic hazard & risk, Socio-Technological Aspect of Seismic Disaster Management, IIT Guwahati, June 20-22, 2022
7. C. Lallawama, **Mukat Lal Sharma** (2023). Scenario Seismic Risk assessment of 1934 Bihar-Nepal Earthquake, EGU23 Vienna, Austria, EGU23-10932.

8. Yaggesh Sharma, Arun Tyagi, **Mukat Lal Sharma**, Priyanka Sharma, Ashish Aggarwal (2023). Building Vulnerability Assessment using Artificial Intelligence for Landslide Susceptibility Zone in Champawat District, India, EGU23 Vienna, Austria, EGU23-1957.
9. Sharma, Y., Srivastava, M., Sharma, P., and Kumar, D.(2023) Deterministic Seismic Hazard Assessment by revisiting 1991 Uttarkashi and 1999 Chamoli Earthquake for Uttarakhand, India, EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-11563, <https://doi.org/10.5194/egusphere-egu23-11563>, 2023.
10. Subhash Chandra Gupta, **Mukat Lal Sharma**, Sanjay Kumar Jain, Arup Sen (2023). Temporal variation of Q_c and its implications in medium characterization, EGU23 Vienna, Austria, EGU23-15028.
11. Rathore, Govind, R.S. Jakka and **M. L. Sharma** (2022). Development of Earthquake Early Warning Dissemination System for Northern India, AGU Fall, Chicago, 2022.
12. Kumar, Pankaj, Kamal and **M. L. Sharma** (2022). Uttarakhand Earthquake Early Warning System: Performance and Validation, International Conference in Taiwan.
13. **Sharma, M. L.**, S. C. Gupta, A. Sen, S. K. Jain, A. K. Jindal, R. K. Vishnoi, A. Jain, V. Singh and S.K. Saxena (2022). Attributes of Local Seismicity Around Tehri Dam, ICOLD (International Commission on Large Dam).
14. **Sharma, M. L.**, S.C. Gupta, J. P. Narayan, J. Das, A. Sen, S. K. Jain, A. K. Jindal, Subhash Patel, Prajawal Tandekar, Avichal Rastogi, Rajeev Visnoi, Atul Jain, Virendra Singh and S.K. Saxena (2022). Local Seismicity around Tehri Dam, Garhwal Himalaya, 17th Symposium on Earthquake Engg., November 14-17, 2022, IIT Roorkee.
15. Rathore, Govind, P. Kumar, **M. L. Sharma**, Kamal, R. S. Jakka, and A. Kumar (2022). Development and Implementation of a Regional Earthquake Early Warning System in Northern India, 17th Symposium on Earthquake Engg., November 14-17, 2022, IIT Roorkee.
16. Kumar, P., Govind Rathore, Kamal, **M. L. Sharma**, R. S. Jakka, Pratibha and A. Kumar (2022). Early Warning System: An Efficient Earthquake Disaster Mitigation Tool, 17th Symposium on Earthquake Engg., November 14-17, 2022, IIT Roorkee.
17. Srivastava, M., and **M. L. Sharma** (2022). Assessment of Proxy-Based V_{s30} Estimation in Roorkee, Uttarakhand, 17th Symposium on Earthquake Engg., November 14-17, 2022, IIT Roorkee(pp. 379-387). Singapore: Springer Nature Singapore.
18. Kumar, D., Gaddale, S., Maurya, S., and Gupta, S. C.: Lithospheric imaging beneath North India using surface wave tomography, EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-4810, <https://doi.org/10.5194/egusphere-egu23-4810>, 2023.
19. Tyagi, A., R. R. Nath, **M. L. Sharma** and J. Das (2022). Seismically Induced Landslide Hazard Analyses for a Road Corridor in the Lower Himalayas, 17th Symposium on Earthquake Engg., November 14-17, 2022, IIT Roorkee (pp. 363-377). Singapore: Springer Nature Singapore.
20. Borah, M., **M. L. Sharma** and R. N. Dubey (2022). Probabilistic Seismic Hazard Assessment for Assam, North-East India, . In: Shrikhande, M., Agarwal, P., Kumar, P.C.A. (eds) Proceedings of 17th Symposium on Earthquake Engineering (Vol. 4). SEE 2022. Lecture Notes in Civil Engineering, vol 332. Springer, Singapore.

21. Ramhmachhuani, R., C. Lallawmawma, H. Laldintluanga, **M. L. Sharma**, K.S. Rao, A.K. Jain and Laldinpuia (2022). 2020 Tuipuiral Earthquake Review, 17th Symposium on Earthquake Engg., November 14-17, 2022, IIT Roorkee(pp. 437-451). Singapore: Springer Nature Singapore.
22. Kumar, Deepak, G. Suresh, S.C. Gupta, **M .L. Sharma** and Hasbi Ash Shiddiqi (2022). 1D Velocity Model for NW India in and around Delhi, 17th Symposium on Earthquake Engg., November 14-17, 2022, IIT Roorkee.
23. Lallawmawma, C., **M. L. Sharma** and J. Das (2022). Probabilistic Seismic Hazard Assessment of North East India, Proceedings 17th Symposium on Earthquake Engg., November 14-17, 2022, IIT Roorkee, (Vol. 4) (Vol. 332, p. 187). Springer Nature.
24. Modi. R., S. Mukhopadhyay and **M. L. Sharma** (2022). Three Dimensional crustal velocity structure of Tehri, Garhwal Himalaya, 17th Symposium on Earthquake Engg., November 14-17, 2022, IIT Roorkee.
25. Mahanta, Rinku, Vipul Silwal and **M.L. Sharma** (2022). Body waves and Surface waves derived Moment Tensor Catalog for Garhwal-Kumaon Himalayas, 17th Symposium on Earthquake Engg., November 14-17, 2022, IIT Roorkee.
26. GADRI Global Alliance of Disaster Research Institutes (GADRI) 13 to 15 march , 2019, Obaku Plaza, DPRI, Kyoto University, Uji Campus, Kyoto, Japan
27. Rawat, D., & Sharma, M. L. (2022, December). Seismological Monitoring of Landslide in North-West Himalayas. In AGU Fall Meeting Abstracts (Vol. 2022, pp. NH25D-0461).
28. Rathore, Govind, Kamal, Ashok Kumar, R.S. Jakka and **M. L. Sharma** (2022). AN innovative Dissemination system for earthquake early warning, 8th Asia Conference on Earthquake Engineering (8ACEE), Taipei, Taiwan.
29. Goswami, N., S. C. Gupta, Ashwani Kumar and **M. L. Sharma** (2022). Source and Path Characteristics of Chamoli Region, India, Conference of the Arabian Journal of Geosciences,187-190.
30. Kumar, D., Suresh, G, Sharma, M.L., and Gupta S.C., (2021). Crustal Velocity Structure of the Upper Indus Basin and the Adjoining area from the Surface Wave Group Velocity Dispersion, AGU Fall Meeting 2021 New Orleans, LA, USA, T41C-07.
31. **Sharma M. L.** and P. Sharma (2020). Site Characterization and Soil Structure Interaction with Deep Bedrock Depth in Indo-Gangetic Plains. 17th World Conference on Earthquake Engineering, 17WCEE, Sendai, Japan.
32. **Sharma, M. L.** and S. Bajaj (2020) Discordant Seismicity In Himalaya and Its Implications in Seismic Hazard Assessment For HE Projects, ICOLD(International Commission on Large Dam), 2020.
33. **Sharma. M. L.** and Neha Kumari (2020). Simulation of near field ground motion for western Himalaya region based on hybrid method, 17th World Conference on Earthquake Engineering, 17WCEE, Sendai, Japan.
34. Nath, R. R and **M. L. Sharma** (2020). Neotectonic motion and its implications on landslides in Himalayas, 17th World Conference on Earthquake Engineering, 17WCEE, Sendai, Japan.
35. **Sharma, M. L.** and S. Bajaj (2020). Time-dependent seismic hazard assessment for Nepal Himalayas 17th World Conference on Earthquake Engineering, 17WCEE, Sendai, Japan.

36. Sharma P., **Sharma M. L.**, & Sawant V. A. (2020). Ground Response Analysis with Deep Bedrock Depth in Indo- Gangetic Plains. 7th International Conference on Recent Advances in Geotechnical Earthquake Engineering.
37. Sharma P., **Sharma M. L.**, & Sawant V. A. (2020). Ground Response Analysis with Deep Bedrock Depth in Indo- Gangetic Plains. Lecture Notes in Civil Engineering, Springer.
38. Kumari, Neha and **M. L. Sharma**, (2019) Empirical relation of cumulative absolute velocity for Western Himalaya, Int. Conf. in Commemoration of 20th Ann of the 1999 Chi-Chi Earthquake Taipei, Sept 15-19, 2019.
39. Bajaj, S. and **M. L. Sharma**, (2019) Time dependent Probabilistic Seismic Hazard Assessment for Himalayan region, Int. Conf. in Commemoration of 20th Ann of the 1999 Chi-Chi Earthquake Taipei, Sept 15-19, 2019
40. Sharma P. and **Sharma M. L.** (2019). Comparison of Geophysical and Geotechnical Investigations of a Deep Soil Site in Indo-Gangetic Plains. 9th International Conference on Deep Foundation Technologies for Infrastructure Development in India, Hyderabad.
41. Chodudhary, C. and **M. L. Sharma** (2018). Implications of Constant Seismicity and Constant Moment Release Models on Seismic Hazard, Proc. of 16th Symp. on Earthquake Engg., December 20-22, 2018, IIT Roorkee, Paper No. 009.
42. Bajaj, S., and **M. L. Sharma** (2018). Time Dependent Probabilities for Earthquake Occurrence in Central Himalaya, Proc. of 16th Symp. on Earthquake Engg., December 20-22, 2018, IIT Roorkee, Paper No. 010.
43. **Sharma, M. L.** (2018) Earthquake Early Warning – a disaster mitigation strategy, Workshop on “ A New Perspective on Natural Hazard and Risk and Insurance, IIT Roorkee, May 02, 2018.
44. Sharma, P., **M. L. Sharma** and V.A. Sawant (2018). Site Characterization and Ground Response Analysis in Near and Far Fault Regions, Proc. of 16th Symp. on Earthquake Engg., December 20-22, 2018, IIT Roorkee, Paper No. 013.
45. Kumari, N., I.d. Gupta and **M.L. Sharma** (2018). Development of Arias Intensity Attenuation Relationship for Western Himalayas, Proc. of 16th Symp. on Earthquake Engg., December 20-22, 2018, IIT Roorkee, Paper No. 039.
46. Modi, R., S. Mukhopadhyay and **M.L. Sharma** (2018). 1D Crustal Velocity Model for Tehri, Garhwal Himalaya - using Travel Time Inversion of Local Earthquake Data, Proc. of 16th Symp. on Earthquake Engg., December 20-22, 2018, IIT Roorkee, Paper No. 113.
47. Mittal, H., Y.M. Wu, **M.L. Sharma**, T.L. Lin and B.M. Yang (2018). Shake Maps Generation for Delhi Region using Two Different Algorithms, Proc. of 16th Symp. on Earthquake Engg., December 20-22, 2018, IIT Roorkee, Paper No. 232.
48. Bajaj, S., **M. L. Sharma** and S. Gupta (2018). Implications of Time Dependent Seismic Hazard Assessment on Seismic Risk Evaluation – A Case Study for Active Seismic Region, Proc. of 16th Symp. on Earthquake Engg., December 20-22, 2018, IIT Roorkee, Paper No. 370.

49. Bajaj, Shweta; **Sharma, M. L.**, (2018). Time dependent conditional probability for recurrence of large and great earthquakes along the Indian subduction zone. 16th European Conference, Thessaloniki, 18-21 June, 2018.
50. Das, R., **M. L. Sharma**, H. R. Wason and D. Choudhury (2018). Uniform Moment Magnitude Scale, Proc. of 16th Symp. on Earthquake Engg., December 20-22, 2018, IIT Roorkee, Paper No. 400.
51. Kanaujia, Joytima, S. Mitra, Ashwani Kumar, **M.L. Sharma** and S.C. Gupta (2018). Crustal seismic anisotropy in the Garhwal Himalaya, Proc. of 16th Symp. on Earthquake Engg., December 20-22, 2018, IIT Roorkee, Paper No. 256.
52. Sen, A., S. C. Gupta, Ashwani Kumar and **M.L. Sharma** (2018). Local tectonic stress field in the environs of Main Frontal Thrust and Ganga Foredeep in the Garhwal Himalaya and its seismotectonic implications, Proc. of 16th Symp. on Earthquake Engg., December 20-22, 2018, IIT Roorkee, Paper No. 134.
53. Gupta, S. C., **M.L. Sharma**, A. Sen, A. K. Jindal and S. K. Jain (2018). Local seismicity around Etalin HE Project in Debang Valley, Arunachal Pradesh. Proc. of 16th Symp. on Earthquake Engg., December 20-22, 2018, IIT Roorkee, Paper No. 163.
54. Goswami, Neetu, S. C. Gupta, **M.L. Sharma**, A. Sen, A. K. Jindal and S. K. Jain (2018). Source characteristics of Local earthquakes occurring above MCT around Gangotri region. Proc. of 16th Symp. on Earthquake Engg., December 20-22, 2018, IIT Roorkee, Paper No. 158.
55. Kuri, manoj, Manoj Arora and **M.L. Sharma** (2018). Estimation of slope movement by PSInSAR technique at Koteswar reservoir area, India using Sentinel-1 dataset, ctive and Passive Microwave Remote Sensing for Environmental Monitoring- SPIE Remote Sensing symposium
56. Kuri, Manoj, Manoj Arora and **M.L. Sharma** (2018). Slope Stability Analysis in Nainital Town Using PS and QPS Technique, International Geoscience and remote sensing symposium, IGRASS-2018.
57. **Sharma, M. L.**, S. C. Gupta, A. K. Jindal, S. K. Jain, A. Sen and N. Kumari, H. L. Arora, P. Saxena, A.P. Vyas, R. Singh and Indu Pal (2018) Seismicity Studies for HE Projects –A case study of Tehri Dam, International Dam Safety Conference 2018, Jan 23-24, 2018 Thiruvananthapuram, Kerala.
58. **Sharma, M. L.** (2017) Earthquake Early Warning System in North India, One day Workshop on Disaster Resilient Infrastructure in the Himalayas: Opportunities and Challenges, Uttarkhand Government, Dehradun, Nov 21-22, 2017.
59. Kuri, Manoj, M.K. Arora, Atanu Bhattacharya and **M.L. Sharma** (2017). Microwave remote sensing based small baseline subset technique for estimation of slope movement in nainital area, India, Image Information Processing (ICIIP), 2017 Fourth International Conference, 21-23 December, 2017, 1-6.
60. Bhardwaj, Alok, Alan D Ziegler, Robert J Wasson, Winston Chow and **M.L. Sharma** (2017) Identification of trends in intensity and frequency of extreme rainfall events in part of the Indian Himalaya, EGU General Assembly Conference Abstracts, Vol. 19, April, 2017.
61. Sharma, P., V. A. Samant and **M. L. Sharma** (2017) Seismic Site Characterization of Roorkee for Deep Soil, AOGS 14th Annual Meeting 06 to 11 AUG, 2017, Singapore.

62. Pandey, Bhavesh, Ravi Jakka, Ashok Kumar and **M. L. Sharma** (2017) Site Characterization and Site Amplification Studies for Strong Motion Recording Stations of Kumaun Region of Uttarakhand, AOGS 14th Annual Meeting 06 to 11 AUG, 2017, Singapore.
63. Nath, R.R., Gautam Kumar, **M. L. Sharma** and S.C. Gupta (2017) Estimation of Bedrock Depth for a Part of Garhwal Himalayas Using Two Different Geophysical Techniques, AOGS 14th Annual Meeting 06 to 11 AUG, 2017, Singapore.
64. Kumari, Neha, **M. L. Sharma** and I. D. Gupta (2017) Stochastic Simulation of Strong Ground Motions for Western Himalaya Region, 16th World Conference on earthquake engineering, 2286(1-2).
65. Kuri, Manoj, Atanu Bhattacharya, Manoj K Aroora and **M. L. Sharma** (2016) Time series INSAR techniques to estimate deformation in a landslide-prone area in Haridwar region, India, Geoscience and Remote Sensing Symposium (IGARSS), 2016 IEEE, 6839-6842.
66. Nath, R. R., A. D. Pandey and **M. L. Sharma** (2016) Static and dynamic analysis of a Tailings dam, CESDOC 2016.
67. **Sharma, M. L.** and Neha Kumari (2016) Geophysical techniques in geotechnical earthquake engineering, 6th Int. Conf. on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics (6ICRAGEE), August 1- 6, 2016, IIT Roorkee Extension Centre, 20 Knowledge Park II, Greater Noida.
68. **Sharma, M. L.** and Neha Kumari (2016) Seismic hazard assessment – near source effects a NGA2 West perspective, One day workshop on probabilistic seismic hazard assessment for Nuclear Power Plants, NPCIL, Bombay, August 21-22, 2016.
69. Das, Ranjit, D. Choudhury, **M. L. Sharma** and H. R. Wason (2016) Uncertainty Analysis for Seismic Hazard- A Case Study for Northeast India. 6th Int. Conf. on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics (6ICRAGEE), August 1- 6, 2016, IIT Roorkee Extension Centre, 20 Knowledge Park II, Greater Noida.
70. **Sharma, M. L.** (2015), Seismic Hazard Assessment, National Workshop on Assessment & Mitigation of Liquefaction Hazards for Seismic Microzonation IIT Roorkee, November 27-28, 2015
71. **Sharma, M. L.**, A. K. Srivastava, D. K. Paul and J. Das, (2015) Characterization of deep soils and its effect on seismic microzonation, AOGS, Singapore, Aug, 01-08, 2015.
72. **Sharma, M. L.** (2015) Seismology, seismic and instrumentation, seminar on “Seismic Evaluation and Retrofitting on pre & post-Earthquake”, organized by Nepal Engineers Associates (NEA)” and “Society of Consulting Architectural and Engineering Firms (SCAEF)”, September 21, 2015, Kathmandu, Nepal.
73. **Sharma, M.L.**, Ashwani Kumar, S.C. Gupta, A.K. Jindal, Arup Sen, S.K. Jain, Neetu Goswami and Vandana (2014) “Earthquake Source Parameters and Focal Mechanism of Local Earthquakes around Tehri Region”, 15th Symposium on Earthquake Engineering. pp.1-13.
74. Vandana, S.C. Gupta, Ashwani Kumar and **M. L. Sharma** (2014) “Attenuation characteristics of the Bilaspur region of Himachal Lesser Himalaya”, 15th Symposium on Earthquake Engineering. pp. 28-36.

75. Kumari, Pushpa, A. Joshi and **M. L. Sharma** (2014) "Simulation of strong ground motion due to Mw 6.9 Sikkim earthquake using semi-empirical forward modeling", 15th Symposium on Earthquake Engineering. pp. 44-50.
76. Srivastava, A. K., **M. L. Sharma**, D. K. Paul, J. Das and R. Jakka (2014) "Deep soil characteristics in the vicinity of Himalayas", 15th Symposium on Earthquake Engineering. pp. 74-86.
77. **Sharma, M. L.**, A. K. Srivastava, D. K. Paul, J. Das and R. Jakka (2014) Seismic Microzonation on deep soils – A case study for Roorkee, India, Workshop Status of Natural Hazards in Himalachal Pradesh, CUHP, Nov. 06-08, 2014.
78. **Sharma, M. L.** (2014) Earthquake Early warning system –Present status in India, Workshop on Status of Natural Hazards in Himalachal Pradesh, CUHP, 06-08, 2014.
79. Das, Ranjit , **M. L. Sharma**, and H.R.Wason (2014) "Probabilistic seismic hazard assessment for northeast India", 15th Symposium on Earthquake Engineering. pp. 131-140.
80. **Sharma, M. L.** and A. Harbindu (2014), Ground motion prediction in Himalayas using observed and simulated datasets, 10th National Conference on Earthquake Engineering (10NCEE), Alaska
81. Bhardwaj, R., **M. L. Sharma** and Ashok Kumar (2014) Multi parameters based Earthquake Early Warning Algorithm, 10th National Conference on Earthquake Engineering (10NCEE), Alaska.
82. **Sharma, M. L.** (2014) Developments in earthquake engineering, One day workshop on Advances in Earth sciences and Earthquake Engineering, April 25th, 2014, CBIT, Hyderabad.
83. **Sharma, M. L.** (2014) Effect of deep soil on strong ground motion estimation, One day workshop on "Engineering of foundations for NPP structures in alluvial soils" January 24, 2014, NPCIL, Bombay.
84. **Sharma, M. L.** (2013) Reduction in seismic vulnerability in new buildings and existing structures in Uttarakhand, Workshop on Sustainable rehabilitation in Uttarakhand in light of the recent disaster, Institution of Engineers India, Dehradun, July 27, 2013.
85. **Sharma, M. L.** (2013) Seismic hazard in Northern India – A review, Indo-Taiwanese workshop on Earthquake Early warning system, Jan 18-19, 2013, Prithbhi Bhawan, Ministry of Earth Sciences, New Delhi.
86. **Sharma, M. L.**, Ashwani Kumar, S. C. Gupta, S. K. Jain, A. K. Jindal (2013) Seismological telemetered array in Garhwal Himalaya around Tehri dam, Indo-Taiwanese workshop on Earthquake Early warning system, Jan 18-19, 2013, Prithbhi Bhawan, Ministry of Earth Sciences, New Delhi.
87. Das, R., H. R. Wason, and **M. L. Sharma** (2012) General orthogonal regression in magnitude conversion for Dehradun and adjoining region, ISET Golden Jubilee Symposium, Oct 20-21, 2012, Roorkee.
88. Sinval, A., **M. L. Sharma**, Y. Singh and B. K. Maheshwari (2012) A brief report on damage survey of Sikkim earthquake of Sept 18, 2011, ISET Golden Jubilee Symposium, Oct 20-21, 2012, Roorkee.
89. Bhardwaj R., **M.L. Sharma** and A. Kumar (2012) "P-wave time window approach for EEW systems", National Workshop on Engineering Geophysics for Civil Engineering and Geo-hazards (EGCEG), CSIR- Central Building Research Institute, Roorkee.

90. Bhardwaj R, A. Kumar and **M. L. Sharma** (2012) Effect of Medium Characteristics in Magnitude Estimation for Earthquake early Warning Systems, ISET Golden Jubilee Symposium, Oct 20-21, 2012, Roorkee.
91. Bhardwaj R., Kumar A. and **M.L. Sharma** (2012) "Analysis of Tauc (τ_c) and Pd attributes for Earthquake Early warning in India". 15th World Conference on Earthquake Engineering, Lisbon. Paper no. 0696, 1-8.
92. **Sharma, M. L.**, B. K. Maheshwari, A. Sinhvai and Yogindra Singh (2012) Damage Pattern during Sikkim, India Earthquake of September 18, 2011, 15WCEE, 15th World Conference on Earthquake Engineering, Lisbon, Portugal, paper-4087, Sept23-28, 2012.
93. **Sharma, M. L.**, A. Herbindoo and Kamal (2012) Strong Ground Motion Prediction equation for Northwest Himalayan region based on stochastic approach, 15WCEE, 15th World Conference on Earthquake Engineering, Lisbon, Portugal, paper-1378, Sept23-28, 2012.
94. Das, R., H. R. Wason, and **M. L. Sharma** (2012). Homogenization of earthquake catalog in terms of unified moment magnitude using orthogonal regression relations. 15th World Conference on Earthquake Engineering, 24 to 28 September, 2012, Lisbon, Portugal.
95. Srinivasan, C. M. Willey, A. Herbindoo and **M. L. Sharma** (2012) Strong Ground Motion Prediction Equation for low magnitude and near-field earthquake data for shield region in India, 15WCEE, Lisbon, Portugal, paper-1382, Sept23-28, 2012.
96. Sachdeva, R, A. Kumar and **M. L. Sharma**, (2012) Estimation of peak ground acceleration using artificial neural network approach, 15WCEE, Lisbon, Portugal, paper-1847, Sept23-28, 2012.
97. Arora, M., K., A. Bhattacharya, and **M. L. Sharma** (2012). Application of multi-temporal SAR interferometry in landslide investigation, Geomatics-2012.
98. **Sharma, M. L.**, Arora, M. K., and Bhattacharya, A. (2012). Convergence rate estimation of Indian plate using advanced remote sensing technique, Geomatics-2012.
99. Bhattacharya A, M. K. Arora, **M. L. Sharma** (2012) A study of surface displacement estimation using Differential SAR Interferometry in the Himalayan Region. National Seminar on Geospatial Solutions for Resource Conservation and Management on 18-20 January, 2012.
100. Bhattacharya, A., M. K. Arora, and **M. L. Sharma** (2011). Detection of active landslide areas using Small Baseline subset Interferometry. National Conference on Recent Advances in Civil engineering, RACE. Varanasi, Oct 14-16 ISBN 978-81-921121-0-7, pp. 336-342.
101. Bhattacharya, A., M. K. Arora, and **M. L. Sharma** (2011). Landslides monitoring using Small Baseline SAR Interferometry technique. International Conference on Advances in Civil engineering. Vijayawara, AP, Oct 21-23.
102. Joshi, A., Pushpa Kumari, **M.L. Sharma**, A.K. Ghosh, M.K. Agarwal and A. Ravikiran, (2011) A modified technique for simulation of great earthquake: A case study of Sumatra earthquake, Transactions, SMiRT 21, 6-11 November, 2011, New Delhi (paper ID 835).
103. Kumar, A., R. Bhardwaj, H. Mittal and **M. L. Sharma** (2011)"Earthquake Early Warning System", Workshop on Disaster Mitigation and Management: Great Honshu, Japan Earthquake Mw = 9.0 of

March 11, 2011, Earthquake, Tsunami, Fire and Nuclear Radiation, (26-27 March 2011), COE_DMM, Roorkee.

104. Herbindoo, A., **M. L. Sharma** and Kamal (2011) "Strong motion synthetics using Green's function approach", Workshop on Disaster Mitigation and Management: Great Honshu, Japan Earthquake Mw = 9.0 of March 11, 2011, Earthquake, Tsunami, Fire and Nuclear Radiation, (26-27 March 2011), COE_DMM, Roorkee.
105. Bhattacharya, A., M. Arora and **M. L. Sharma** (2011) "Use of Synthetic Aperture Radar in Disaster mitigation", Workshop on Disaster Mitigation and Management: Great Honshu, Japan Earthquake Mw = 9.0 of March 11, 2011, Earthquake, Tsunami, Fire and Nuclear Radiation, (26-27 March 2011), COE_DMM, Roorkee.
106. Bhattacharya, A., Arora, M. K., and **M. L. Sharma** (2010) Application of SAR Interferometry for DEM generation: case studies in two regions with varied terrain conditions. Conference in Remote Sensing and GIS for Environmental Management. New Delhi, August 10, 1-16.
107. Singh, Abhishek, Kamal, **M.L. Sharma** and Sri Niwas (2010) Integrated geo-exploration over Solani knee-bend, NW Himalaya, 14 Symp. Earthquake Engineering, Roorkee, Dec 17-19, 2010, 62-71
108. Das, Ranjit, H.R. Wason and **M.L. Sharma** (2010) Regression relations towards unified moment magnitude earthquake catalogs for North-East India Region, 14 Symp. Earthquake Engineering, Roorkee, Dec 17-19, 2010, 72-79
109. Kumar, Ashwani, S.C. Gupta, **M.L. Sharma**, A.D. Pandey, A.K. Jindal, Sanjay Kr. Jain, Arup Sen, Arun Kumar and Neetu Goswami¹ (2010) Attributes of local seismicity of The Garhwal Himalaya, 14 Symp. Earthquake Engineering, Roorkee, Dec 17-19, 2010, 90-99
110. Sachdeva, Rajiv, Ashok Kumar, and **M.L.Sharma** (2010) Prediction of average shear wave velocity of site using strong ground motion records and ANN, 14 Symp. Earthquake Engineering, Roorkee, Dec 17-19, 2010, 126-137
111. Harbindu, Ashish, **M.L. Sharma**, Kamal (2010) Site-specific ground motion simulation using stochastic method, 14 Symp. Earthquake Engineering, Roorkee, Dec 17-19, 2010, 157-166
112. Venugopal, S., Ashok Kumar and **M.L. Sharma** (2010) Comparison of site specific PGA using neural networks and regression models, 14 Symp. Earthquake Engineering, Roorkee, Dec 17-19, 2010, 233-252
113. Joshi, G.C. and **M.L. Sharma** (2010) Probabilistic seismic hazard assessment of Delhi, 14 Symp. Earthquake Engineering, Roorkee, Dec 17-19, 2010, 253-259
114. Bhardwaj, Rakhi, Ashok Kumar and **M.L. Sharma** (2010) An algorithm for automatic detection of primary wave onset for early warning system, 14 Symp. Earthquake Engineering, Roorkee, Dec 17-19, 2010, 373-380
115. Bhasin, R., E. Erduran, J.J. Galiana-Merino, A.M. Kaynia, D.H. Lang, A.K. Mahajan, B.K. Maheshwari, A.K. Mundepi, D.K. Paul, **M.L. Sharma** and Y. Singh (2010) The Indo-Norwegian Institutional Cooperation on earthquake risk reduction, 14 Symp. Earthquake Engineering, Roorkee, Dec 17-19, 2010, 1306-1322

116. **Sharma, M. L.** and C. Lindholm (2010) Use of characteristic earthquake recurrence modelling for Himalaya Frontal Fault (HFF) in estimating the Earthquake hazard assessment for Dehradun, Uttarakhand, India, 14 Symp. Earthquake Engineering, Roorkee, Dec 17-19, 2010, 1323-1334
117. Bhargava, N., **M. L. Sharma**, V. K. Katiyar, and P. Pradhan (2010) Unusual animal behaviour due to acoustic waves generated by an earthquake, CONAPS XII, 12th Conference of the International Academy of Physical Sciences, Dec 22-24, 2010, University of Rajasthan, Jaipur.
118. Bhargava, N., **M. L. Sharma**, V. K. Katiyar, and P. Pradhan (2010) Electric Charge Developed by Seismic Stress on Earthquake Sources and Its Effect on Animals, 11th Conference of the International Academy of Physical Sciences, February 20 – 22, 2010, Allahabad.
119. **Sharma, M. L.** and C. Lindholm (2010) Seismological issues, Indo Norwegian Workshop on Earthquake hazard and risk reduction on the Indian subcontinent – towards an earthquake safe environment, August 18, 2010, ISC, New Delhi
120. Das, R., H. R. Wason and **M. L. Sharma** (2009) Analysis of temporal variation in the magnitude of completeness and its uncertainty for North East India region, 2nd Science Congress, New Delhi, Nov 3-5, 2009.
121. Das, R., H. R. Wason and **M. L. Sharma** (2009) Temporal variation in the magnitude of completeness and its uncertainty for North East India and adjoining region, Civil Engineering Conference – Innovation without limits (CEC-2009), Sept 18-19, NIT Hamirpur.
122. Bhargava, N., V. K. Katiyar, **M. L. Sharma** and P. Pradhan (2009) Earthquake prediction through animal behavior, National Conference on "Biomechanics" (NCBM - 2009), March 7-8, 2009, Roorkee
123. Tripathi, JN, P Singh, **M.L. Sharma**(2009) Variation of seismic coda attenuation characteristics in the Garhwal, northwestern Himalayas, IASPEI 2009, 10-16 Jan, 2009, Cape town, South Africa
124. **Sharma, M. L.** and R. Kumar (2008) Conditional probabilities of occurrence of moderate earthquakes in Indian region, 14th World Conference on Earthquake Engineering, Beijing, China.
125. Srinivasan, C., **M. L. Sharma**, J. Kotadia and Y. A. Willy (2008) Peak ground acceleration attenuation relationship for low magnitudes at short distances in south Indian region, 14th World Conference on Earthquake Engineering, Beijing, China.
126. Tripathi, J. N., Priyamvada Singh, **M. L. Sharma** (2008) Seismic attenuation characteristics of coda wave in the Garhwal, northwestern Himalayas, D32-07, 7th General Assembly of Asian Seismological Commission and Seismological Society of Japan
127. Pareek, N. and **M. L. Sharma** (2008) Some issues related to Differential Interferometric Synthetic Aperture Radar (DInSAR) technique for landslide studies in Garhwal Himalayas, LANDSLIDE MANAGEMENT – Present Scenario & Future Directions, Feb 10-12, 2008, C.B.R.I., Roorkee.
128. Bhattacharya, A., Pisal, Y., Kumar, A., and **M.L. Sharma**, (2007) "Development of Site Specific Response Spectrum for Roorkee Region", Proc. of the International Conference on Civil Engineering in the New Millennium: Opportunities and Challenges" (CENeM-2007), BESU, Shibpur, Howrah, Vol. I, pp. 410-416.

129. Ahmed, A., **M. L. Sharma** and A. Sharma (2007) AIC based Automatic Phase Picking for Broadband Seismological Data using Wavelet theory, 8th Pacific Conference on earthquake Engineering, Singapore, Dec 5-7, 2007
130. Pareek, N. and **M. L. Sharma** (2007) Study of displacement pattern in Garhwal Kumaoun Himalaya due to Chamolli earthquake of March 29, 1999, 8th Pacific Conference on earthquake Engineering, Singapore, Dec 5-7, 2007
131. Srinivasan, C., **M. L. Sharma** and Y. A. Willy (2007) Attenuation Relationship for Estimation of Peak Ground Horizontal Acceleration of Short Distances for Low Magnitudes, 8th Pacific Conference on earthquake Engineering, Singapore, Dec 5-7, 2007
132. Joshi, G. C. and **M. L. Sharma** (2006) Magnitude scale conversion relationships for Northern Indian region using bivariate analysis, 13 Symp. Earthquake Engineering, Roorkee, Dec 18-20, 2006, 307-314
133. Mahashwari, B. K., **M. L. Sharma** and J. P. Narayan (2006) Damage to ports and lifelines in Tamilnadu due to Indian ocean tsunami of December 2004, India Disaster Management Congress 2006, A1/20.
134. Pareek N, **M. L. Sharma** and M. Arora (2006) Differential SAR interferometry for land slide studies – An over view, Uttaranchal Science Congress, Nov 10-11, Dehradun, 2006
135. Malik, S., **M. L. Sharma** and D. D. Khandelwal (2006) Estimation of spectral strong ground motion for north east India using PSHA, 13 Symp. Earthquake Engineering, Roorkee, Dec 18-20, 2006, 137-147
136. Kumar, R, B. P. Tyagi, S. P. Sharma and **M. L. Sharma** (2006) Seismic hazard assessment in terms of conditional probabilities of occurrence of moderate earthquakes in Indian region using Weibull Distribution, 13 Symp. Earthquake Engineering, Roorkee, Dec 18-20, 2006, 326-334
137. Ahemed A., **M. L. Sharma** and Ambalika Sharma (2006) Wavelet based Automatic Phase Picking Algorithm for 3-Component Broadband Seismological Data, Workshop on Himalayan Earthquake: A fresh appraisal, HIMEQ-2006, Oct 7-8, 2006, Dehradun.
138. Lindholm, C., **M. L. Sharma** and S. Malik (2006) Seismic hazard estimation in Dehradun city, First European Conference on Earthquake Engineering and Seismology, Geneva, Sept 3-8, 2006
139. **Sharma, M. L.** and Shipra Malik (2006) Probabilistic seismic hazard analysis and estimation of spectral strong ground motion on Bed rock in North East India, 4th Int. Conf. Earthquake Engineering, Taipei, Taiwan, Oct 12-13, 2006.
140. **Sharma, M. L.** and H. Bungum (2006) New strong motion spectral acceleration relations for the Himalayan region, First European Conference on earthquake Engineering and Seismology, Geneva, Sept 3-8, 2006
141. **Sharma, M. L.** and H. Bungum (2006) Strong motion attenuation relationship for spectral acceleration for the Himalayan region, Indo Norwegian Workshop on Seismic hazard and risk Assessment, IHC, New Delhi, March 17-18, 2006.

142. **Sharma, M. L.**, Lindholm, C., S. Malik H. Bungum, A. Kaynia and A. Kumar (2006) Seismic Microzonation of Dehradun city, Indo Norwegian Workshop on Seismic hazard and risk Assessment, IHC, New Delhi, March 17-18, 2006.
143. **Sharma, M. L.**, A. Bhattacharya, H. Bungum and Ashok Kumar (2006) Definition of horizontal component of strong ground motion using Indian region data set, Indo Norwegian Workshop on Seismic hazard and risk Assessment, IHC, New Delhi, March 17-18, 2006
144. Kumar, R, B. P. Tyagi, S. P. Sharma and **M. L. Sharma** (2006) Estimation of conditional probabilities for earthquake occurrence in India, Int. Workshop on Electromagnetic Studies related to Earthquakes and Volcanoes, IWEMSEV2006, Agra
145. Tyagi, A., P. P. Pathak and **M. L. Sharma** (2006) Prediction of seismicity cycles using Artificial Neural Network, Int. Workshop on Electromagnetic Studies related to Earthquakes and Volcanoes, IWEMSEV2006, Agra.
146. Maheshwari, B. K., **M. L. Sharma** and J. P. Narayan (2006) Geotechnical aspects of damage due to Tsunami from December 26, 2004 Sumatra Earthquake, US National Conference on Earthquake Engineering, March, 2006.
147. Gupta, S., Sajhit, V. K., M. K. Arora and **M. L. Sharma**, (2006) Surface displacement studies using differential SAR interferometry: an overview, Proc. SPIE 6412, Disaster Forewarning Diagnostic Methods and Management, 64120N (December 12, 2006); doi:10.1117/12.693801
148. Ambulkar, P and **M. L. Sharma** (2005) Earthquake insurance and its importance to Indian sub-continent, World conf. on disaster reduction, IIT Bombay, Nov. 16-18, 2005, 214-222.
149. **Sharma, M. L.**, J. P. Narayan, Shipra Malik and D. D. Khandelwal (2005) Estimation of source parameters using broadband seismometry in Garhwal Kumaoun Himalaya, India, IZIS40, Conference on Earthquake Engineering in 21st Century, Skopje
150. **Sharma, M. L.** and Shipra Malik, (2005) Estimation of probabilistic seismic hazard in North East India, IZIS40, Conference on Earthquake Engineering in 21st Century, Skopje
151. Narayan J. P., **M. L. Sharma** and B. K. Maheshwari, (2005) Estimation of inundation and runup on Tamilnadu coast in India during December 26, 2004 Sumatra Earthquake, IZIS40, Conference on Earthquake Engineering in 21st Century, Skopje
152. Ameer, A. S., **M. L. Sharma**, H. R. Wason, A. Alsinawi (2005) Markov model for earthquake occurrence as implication in PSHA from revised Iraq seismicity catalogue Proc. Symp. On Seismic Hazard analysis and Microzonation, Sept. 23-24, Roorkee, 167-179.
153. Ameer, A. S., **M. L. Sharma**, H. R. Wason, A. Alsinawi (2005) Conversion of magnitudes for assessment of recurrence time in revised Iraq seismicity catalogue, Proc. Symp. On Seismic Hazard analysis and Microzonation, Sept. 23-24, Roorkee, 201-211.
154. Mahashwari, B. K., **M. L. Sharma** and J. P. Narayan (2005) Damages on the Indian coast due to Tsunami caused by the Sumatra earthquake : Geotechnical aspects, Proc. Symp. On Seismic Hazard analysis and Microzonation, Sept. 23-24, Roorkee, 421-434.

155. **Sharma, M. L.**, J. P. Narayan and B. K. Maheshwari (2005) Effects of tsunami on the Indian coastal region of Tamil Nadu, Chapter in report on 'Sumatra Earthquake of December 26, 2004', Department of Earthquake Engineering, IITR, Roorkee, (unpublished)
156. Javed, A, **M. L. Sharma** and D. K. Paul (2005) Seismic hazard estimation in Northern most region of India, Proc. Symp. On Seismic Hazard analysis and Microzonation, Sept. 23-24, Roorkee, 359-367.
157. Ameer, A. S., **M. L. Sharma**, H. R. Wason, A. Alsinawi (2005) Comparative PSHA and risk evaluation using Asymptotic Extreme Theory (GI and GIII) and G-R formula for Iraq, Gulf Seismic Forum-2005, Seismology and Earthquake Studies in the Eastern Arabian Plate region, 20-23 Feb, 2005, Al-Ain, UAE
158. Prabu, I, S. Bannerji, A. Maji, **M. L. Sharma**, J. P. Narayan and D. K. Paul (2004) Application of GIS and GPS techniques for microzonation of IIT-Roorkee campus using Nakamura's H/V technique, 7th Annual ESRI, India Conference, December 2-3, 2004.
159. Ghosh, S. K, J. Niwas and **M. L. Sharma** (2004) Development of interface for seismicity data and preliminary seismic hazard assessment, 7th Annual ESRI, India Conference, December 2-3, 2004.
160. **Sharma M. L.**, and H. R. Wason(2004) Estimation of seismic hazard and seismic zonation at bed rock level for Delhi region, India, 13WCEE, Vancouver, Aug. 1- 6, 2004, paper 2043, p1-13.
161. **Sharma M. L.**, J. P. Narayan and K.S. Rao (2004), Seismic microzonation of Delhi region in India, , 13WCEE, Vancouver, Aug. 1- 6, 2004, paper 2046, p1-13.
162. Ameer, A. S., **M. L. Sharma**, H. R. Wason and S. A. Alsinawi(2004) Seismic hazard characterization and risk evaluation using Gumbel's method of extremes (g1 and g3) and g-r formula for Iraq, 13WCEE, Vancouver, Aug. 1- 6, 2004, paper 2898, p1-13.
163. Narayan, J. P. and **M. L. Sharma** (2004) Effects of local geology on damage severity during Bhuj earthquake of January 26, 2001, India, 13WCEE, Vancouver, Aug. 1- 6, 2004, paper 3333, p1-13.
164. **Sharma, M. L.**, (2003) Estimation of spectral strong ground motion using strong motion data from the Himalayas, HIMPROB_2003, 82-83.
165. Narayan, J. P., **M. L. Sharma** and Ashwani Kumar (2003) Local Site effects observed during Bhuj earthquake, Workshop on Bhuj Earthquake, IIT Kanpur, January 27-29.
166. Ameer, A. S., **M. L. Sharma** and H. R. Wason (2002) Completeness of earthquake catalogue and its implications in earthquake hazard estimation – a case study for Iraq. 12 Symposium on Earthquake Engineering, Roorkee, Dec. 16-18, 2002, Vol I, 342-349
167. Ameer, A. S., **M. L. Sharma** and H. R. Wason (2002) Maximum likelihood estimation of seismic hazard for Iraq from complete data files, 12 Symposium on Earthquake Engineering,, Roorkee, Dec. 16-18, 2002, Vol I, 306-310.
168. Narayan, J. P., **M. L. Sharma** and Ashwani Kumar (2002) Damage survey report: Bhuj earthquake, January 26, 2001, 12 Symposium on Earthquake Engineering, Roorkee, Dec. 16-18, 2002, Vol II, 727-736.

169. Saini S., **M. L. Sharma** and S. Mukhopadhyay (2002) Strong ground motion empirical attenuation relationship for seismic hazard estimation in Himalaya region, 12 Symposium on Earthquake Engineering, Roorkee, Dec. 16-18, Vol I, 143-150.
170. **Sharma, M. L.**, M. Khan and M. K. Arora (2002) A GIS based approach for seismic hazard assessment, Asian Seismological commission 2002, Symp. On Seismology, earthquake hazard assessment and risk management, 24-26 Nov, 2002, kathmandu, Nepal, p-43
171. **Sharma, M. L.** and M. Arora (2002) Cyclic behavior of seismicity in the Himalayas and its prediction using ANN, Asian Seismological commission 2002, Symp. On Seismology, earthquake hazard assessment and risk management, 24-26 Nov, 2002, Kathmandu, Nepal, p-158-159.
172. **Sharma, M. L.**, (2002) Seismic Microzonation of Mega cities, Indo-China joint workshop on Natural disasters, Jan. 21-23, 2002, New Delhi.
173. Wason, H. R., **M. L. Sharma** and D. Nandini (2001) Aftershock activity of the Chamoli earthquake of march 29, 1999 recorded by broadband seismograph stations, Proc. Workshop on recent earthquakes of Chamoli and Bhuj, May 24-26, Roorkee, Vol. I, pp29-39.
174. **Sharma, M. L.**, (2001) The Bhuj Earthquake of January 26, 2001 – Seismotectonic Implications, Proc. Workshop on recent earthquakes of Chamoli and Bhuj, May 24-26, Roorkee, Vol II, pp353-358.
175. **Sharma, M. L.**, (2001) Seismotectonic implications of Chamoli earthquake of March 29, 1999, Proc. Workshop on recent earthquakes of Chamoli and Bhuj, May 24-26, Roorkee, Vol II, pp359-368.
176. **Sharma, M. L.**, M. Arora and Y. V. Raju (2001) Seismic hazard analysis of the Himalayan region using Artificial Neural Network, International Conference on Seismic Hazard with particular reference to Bhuj earthquake of January 26, 2001, New Delhi, Abstract Vol., pp. 280-282.
177. Narayan, J. P., A. Kumar and **M. L. Sharma** (2001) Seismological aspects of Bhuj earthquake of January 26, 2001, Chapter 1, in report on Bhuj earthquake of Jan. 26, 2001, Department of Earthquake Engineering, IIT Roorkee.
178. **Sharma, M. L.** and R. G. K. Nath (2001) Attenuation relationship for peak ground horizontal acceleration for Indian region, International Conference on Seismic Hazard with particular reference to Bhuj earthquake of January 26, 2001, New Delhi, Abstract Vol., pp333-335.
179. Narayan, J. P., **M. L. Sharma**, A. Kumar (2001) Damage scenario of Bhuj earthquake, Jan. 26, 2001, News Letter, Indian Soc. Earthquake Tech., April-Oct., 2001, pp27-29.
180. **Sharma, M. L.** (2000) Attenuation relationship for estimation of peak ground vertical acceleration using data from strong motion arrays in India, 12th World conference on Earthquake Engineering, New Zealand, 1964/ 4 / A, pp1-8.
181. Wason, H. R. and **M. L. Sharma**, (2000) Source parameter studies of local earthquakes in the Garhwal Himalaya region based on the digital broad band data, 12th World conference on Earthquake Engineering, New Zealand, 1776 / 4 / A, pp 1-8.

182. Wason, H. R., **M. L. Sharma**, P. K. Khan, Kamal Kapoor, D. Nandini and V. Kara (2000) A preliminary analysis of broadband seismic data of Chamolli earthquake and its aftershock sequence, Lessons learnt from Chamolli earthquake, Abstract Vol. WIHG, Dehradun, pp 37
183. Kumar, A., A. D. Pandey, **M. L. Sharma**, S. C. Gupta, A. K. Jindal and S. K. Jain (1998) Pattern of two earthquake swarms in the Garhwal Himalaya, XIth Symposium on Earthquake Engineering, Roorkee, pp 67-74.
184. Wason, H. R., **M. L. Sharma**, A. K. Gupta and Kamal Kapoor (1998) A preliminary analysis of broad band data in the Garhwal Himalaya region, XIth Symposium on Earthquake Engineering, Roorkee, pp 85-100.
185. Shanker, D. and **M. L. Sharma** (1998) Maximum Likelihood estimation of seismic hazard parameters in the Himalaya and its vicinity from mixed data, Geosciences - 98, University of Keel, UK, April 14-18.
186. Shanker, D. and **M. L. Sharma** (1997) Estimation of seismic hazard parameters for the North East India and its surrounding region, Proc. Workshop on Earthquake Disaster Preparedness, Roorkee, Oct 13-14, 1997, pp 49-58.
187. Shanker, D. and **M. L. Sharma** (1997) Estimation of seismic hazard parameters for the Himalayas and its vicinity from complete data files, Workshop, W5- New concepts and procedures in earthquake hazard estimation, 29th General Assembly of IASPEI, Thessaloniki, Greece, Aug 18-28, pp 303.
188. Kumar, A., A. D. Pandey, **M. L. Sharma**, S. C. Gupta, A. K. Jindal and S. K. Jain (1997) Contemporary local seismicity in the Garhwal Himalaya, Proc. Workshop on Earthquake Disaster Preparedness, Roorkee, Oct 13-14, 1997, pp 39-48
189. **Sharma, M. L.** and P. N. Agrawal (1994) A comparative study of few attenuation relationships, Proc. Xth Symposium of Earthquake Engineering, Roorkee, Nov. 16-18, Vol I, pp 169-175.
190. Kumar, A., A. D. Pandey, **M. L. Sharma**, S. C. Gupta, A. Kumar, B. K. Gupta.(1994) Preliminary processing and interpretation of digital data obtained from digital seismic array in Garhwal Himalaya, Proc. Xth Symposium of Earthquake Engineering, Roorkee, Nov. 16-18, Vol I, pp 141-152.
191. **Sharma, M. L.** and H. R. Wason (1994) APP - An automatic phase picking algorithm developed for digital telemetered seismic array data, Proc. Xth Symposium of Earthquake Engineering, Roorkee, Nov. 16-18, Vol I, pp 159-168.
192. **Sharma, M. L.** (1993) Automatic phase pickers, Proc. UNESCO International course on Seismology and Seismic risk assessment, Nov. 1-Dec. 4, Roorkee, 100-110.
193. **Sharma, M. L.** and L. S. Srivastava (1992) Automation in earthquake monitoring, National Seminar on Automation in Metrology, National Physical Laboratory, New Delhi, Feb 19-21.
194. **Sharma, M. L.**, S. C. Gupta and H. R. Wason (1990) An automatic phase picker for earthquakes, Proc. International Conf. on Automatic Robotics and Computer Vision, Singapore, pp 247-250

195. **Sharma, M. L.** and H. R. Wason (1989) Data acquisition aspects of digital telemetered micro earthquake networks, presented in Silver Jubilee Symp. of ISET, Roorkee, Feb. 25-26.
196. Srivastava, L. S., **M. L. Sharma**, A. D. Pandey and H. R. Wason, (1989) A digital telemetered seismic array in the Himalayas, Abstract 25th General Assembly of IASPEI, Istanbul, Turkey, Aug. 21st-Sept. 1st, pp 643.
197. **Sharma, M. L.**, H. R. Wason and L. S. Srivastava (1987) Telemetered digital seismic event recording system, Proc. VIth Indian Geological Congress, Roorkee, Feb. 21-24, pp 127-130.
198. Wason, H. R., **M. L. Sharma**, Kirat Pal and L. S. Srivastava (1986) Digital telemetered array in Ganga Yamuna Valley, Proc. 8th Symp. on Earthquake Engineering, Roorkee, Dec 29-31, pp 91-99.

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1. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 20243-02 (2024), "Seismological Network Around Tehri Region", Preliminary Seismological and Strong Motion Ground Bulletin (from Oct. 2023 to Dec. 2023), Department of Earthquake Engineering, IIT Roorkee.
2. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2024-01 (2024), "Seismological Network Around Tehri Region", Preliminary Seismological and Strong Motion Ground Bulletin (from Jan. 2022 to Dec. 2022), Department of Earthquake Engineering, IIT Roorkee.
3. **Sharma, M.L.**, Manish Shrikhande, J. Das and B.K. Maheshwari, EQ: 2023-17 (2023), Site Specific Earthquake Parameters for Reoli Dugli, HEP, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee.
4. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2023-16 (2023), "Seismological Network Around Tehri Region", Preliminary Seismological and Strong Motion Ground Bulletin (from July 2023 to Sept. 2023), Department of Earthquake Engineering, IIT Roorkee.
5. **Sharma, M.L.**, Manish Shrikhande, J. Das and B.K. Maheshwari, EQ: 2023-15 (2023), Site Specific Earthquake Parameters for Kaputhala Cable Stayed Bridge Project Site, Punjab, Department of Earthquake Engineering, IIT Roorkee.
6. **Sharma, M.L.**, Manish Shrikhande, J. Das and B.K. Maheshwari, EQ: 2023-14 (2023), Site Specific Earthquake Parameters for Installation of 1X600 MW unit at Amarkantak Thermal Power Station, Chachai, Madhya Pradesh, Department of Earthquake Engineering, IIT Roorkee.
7. **Sharma, M.L.**, Manish Shrikhande, J. Das and B.K. Maheshari, EQ: 2023-13 (2023), Site Specific Earthquake Parameters for Installation of 1X660 MW unit at Satpura Thermal Power Station, Sarni, Madhya Pradesh, Department of Earthquake Engineering, IIT Roorkee.
8. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2023-12 (2023), "Seismological Network Around Tehri Region", Preliminary Seismological and Strong Motion Ground Bulletin (from April 2023 to June 2023), Department of Earthquake Engineering, IIT Roorkee
9. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2023-11 (2023), "Seismological Network Around Tehri Region", Preliminary Seismological and Strong Motion Ground Bulletin (from January 2023 to March 2023), Department of Earthquake Engineering, IIT Roorkee
10. **Sharma, M.L.**, Manish Shrikhande, Y. Singh, J. Das, Ritesh Kumar, P. C. Ashwin and Mr. Shikhar Prakash, EQ: 2023-10 (2023), Site Specific Earthquake Parameters for New 2-lane Major Bridge

Including Approach over Brahmaputra River between Majuli on North Band and Jorhat on South Bridge, Majuli, Assam, Department of Earthquake Engineering, IIT Roorkee.

11. **Sharma, M.L.**, Y. Singh, J. Das, Varun Kumar Singla and Mr. Shikhar Prakash, EQ: 2023-09 (2023), Site Specific Earthquake Parameters for Kapurthala Cable Stayed Bridge Site, Punjab, Department of Earthquake Engineering, IIT Roorkee.
12. **Sharma, M.L.**, Manish Shrikhande, J. Das and R.S. Jakka, EQ: 2023-05 (2023), Site Specific Earthquake Parameters for Bhavali Pumped Storage Project, Maharashtra, Department of Earthquake Engineering, IIT Roorkee.
13. **Sharma, M.L.**, Manish Shrikhande, B.K. Maheshwari and J. Das, EQ: 2023-04 (2023), Site Specific Earthquake Parameters for Somasila Project, Andhra Pradesh, Department of Earthquake Engineering, IIT Roorkee.
14. **Sharma, M.L.**, S. C. Gupta, J. Das, Dr. Arup Sen, Dr. Sanjay K. Jain and Dr. A. K. Jindal, EQ: 2023-03 (2023), MEQ Studies around Ratle, HE Project, Kishtwar, J & K, Department of Earthquake Engineering, IIT Roorkee.
15. **Sharma, M. L.**, Manish Shrikhande, J. Das, R.S. Jakka, S. C. Gupta and Saurabh Shiradhonkar, EQ: 2023-02 (2023), Site Specific Earthquake Parameters for Kishau HEP, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee.
16. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2023-01 (2023), "Seismological Network Around Tehri Region", Preliminary Seismological and Strong Motion Ground Bulletin (from October 2022 to December 2022), Department of Earthquake Engineering, IIT Roorkee.
17. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2022-11 (2022), "Seismological Network Around Tehri Region", Preliminary Seismological and Strong Motion Ground Bulletin (from July 2022 to September 2022), Department of Earthquake Engineering, IIT Roorkee.
18. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2022-10 (2022), "Seismological Network Around Tehri Region", Preliminary Seismological and Strong Motion Ground Bulletin (from January 2021 to December 2021), Department of Earthquake Engineering, IIT Roorkee.
19. **Sharma, M.L.**, S. C. Gupta, J. Das, Dr. Arup Sen, Dr. Sanjay K. Jain and Dr. A. K. Jindal, EQ: 2022-09 (2022), MEQ Studies around ARUN-3, HEP, Nepal, Department of Earthquake Engineering, IIT Roorkee.
20. **Sharma, M.L.**, S. C. Gupta, J. Das, Dr. Arup Sen, Dr. Sanjay K. Jain and Dr. A. K. Jindal, EQ: 2022-08 (2022), MEQ Studies around Dugar, HEP, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee.
21. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2022-07 (2022), "Seismological Network Around Tehri Region", Preliminary Seismological and Strong Motion Ground Bulletin (from April 2022 to June 2022), Department of Earthquake Engineering, IIT Roorkee.
22. **Sharma, M. L.**, Manish Shrikhande, J. Das, R.S. Jakka, S. C. Gupta and Saurabh Shiradhonkar, EQ: 2022-06 (2022), Site Specific Earthquake Parameters for Doongri Dam, Rajasthan, Department of Earthquake Engineering, IIT Roorkee.
23. **Sharma, M. L.**, Manish Shrikhande, J. Das, R.S. Jakka, S. C. Gupta and Saurabh Shiradhonkar, EQ: 2022-05 (2022), Site Specific Earthquake Parameters for Kunnu Barrage, Rajasthan, Department of Earthquake Engineering, IIT Roorkee.
24. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2022-03 (2022), "Seismological Network Around Tehri Region", Preliminary Seismological and Strong Motion Ground Bulletin (from January 2022 to March 2022), Department of Earthquake Engineering, IIT Roorkee.

25. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2022-01 (2022), "Seismological Network Around Tehri Region", Preliminary Seismological and Strong Motion Ground Bulletin (from October 2021 to December 2021), Department of Earthquake Engineering, IIT Roorkee
26. Singh, Y., **M. L. Sharma**, J. P. Narayan, Manish Shrikhande, B. K. Maheshwari and J. Das, EQ: 2021-10 (2021), Site Specific Earthquake Parameters for Railway Bridge Project Sites, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
27. **Sharma, M. L.**, Manish Shrikhande, J. Das, R.S. Jakka, S. C. Gupta and Saurabh Shiradhonkar, EQ: 2021-08 (2021), Site Specific Earthquake Parameters for Hirakund Dam, Odisha, Department of Earthquake Engineering, IIT Roorkee
28. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2021-07 (2021), "Seismological Network Around Tehri Region", Preliminary Seismological and Strong Motion Ground Bulletin (from July 2021 to Sept 2021), Department of Earthquake Engineering, IIT Roorkee
29. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2021-05 (2021), "Seismological Network Around Tehri Region", Preliminary Seismological and Strong Motion Ground Bulletin (from April 2021 to June 2021), Department of Earthquake Engineering, IIT Roorkee
30. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2021-04 (2021), "Seismological Network Around Tehri Region", report on Processing and Interpretation of seismological data collected from January 2020 to December 2020, Department of Earthquake Engineering, IIT Roorkee
31. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2021-03 (2021), "Seismological Network Around Tehri Region", Preliminary Seismological and Strong Motion Ground Bulletin (from Jan 2021 to March 2021), Department of Earthquake Engineering, IIT Roorkee
32. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2021-01 (2021), "Seismological Network Around Tehri Region", Preliminary Seismological and Strong Motion Ground Bulletin (from October 2020 to December 2020), Department of Earthquake Engineering, IIT Roorkee
33. Singh, Y., **M. L. Sharma**, J. Das, B. K. Maheshwari, S.C. Gupta, Saurabh Shiradhonkar and Kavan Modha, EQ: 2020-18 (2020), Site Specific Earthquake Parameters for Kochi Polyols Petrochemicals Refinery Project, Kerala, Department of Earthquake Engineering, IIT Roorkee
34. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2020-17 (2020), "Seismological Network Around Tehri Region, Preliminary Seismological and Strong Motion Ground Bulletin (from July 2020 to Sept 2020), Department of Earthquake Engineering, IIT Roorkee
35. Singh, Y., **M. L. Sharma**, J. Das, B. K. Maheshwari, S.C. Gupta and Kavan Modha, EQ: 2020-16 (2020), Site Specific Earthquake Parameters for Cable stay bridge Mumbai-Pune Express way project, Maharashtra, Department of Earthquake Engineering, IIT Roorkee
36. Singh, Y., **M. L. Sharma**, J. Das, B. K. Maheshwari, R. S. Jakka, Daya Shankar, P.C. Ashwin Kumar, Jithin Zachariah and Kavan, EQ: 2020-14 (2020), Site Specific Earthquake Parameters study for Shatoot Dam, Afghanistan, Department of Earthquake Engineering, IIT Roorkee
37. Singh, Y., **M. L. Sharma**, J. Das, B. K. Maheshwari, R. S. Jakka, Daya Shankar, P.C. Ashwin Kumar, Jithin Zachariah and Kavan, EQ: 2020-12 (2020), Site Specific Earthquake Parameters for Noida Habitat and Convention Center, Noida, Department of Earthquake Engineering, IIT Roorkee
38. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2020-09 (2020), "Seismological Network Around Tehri Region, Preliminary Seismological and Strong Motion Ground Bulletin (from January 2019 to December 2019), Department of Earthquake Engineering, IIT Roorkee

39. Singh, Y., **M. L. Sharma**, J. Das, R.S. Jakka, S. C. Gupta, Saurab Shiradhonkar and Kavan Modha, EQ: 2020-08 (2020), Site Specific Earthquake Parameters for Brahmaputra Bridge Project Site, Guwahati, Assam, Department of Earthquake Engineering, IIT Roorkee
40. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2020-04 (2020), "Seismological Network Around Tehri Region, Preliminary Seismological and Strong Motion Ground Bulletin (from Oct 2019 to Dec 2019), Department of Earthquake Engineering, IIT Roorkee
41. **Sharma, M.L.**, M. Shrikhande, J. Das, S.C. Gupta and P. C. Ashwin, EQ: 2020-03 (2020), Site Specific Earthquake Parameters for Luhri-II HE Project, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
42. Singh, Y., **M. L. Sharma**, M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and P. C. Ashwin, EQ: 2020-01 (2020), Site Specific Earthquake Parameters for Talabira TPP, Odisha, Department of Earthquake Engineering, IIT Roorkee
43. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2019-24 (2019), "Seismological Network Around Tehri Region, Preliminary Seismological and Strong Motion Ground Bulletin (from July 2019 to Sept 2019), Department of Earthquake Engineering, IIT Roorkee
44. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2019-23 (2019), "Seismological Network Around Tehri Region, Preliminary Seismological and Strong Motion Ground Bulletin (from January 2018 to December 2018), Department of Earthquake Engineering, IIT Roorkee
45. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, , EQ: 2019-21 (2019), "Seismological Network Around Tehri Region, Preliminary Seismological and Strong Motion Ground Bulletin (from April 2019 to June 2019), Department of Earthquake Engineering, IIT Roorkee
46. Singh. Y., **M. L. Sharma**, M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and R.S. Jakka, EQ: 2019-20 (2019), Site Specific Earthquake Parameters for Bokang-Bailing, project site, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
47. Agarwal, Pankaj, **M. L. Sharma**, M. Shrikhande, J. P. Narayan, J. Das, R. N. Dubey and Daya Shankar, EQ: 2019-19 (2019), Site Specific Earthquake Parameters for Indrapuri Dam project site, Bihar, Department of Earthquake Engineering, IIT Roorkee
48. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, : 2019-18 (2019), "Seismological Network Around Tehri Region, Preliminary Seismological and Strong Motion Ground Bulletin (from Jan 2019 to Mar 2019), Department of Earthquake Engineering, IIT Roorkee
49. Singh. Y., **M. L. Sharma**, S. C. Gupta, B. K. Maheshwari and J. Das, EQ: 2019-17 (2019), Site Specific Earthquake Parameters for Isarda Dam project site, Rajasthan, Department of Earthquake Engineering, IIT Roorkee
50. **Sharma, M. L.**, S.C. Gupta, J. Das and A. K. Jindal, EQ: 2019-16 (2019), Microearthquake Studies around Thana Plaun H.E. Project, Himachal Pradesh, Report on processing and interpretation of Seismological Data collected from Oct 2018 to April 2019, Department of Earthquake Engineering, IIT Roorkee
51. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, , EQ: 2019-15 (2019), "Seismological Network Around Tehri Region, Preliminary Seismological and Strong Motion Ground Bulletin (from Oct 2018 to Dec 2018), Department of Earthquake Engineering, IIT Roorkee
52. Singh. Y., **M. L. Sharma**, J. Das, B. K. Maheshwari and S. C. Gupta, EQ: 2019-14 (2019), Site Specific Earthquake Parameters for One Indiabull building project site, Gurgaon, Department of Earthquake Engineering, IIT Roorkee
53. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2019-12 (2019), "Seismological Network Around Tehri Region, Preliminary Seismological and Strong Motion Ground Bulletin (from July 2018 to Sept 2018), Department of Earthquake Engineering, IIT Roorkee

54. Singh. Y., **M. L. Sharma**, S. C. Gupta, B. K. Maheshwari and J. Das, EQ: 2019-11 (2019), Site Specific Earthquake Parameters for Chhatrapati Shivaji Maharaj Memorial Mumbai, Project, Mumbai, Department of Earthquake Engineering, IIT Roorkee
55. Singh. Y., **M. L. Sharma**, M. Shrikhande, B. K. Maheshwari, J. Das, J.P. Narayan, S.C. Gupta, R.S. Jakka, Daya Shanker and R. N. Dubey, EQ: 2019-10 (2019), Site Specific Earthquake Parameters for 16 Bridges of Karanpryag Railway Rishikesh, Project, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
56. Singh. Y., **M. L. Sharma**, M. Shrikhande, B. K. Maheshwari, J. Das, J.P. Narayan, S.C. Gupta, R.S. Jakka, Daya Shanker and R. N. Dubey, EQ: 2019-09 (2019), Site Specific Earthquake Parameters for Rishikesh-aKaranprayag railway Bridge, Project, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
57. **Sharma, M. L.**, S.C. Gupta, J. Das and A. K. Jindal, EQ: 2019-08 (2019), Microearthquake Studies around Umngot H.E. Project, Meghalaya, Report on processing and interpretation of Seismological Data collected from January to August 2018., Department of Earthquake Engineering, IIT Roorkee
58. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2019-07 (2019), "Seismological Network Around Tehri Region, Report on processing and interpretation of Seismological Data collected from January 2017 to December 2017, Department of Earthquake Engineering, IIT Roorkee
59. Singh. Y., **M. L. Sharma**, M. Shrikhande, J. Das, R.S. Jakka and R. N. Dubey, EQ: 2019-06 (2019), Site Specific Earthquake Parameters for Jakol Sankri H.E. Project, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
60. Singh. Y., **M. L. Sharma**, M. Shrikhande, J.P. Narayan, B. K. Maheshwari and J. Das, EQ: 2019-04 (2019), Site Specific Earthquake Parameters for Battisa Nalla Multipurpose Project Site, Rajasthan, Department of Earthquake Engineering, IIT Roorkee
61. Singh. Y., **M. L. Sharma**, M. Shrikhande, B. K. Maheshwari, J. Das and S.C. Gupta, EQ: 2019-03 (2019), Site Specific Earthquake Parameters for Navnera Barrage Project Site, Rajasthan, Department of Earthquake Engineering, IIT Roorkee
62. Singh. Y., **M. L. Sharma**, M. Shrikhande, J. Das, R.S. Jakka and Daya Shanker, EQ: 2019-02 (2019), Site Specific Earthquake Parameters for Parwan Major Irrigation and Drinking Water Project Site, Rajasthan, Department of Earthquake Engineering, IIT Roorkee
63. Singh. Y., **M. L. Sharma**, M. Shrikhande, J. P. Narayan, J. Das and R.S. Jakka, EQ: 2019-01 (2019), Site Specific Earthquake Parameters for Ujh Multipurpose Hydroelectric Project Site, J & K, Department of Earthquake Engineering, IIT Roorkee
64. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2018-23 (2018), "Seismological Network Around Tehri Region, (from April 2018 to June 2018), Department of Earthquake Engineering, IIT Roorkee
65. Singh. Y., **M. L. Sharma**, M. Shrikhande, B. K. Maheshwari, J. Das and R. N. Dubey, EQ: 2018-22 (2018), Site Specific Earthquake Parameters for Mawblei H.E. Project, Meghalaya, Department of Earthquake Engineering, IIT Roorkee
66. Singh. Y., **M. L. Sharma**, M. Shrikhande, B. K. Maheshwari, J. Das and R. N. Dubey, EQ: 2018-21 (2018), Site Specific Earthquake Parameters for Sunni Dam Project Site, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
67. Singh. Y., **M. L. Sharma**, M. Shrikhande, B. K. Maheshwari, J. Das and R. N. Dubey, EQ: 2018-20 (2018), Site Specific Earthquake Parameters for Srinagar Railway Bridge (Ganga Bridge), Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
68. Singh. Y., **M. L. Sharma**, M. Shrikhande, B. K. Maheshwari, J. Das and R. N. Dubey, EQ: 2018-19 (2018), Site Specific Earthquake Parameters for Lachmali Railway Bridge (Ganga Bridge), Uttarakhand, Department of Earthquake Engineering, IIT Roorkee

69. Singh. Y., **M. L. Sharma**, M. Shrikhande, B. K. Maheshwari, J. Das and R. N. Dubey, EQ: 2018-18 (2018), Site Specific Earthquake Parameters for Gauchar Railway Bridge, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
70. Singh. Y., **M. L. Sharma**, M. Shrikhande, B. K. Maheshwari, J. Das and R. N. Dubey, EQ: 2018-17 (2018), Site Specific Earthquake Parameters for Dhari Devi Project Site, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
71. Singh. Y., **M. L. Sharma**, M. Shrikhande, B. K. Maheshwari, J. Das and R. N. Dubey, EQ: 2018-16 (2018), Site Specific Earthquake Parameters for Karanprayag Railway Bridge (Ganga Bridge), Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
72. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2018-15 (2018), "Seismological Network Around Tehri Region, (from Jan 2018 to March 2018), Department of Earthquake Engineering, IIT Roorkee
73. Singh. Y., **M. L. Sharma**, M. Shrikhande, B. K. Maheshwari, J. Das and R. N. Dubey, EQ: 2018-14 (2018), Site Specific Earthquake Parameters for Neyveli TPP Project, Tamil Nadu, Department of Earthquake Engineering, IIT Roorkee
74. Singh. Y., **M. L. Sharma**, M. Shrikhande, B. K. Maheshwari, J. Das and R. N. Dubey, EQ: 2018-13 (2018), Seismic Hazard Analysis for Dr. Ambedkar Statue & Menorial at Dadar, Mumbai, Department of Earthquake Engineering, IIT Roorkee
75. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan,), "Study of Koldam site, Himachal Pradesh, (based on the data collected from may 2016 to June 2017), Department of Earthquake Engineering, IIT Roorkee
76. Singh. Y., **M. L. Sharma**, M. Shrikhande, B. K. Maheshwari, J. Das and R. N. Dubey, EQ: 2018-09 (2018), Site Specific Earthquake Parameters for Mytndu Leshka H.E. Project, Meghalaya, Department of Earthquake Engineering, IIT Roorkee
77. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2018-08 (2018), "Seismological Network Around Tehri Region, (from Oct 2017 to Dec 2017), Department of Earthquake Engineering, IIT Roorkee
78. Singh. Y., **M. L. Sharma**, M. Shrikhande, B. K. Maheshwari, J. Das and R. N. Dubey, EQ: 2018-07 (2018), Site Specific Earthquake Parameters for DLF-UPL Building in Motinagar, New Delhi, Department of Earthquake Engineering, IIT Roorkee
79. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2018-05 (2018), "Seismological Network Around Tehri Region, (from July 2017 to Sept 2017), Department of Earthquake Engineering, IIT Roorkee
80. Singh. Y., **M. L. Sharma**, M. Shrikhande, B. K. Maheshwari, J. Das and R. N. Dubey, EQ: 2018-03 (2018), Site Specific Earthquake Parameters studies for Song Dam Project, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
81. Singh. Y., **M. L. Sharma**, M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and R. S. Jakka, EQ: 2018-02 (2018), Site Specific Earthquake Parameters for Pudimadaka TPP Project, Andhra Pradesh, Department of Earthquake Engineering, IIT Roorkee
82. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2018-01 (2018), "Seismological Network Around Tehri Region, (from April 2017 to June 2017), Department of Earthquake Engineering, IIT Roorkee
83. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2017-24 (2017), "Seismological Network Around Tehri Region, (from January 2016 to Dec 2016), Department of Earthquake Engineering, IIT Roorkee
84. Singh. Y., **M. L. Sharma**, M. Shrikhande, B. K. Maheshwari, J. Das and R. N. Dubey, EQ: 2017-23 (2017), Site Specific Earthquake Parameters for Chheligada H.E. Project, Odisha, Department of Earthquake Engineering, IIT Roorkee

85. Singh. Y., **M. L. Sharma**, M. Shrikhande, J. P. Narayan, R. S. Jakka and J. Das, EQ: 2017-22 (2017), Site Specific Earthquake Parameters for Talong Londa H.E. Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
86. Singh. Y., **M. L. Sharma**, M. Shrikhande, J. P. Narayan, B. K. Maheshwari and J. Das, EQ: 2017-18 (2017), Site Specific Earthquake Parameters for Patratu TPP Project, Jharkhand, Department of Earthquake Engineering, IIT Roorkee
87. Singh. Y., **M. L. Sharma**, M. Shrikhande, B. K. Maheshwari, R. N. Dubey, J.P. Narayan, S.C. Gupta, R.S. Jakka and J. Das, EQ: 2017-17 (2017), Site Specific Earthquake Parameters for Chandrabhaga H.E. Project, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
88. **Sharma, M. L.**, Y. Singh, S.C. Gupta, R. N. Dubey, Arup Sen, Dhiran Raj and Bharathi M, EQ:2017-16 (2017), Delhi Metro Induced Vibration Measurement on Various Buildings, DMRC, Department of Earthquake Engineering, IIT Roorkee
89. Singh. Y., **M. L. Sharma**, M. Shrikhande, B. K. Maheshwari, R. N. Dubey and J. Das, EQ: 2017-13 (2017), Site Specific Earthquake Parameters for Sirkari Bhyol Rupsiabagar H.E. Project, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
90. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, , EQ: 2017-12 (2017),“Seismological Network Around Tehri Region, (from Oct 2016 to Oct 2016), Department of Earthquake Engineering, IIT Roorkee
91. Singh. Y., **M. L. Sharma**, M. Shrikhande, B. K. Maheshwari, J. Das and R. N. Dubey, EQ: 2017-11 (2017), Site Specific Earthquake Parameters for Tizu H.E. Project, Nagaland, Department of Earthquake Engineering, IIT Roorkee
92. Singh. Y., **M. L. Sharma**, M. Shrikhande, R. S. Jakka, J. Das and S. C. Gupta, EQ: 2017-10 (2017), Site Specific Earthquake Parameters for Zungki H.E. Project, Nagaland, Department of Earthquake Engineering, IIT Roorkee
93. **Sharma, M.L.**, M. Shrikhande, J. Das and Mr. Mitesh Surana, EQ: 2017-09 (2017), Probabilistic Seismic Hazard Assessment of the Vrindavan Chandrodaya Mandir, Mathura, U.P., Department of Earthquake Engineering, IIT Roorkee
94. Singh. Y., **M. L. Sharma**, M. Shrikhande, J. Das and S. C. Gupta, EQ: 2017-08 (2017), Site Specific Earthquake Parameters for Oju H.E. Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
95. **Sharma, M.L.**, M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and Daya Shanke, EQ: 2017-06 (2017), Site Specific Earthquake Parameters for Nyera Amari Project, Bhutan, Department of Earthquake Engineering, IIT Roorkee
96. **Sharma, M.L.**, M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and Daya Shanke, EQ: 2017-05 (2017), Site Specific Earthquake Parameters for Trincomalli TPP Project, Srilanka, Department of Earthquake Engineering, IIT Roorkee
97. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, : 2017-04 (2017),“Seismological Network Around Tehri Region, (from July 2016 to Sept 2016), Department of Earthquake Engineering, IIT Roorkee
98. **Sharma, M.L.**, M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and Daya Shanke, EQ: 2017-01 (2017), Site Specific Earthquake Parameters for Chhatru HE Project, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
99. **Sharma, M.L.**, M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and Daya Shanke, EQ: 2016-24 (2016), Site Specific Earthquake Parameters for Upper Marsiangndi HE Project, Nepal, Department of Earthquake Engineering, IIT Roorkee
100. **Sharma, M.L.**, M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and Daya Shanke, EQ: 2016-23 (2016), Site Specific Earthquake Parameters for Upper Karnali HE Project, Nepal, Department of Earthquake Engineering, IIT Roorkee

101. **Sharma, M.L.**, M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and Daya Shanke, EQ: 2016-22 (2016), Site Specific Earthquake Parameters for Lower Kalnai HE Project, Jammu & Kashmir, Department of Earthquake Engineering, IIT Roorkee
102. Kumar. A., A.D. Pandey, **M.L. Sharma**, J.P. Narayan and S.C. Gupta, EQ: 2016-21 (2016), "Seismological Network Around Tehri Region, (from April 2016 to June 2016), Department of Earthquake Engineering, IIT Roorkee
103. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2016-18 (2016), "Seismological Network Around Tehri Region, (from Jan 2016 to Mar 2016), Department of Earthquake Engineering, IIT Roorkee
104. **Sharma, M.L.**, M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and Daya Shanke, EQ: 2016-14 (2016), Site Specific Design Earthquake Parameters for Bursar HE Project, Jammu & Kashmir, Department of Earthquake Engineering, IIT Roorkee
105. **Sharma, M.L.**, M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and Daya Shanke, EQ: 2016-13 (2016), Site Specific Design Earthquake Parameters for Sankosh HE Project, Bhutan, Department of Earthquake Engineering, IIT Roorkee
106. **Sharma, M.L.**, M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and Daya Shanker, EQ: 2016-12 (2016), Site Specific Design Earthquake Parameters for Kiratpur Bridge Project, Department of Earthquake Engineering, IIT Roorkee
107. **Sharma, M.L.**, M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and Daya Shanker, EQ: 2016-11 (2016), Site Specific Design Earthquake Parameters for Durgapur TPP Project, West Bengal, Department of Earthquake Engineering, IIT Roorkee
108. **Sharma, M.L.**, M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and Daya Shanker, EQ: 2016-10 (2016), Site Specific Design Earthquake Parameters for Harduaganj TPP Project, U.P., Department of Earthquake Engineering, IIT Roorkee
109. Kumar. A., A.D. Pandey, **M.L. Sharma**, J.P. Narayan and S.C. Gupta, EQ: 2016-09 (2016), "Seismological Network Around Tehri Region, (from Oct 2015 to Dec 2015), Department of Earthquake Engineering, IIT Roorkee
110. **Sharma, M.L.**, M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and S.C. Gupta, EQ: 2016-04 (2016), Seismic Hazard Studies for Infield Pipe Luine Route (West Block). M.P., Department of Earthquake Engineering, IIT Roorkee
111. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2016-03 (2016), "Seismological Network Around Tehri Region", Report on Processing and Interpretation seismological data collection from January 2014 to December 2014. Department of Earthquake Engineering, IIT Roorkee.
112. **Sharma, M.L.**, M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and Daya Shanke, EQ: 2016-02 (2016), Site Specific Design Earthquake Parameters for Vamsadhara-Hiramandalamj HE Project, Andhra Pradesh, Department of Earthquake Engineering, IIT Roorkee
113. **Sharma, M.L.**, M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and S.C. Gupta, EQ: 2016-01 (2016), Site Specific Design Earthquake Parameters for Hardwaganj HE Project, Uttar Pradesh, Department of Earthquake Engineering, IIT Roorkee
114. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, EQ: 2015-17 (2015), "Seismological Network Around Tehri Region", Report on Processing and Interpretation seismological data collection from January 2013 to December 2013. Department of Earthquake Engineering, IIT Roorkee.
115. **Sharma, M. L.**, S. C. Gupta, and J. P. Narayan, , EQ: 2015-16 (2015), "Seismological Network Around Tehri Region, (from July 2015 to Sept 2015), Department of Earthquake Engineering, IIT Roorkee
116. **Sharma, M.L.**, M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and S.C. Gupta, EQ: 2015-14 (2015), Site Specific Design Earthquake Parameters for Vyaso HE Project, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee

117. **Sharma, M. L.,** S. C. Gupta, and J. P. Narayan, EQ: 2015-13 (2015), "Seismological Network Around Tehri Region, (from April 2015 to June 2015), Department of Earthquake Engineering, IIT Roorkee
118. **Sharma, M.L.,** M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and S.C. Gupta, EQ: 2015-12 (2015), Site Specific Design Earthquake Parameters for Kwar HE Project, Jammu & Kashmir, Department of Earthquake Engineering, IIT Roorkee
119. **Sharma, M. L.,** S. C. Gupta, and J. P. Narayan, EQ: 2015-11 (2015), "Seismological Network Around Tehri Region, (from Jan 2015 to Mar 2015), Department of Earthquake Engineering, IIT Roorkee
120. **Sharma, M.L.,** M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and R.S. Jakka, EQ: 2015-10 (2015), Site Specific Design Earthquake Parameters for Kuri-I HE Project, Bhutan, Department of Earthquake Engineering, IIT Roorkee
121. **Sharma, M.L.,** M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and R.N. Dubey, EQ: 2015-09 (2015), Site Specific Design Earthquake Parameters for Tagurshit HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
122. **Sharma, M.L.,** M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and R.S. Jakka, EQ: 2015-06 (2015), Site Specific Design Earthquake Parameters for Kholongchu HE Project, Bhutan, Department of Earthquake Engineering, IIT Roorkee
123. **Sharma, M.L.,** M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and R.S. Jakka, EQ: 2015-03 (2015), Site Specific Design Earthquake Parameters for Lakhwar HE Project, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
124. **Sharma, M.L.,** M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and R.S. Jakka, EQ: 2015-02 (2015), Site Specific Design Earthquake Parameters for Ramagundam, T.P.P. Aandhra Pradesh, Department of Earthquake Engineering, IIT Roorkee
125. **Sharma, M.L.,** M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and R.S. Jakka, EQ: 2014-46 (2014), Site Specific Design Earthquake Parameters for Jidu HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
126. **Sharma, M.L.,** M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and R.S. Jakka, EQ: 2014-45 (2014), Site Specific Design Earthquake Parameters for Dardu HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
127. **Sharma, M.L.,** M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and R.S. Jakka, EQ: 2014-44 (2014), Site Specific Design Earthquake Parameters for Turu HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
128. **Sharma, M.L.,** M. Shrikhande, J. P. Narayan, B. K. Maheshwari, J. Das and R.S. Jakka, EQ: 2014-43 (2014), Site Specific Design Earthquake Parameters for Par HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
129. **Sharma, M.L.,** M. Shrikhande, J. P. Narayan, B. K. Maheshwari, Kirat Pal, J. Das and S.C. Gupta, EQ: 2014-40 (2014), Site Specific Design Earthquake Parameters for HEO HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
130. **Sharma, M.L.,** M. Shrikhande, J. P. Narayan, B. K. Maheshwari, Kirat Pal, J. Das and S.C. Gupta, EQ: 2014-39 (2014), Site Specific Design Earthquake Parameters for Pauk HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
131. **Sharma, M. L.,** S. C. Gupta, and J. P. Narayan, EQ: 2014-38 (2014), "Seismological Network Around Tehri Region, (from April 2014 to June 2014), Department of Earthquake Engineering, IIT Roorkee
132. **Sharma, M.L.,** Ashok Kumar, M. Shrikhande, B. K. Maheshwari and J. Das, EQ: 2014-35 (2014), Site Specific Design Earthquake Parameters for Umngot HE Project, Meghalaya, Department of Earthquake Engineering, IIT Roorkee

133. **Sharma, M.L.**, Kirat Pal, M. Shrikhande, B. K. Maheshwari and J. Das, EQ: 2014-34 (2014), Site Specific Design Earthquake Parameters for Naying HE Project (updated), Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
134. **Sharma, M.L.**, Kirat Pal, J. P. Narayan, M. Shrikhande, B. K. Maheshwari and J. Das, EQ: 2014-33 (2014), Site Specific Design Earthquake Parameters for Ganol HE Project, Meghalaya, Department of Earthquake Engineering, IIT Roorkee
135. **Sharma, M.L.**, J. P. Narayan, M. Shrikhande, B. K. Maheshwari, R. N. Dubey and J. Das, EQ: 2014-32 (2014), Site Specific Design Earthquake Parameters for Bilhaur HE Project, Uttar Pradesh, Department of Earthquake Engineering, IIT Roorkee
136. **Sharma, M.L.**, J. P. Narayan, M. Shrikhande, B. K. Maheshwari, Y. Singh and J. Das, EQ: 2014-31 (2014), Site Specific Design Earthquake Parameters for Swalkot HE Project, J & K, Department of Earthquake Engineering, IIT Roorkee
137. **Sharma, M.L.**, Ashwani Kumar, J. P. Narayan, M. Shrikhande, B. K. Maheshwari and J. Das, EQ: 2014-30 (2014), Site Specific Design Earthquake Parameters for Luhri HE Project, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
138. **Sharma, M.L.**, Amita Sinhal, J. P. Narayan, M. Shrikhande, B. K. Maheshwari, J. Das and S. C. Gupta, EQ: 2014-29 (2014), Site Specific Design Earthquake Parameters for Renukaji Dam Project, Department of Earthquake Engineering, IIT Roorkee
139. Kumar. A., A.D. Pandey, **M.L. Sharma**, J.P. Narayan and S.C. Gupta, EQ: 2014-28 (2014), "Seismological Network Around Tehri Region, (from Jan 2014 to Mar 2014), Department of Earthquake Engineering, IIT Roorkee
140. **Sharma, M.L.**, H. R. Wason, M. Shrikhande, J. P. Narayan, A. D. Pandey, Kirat Pal and J. Das, EQ: 2014-26 (2014), Site Specific Design Earthquake Parameters for Subansiri Middle (Kamla) HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
141. **Sharma, M.L.**, Smt Amita Sinhal, J. P. Narayan, M. Shrikhande, B.K Maheshwari, and J. Das, EQ: 2014-25 (2014), Site Specific Design Earthquake Parameters for Gandarbal HE Project, Jammu and Kashmir, Department of Earthquake Engineering, IIT Roorkee
142. **Sharma, M.L.**, H.R. Wason, Ashwani Kumar, Smt Amita Sinhal, M. Shrikhande, Pankaj Agarwal and J. Das, EQ: 2014-24 (2014), Site Specific Design Earthquake Parameters for Lower Kopili HE Project, Assam, Department of Earthquake Engineering, IIT Roorkee
143. **Sharma, M.L.**, Smt Amita Sinhal, J. P. Narayan, M. Shrikhande, B.K Maheshwari, and J. Das, EQ: 2014-23 (2014), Site Specific Design Earthquake Parameters for Dugar HE Project, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
144. **Sharma, M.L.**, Ashok Kumar, M. Shrikhande, J.P. Narayan, B.K Maheshwari and J.Das, EQ: 2014-22 (2014), Site Specific Design Earthquake Parameters for Kirthai HE Project, Jammu & Kashmir, Department of Earthquake Engineering, IIT Roorkee
145. **Sharma, M.L.**, J.P. Narayan, M. Shrikhande, B.K Maheshwari, R.N. Dubey and J.Das, EQ: 2014-19 (2014), Site Specific Design Earthquake Parameters for Rourkela T.P.P., Orissa, Department of Earthquake Engineering, IIT Roorkee
146. **Sharma, M.L.**, H.R. Wason, Smt Amita Sinhal, M. Shrikhande, Pankaj Agarwal, B.K Maheshwari and J.Das, EQ: 2014-18 (2014), Site Specific Design Earthquake Parameters for Kolodyne HE Project, Mizoram, Department of Earthquake Engineering, IIT Roorkee
147. Kumar. A., A.D. Pandey, **M.L. Sharma**, J.P. Narayan and S.C. Gupta, EQ: 2014-17 (2014), "Seismological Network Around Tehri Region, (from Oct 2013 to Dec 2013), Department of Earthquake Engineering, IIT Roorkee
148. **Sharma, M.L.**, H.R. Wason, Smt Amita Sinhal, Kirat Pal, M. Shrikhande, Pankaj Agarwal, S. Mukherjee and J. Das, EQ: 2014-16 (2014), Site Specific Design Earthquake Parameters for Devsari HE Project, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee

149. **Sharma, M.L.,** H.R. Wason, Ashok Kumar, Y. Singh, M. Shrikhande, B.K. Maheshwari, Daya Shankar and J. Das, EQ: 2014-15 (2014), Site Specific Design Earthquake Parameters for Seli HE Project, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
150. **Sharma, M.L.,** H.R. Wason, Smt Amita Sinhval, Y. Singh, M. Shrikhande, Pankaj Agarwal and J.Das, EQ: 2014-14 B (2014), Site Specific Design Earthquake Parameters for Rihand Concrete Gravity Dam at Pipri HE Project, Uttar Pradesh, Department of Earthquake Engineering, IIT Roorkee
151. **Sharma, M.L.,** H.R. Wason, Smt Amita Sinhval, Y. Singh, M. Shrikhande, Pankaj Agarwal and J.Das, EQ: 2014-14 A (2014), Site Specific Design Earthquake Parameters for Rihand HE Project, Uttar Pradesh, Department of Earthquake Engineering, IIT Roorkee
152. **Sharma, M.L.,** J. P. Narayan, M. Shrikhande, B.K Maheshwari, A.D. Pandey and J.Das, EQ: 2014-13 (2014), Site Specific Design Earthquake Parameters for Mawphu HE Project, Meghalaya, Department of Earthquake Engineering, IIT Roorkee
153. **Sharma, M.L.,** H.R. Wason, S.Mukerjee, J.P Narayan, M. Shrikhande and J. Das, EQ: 2014-12 (2014), Site Specific Design Earthquake Parameters for Kyanshi- I HE Project, Meghalaya, Department of Earthquake Engineering, IIT Roorkee
154. **Sharma, M.L.,** H.R. Wason, Smt Amita Sinhval, M. Shrikhande, A. D. Pandey, J.Das and S.C. Gupta, EQ: 2014-11 (2014), Site Specific Design Earthquake Parameters for Dhaulasidh HE Project, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
155. **Sharma, M.L.,** H.R. Wason, Smt Amita Sinhval, Kirat Pal, J.P. Narayan, R. N. Dubey, R.S. Jakka and J.Das, EQ: 2014-10 (2014), Site Specific Design Earthquake Parameters for Reoli-Dugli HE Project, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
156. **Sharma, M.L.,** H.R. Wason, Smt Amita Sinhval, Kirat Pal, J.P. Narayan, R. N. Dubey, R.S. Jakka and J.Das, EQ: 2014-09 (2014), Site Specific Design Earthquake Parameters for Sach-khas HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
157. **Sharma, M.L.,** D.K. Paul, J.P. Narayan, M. Shrikhande, B.K Maheshwari and J.Das, EQ: 2014-08 (2014), Site Specific Design Earthquake Parameters for Bhakra HE Project, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
158. **Sharma, M.L.,** H.R. Wason, Smt Amita Sinhval, M. Shrikhande, B.K Maheshwari, Daya Shankar, R.N.Dubey and J.Das, EQ: 2014-07 (2014), Site Specific Design Earthquake Parameters for Attunli HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
159. **Sharma, M.L.,** H.R. Wason, Smt Amita Sinhval, M. Shrikhande, B.K Maheshwari, Daya Shankar, R.N.Dubey and J.Das, EQ: 2014-06 (2014), Site Specific Design Earthquake Parameters for Etalin HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
160. **Sharma, M.L.,** H.R. Wason, Ashwani Kumar, Ashok Kumar, Smt Amita Sinhval, M. Shrikhande, Y. Singh, R.S. Jakka J.Das, EQ: 2014-05 (2014), Site Specific Design Earthquake Parameters for Nakthan HE Project, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
161. **Sharma, M.L.,** J.P. Narayan, M. Shrikhande, B.K Maheshwari, A.D. Pandey, and J.Das, EQ: 2014-03 (2014), Site Specific Design Earthquake Parameters for Phangchung HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
162. **Sharma, M.L.,** H.R. Wason, Ashwani Kumar, Smt Amita Sinhval, M. Shrikhande, B.K Maheshwari, Y. Singh, S.C. Gupta and J.Das, EQ: 2014-02 (2014), Site Specific Design Earthquake Parameters for Kalai-II HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
163. **Sharma, M.L.,** J.P. Narayan, M. Shrikhande, B.K Maheshwari, J. Das and S.C. Gupta, EQ: 2014-01 (2014), Site Specific Design Earthquake Parameters for Nikachhu HE Project, Bhutan, Department of Earthquake Engineering, IIT Roorkee
164. **Sharma, M.L.,** J.P. Narayan, M. Shrikhande, B.K Maheshwari, R.N. Dubey and J.Das, EQ: 2013-30 (2013), Site Specific Design Earthquake Parameters for Bilhaur TPP Site, Uttar Pradesh, Department of Earthquake Engineering, IIT Roorkee

165. **Sharma, M.L.**, Smt Amita Sinhval, J. P. Narayan, M. Shrikhande, B.K Maheshwari, and J.Das, EQ: 2013-29 (2013), Site Specific Design Earthquake Parameters for Dugar HE Project, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
166. Kumar. A., A.D. Pandey, **M.L. Sharma**, J.P. Narayan and S.C. Gupta, EQ: 2013-28 (2013), "Seismological Network Around Tehri Region, (from July 2013 to Sept 2013), Department of Earthquake Engineering, IIT Roorkee
167. **Sharma, M.L.**, J.P. Narayan, M. Shrikhande, B.K Maheshwari, Y. Singh and J.Das, EQ: 2013-26 (2013), Site Specific Design Earthquake Parameters for Swalkot HE Project, Jammu & Kashmir, Department of Earthquake Engineering, IIT Roorkee
168. Kumar. Ashwani, **M.L. Sharma**, J.P. Narayan, M. Shrikhande, N.C. Singhal, B.K Maheshwari, J. Das and S.C. Gupta, EQ: 2013-24 (2013), Site Specific Design Earthquake Parameters for Naying HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
169. **Sharma, M.L.**, H.R. Wason, Ashok Kumar, Y. Singh, M. Shrikhande, B.K. Maheshwari, Daya Shankar and J. Das, EQ: 2013-23 (2013), Site Specific Design Earthquake Parameters for Seli HE Project, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
170. Kumar. A., A.D. Pandey, **M.L. Sharma**, J.P. Narayan and S.C. Gupta, EQ: 2013-22 (2013), "Seismological Network Around Tehri Region, (from Apr 2013 to June 2013), Department of Earthquake Engineering, IIT Roorkee
171. Kumar. A., A.D. Pandey, **M.L. Sharma**, J.P. Narayan and S.C. Gupta, EQ: 2013-20 (2013), "Seismological Network Around Tehri Region, (from Jan 2013 to Mar 2013), Department of Earthquake Engineering, IIT Roorkee
172. **Sharma, M.L.**, H.R. Wason, Smt Amita Sinhval, M. Shrikhande, B.K Maheshwari, Daya Shankar, R.N.Dubey and J.Das, EQ: 2013-19 (2013), Site Specific Design Earthquake Parameters for Etalin HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
173. **Sharma, M.L.**, H.R. Wason, Smt Amita Sinhval, M. Shrikhande, B.K Maheshwari, Daya Shankar, R.N.Dubey and J.Das, EQ: 2013-18 (2013), Site Specific Design Earthquake Parameters for Attunli HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
174. **Sharma, M.L.**, H.R. Wason, M. Shrikhande, S. Mukerjee, Kirat Pal, Daya Shankar and J. Das, EQ: 2013-17 (2013), Site Specific Design Earthquake Parameters for Chango Yangthang HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
175. **Sharma, M.L.**, H.R. Wason, Smt Amita Sinhval, M. Shrikhande, S. Mukerjee, Kirat Pal, P. Agarwal and J.Das, EQ: 2013-16 (2013), Site Specific Design Earthquake Parameters for Devsari HE Project, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
176. **Sharma, M.L.**, H.R. Wason, Ashwani Kumar, Smt Amita Sinhval, M. Shrikhande, S. Mukerjee, R.N.Dubey and J. Das, EQ: 2013-15 (2013), Site Specific Design Earthquake Parameters for Yamne-II HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
177. **Sharma, M.L.**, H.R. Wason, Ashwani Kumar, Smt Amita Sinhval, M. Shrikhande, S. Mukerjee, R.N.Dubey and J. Das, EQ: 2013-14 (2013), Site Specific Design Earthquake Parameters for Yamne-I HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
178. **Sharma, M.L.**, and H.R. Wason, EQ: 2013-13 (2013), MEQ Data Processing Interpretation and report preparation of Earthquake generation for the year 2009, for study of seismogenic sources around the Subansiri Lower HE Project, Department of Earthquake Engineering, IIT Roorkee
179. **Sharma, M.L.**, H.R. Wason, Ashok Kumar, M. Shrikhande, Y. Singh, B.K Maheshwari, Daya Shankar and J. Das, EQ: 2013-09 (2013), Site Specific Design Earthquake Parameters for Miyar HE Project, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
180. **Sharma, M.L.**, H.R. Wason, Smt Amita Sinhval, M. Shrikhande, B.K Maheshwari, Daya Shankar, R.N Dubey and J. Das, EQ: 2013-08 (2013), Site Specific Design Earthquake Parameters for Triveni Mahadev HE Project, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee

181. **Sharma, M.L.**, Ashwani Kumar, J.P Narayan, M. Shrikhande, B.K Maheshwari and J. Das, EQ: 2013-07 (2013), Site Specific Design Earthquake Parameters for Shongtong Karchham HE Project, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
182. **Sharma, M.L.**, H.R. Wason, S.Mukerjee, J.P Narayan, M. Shrikhande and J. Das, EQ: 2013-06 (2013), Site Specific Design Earthquake Parameters for Kyanshi HE Project, Meghalaya, Department of Earthquake Engineering, IIT Roorkee
183. **Sharma, M.L.**, H.R. Wason, S.Mukerjee, J.P Narayan, M. Shrikhande and J. Das, EQ: 2013-05 (2013), Site Specific Design Earthquake Parameters for Katwa TPP Project, West Bengal, Department of Earthquake Engineering, IIT Roorkee
184. **Sharma, M.L.**, H.R. Wason, J.P Narayan, M. Shrikhande and J. Das, EQ: 2013-04 (2013), Site Specific Design Earthquake Parameters for Gadarwara TPP Project, Madhya Pradesh, Department of Earthquake Engineering, IIT Roorkee
185. **Sharma, M.L.**, H.R. Wason, S.Mukerjee, Smt Amita Sinhval, M. Shrikhande, P. Agarwal and J. Das, EQ: 2013-02 (2013), Site Specific Design Earthquake Parameters for Kantangshiri HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
186. **Sharma, M.L.**, H.R. Wason, Smt Amita Sinhval, M. Shrikhande and J. Das, EQ: 2013-01 (2013), Site Specific Design Earthquake Parameters for SEZ Mota Layja Project, Gujarat, Department of Earthquake Engineering, IIT Roorkee
187. **Sharma, M.L.**, H.R. Wason, M.Shrikhande, B.K.Maheshwari, A.D Pandey, R.N Dubey and J. Das, EQ: 2012-41 (2012), Site Specific Design Earthquake Parameters for Ratle HE Project, Jammu & Kashmir, Department of Earthquake Engineering, IIT Roorkee
188. **Sharma, M.L.**, H.R. Wason, J. P Narayan, M.Shrikhande, P.Agarwal, R.S. Jakka and J. Das, EQ: 2012-39 (2012), Site Specific Design Earthquake Parameters for Khurja TP Project, Uttar pradesh, Department of Earthquake Engineering, IIT Roorkee
189. **Sharma, M.L.**, H.R. Wason, Amita Sinhval, Kirat Pal, J. P Narayan, R.N. Dubey R.S. Jakka and J. Das, EQ: 2012-38 (2012), Site Specific Design Earthquake Parameters for Reoli_Dugli HE Project, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
190. **Sharma, M.L.**, H.R. Wason, Amita Sinhval, Kirat Pal, J. P Narayan, R.N. Dubey R.S. Jakka and J. Das, EQ: 2012-37 (2012), Site Specific Design Earthquake Parameters for Sach_Khas HE Project, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
191. Wason. H.R., **M.L. Sharma** and B.K. Maheshwari, EQ: 2012-36 (2012), Soil Profiling using MASW at Triveni Mahadev, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
192. **Sharma, M.L.**, H.R. Wason, Ashok Kumar, Smt Amita Sinhval, M. Shrikhande, B.K. Maheshwari and J. Das, EQ: 2012-35 (2012), Site Specific Design Earthquake Parameters for Nalo HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
193. **Sharma, M.L.**, H.R. Wason, Amita Sinhval, M. Shrikhande, A.D. Pandey, J. Das and S. C Gupta EQ: 2012-34 (2012), Site Specific Design Earthquake Parameters for Dhaulasidh HE Project, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
194. **Sharma, M.L.**, H.R. Wason, Ashok Kumar, Amita Sinhval, M. Shrikhande, R.S. Jakka and J. Das, EQ: 2012-32 (2012), Site Specific Design Earthquake Parameters for Rongnichu HE Project, Sikkim, Department of Earthquake Engineering, IIT Roorkee
195. **Sharma, M.L.**, H.R. Wason, S. Mukerjee, M. Shrikhande, J. P Narayan and J. Das, EQ: 2012-31 (2012), Site Specific Design Earthquake Parameters for Bop HE Project, Sikkim, Department of Earthquake Engineering, IIT Roorkee
196. **Sharma, M.L.**, H.R. Wason, S. Mukerjee, M. Shrikhande, J. P Narayan and J. Das, EQ: 2012-30 (2012), Site Specific Design Earthquake Parameters for Bhimkiyong HE Project, Sikkim, Department of Earthquake Engineering, IIT Roorkee

197. **Sharma, M.L.**, H.R. Wason, S. Mukerjee, M. Shrikhande, J. P Narayan and J. Das, EQ: 2012-29 (2012), Site Specific Design Earthquake Parameters for Lachung HE Project, Sikkim, Department of Earthquake Engineering, IIT Roorkee
198. Wason. H.R., **M.L. Sharma**, M. Shrikhande, Daya Shanker and J. Das, EQ: 2012-25 (2012), Site Specific Design Earthquake Parameters for Tehri pumped storage Plant, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
199. Wason.H.R., Ashwani Kumar, **M.L. Sharma**, Amita Sinvhal, M. Shrikhande, Kirat Pal, A.D. Pandey and J. Das, EQ: 2012-24 (2012), Site Specific Design Earthquake Parameters for Gongri HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
200. Wason. H.R.,**M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, A.D. Pandey, S.C Gupta and J. Das, EQ: 2012-23 (2012), Site Specific Design Earthquake Parameters for Thana-plaun HE Project, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
201. **Sharma, M.L.**, H.R. Wason and B.K. Maheshwari, EQ: 2012-21 (2012), Soil Profiling using MASW at Bowala Nand Prayag, HEP, Chamoli Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
202. Kumar. Ashwani., **M.L. Sharma**, H.R. Wason, M. Shrikhande, B.K. Maheshwari, N.C. Singhal, S.C. Gupta and J. Das, EQ: 2012-19 (2012), Site Specific Design Earthquake Parameters for Study for Faridabad TPP , Haryana, Department of Earthquake Engineering, IIT Roorkee
203. Wason. H.R., Ashwani Kumar, **M.L. Sharma**, Amita Sinvhal, S. Mukerjee, R.N. Dubey and J. Das, EQ: 2012-16 (2012), Site Specific Design Earthquake Parameters for Tiuni-plasu, HEP, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
204. Wason. H.R., Ashwani Kumar, **M.L. Sharma**, Amita Sinvhal, A.D. Pandey, M. Shrikhande, B.K. Maheshwari, S.C. Gupta and J. Das, EQ: 2012-15 (2012), Site Specific Design Earthquake Parameters for Maraknam Super Thermal Power Plant, Tamil Nadu, Department of Earthquake Engineering, IIT Roorkee
205. Wason. H.R., **M.L. Sharma**, J. P. Narayan, M. Shrikhande, B.K. Maheshwari and J. Das, EQ: 2012-14 (2012), Site Specific Design Earthquake Parameters for Khargaon TPP , Madhya Pradesh, Department of Earthquake Engineering, IIT Roorkee
206. Wason. H.R., Ashwani Kumar, **M.L. Sharma**, Ashok Kumar, M. Shrikhande, B.K. Maheshwari, Daya Shankar, R.N. Dubey and J. Das, EQ: 2012-13 (2012), Site Specific Design Earthquake Parameters for Auriya Gas Thermal Power Plant, Uttar Pradesh, Department of Earthquake Engineering, IIT Roorkee
207. Wason. H.R., **M.L. Sharma**, J.P. Narayan, M. Shrikhande, B.K. Maheshwari, Y. Singh and J. Das, EQ: 2012-12 (2012), Site Specific Design Earthquake Parameters for Tato-II, HEP, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
208. Wason. H.R., **M.L. Sharma**, Amita Sinvhal, Ashok Kumar, M. Shrikhande, Y. singh. S.C. Gupta and J. Das, EQ: 2012-11 (2012), Site Specific Design Earthquake Parameters for Dikhu HEP, Nagaland, Department of Earthquake Engineering, IIT Roorkee
209. Wason. H.R., **M.L. Sharma**, Amita Sinvhal, M. Shrikhande, Daya Shankar, R.N. Dubey, R.S. Jakka and J. Das, EQ: 2012-10 (2012), Site Specific Design Earthquake Parameters for Rangit-II HEP, Assam, Department of Earthquake Engineering, IIT Roorkee
210. Wason. H.R., Ashwani Kumar, **M.L. Sharma**, Amita Sinvhal, M. Shrikhande, Pankaj Aggrwal and J. Das, EQ: 2012-8 (2012), Site Specific Design Earthquake Parameters for Lower Kopili HEP, Assam, Department of Earthquake Engineering, IIT Roorkee
211. **Sharma, M.L.**, H.R. Wason, Y. Singh and J. Das, EQ: 2012-7 (2012), Probabilistic Seismic Hazard assessment of the ATC Tower, New Delhi, Department of Earthquake Engineering, IIT Roorkee

212. Wason. H.R., D. K. Paul, **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari and J. Das, EQ: 2012-6 (2012), Site Specific Design Earthquake Parameters for Barethi TPP Project, Bundalkhand, M.P., Department of Earthquake Engineering, IIT Roorkee
213. Wason. H.R., D. K. Paul, **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari and J. Das, EQ: 2012-5 (2012), Site Specific Design Earthquake Parameters for Anta TPP Project, Rajasthan, Department of Earthquake Engineering, IIT Roorkee
214. Kumar. A., A.D. Pandey, **M.L. Sharma**, J.P. Narayan and S.C. Gupta, EQ: 2012-3 (2012), "Seismological Network Around Tehri Region, (from Oct 2011 to Dec 2011), Department of Earthquake Engineering, IIT Roorkee
215. Wason. H.R., **M.L. Sharma**, M. Shrikhande, J.P. Narayan, A.D. Pandey, Kirat Pal and J. Das, EQ: 2012-2 (2012), Site Specific Design Earthquake Parameters for Subansiri Middle H.E. Project, HEP, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
216. Wason. H.R., **M.L. Sharma** and B.K. Maheshwari, EQ: 2012-1 (2012), Soil Profiling using MASW at Thana-plaun H.E. Project, Mandi Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
217. Wason. H.R. and **M.L. Sharma**, EQ: 2011-35 (2011), MEQ data processing interpretation and report preparation of earthquake generated for the year 2008 for study of seismogenic sources around the Subansiri lower H.E. Project, Department of Earthquake Engineering, IIT Roorkee
218. **M.L. Sharma**, EQ: 2011-34 (2011), Shear wave profiling in NCT region using MASW technique, Department of Earthquake Engineering, IIT Roorkee
219. Wason. H.R., **M.L. Sharma** and B.K. Maheshwari, EQ: 2011-33 (2011), Site Specific Design Earthquake Parameters for Thana-Plaun, HEP, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
220. Wason. H.R., **M.L. Sharma**, Amita Sinval, M. Shrikhande, S. Mukerjee, S.C. Gupta and J. Das, EQ: 2011-32 (2011), Site Specific Design Earthquake Parameters for Kynshi, HEP, Meghalaya, Department of Earthquake Engineering, IIT Roorkee
221. Wason. H.R., **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, Pankaj Agarwal, Daya Shankar, R.N. Dubey and J. Das, EQ: 2011-30 (2011), Site Specific Design Earthquake Parameters for Mago-chu, HEP, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
222. Wason. H.R., **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, Pankaj Agarwal, Daya Shankar, R.N. Dubey and J. Das, EQ: 2011-29 (2011), Site Specific Design Earthquake Parameters for Nyukcharong, HEP, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
223. Wason. H.R., **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, Pankaj Agarwal, Daya Shankar, R.N. Dubey and J. Das, EQ: 2011-28 (2011), Site Specific Design Earthquake Parameters for Rho Tawang, HEP, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
224. Wason. H.R., **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, Pankaj Agarwal, Daya Shankar, R.N. Dubey and J. Das, EQ: 2011-27 (2011), Site Specific Design Earthquake Parameters for Tawang, HEP, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
225. Kumar. A., A.D. Pandey, **M.L. Sharma**, J.P. Narayan and S.C. Gupta, EQ: 2011-26 (2011), "Seismological Network Around Tehri Region", (from Jan2010 to Dec. 2010), Department of Earthquake Engineering, IIT Roorkee
226. Sharma M. L., D. K. Paul, H.R. Wason and Maheshwari, B. K., (2011), EQ- 2011-25 Soil Profiling using MASW at Tiuni-Palasu Hydro Electric Project, Dehradun, Uttarakhand
227. Wason. H.R., **M.L. Sharma**, Amita Sinval, M. Shrikhande, B.K. Maheshwari, N.C. Singhal, Kirat Pal and J. Das, EQ: 2011-24 (2011), Site Specific Design Earthquake Parameters for Devasari, HEP, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee

228. Wason. H.R., **M.L. Sharma**, Ashok Kumar, Y. Singh, M. Shrikhande, B.K. Maheshwari, Daya Shankar and J. Das, EQ: 2011-23 (2011), Site Specific Design Earthquake Parameters for Seli, HEP, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
229. Kumar. A., **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, N.C. Singhal, S. Mukerjee, Daya Shankar and J. Das, EQ: 2011-20 (2011), Site Specific Design Earthquake Parameters for Etalin, HEP, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
230. Kumar. A., **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, N.C. Singhal, S. Mukerjee, Daya Shankar and J. Das, EQ: 2011-19 (2011), Site Specific Design Earthquake Parameters for Attunli, HEP, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
231. Paul, D. K. , **M. L. Sharma**, B. K. Maheshwari, J. Das, EQ:2011-18 (2011) Seismic slope stability studies of Nara dam, Kandi area, Hoshiarpur, Punjab
232. Kumar. A., **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, J.P. Narayan, N.C. Singhal, J. Das and S.C. Gupta, EQ: 2011-14 (2011), Site Specific Design Earthquake Parameters for Chango Yangthang, HEP, Department of Earthquake Engineering, IIT Roorkee
233. Kumar. A., **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, Daya Shankar, R.N. Dubey, S. Mukerjee and J. Das, EQ: 2011-13 (2011), Site Specific Design Earthquake Parameters for Kholongchu, HEP, Bhutan, Department of Earthquake Engineering, IIT Roorkee
234. Kumar. A., A.D. Pandey, **M.L. Sharma**, J.P. Narayan and S.C. Gupta, EQ: 2011-12 (2011), "Seismological Network Around Tehri Region", (from Oct 2010 to Dec. 2010), Department of Earthquake Engineering, IIT Roorkee
235. Kumar. A., **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, J.P. Narayan, A.D. Pandey, J.Das and S.C. Gupta, EQ: 2011-11 (2011), Site Specific Design Earthquake Parameters for Pegadapalli, HEP, Andhra Pradesh, Department of Earthquake Engineering, IIT Roorkee
236. Kumar. A., **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, Ashok Kumar, Daya Shankar, R. N. Dubey and J. Das, EQ: 2011-09 (2011), Site Specific Design Earthquake Parameters for Tagurshit, HEP, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
237. Kumar. A., **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, Amita Sinval, Y. Singh, J. Das and S.C. Gupta, EQ: 2011-05 (2011), Site Specific Design Earthquake Parameters for Kalai-II, HEP, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
238. Kumar. A., A.D. Pandey, **M.L. Sharma**, J.P. Narayan and S.C. Gupta, EQ: 2011-01 (2011), "Seismological Network Around Tehri Region", (from July 2010 to Sept. 2010), Department of Earthquake Engineering, IIT Roorkee
239. Wason, H.R. and **M.L. Sharma** EQ: 2010-35 (2010), MEQ data processing, interpretation and report preparation for MEQ data collected during Dec-2006 to Nov 2007, for study of seismogenic sources around the Subanasi Lower HEP, Department of Earthquake Engineering, IIT Roorkee
240. Kumar. A., **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, H.R. Wason, Ashok Kumar, N.C. Singhal and J.Das, EQ: 2010-33 (2010), Site Specific Design Earthquake Parameters for Chitrangi Power Project, Madhya Pradesh, Department of Earthquake Engineering, IIT Roorkee
241. Kumar. A., **M.L. Sharma**, Amita Sinval, Y. Singh, M. Shrikhande, B.K. Maheshwari, S.C. Gupta and J.Das, EQ: 2010-32 (2010), Site Specific Design Earthquake Parameters for Kalai-I Hydro Electric Power Project (1450MW), Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
242. **Sharma, M. L.** and D.K. Paul , EQ: 2010-30 (2010), Probabilistic Seismic Hazard Analysis for Utkal Alumina Refinery Site, Orrisa, Department of Earthquake Engineering, IIT Roorkee
243. Kumar. A., **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, H.R. Wason, Ashok Kumar, A.D. Pandey and J.Das, EQ: 2010-29 (2010), Site Specific Design Earthquake Parameters for Tilaya Mega Power Project, Jharkhand, Department of Earthquake Engineering, IIT Roorkee

244. **Sharma M. L.**, EQ- 2010-28 Probabilistic Seismic Hazard Assessment for Delhi region and estimation of bed rock strong ground motion, Department of Earthquake Engineering, IIT Roorkee
245. Kumar. A., **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, J. P. Narayan, A.D. Pandey, S. Mukherjee and J.Das, EQ: 2010-27 (2010), Site Specific Design Earthquake Parameters for Tipang Hydro Electric Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
246. Kumar. A., **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, H. R. Wason, Ashok Kumar, Y. Singh and J.Das, EQ: 2010-26 (2010), Site Specific Design Earthquake Parameters for Miyar HEP, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
247. Kumar. A., A.D. Pandey, **M.L. Sharma**, J.P. Narayan and S.C. Gupta, EQ: 2010-25 (2010), "Seismological Network Around Tehri Region, (from April 2010 to June 2010), Department of Earthquake Engineering, IIT Roorkee
248. Kumar. A., **M.L. Sharma**, H. R. Wason, M. Shrikhande, N.C. Singhal, B.K. Maheshwari, S. Mukerjee and J.Das, EQ: 2010-23 (2010), Site Specific Design Earthquake Parameters for Pemashelpu River Basin HEP, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
249. Kumar. A., **M.L. Sharma**, M. Shrikhande, Daya Shanker, Y. Singh, B.K. Maheshwari, S. Mukerjee and J.Das, EQ: 2010-21 (2010), Site Specific Design Earthquake Parameters for Teesta-II HEP, Sikkim, Department of Earthquake Engineering, IIT Roorkee
250. Kumar. A., **M.L. Sharma**, Daya Shanker, M. Shrikhande, Y. Singh, B.K. Maheshwari, S. Mukerjee and J. Das, EQ: 2010-20 (2010), Site Specific Design Earthquake Parameters for Talcher TPS Expansion (2x660 MW), Department of Earthquake Engineering, IIT Roorkee
251. Kumar. A., **M.L. Sharma**, H.R. Wasson, M. Shrikhande, R.N. Dubey, B.K. Maheshwari, Ashok Kumar and J. Das, EQ: 2010-19 (2010), Site Specific Design Earthquake Parameters for Kudgi Super Thermal Power Project (400MW) at Bijapur District of Karnataka, Department of Earthquake Engineering, IIT Roorkee
252. Paul D.K., **M.L. Sharma**, Swami Saran, B.K. Maheshwari and S. Mukerjee, EQ: 2010-18 (2010), Site Specific Design Earthquake Parameters for Laying of Railway Infrastructure over deposit of coal ash in Anpara, Distt. Sonbhadra, Department of Earthquake Engineering, IIT Roorkee
253. Kumar. A., **M.L. Sharma**, Ashok Kumar, Y. Singh, M. Shrikhande, B.K. Maheshwari, Daya Shanker and J. Das, EQ: 2010-16 (2010), Site Specific Design Earthquake Parameters for Gajmara Super Thermal Power Project (4x800MW), Department of Earthquake Engineering, IIT Roorkee
254. Kumar. A., A.D. Pandey, **M.L. Sharma**, J.P. Narayan and S.C. Gupta, EQ: 2010-15 (2010), "Seismological Network Around Tehri Region, (from Jan 2009 to Dec 2009), Department of Earthquake Engineering, IIT Roorkee
255. Kumar. A., A.D. Pandey, **M.L. Sharma**, J.P. Narayan and S.C. Gupta, EQ: 2010-14 (2010) BLT-57-2010(I), Seismological Network Around Tehri Region, (from Jan 2010 to Mar 2010), Department of Earthquake Engineering, IIT Roorkee
256. Kumar. A., **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, S. Mukerjee, R.N. Dubey, Daya Shanker and J. Das, EQ: 2010-13 (2010), Site Specific Design Earthquake Parameters for Nafra HEP, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
257. Kumar. A., **M.L. Sharma**, H.R. Wasson, M. Shrikhande, B.K. Maheshwari, R.N. Dubey, Ashok Kumar and J. Das, EQ: 2010-11 (2010), Site Specific Design Earthquake Parameters for Luhri Hydro Electric Power Project on River Satluj (775 MW) in H.P., Department of Earthquake Engineering, IIT Roorkee
258. Kumar. A., **M.L. Sharma**, Ashok Kumar, J.P. Narayan, M. Shrikhande, A.D. Pandey, B.K. Maheshwari, and J. Das, EQ: 2010-10 (2010), Site Specific Design Earthquake Parameters for NHDC 1320 MW Reva Thermal Power Project MP, Department of Earthquake Engineering, IIT Roorkee

259. Kumar. A., D.K. Paul, **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, R.N. Dubey, J. Das and S.C. Gupta, EQ: 2010-08 (2010), Site Specific Design Earthquake Parameters for Palais Royale, Mumbai, Department of Earthquake Engineering, IIT Roorkee
260. Kumar. A., **M.L. Sharma**, Amita Sinvhal, M. Shrikhande, B.K. Maheshwari, A.D. Pandey, S. Mukerjee and J. Das, EQ: 2010-07 (2010), Site Specific Design Earthquake Parameters for Lethang Hydro Electric Project, Sikkim, Department of Earthquake Engineering, IIT Roorkee
261. Kumar. A., **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, J.P. Narayan, N.C. Singhal, J. Das and S.C. Gupta, EQ: 2010-06 (2010), Site Specific Design Earthquake Parameters for Hironag Electric Power Project (500MW) in Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
262. Kumar. A., A.D. Pandey, **M.L. Sharma**, J.P. Narayan and S.C. Gupta, EQ: 2010-04 (2010), BLT-57-2009 (III), "Seismological Network Around Tehri Region, (from July 2009 to Sept 09), Department of Earthquake Engineering, IIT Roorkee
263. Kumar. A., **M.L. Sharma**, H.R. Wasson, M. Shrikhande, R.N. Dubey, B.K. Maheshwari, J.Das and S.C. Gupta, EQ: 2010-03 (2010), Site Specific Design Earthquake Parameters for Malari Jelam & Jelam Tamal HEP, UK, Department of Earthquake Engineering, IIT Roorkee
264. Kumar. A., **M.L. Sharma**, Daya Shanker, M. Shrikhande, A.D. Pandey, B.K. Maheshwari, Ashok Kumar and J.Das, EQ: 2010-02 (2010), Site Specific Design Earthquake Parameters for Shongtong Karcham HEP, Department of Earthquake Engineering, IIT Roorkee
265. Kumar. A., **M. L. Sharma**, J.P. Narayan, M. Shrikhande, N.C. Singhal, B.K. Maheshwari, Ashok Kumar and J.Das, EQ: 2010-1 (2010), Site Specific Design Earthquake Parameters for Seismological Network Around Tehri Region, Department of Earthquake Engineering, IIT Roorkee
266. Kumar. A., **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, Amita Sinvhal, A.D. Pandey, S. Mukerjee and J. Das, EQ: 2009-51 (2009), Site Specific Design Earthquake Parameters for Madia HE Project, Department of Earthquake Engineering, IIT Roorkee
267. Kumar. A., **M.L. Sharma**, M. Shrikhande, B.K. Maheshwari, Amita Sinvhal, A.D. Pandey, S. Mukerjee and J. Das, EQ: 2009-50 (2009), Site Specific Design Earthquake Parameters for Dehra HE Project, Department of Earthquake Engineering, IIT Roorkee
268. Kumar. A., A.D. Pandey, **M.L. Sharma**, J.P. Narayan and S.C. Gupta, EQ: 2009-49 (2009), BLT-57-2009 (III), "Seismological Network Around Tehri Region", (from. July 2009 to Sept 09), Department of Earthquake Engineering, IIT Roorkee
269. Kumar. A., **M. L. Sharma**, H.R. Wason, Ashok Kumar, M. Shrikhande, B.K. Maheshwari, N.C. Singhal, and J.Das, EQ: 2009-48 (2009), Site Specific Design Earthquake Parameters for Bowala Nand Prayag HEP, Chamoli, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
270. Kumar. A., **M. L. Sharma**, J.P. Narayan, M. Shrikhande, N.C. Singhal, B.K. Maheshwari, J.Das, and S.C. Gupta EQ: 2009-46 (2009), Site Specific Design Earthquake Parameters for Naying Hydro Electric Power Project(1000,MW), in West Siang Distt. Of Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
271. Kumar. A., A. D. Pandey and **M. L. Sharma**, EQ: 2009-45 (2009), BLT-56-2009 (II),"Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. April 2009 to June 2009), Department of Earthquake Engineering, IIT Roorkee
272. Kumar. A, **M. L. Sharma**, A. Sinvhal, M. Shrikhande, A. D. Pandey, B. K. Mahashwari, Ashok Kumar and J. Das (2009), EQ- 2009-44 Site specific Design earthquake Parameters for Upper Karnali HE Project Site, Nepal, Department of Earthquake Engineering, IIT Roorkee
273. Kumar. A, **M. L. Sharma**, Daya Shanker, M. Shrikhande, Y. Singh, B. K. Mahashwari, S. C. Gupta and J. Das (2009), EQ- 2009-43 Site specific Design earthquake Parameters for Upper Marsingdi HE Project Site, Nepal, Department of Earthquake Engineering, IIT Roorkee

274. Kumar. A, **M. L. Sharma**, J. P. Narayan, M. Shrikhande, R. N. Dubey, B. K. Mahashwari, Ashok Kumar and J. Das (2009), EQ- 2009-40 Site specific Design earthquake Parameters for Parwan HE Project Site, Rajasthan, Department of Earthquake Engineering, IIT Roorkee
275. Kumar. A, **M. L. Sharma**, H. R. Wason, S. Mukerjee, M. Shrikhande, R. N. Dubey, B. K. Mahashwari and J. Das (2009), EQ- 2009-39 Site specific Design earthquake Parameters for Nyamjang Chhu HE Project Site, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
276. Sharma M. L., D. K. Paul, and J. Das, (2009), EQ- 2009-38 Probabilistic Seismic Hazard Assessment of the Nyabarongo H.E. Project Site, Rawanda, Department of Earthquake Engineering, IIT Roorkee
277. Kumar. A, **M. L. Sharma**, Ashok Kumar, M. Shrikhande, Daya Shanker, Y. Singh, B. K. Mahashwari and J. Das (2009), EQ- 2009-37 Site specific Design earthquake Parameters for Hutong-II HE Project Site, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
278. Paul. D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande, B. K. Maeshwari and J. Das (2009), EQ- 2009-36 Site specific Design earthquake Parameters for Umngot HE Project Site, Meghalaya, Department of Earthquake Engineering, IIT Roorkee
279. Kumar. A, **M. L. Sharma**, M. Shrikhande, Daya Shanker, B. K. Mahashwari, Y. Singh, J. Das and S.C. Gupta (2009), EQ- 2009-35 Site specific Design Earthquake Parameters for Chhatru HE Project Site, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
280. Kumar. A., A. D. Pandey and **M. L. Sharma**, EQ: 2009-33 (2009) " Seismological Network Around Tehri Region" Report on processing and Interpretation of seismological Data Collected (from January 2008 to December 2008) Department of Earthquake Engineering, IIT Roorkee
281. Kumar. A, **M. L. Sharma**, H. R. Wasan, M. Shrikhande, R. N. Dubey, B. K. Mahashwari, J. Das and S. C. Gupta (2009), EQ- 2009-32 Site specific Design earthquake Parameters for Dhamwari Sunda HE Project site, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
282. Kumar. A, **M. L. Sharma**, Ashok Kumar, M. Shrikhande, B. K. Mahashwari, A. Sinval, A. D. Pandey and J. Das (2009), EQ- 2009-31 Site specific Design earthquake Parameters for Kashang HE Project site, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
283. Kumar. A, **M. L. Sharma**, J. P. Narayan, M. Shrikhande, N. C. Singhal, B. K. Mahashwari, Ashok Kumar and J. Das (2009), EQ- 2009-30 Site specific Design earthquake Parameters for Singrauli Thermal Power Project site, Uttar Pradesh, Department of Earthquake Engineering, IIT Roorkee
284. Kumar. A., A. D. Pandey and **M. L. Sharma**, EQ: 2009-29 (2009), BLT-55-2009 (I),"Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. Jan 2009 to Mar 2009), Department of Earthquake Engineering, IIT Roorkee
285. Paul. D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande, B. K. Maeshwari and J. Das, (2009), EQ- 2009-28 Site Specific Design Earthquake Parameters for Bhakra HE Project Site, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
286. Kumar Ashwani, **M. L. Sharma**, H. R. Wasan, M. Shrikhande, B. K. Mahashwari, R. N. Dubey, J. Das and S.C. Gupta (2009), EQ- 2009-27 Site specific Design earthquake Parameters for Jalam Tamak HE Project site Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
287. Paul. D.K., **M. L. Sharma**, M. Shrikhande, Pankaj Agarwal and J. Das, (2009), EQ- 2009-26 Site Specific Design Earthquake Parameters for Bunakha HE Project Site Bhutan, Department of Earthquake Engineering, IIT Roorkee
288. Kumar Ashwani, **M. L. Sharma**, Daya Shanker, M. Shrikhande, B. K. Mahashwari, Y. Singh, J. Das and S. C. Gupta (2009), EQ- 2009-25 Site specific Design earthquake Parameters for Sissiri HE Project site Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee

289. Kumar Ashwani, **M. L. Sharma**, S. Mukerjee, M. Shrikhande, N. C Singhal, J. P Narayan, B. K. Mahashwari and J. Das (2009), EQ- 2009-24 Site specific Design earthquake Parameters for Sainj HE Project site Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
290. Kumar Ashwani, **M. L. Sharma**, M. Shrikhande, B. K. Mahashwari, A. Sinval, A. D Pandey, J. Das and S .C Gupta (2009), EQ- 2009-23 Site specific Design earthquake Parameters for Bajoli Holi H.E Project site Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
291. Paul D.K, **M. L. Sharma** and B. K. Mahashwari (2009) EQ- 2009-22 Evaluation of Shear Wave velocity of Shongtong- Karchham HEP, Himachal Pradesh Department of Earthquake Engineering, IIT Roorkee
292. Paul D.K, **M. L. Sharma** and B. K. Mahashwari (2009), EQ- 2009-20 Evaluation of Shear Wave velocity of Ranjit Sagar Dam, Department of Earthquake Engineering, IIT Roorkee
293. Kumar, Ashwani, **M. L. Sharma**, M. Shrikhande, B. K. Mahashwari, A. Sinval, A. D Pandey, J. Das and S .C Gupta (2009), EQ- 2009-19 Site specific Design earthquake Parameters for Annpara Thermal Power Plant, Department of Earthquake Engineering, IIT Roorkee
294. Kumar. A., A. D. Pandey and **M. L. Sharma**, EQ: 2009-17 (2009), BLT-54-2008 (IV),"Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. Oct 2008 to Dec 2008), Department of Earthquake Engineering, IIT Roorkee
295. Kumar Ashwani, **M. L. Sharma**, M. Shrikhande, B. K. Mahashwari, Y. Singh, S. Mukerjee, D. Sanker and J. Das (2009), EQ- 2009-16 Site specific Design earthquake Parameters for Pauk HE Project site Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
296. Kumar Ashwani, **M. L. Sharma**, A. Sinval, A. D. Pandey, M. Shrikhande, B. K. Mahashwari, J. Das and S. C. Gupta, (2009), EQ- 2009-13 Site specific Design earthquake Parameters for Phata Byung HE Project site Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
297. Sharma M. L., D. K. Paul, and J. Das, (2009), EQ- 2009-12 Probabilistic Seismic Hazard Assessment of the SHWE-MYA Offshore Development Sites, Myanmar, Department of Earthquake Engineering, IIT Roorkee
298. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2009-11 (2009), BLT-53-2008 (III),"Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. July 2008 to Sept. 2008), Department of Earthquake Engineering, IIT Roorkee
299. Sharma M. L., D. K. Paul, and Mahashwari, B. K., (2009), EQ- 2009-10 Soil Profiling in Phuentsoling city , Department of Earthquake Engineering, IIT Roorkee
300. Kumar Ashwani, **M. L. Sharma**, A. Sinval, A. D. Pandey, Ashok Kumar, B. K. Mahashwari, M. Shrikhande and J. Das, (2009), EQ- 2009-09 Site specific Design earthquake Parameters for Dibbin HE Project site Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
301. Kumar Ashwani, **M. L. Sharma**, M. Shrikhande, D. Shanker, Y. Singh, B. K. Mahashwari, S. Mukharjee and J. Das, (2009), EQ- 2009-07 Site specific Design earthquake Parameters for Kuthar HE Project site Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
302. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2009), EQ- 2009-06 Site specific Design earthquake Parameters for Solapur Thermal Project site Maharashtra, Department of Earthquake Engineering, IIT Roorkee
303. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2009-04 (2009), BLT-52-2008 (II),"Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. April 2008 to June 2008), Department of Earthquake Engineering, IIT Roorkee
304. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2009), EQ- 2009-03 Site specific Design earthquake Parameters for Muzaffarpur Thermal Project site Bihar, Department of Earthquake Engineering, IIT Roorkee

305. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2009), EQ- 2009-02 Site specific Design earthquake Parameters for Ramganga Barrage Irrigation Scheme site Uttar Pradesh, Department of Earthquake Engineering, IIT Roorkee
306. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2009-01 (2009), BLT-51-2008 (I), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. Jan. 2008 to March 2008), Department of Earthquake Engineering, IIT Roorkee
307. Sharma M. L. and M. Arora, (2008), EQ- 2008-47 Application of Differential Interferometry for seismic deformation studies in Garhwal Kumaon Himalaya, Department of Earthquake Engineering, IIT Roorkee
308. Paul, D.K., **M. L. Sharma** and J. Das, (2008), EQ- 2008-46 Design Spectra for Kochi LNG Thermal Project site : Assessment & Recommendations, Department of Earthquake Engineering, IIT Roorkee
309. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ- 2008-45 Site specific Design earthquake Parameters for Anpara-D Thermal Project site Uttar Pradesh, Department of Earthquake Engineering, IIT Roorkee
310. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ- 2008-44 Site specific Design earthquake Parameters for Tanda Thermal Project site Uttar Pradesh, Department of Earthquake Engineering, IIT Roorkee
311. Kumar Ashwani, **M. L. Sharma**, A. Sinhal, N. C. Singhal, B. K. Mahashwari, S. Mukharjee, M. Shrikhande and J. Das, (2008), EQ- 2008-43 Site specific Design earthquake Parameters for Makoria HE Project site Madhya Pradesh, Department of Earthquake Engineering, IIT Roorkee
312. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2008-41 (2008) "Seismological Network Around Tehri Region" Report on processing and Interpretation of seismological Data Collected (from January 2007 to December 2007) Department of Earthquake Engineering, IIT Roorkee
313. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ- 2008-40 Site specific Design earthquake Parameters for Lower Damwe HE Project site Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
314. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ- 2008-39 Site specific Design earthquake Parameters for Upper Damwe HE Project site Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
315. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2008-38 (2008), BLT-50-2007(III), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. Oct. 2007 to Dec. 2007), Department of Earthquake Engineering, IIT Roorkee
316. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ- 2008-36 Site specific Design earthquake Parameters for Panan HE Project site Sikkim, Department of Earthquake Engineering, IIT Roorkee
317. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ- 2008-35 Site specific Design earthquake Parameters for Krishnapatnam Ultra Mega Power Project site Andhra Pradesh Department of Earthquake Engineering, IIT Roorkee
318. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ- 2008-33 Site specific Design earthquake Parameters for Daudhan Multipurpose Project site Madhya Pradesh Department of Earthquake Engineering, IIT Roorkee
319. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ- 2008-31 Site specific Design earthquake Parameters for Tato HE Project site Arunachal Pradesh . Department of Earthquake Engineering, IIT Roorkee
320. **Sharma, M. L.**, and J. P. Narayan (2008), EQ- 2008-30 Final report on Broadband Seismograph network for Modeling of Earthquake source and upper cost in the Garhwal Kumaun Himalaya region Department of Earthquake Engineering, IIT Roorkee

321. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ- 2008-28 Site specific Design earthquake Parameters for Jangi Thopan Powari HE Project site Himachal Pradesh Department of Earthquake Engineering, IIT Roorkee
322. Paul, D.K., **M. L. Sharma** and J. Das, (2008), EQ- 2008-27 Structure stability of Mullapariyar dam considering the seismic effects Part I Seismic Hazard Assessment Department of Earthquake Engineering, IIT Roorkee
323. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ- 2008-26 Site specific Design earthquake Parameters for Rampur HE Project site Himachal Pradesh Department of Earthquake Engineering, IIT Roorkee
324. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ- 2008-25 Site specific Design earthquake Parameters for Sasan Thermal Power Plant Project site Madhya Pradesh Department of Earthquake Engineering, IIT Roorkee
325. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ- 2008-24 Site specific Design earthquake Parameters for Lachung, Bhimkyong and Bop HE Project sites Sikkim Department of Earthquake Engineering, IIT Roorkee
326. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ- 2008-23 Site specific Design earthquake Parameters for Shahpur HE Project site Maharastra(REL) Department of Earthquake Engineering, IIT Roorkee
327. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ- 2008-22 Site specific Design earthquake Parameters for Mangdechhu HE Project site Bhutan Department of Earthquake Engineering, IIT Roorkee.
328. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande, B.K. Maheshwari and J. Das, (2008), EQ- 2008-19 Site specific Design earthquake Parameters for Srinagar HE Project site Uttrakhand. Department of Earthquake Engineering, IIT Roorkee
329. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ- 2008-18 Site specific Design earthquake Parameters for Rupsiabagar HE Project site Uttrakhand. Department of Earthquake Engineering, IIT Roorkee
330. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ:2008-14 Site-Specific Design Earthquake Parameter for Jamrani HE Project site, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
331. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2008-13 (2008), BLT-49-2007(III), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. July 2007 to September 2007), Department of Earthquake Engineering, IIT Roorkee
332. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ:2008-12 Site-Specific Design Earthquake Parameter for Teesta IV HE Project site, Sikkim, Department of Earthquake Engineering, IIT Roorkee
333. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ:2008-08 Site-Specific Design Earthquake Parameter for RITES Bridge-119 on Katra Quazigand Rail link project J&K, Department of Earthquake Engineering, IIT Roorkee
334. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ:2008-07 Site-Specific Design Earthquake Parameter for RITES Bridge-99 on Katra Quazigand Rail link project J&K, Department of Earthquake Engineering, IIT Roorkee
335. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ:2008-06 Site-Specific Design Earthquake Parameter for RITES Bridge-92 on Katra Quazigand Rail link project J&K, Department of Earthquake Engineering, IIT Roorkee
336. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ:2008-05 Site-Specific Design Earthquake Parameter for RITES Bridge-87 on Katra Quazigand Rail link project J&K, Department of Earthquake Engineering, IIT Roorkee

337. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ:2008-04 Site-Specific Design Earthquake Parameter for Badar pur TPP Project site, New Delhi, Department of Earthquake Engineering, IIT Roorkee
338. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ:2008-03 Site-Specific Design Earthquake Parameter for Lara TPP Project site, Chhatisgarh, Department of Earthquake Engineering, IIT Roorkee
339. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ:2008-02 Site-Specific Design Earthquake Parameter for Darlipali TPP Project site, Orissa, Department of Earthquake Engineering, IIT Roorkee
340. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2008), EQ:2008-01 Site-Specific Design Earthquake Parameter for Kayam kulam Power plant Project site, Kerala, Department of Earthquake Engineering, IIT Roorkee
341. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2007), EQ:2007-29 Site-Specific Design Earthquake Parameter for Singoli Bhatwari HE Project site, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
342. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2007), EQ:2007-28 Site-Specific Design Earthquake Parameter for Jakhol-Sankri HE Project site, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
343. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2007), EQ:2007-27 Site-Specific Design Earthquake Parameter for Ramam stage III HE Project site, Darjeeling, Department of Earthquake Engineering, IIT Roorkee
344. Sharma M. L. (2007), EQ:2007-26, Probabilistic Seismic Hazard Estimation of URI (J&K), Department of Earthquake Engineering, IIT Roorkee
345. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2007), EQ:2007-25 Site-Specific Design Earthquake Parameter for Budhil HE site, Chamba(H.P), Department of Earthquake Engineering, IIT Roorkee
346. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2007), EQ:2007-23 Site-Specific Design Earthquake Parameter for Alaknanda HE site, Uttarakhand., Department of Earthquake Engineering, IIT Roorkee
347. Wason, H. R, **M. L. Sharma**,(2007),EQ:2007-21 Installation,Monitoring,Dta acquisition and Interpretation for Seismic Monitoring in Subausiri lower HE project, Department of Earthquake Engineering, IIT Roorkee
348. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2007), EQ:2007-20 Site-Specific Design Earthquake Parameter for NMSEZ Project site, Navi Mumbai, Department of Earthquake Engineering, IIT Roorkee
349. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2007-19 (2007)"Seismological Network Around Tehri Region"Report o processing and Interpretation of seismological Data Collected (from January 2006 to December 2006) Department of Earthquake Engineering, IIT Roorkee
350. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2007-18 (2007), BLT-48-2007(II),"Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. April 2007 to June 2007), Department of Earthquake Engineering, IIT Roorkee
351. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2007), EQ:2007-17 Site-Specific Design Earthquake Parameter for Mundra Thermal Power Plant Gujarat HE site, J&K, Department of Earthquake Engineering, IIT Roorkee
352. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2007), EQ:2007-15 Site-Specific Design Earthquake Parameter for Teesta stage-III, Sikkim, Department of Earthquake Engineering, IIT Roorkee

353. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2007), EQ:2007-13 Site-Specific Design Earthquake Parameter for Kavar HE site, J&K, Department of Earthquake Engineering, IIT Roorkee
354. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2007-12 (2007), BLT-47-2007(I), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. Jan 2007 to March 2007), Department of Earthquake Engineering, IIT Roorkee
355. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2007), EQ:2007-11 Site-Specific Design Earthquake Parameter for Bharaonghati HE site, Department of Earthquake Engineering, IIT Roorkee
356. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2007), EQ:2007-10 Site-Specific Design Earthquake Parameter for Malana HE site, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee
357. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2007), EQ:2007-09 Site-Specific Design Earthquake Parameter RITES bridge no 73 on Katra Quazi Khand Rail link project, Uttaranchal, Department of Earthquake Engineering, IIT Roorkee
358. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2007), EQ:2007-08 Site-Specific Design Earthquake Parameter RITES bridge no 62 on Katra Quazi Khand Rail link project, Uttaranchal, Department of Earthquake Engineering, IIT Roorkee
359. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2007), EQ:2007-07 Site-Specific Design Earthquake Parameter for Pala Maneri HE site, Uttaranchal, Department of Earthquake Engineering, IIT Roorkee
360. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2007), EQ:2007-06 Site-Specific Design Earthquake Parameter for Jhajar thermal power plant, Haryana, Department of Earthquake Engineering, IIT Roorkee
361. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2007), EQ:2007-05 Site-Specific Design Earthquake Parameter for Rosa thermal power plant, Uttarpradesh, Department of Earthquake Engineering, IIT Roorkee
362. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2007-04 (2007), BLT-46-2006(IV), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. Oct 2006 to Dec 2006), Department of Earthquake Engineering, IIT Roorkee
363. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2007), EQ:2007-03 Site-Specific Design Earthquake Parameter for Wazirabad Bridge, Delhi, Department of Earthquake Engineering, IIT Roorkee
364. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2007), EQ:2007-02 Site-Specific Design Earthquake Parameter for Lata Tapovan H.E Project, Uttarakhand, Department of Earthquake Engineering, IIT Roorkee
365. Paul D. K., Ashok Kumar, **M. L. Sharma**, Y. Singh, H. Bungum, C. Lindholm, A. Kaynia and R. Bhasin (2007) Indo Norwegian programme of Institutional Cooperation on earthquake Engineering, Final Report 2003-2006, Department of Earthquake Engineering, IIT Roorkee, NORSAR, Norway and Norwegian Geotechnical Institute, Norway.
366. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2006-27 (2006), BLT-45-2006(III), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. July 2006 to September 2006), Department of Earthquake Engineering, IIT Roorkee
367. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2006), EQ:2006-25 Site-Specific Design Earthquake Parameter for Bav H.E Project, Maharashtra, Department of Earthquake Engineering, IIT Roorkee

368. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2006), EQ:2006-24 Site-Specific Design Earthquake Parameter for Ratle H.E Project, J&K, Department of Earthquake Engineering, IIT Roorkee
369. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2006-22 (2006), BLT-44-2006(II), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. April 2006 to June 2006), Department of Earthquake Engineering, IIT Roorkee
370. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2006-21 (2006), BLT-43-2006(I), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. January 2006 to March 2006), Department of Earthquake Engineering, IIT Roorkee
371. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2006), EQ:2006-20 Site-Specific Design Earthquake Parameter for Bongaigaon thermal power Project, Assam, Department of Earthquake Engineering, IIT Roorkee
372. Paul, D.K., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2006), EQ:2006-18 Site-Specific Design Earthquake Parameter for kiru H.E. Project, J. & K, Department of Earthquake Engineering, IIT Roorkee
373. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2006-16 (2006) Seismological Network around Tehri region - Report on processing and interpretation of seismological data collected from Jan. 2005 to Dec. 2005., Department of Earthquake Engineering, IIT Roorkee.
374. **Sharma, M. L.**, EQ:2006-15 (2006) Final report on application of DIF SAR to investigate critical deformation regimes in Garhwal Kumaoun Himalaya related to earthquakes and landslides, Submitted to DST, Department of Earthquake Engineering, IIT Roorkee.
375. Kumar, Ashok, **M. L. Sharma**, EQ:2006-13, Report on performance acceptance test for seismological instruments, submitted to GERI, Department of Earthquake Engineering, IIT Roorkee.
376. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2006-12 (2006), BLT-42-2006(IV), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. Oct 2005 to Dec. 2005), Department of Earthquake Engineering, IIT Roorkee
377. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2006-11 (2006), BLT-41-2006(III), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. July 2005 to Sept. 2005), Department of Earthquake Engineering, IIT Roorkee
378. Basu, S, **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2006), EQ:2006-09 Site-Specific Design Earthquake Parameter for Lower Siang HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee.
379. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2006-8 (2006) Seismological Network around Tehri region - Report on processing and interpretation of seismological data collected from Jan. 2004 to Dec. 2004., Department of Earthquake Engineering, IIT Roorkee.
380. **Sharma, M. L.**, D. K. Paul and Y. Singh (2006) EQ : 2006-06 Probabilistic seismic hazard assessment for KGIII site KG Basin, Department of Earthquake Engineering, IIT Roorkee.
381. Basu, S, **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2006), EQ:2006-05 Site-Specific Design Earthquake Parameter for Talong HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee.
382. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2006-04 (2006), BLT-40-2005(I), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. April 2005 to June 2005), Department of Earthquake Engineering, IIT Roorkee
383. Basu, S, **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2006), EQ:2006-03 Site-Specific Design Earthquake Parameter for Pakal Dul H.E. Project, J. & K, Department of Earthquake Engineering, IIT Roorkee.

384. Kumar, A., **M. L. Sharma**, S. C. Gupta (2006), EQ:2006-02 Report on source parameters and attenuation characteristics in the environs of Bichom and Tenga dam site, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee.
385. Wason, H. R., **M. L. Sharma** and S. C. Gupta (2006) EQ: 2006-01 Report on background noise survey for SLP project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee.
386. Basu, S, **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2005), EQ:2005-34 Site-specific earthquake parameters for Kotlibehl II HE project, Uttranchal, Department of Earthquake Engineering, IIT Roorkee.
387. Basu, S, **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2005), EQ:2005-33 Site-specific earthquake parameters for Kotlibehl I B HE project, Uttranchal, Department of Earthquake Engineering, IIT Roorkee.
388. Technical report of the Inter-Institutional Working group on the Great Tsunami of December 26, 2004 in Sumatra region (2005) Submitted to Department of Science and Technology, Government of India, New Delhi.
389. Basu, S, **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2005), EQ:2005-32 Site-specific earthquake parameters for Kotlibehl I A HE project, Uttranchal, Department of Earthquake Engineering, IIT Roorkee.
390. Basu, S, **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2005), EQ:2005-31 Site-specific earthquake parameters for Mauda Power plant, Department of Earthquake Engineering, IIT Roorkee.
391. **Sharma, M. L.**, D. K. Paul and Y. Singh (2005 EQ : 2005-29) Probabilistic seismic hazard assessment for KGD6 site KG Basin, Department of Earthquake Engineering, IIT Roorkee
392. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2005-28 (2005), BLT-39-2005(I), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. Jan 2005 to March 2005), Department of Earthquake Engineering, IIT Roorkee
393. Basu, S, **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2005), EQ:2005-27 Site-specific earthquake parameters for Farakka thermal power project, WB, Department of Earthquake Engineering, IIT Roorkee
394. Basu, S, **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2005), EQ:2005-26 Site specific earthquake parameters for Debang Multipurpose Project, Guwahati, Department of Earthquake Engineering, IIT Roorkee
395. Basu, S, **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2005), EQ:2005-25 Site specific earthquake parameters for Vishnugad-Pipalkoti HE project, Uttaranchal, Department of Earthquake Engineering, IIT Roorkee
396. Basu, S, **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, (2005), EQ:2005-24 Site-Specific Design Earthquake Parameter for Dikrong HE Project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee.
397. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2005-23 (2005), BLT-38-2004(IV), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. Oct 2004 to Dec 2004), Department of Earthquake Engineering, IIT Roorkee.
398. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, EQ: 2005-22 (2005) Site specific earthquake parameters for NH-31 Road Bridge Guwahati, Department of Earthquake Engineering, IIT Roorkee.
399. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Shrikhande and J. Das, EQ: 2005-20 (2005) Site specific earthquake parameters for Shahpurkandi HE project Site, Uttranchal, Department of Earthquake Engineering, IIT Roorkee.

400. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2005-18 (2005) Site specific earthquake parameters for Koteshwar HE project Site, Uttranchal, Department of Earthquake Engineering, IIT Roorkee.
401. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2005-17 (2005) Site specific earthquake parameters for Karcham Wangtoo HE project Site, Uttranchal, Department of Earthquake Engineering, IIT Roorkee.
402. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2005-16 (2005), BLT-37-2004(III), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. July 2004 to September 2004), Department of Earthquake Engineering, IIT Roorkee.
403. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2005-14 (2005) Site specific earthquake parameters for Tapovan Vishnugad HE project Site, Uttranchal, Department of Earthquake Engineering, IIT Roorkee.
404. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2005-13 (2005) Site specific earthquake parameters for Loharinag Pala HE project Site, Uttranchal, Department of Earthquake Engineering, IIT Roorkee.
405. **Sharma, M.L.**, EQ: 2005-12 [2005], Final Report on study of shallow earthquakes in Indian region using Differential SAR Interferometry, Report submitted to AICTE, Department of Earthquake Engineering, IIT Roorkee.
406. Kumar Ashok and **M. L. Sharma**, EQ: 2005-11 (2005), Pre Dispatch inspection of equipment, Department of Earthquake Engineering, IIT Roorkee.
407. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2005-09 (2005), BLT-36-2004(II), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. April 2004 to June 2004), Department of Earthquake Engineering, IIT Roorkee.
408. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2005-07 (2005), BLT-35-2004(I), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. Jan. 2004 to March 2004), Department of Earthquake Engineering, IIT Roorkee.
409. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2005-06 (2005) Site specific earthquake parameters for Allain Duhangan HE project Site, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee.
410. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2005-05 (2005) Site specific earthquake parameters for Chutak HE project Site, J & K, Department of Earthquake Engineering, IIT Roorkee.
411. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2005-04 (2005) Site specific earthquake parameters for Pipavav Power Plant project Site, Gujarat, Department of Earthquake Engineering, IIT Roorkee.
412. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2005-01 (2005) Seismological Network around Tehri region - Report on processing and interpretation of seismological data collected from Jan. 2003 to Dec. 2003., Department of Earthquake Engineering, IIT Roorkee.
413. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2004-22 (2004) Site specific earthquake parameters for Viyasi HE project Site, Uttranchal, Department of Earthquake Engineering, IIT Roorkee.
414. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2004-21 (2004) Site specific earthquake parameters for Lakhwar HE project Site, Uttranchal, Department of Earthquake Engineering, IIT Roorkee.
415. Wason, H. R., **M. L. Sharma**, EQ: 2004-19(2004), "Microearthquake investigations around Middle Siang HE project, Siang and Subansiri Basins, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee.

416. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2004-18 (2004) Seismological Network around Tehri region - Report on processing and interpretation of seismological data collected from Jan. 2002 to Dec. 2002., Department of Earthquake Engineering, IIT Roorkee.
417. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2004-17 (2004) Site specific earthquake parameters for Gandhar Power Plant Site, Gujarat, Department of Earthquake Engineering, IIT Roorkee.
418. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2004-16 (2004), BLT-34-2003(IV), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. Oct. 2003 to Dec. 2003), Department of Earthquake Engineering, IIT Roorkee.
419. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2004-15 (2004), BLT-33-2003(III), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. July, 2003 to Sept. 2003), Department of Earthquake Engineering, IIT Roorkee.
420. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2004-14 (2004) Site specific earthquake parameters for Chenab Railway bridge Site, J&K, Department of Earthquake Engineering, IIT Roorkee.
421. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2004-13 (2004) Site specific earthquake parameters for Anji Khand Railway bridge Site, J & K, Department of Earthquake Engineering, IIT Roorkee.
422. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2004-11 (2004), BLT-32-2003(II), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. April, 2003 to June 2003), Department of Earthquake Engineering, IIT Roorkee.
423. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2004-10 (2004), Report on the microearthquake studies in the environs of Bhichom and Tenga dam site, Kameng Hydro electric project, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee.
424. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2004-09 (2004) Site specific earthquake parameters for East Korba Thermal Power project Site, Department of Earthquake Engineering, IIT Roorkee.
425. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2004-08 (2004) Site specific earthquake parameters for Korba Thermal Power project Site, Department of Earthquake Engineering, IIT Roorkee.
426. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2004-07 (2004), BLT-31-2003(I), "Seismological Network around Tehri region - Report on processing and interpretation of seismological data collected from Jan. 2003 to Dec. 2003, Department of Earthquake Engineering, IIT Roorkee.
427. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2004-05 (2004), BLT-30-2002(IV), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. Oct. 2002 to Dec. 2002), Department of Earthquake Engineering, IIT Roorkee.
428. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2004-04 (2004) Site specific earthquake parameters for Ennore project site, Chennai, Department of Earthquake Engineering, IIT Roorkee.
429. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2004-03 (2004) Site specific earthquake parameters for NCPP Dadri Project site, Uttar Pradesh, Department of Earthquake Engineering, IIT Roorkee.
430. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2004-02 (2004) Site specific earthquake parameters for Nimu Bazgo HE project site, J & K, Department of Earthquake Engineering, IIT Roorkee.
431. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2004-01 (2004) Site specific earthquake parameters for Uri II HE project site, Jammu & Kashmir, Department of Earthquake Engineering, IIT Roorkee.

432. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2003-20 (2003) Site specific earthquake parameters for Omkareshwar HE project site, Madhya Pradesh, Department of Earthquake Engineering, IIT Roorkee.
433. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2003-19 (2003) Site specific earthquake parameters for Ujjayanata Palace, Agartala, Department of Earthquake Engineering, IIT Roorkee.
434. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2003-18 (2003), BLT-29-2002(III), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. July 2002 to Sept. 2002), Department of Earthquake Engineering, IIT Roorkee.
435. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2003-17 (2003), BLT-28-2002(II), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. April. 2002 to June 2002), Department of Earthquake Engineering, IIT Roorkee.
436. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2003-16 (2003) Site specific earthquake parameters for Kishanganga HE project site, Jammu and Kashmir, Department of Earthquake Engineering, IIT Roorkee.
437. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2003-15 (2003) Site specific earthquake parameters for Chamara stage III HE project site, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee.
438. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2003-14 (2003) Site specific earthquake parameters for Bhillai Power Plant Project site, Durg, Chattisgarh, Department of Earthquake Engineering, IIT Roorkee.
439. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2003-13 (2003) Site specific earthquake parameters for Nabinagar Power Plant Project site, Bihar, Department of Earthquake Engineering, IIT Roorkee.
440. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2003-12 (2003), BLT-27-2002(I), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from. Jan. 2002 to March 2002) , Department of Earthquake Engineering, IIT Roorkee.
441. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2003-11 (2003) Seismological Network around Tehri region - Report on processing and interpretation of seismological data collected from Jan. 2001 to Dec. 2001., Department of Earthquake Engineering, IIT Roorkee.
442. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2003-07 (2003) Site specific earthquake parameters for Lower Siang HE project site, Arunachal Pradesh, Department of Earthquake Engineering, IIT Roorkee.
443. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2003-05 (2003) Site specific earthquake parameters for Serlui B dam site, Mizoram, NE India,, Department of Earthquake Engineering, IIT Roorkee.
444. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2003-02 (2003) Site specific earthquake parameters for Sewa – II HE project site, Kathua, J&K,, Department of Earthquake Engineering, IIT Roorkee.
445. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2003-01 (2003) Site specific earthquake parameters for Dhanikhari site, Andaman and Nicobar,, Department of Earthquake Engineering, IIT Roorkee.
446. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2002-15 (2002), BLT-26-2001(IV), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from Oct. 2001 to Dec. 2001), Department of Earthquake Engineering, IIT Roorkee.
447. Basu, S., **M. L. Sharma**, J. P. Narayan, M. Srikhande and J. Das, EQ: 2002-14 (2002) Site specific earthquake parameters for Kahalgaon site, Bihar,, Department of Earthquake Engineering, IIT Roorkee.

448. Basu, S., **M. L. Sharma**, M. Srikhande and J. Das, EQ: 2002-13 (2002) Site specific earthquake parameters for Rani Avanti Bai Saagar Dam (Bargi) site, Madhya Pradesh, Department of Earthquake Engineering, IIT Roorkee.
449. Wason, H. R. and **M. L. Sharma**, EQ: 2002-11 (2002) Microearthquake investigations in Siang and Subansiri basins, Arunachal Pradesh, Phase I- Feasibility and back ground noise survey for Middle Siang HE project, Department of Earthquake Engineering, IIT Roorkee.
450. Chandra, B., S. Basu and **M. L. Sharma**, EQ: 2002-08 (2002) Site specific earthquake parameters for Upper Subansiri HE Project Aunachal Pradesh,, Department of Earthquake Engineering, IIT Roorkee.
451. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2002-07 (2002), BLT-25-2001(III), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from July. 2001 to September 2001, Department of Earthquake Engineering, IIT Roorkee.
452. Basu, S. and **M. L. Sharma**, J. P. Narayan and J. Das, EQ: 2002-06 (2002) Site specific earthquake parameters for Teesta Stage IV HE Project West Bengal,, Department of Earthquake Engineering, IIT Roorkee.
453. Basu, S. and **M. L. Sharma** J. P. Narayan and J. Das, EQ: 2002-05 (2002) Site specific earthquake parameters for Teesta Stage III HE Project West Bengal,, Department of Earthquake Engineering, IIT Roorkee.
454. Chandra, B., S. Basu and **M. L. Sharma**, EQ: 2002-04 (2002) Site specific earthquake parameters for Middle Subansiri HE Project Aunachal Pradesh,, Department of Earthquake Engineering, IIT Roorkee.
455. Chandra, B., S. Basu and **M. L. Sharma**, EQ: 2002-01 (2002) Site specific earthquake parameters for Middle Siang project Aunachal Pradesh,, Department of Earthquake Engineering, IIT Roorkee.
456. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2001-15 (2001), BLT-24-2001(II), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from Apr. 2001 to June 2001), Department of Earthquake Engineering, IIT Roorkee.
457. Chandra, B., S. Basu and **M. L. Sharma**, EQ: 2001-14 (2001) Site specific earthquake parameters for Subansiri lower HE Project Aunachal Pradesh,, Department of Earthquake Engineering, IIT Roorkee.
458. Chandra, B., S. Basu , **M. L. Sharma** and J. Das, EQ: 2001-13(2001) Site specific earthquake design parameters for Super Thermal Power plant site, NorthKaranpura, Bihar, Department of Earthquake Engineering, IIT Roorkee.
459. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2001-12 (2001), BLT-23-2001(I), "Seismological Network around Tehri Region" - Preliminary Seismological Bulletin (from Jan 2001 to Mar 2001), Department of Earthquake Engineering, IIT Roorkee.
460. Chandra, B., S. Basu, **M. L. Sharma** and J. Das, EQ: 2001-11 (2001) Site specific earthquake design parameters for Super Thermal Power plant site, Barh, Bihar, Department of Earthquake Engineering, IIT Roorkee.
461. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2001-09 Report on processing & interpretation of seismological data collected from Jan. 2000 to Dec. 2000., Department of Earthquake Engineering, IIT Roorkee.
462. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2001-07 (2001), BLT-22-2000(IV), "Seismological Network around Tehri Region" - Preliminary Seismological Bulletin (from Oct. 2000 to Dec. 2000), Department of Earthquake Engineering, IIT Roorkee.
463. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2001-05 (2001), BLT-21-2000(III), "Seismological Network around Tehri Region" - Preliminary Seismological Bulletin (from July. 2000 to September 2000), Department of Earthquake Engineering, IIT Roorkee.

464. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2001-04 (2001) BLT-20-2000(II), "Seismological Network around Tehri Region" Preliminary Seismological Bulletin (from Apr. 2000 to June 2000), Department of Earthquake Engineering, IIT Roorkee.
465. Chandra, B., S. Basu & **M. L. Sharma**, EQ: 2001-03(2001) Site specific earthquake design parameters for Parbati HE project state III Dam site, Kullu, Himachal Pradesh, Department of Earthquake Engineering, IIT Roorkee.
466. Chandra, B., S. Basu and **M. L. Sharma**, EQ: 2001-02 (2001) Site specific earthquake parameters for Metntdu Leshka Project, Meghalaya,, Department of Earthquake Engineering, IIT Roorkee.
467. Chandra, B., S. Basu and **M. L. Sharma**, EQ: 2001-01 (2001) Site specific earthquake parameters for Kameng and Damwe Project, Arunachal Pradesh,, Department of Earthquake Engineering, IIT Roorkee.
468. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2000-20 (2000), Final Report on Processing and Interpretation of seismological data from January 1999 to December 1999 of the project "Seismological Network around Tehri region", Earthquake Engineering Studies of Department of Earthquake Engineering, University of Roorkee, Roorkee, Department of Earthquake Engineering, IIT Roorkee.
469. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ: 2000-19 (2000), BLT-19-2000(I), "Seismological Network around Tehri Region" - Preliminary Seismological Bulletin (from Jan. 2000 to March 2000), Department of Earthquake Engineering, IIT Roorkee.
470. Paul, D. K., Chandra, B., S. Basu S. Mukharji and **M. L. Sharma**, EQ : 2000-15 (2000), Precaution in designing of power plant foundation and structures of Talcher II Super Thermal Power Plant site, Orissa, Department of Earthquake Engineering, IIT Roorkee.
471. Chandra, B., S. Basu and **M. L. Sharma**, EQ : 2000-14 (2000) Updation of site specific earthquake parameters for Kol dam, Himachal Pradesh,, Department of Earthquake Engineering, IIT Roorkee.
472. Chandra, B., S. Basu, **M. L. Sharma** and J. P. Narayan, EQ : 2000-13 (2000) Site specific earthquake parameters for Parbati dam stage II , Himachal Pradesh,, Department of Earthquake Engineering, IIT Roorkee.
473. Chandra, B., S. Basu and **M. L. Sharma**, EQ : 2000-12 (2000) Site specific earthquake parameters for Teesta Stage V H. E. Project, Sikkim, Department of Earthquake Engineering, IIT Roorkee.
474. Chandra, B., S. Basu and **M. L. Sharma**, EQ : 2000-11 (2000), Site specific earthquake parameters Talcher II Super Thermal Power Plant site, Orissa, Department of Earthquake Engineering, IIT Roorkee.
475. Chandra, B., S. Basu and **M. L. Sharma**, EQ : 2000-10 (2000), Site specific earthquake parameters for Tuivai Dam site, Meghalaya , Department of Earthquake Engineering, IIT Roorkee.
476. Chandra, B., S. Basu and **M. L. Sharma**, EQ : 2000-08 (2000), Site specific earthquake parameters for Rihand Super Thermal Power Plant, UP, Department of Earthquake Engineering, IIT Roorkee.
477. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 2000-07 (2000), BLT-18-99(IV), "Seismological Network around Tehri Region" - Preliminary Seismological Bulletin (from October 1999 to December 1999), Department of Earthquake Engineering, IIT Roorkee.
478. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 2000-06 (2000), BLT-17-99(III), "Seismological Network around Tehri Region" - Preliminary Seismological Bulletin (from July 1999 to September 1999), Department of Earthquake Engineering, IIT Roorkee.
479. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 2000-05 (2000), BLT-16-99(II), "Seismological Network around Tehri Region" - Preliminary Seismological Bulletin (from April 1999 to June 1999), Department of Earthquake Engineering, IIT Roorkee.
480. Chandra, B., S. Basu and **M. L. Sharma**, EQ : 2000-03 (2000), Site specific earthquake parameters for Ghatghar pumped storage scheme, Maharashtra , Department of Earthquake Engineering, IIT Roorkee.

481. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 2000-02 (2000), BLT-15-99(I), "Seismological Network around Tehri Region" - Preliminary Seismological Bulletin (from Jan. 1999 to March 1999), Department of Earthquake Engineering, IIT Roorkee.
482. Chandra, B., S. Basu and **M. L. Sharma**, EQ : 2000-01 (2000), Site specific earthquake parameters for North Chennai Thermal Power Plant site, Tamilnadu , Department of Earthquake Engineering, IIT Roorkee.
483. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 99-13 (1999), Final Report on Processing and Interpretation of seismological data from January 1998 to December 1998 of the project "Seismological Network around Tehri region", Earthquake Engineering Studies of Department of Earthquake Engineering, University of Roorkee, Roorkee, Department of Earthquake Engineering, IIT Roorkee.
484. Chandra, B., S. Basu and **M. L. Sharma**, EQ : 99-12 (1999), Site specific earthquake parameters for Mid Vaitarana Dam Site, Maharashtra, Department of Earthquake Engineering, IIT Roorkee.
485. Kumar, A., A. D. Pandey and **M. L. Sharma** , THDC Rishikesh (1999)Seismological network in and around Tehri region, Department of Earthquake Engineering, IIT Roorkee.
486. Wason, H. R., S. K. Upadhyay, **M. L. Sharma**, I. Sarkar and S. Mukhopadhaya, Final report (1999), Report on Modeling of earthquake source and earth structure in the Gearwheel Kaman Himalayan region using broad band seismic data, Submitted to DST, Department of Earthquake Engineering, IIT Roorkee.
487. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 99-10 (1998), BLT-11-98(IV), "Seismological Network around Tehri Region" - Preliminary Seismological Bulletin (from October 1998 to December 1998), Department of Earthquake Engineering, IIT Roorkee.
488. Chandra, B., S. Basu and **M. L. Sharma**, EQ : 99-07 (1999), Site specific earthquake parameters for Sipat Super Thermal Power Plant, Madhya Pradesh, Department of Earthquake Engineering, IIT Roorkee.
489. Chandra, B., S. Basu and **M. L. Sharma**, EQ : 99-06 (1999), Site specific earthquake parameters for Kalpong H. E. Project, Andaman and Nicobar, Department of Earthquake Engineering, IIT Roorkee.
490. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 99-05 (1999), BLT-13-98(III), "Seismological Network around Tehri Region" - Preliminary Seismological Bulletin (from July 1998 to September 1998), Department of Earthquake Engineering, IIT Roorkee.
491. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 99-03 (1999), BLT-12-98(II), "Seismological Network around Tehri Region" - Preliminary Seismological Bulletin (from April 1998 to June 1998), Department of Earthquake Engineering, IIT Roorkee.
492. Chandra, B., S. Basu and **M. L. Sharma**, EQ : 99-01 (1999), Site specific earthquake parameters for Auriya II power Plant structures, Uttar Pradesh, Department of Earthquake Engineering, IIT Roorkee.
493. Chandra, B., S. Basu and **M. L. Sharma**, EQ : 98-19 (1998), Site specific earthquake parameters for Anta II power Plant structures, Rajasthan , Department of Earthquake Engineering, IIT Roorkee.
494. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 98-17 (1998), Final Report on Processing and Interpretation of seismological data from January 1997 to December 1997 of the project "Seismological Network around Tehri region", Earthquake Engineering Studies of Department of Earthquake Engineering, University of Roorkee, Roorkee, Department of Earthquake Engineering, IIT Roorkee.
495. Chandra, B., S. Basu and **M. L. Sharma**, EQ : 98-16 (1998), Site specific earthquake parameters for Kawas II power Plant structures, Gujarat, Department of Earthquake Engineering, IIT Roorkee.

496. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 98-15 (1998), BLT-11-98(I), "Seismological Network around Tehri Region" - Preliminary Seismological Bulletin (from January 1998 to March 1998),, Department of Earthquake Engineering, IIT Roorkee.
497. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 98-09 (1998), BLT-10-97(IV), "Seismological Network around Tehri Region" - Preliminary Seismological Bulletin (from October 1997 to December 1997),, Department of Earthquake Engineering, IIT Roorkee.
498. Chandra, B., S. Basu and **M. L. Sharma**, EQ : 98-06 (1998), Site specific earthquake parameters Lower Kopili HE Project, NE India , Department of Earthquake Engineering, IIT Roorkee.
499. Chandra, B., S. Basu and **M. L. Sharma**, EQ : 98-05 (1998), Site specific earthquake parameters for Shillong Water Supply, Meghalaya , Department of Earthquake Engineering, IIT Roorkee.
500. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 98-01 (1998), BLT-9-97(III), "Seismological Network around Tehri Region" - Preliminary Seismological Bulletin (from July 1997 to September 1997),, Department of Earthquake Engineering, IIT Roorkee.
501. Kumar, A., A. D. Pandey and **M. L. Sharma**, NAPP/NPC Bombay (1998) Design Basis report for the digital telemetered seismic array around Narora Atomic Power Plant site, UP, Department of Earthquake Engineering, IIT Roorkee.
502. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 97-16 (1997), BLT-8-97(II), "Seismological Network around Tehri Region" - Preliminary Seismological Bulletin (from April 1997 to June 1997),, Department of Earthquake Engineering, IIT Roorkee.
503. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 97-13 (1997), BLT-7-97(I), "Seismological Network around Tehri Region" - Preliminary Seismological Bulletin, (from January 1997 to March 1997),, Department of Earthquake Engineering, IIT Roorkee.
504. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 97-11 (1997), Final Report on Processing and Interpretation of seismological data from January 1996 to December 1996 of the project "Seismological Network around Tehri region", Earthquake Engineering Studies of Department of Earthquake Engineering, University of Roorkee, Roorkee, Department of Earthquake Engineering, IIT Roorkee.
505. Brijesh Chandra, S. Basu and **M. L. Sharma**, EQ : 97-07 (1997), Site specific earthquake parameters for Tuirial dam project, Mizoram, Department of Earthquake Engineering, IIT Roorkee.
506. Chandra, B., S. Basu and **M. L. Sharma**, EQ : 97-05 (1997), Site specific earthquake parameters for Simahdari 1000 MW coal based power plant, Andhra Pradesh , Department of Earthquake Engineering, IIT Roorkee.
507. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 97-04 (1997), BLT-6-96(IV), "Seismological Network around Tehri Region" - Preliminary Seismological Bulletin (from October 1996 to December 1996),, Department of Earthquake Engineering, IIT Roorkee.
508. Agrawal, P. N. and **M. L. Sharma**, EQ : 97-03 (1997), Interpretation of Tiltmeter data from Harabagh underground vault across Shali thrust, Department of Earthquake Engineering, IIT Roorkee.
509. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 97-02 (1997), BLT-5-96(III), "Seismological Network around Tehri Region" - Preliminary Seismological Bulletin (from July 1996 to September 1996),, Department of Earthquake Engineering, IIT Roorkee.
510. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 96-19 (1996), BLT-4-96(II), "Seismological Network around Tehri Region" -Preliminary Seismological Bulletin (from April 1996 to June 1996),, Department of Earthquake Engineering, IIT Roorkee.
511. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 96-12 (1996), BLT-3-96(I), "Seismological Network around Tehri Region" -Preliminary Seismological Bulletin (from January 1996 to March 1996),, Department of Earthquake Engineering, IIT Roorkee.

512. Brijesh Chandra, S. Basu and **M. L. Sharma** , EQ : 96-09 (1995), Site specific earthquake parameters for refinery site in Gujarat , Department of Earthquake Engineering, IIT Roorkee.
513. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 96-06 (1996), Final Report on Processing and Interpretation of seismological data from January 1995 to December 1995 of the project "Seismological Network around Tehri region", Earthquake Engineering Studies of Department of Earthquake Engineering, University of Roorkee, Roorkee., Department of Earthquake Engineering, IIT Roorkee.
514. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 96-04 (1996), BLT-2-95(II), Seismological Network around Tehri Region" -Preliminary Seismological Bulletin (from October 1995 to December 1995),,, Department of Earthquake Engineering, IIT Roorkee.
515. R. Chandrasekaran and **M. L. Sharma**, EQ : 96-02 (1996), Site specific earthquake parameters for Mahadayi Hydel Project, Goa, Department of Earthquake Engineering, IIT Roorkee.
516. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 96-01 (1996), BLT-1-95(I), Seismological Network around Tehri Region" - Preliminary Seismological Bulletin (from July 1995 to September 1995),,, Department of Earthquake Engineering, IIT Roorkee.
517. Chandrasekaran, A. R., and **M. L. Sharma**, EQ : 95-23 (1995), Site specific earthquake parameters for Bhira site, Distt. Raigarh, Maharashtra , Department of Earthquake Engineering, IIT Roorkee.
518. Chandrasekaran, A. R., and **M. L. Sharma**, EQ : 95-20 (1995), Site specific earthquake parameters for Essar Refinery site, Kutch, Gujarat , Department of Earthquake Engineering, IIT Roorkee.
519. Kumar, A., A. D. Pandey and **M. L. Sharma**, EQ : 95-19 (1995), Final Report on the project "Digital Telemetered Seismic Array in Ganga Yamuna Valley for Monitoring of Local Seismicity", Earthquake Engineering Studies of Department of Earthquake Engineering, University of Roorkee, Roorkee., Department of Earthquake Engineering, IIT Roorkee.
520. R. Chandrasekaran and **M. L. Sharma**, EQ : 95-17 (1995), Site specific earthquake parameters for a combined gas based power plant project at Faridabad, Department of Earthquake Engineering, IIT Roorkee.
521. Chandrasekaran, A. R., and **M. L. Sharma**, EQ : 95-15 (1995), Site specific earthquake parameters for bridge site on river Ravi near Bhasoli, Jammu & Kashmir,, Department of Earthquake Engineering, IIT Roorkee.
522. Chandrasekaran, A. R., and **M. L. Sharma**, EQ : 95-14 (1995), Site specific earthquake parameters for a 250 MW steam power plant at Neyvelli (Tamilnadu), Department of Earthquake Engineering, IIT Roorkee.
523. Agrawal, R. C., and **M. L. Sharma** EQ : 95-10 (1995), Report on the seismological data from April 93-March 94 obtained at observatories in Ganga Yamuna Valley, Vol. XIV, Department of Earthquake Engineering, Roorkee, Department of Earthquake Engineering, IIT Roorkee.
524. Agrawal, R. C., and **M. L. Sharma**, EQ : 95-02 (1995) Station seismological bulletin for Tehri and Narendranagar Observatory for the period April 93 to March 94, Department of Earthquake Engineering, Roorkee, Department of Earthquake Engineering, IIT Roorkee.
525. Kumar, A., A. D. Pandey and **M. L. Sharma**, THDC Rishikesh (1995), Seismological network in and around Tehri region, Department of Earthquake Engineering, IIT Roorkee.
526. Agrawal, P. N., A. R. Chandrasekaran, B. C. Mathur and **M. L. Sharma**, EQ : 94-10 (1994), Site specific earthquake parameters for Renuka Dam site (Himachal Pradesh), Department of Earthquake Engineering, Roorkee, Department of Earthquake Engineering, IIT Roorkee.
527. Chandrasekaran, A. R., and **M. L. Sharma**, EQ : 94-08 (1994), Site specific earthquake parameters for Jegurupadu combined cycle power plant site (Andhra Pradesh), Department of Earthquake Engineering, Roorkee, Department of Earthquake Engineering, IIT Roorkee.

528. Agrawal, R. C., and **M. L. Sharma**, EQ : 94-07 (1994) Station seismological bulletin for Tehri and Narendranagar Observatory for the period April 92 to March 93, Department of Earthquake Engineering, Roorkee, Department of Earthquake Engineering, IIT Roorkee.
529. Agrawal R. C., and **M. L. Sharma**, EQ : 94-06 (1994), Report on the seismological data from April 92-March 93 obtained at observatories in Ganga Yamuna Valley, Vol. XIII, Department of Earthquake Engineering, Roorkee, Department of Earthquake Engineering, IIT Roorkee.
530. Kumar, A., A. D. Pandey and **M. L. Sharma**, Status report (1994), Deployment of Short Aperture Digital Telemetered Sample Seismic Array in Ganga-Yamuna Valley, submitted to the DST, Department of Earthquake Engineering, IIT Roorkee.
531. Agrawal, R. C., and **M. L. Sharma**, EQ : 93-21 (1993), Report on the seismological data from April 90-March 92 obtained at observatories in Ganga Yamuna Valley, Vol. XII, Department of Earthquake Engineering, Roorkee, Department of Earthquake Engineering, IIT Roorkee.
532. Agrawal, R. C., and **M. L. Sharma**, EQ : 93-19 (1993) Station seismological bulletin for Tehri and Narendranagar Observatory for the period April 90 to March 91, Department of Earthquake Engineering, Roorkee, Department of Earthquake Engineering, IIT Roorkee.
533. Kumar, A., A. D. Pandey and **M. L. Sharma**, Status report (1993), Deployment of Short Aperture Digital Telemetered Sample Seismic Array in Ganga-Yamuna Valley, submitted to the DST, Department of Earthquake Engineering, IIT Roorkee.
534. Kumar, A., A. D. Pandey and **M. L. Sharma**, DST, New Delhi (1992), Monitoring of microearthquake activity around Tehri region using telemetered seismic array, Department of Earthquake Engineering, IIT Roorkee.
535. Srivastava, L. S., and **M. L. Sharma**, Final report (1992), Deployment of Short Aperture Digital Telemetered Sample Seismic Array in Ganga-Yamuna Valley, submitted to the DST, Department of Earthquake Engineering, IIT Roorkee.
536. Srivastava, L. S., and **M. L. Sharma**, Status report (1991), Deployment of Short Aperture Digital Telemetered Sample Seismic Array in Ganga-Yamuna Valley, submitted to the DST, Department of Earthquake Engineering, IIT Roorkee.
537. **Sharma, M. L.**, EQ : 90-03 (1990), Data management and software for short aperture Telemetered digital seismic array in Ganga Yamuna valley, Department of Earthquake Engineering, Roorkee, Department of Earthquake Engineering, IIT Roorkee.
538. Srivastava, L. S., and **M. L. Sharma**, Status report (1990), Deployment of Short Aperture Digital Telemetered Sample Seismic Array in Ganga-Yamuna Valley, submitted to the DST, Department of Earthquake Engineering, IIT Roorkee.
539. Srivastava, L. S., H. R. Wason, Kirat Pal and **M. L. Sharma**, Status report (1989), Deployment of Short Aperture Digital Telemetered Sample Seismic Array in Ganga-Yamuna Valley, submitted to the DST, Department of Earthquake Engineering, IIT Roorkee.
540. Srivastava, L. S., B. C. Mathur, S. Basu, A. R. Chandrasekaran, A. Sinhal and **M. L. Sharma**, EQ : 88-03 (1988), Report on review of design of earthquake parameters and ground motion data for evaluation of structures of Narora Atomic Power Plant site, Department of Earthquake Engineering, IIT Roorkee.
541. Srivastava, L. S., H. R. Wason, Kirat Pal and **M. L. Sharma**, Status report (1988), Deployment of Short Aperture Digital Telemetered Sample Seismic Array in Ganga-Yamuna Valley, submitted to the DST, Department of Earthquake Engineering, IIT Roorkee.
542. Srivastava, L. S., H. R. Wason, Kirat Pal and **M. L. Sharma**, Status report (1987), Deployment of Short Aperture Digital Telemetered Sample Seismic Array in Ganga-Yamuna Valley, submitted to the DST,, Department of Earthquake Engineering, IIT Roorkee.

543. Srivastava, L. S., H. R. Wason and **M. L. Sharma**, DST, New Delhi, Status report (1986), Short Aperture Telemetered Digital Seismic Array in Ganga Yamuna Valley, Department of Earthquake Engineering, IIT Roorkee.
544. Srivastava, L. S., H. R. Wason, Kirat Pal and **M. L. Sharma**, EQ : 86-12 (1986), Status report on Short aperture telemetered sample seismic array in Ganga Yamuna Valley, Department of Earthquake Engineering, Roorkee.

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Prof. M. L. Sharma has more than 35 years of experience in teaching, research and consultancy in the area of Earthquake Engineering. In addition to regular teaching he has prepared many films on Earthquake Engineering and participated in short term courses and international projects on earthquake engineering. Prof. Sharma has rendered expert advice to more than 500 engineering sites in India and abroad regarding the seismic hazard and risk assessment. The engineering projects include major HE projects, dams, nuclear power plants, thermal power plants, bridges, high rise buildings etc. He has successfully attempted to analyse and quantify the uncertainties in final hazard estimates using PSHA. His work on seismic hazard assessment and soil characterizations has lead to the seismic microzonation of National Capital Region of Delhi. Based on the seismic hazard assessment and soil characteristic studies carried out by Prof. Sharma, the seismic microzonation of Dehradun city, Srinagar city (J&K), and Phuentsholing city in Bhutan has also been carried out which is further being used for seismic risk assessment in terms of money and death tolls.

His long association with the strong ground motion program of Department of Science and Technology has resulted in development of strong ground motion attenuation relationship for the horizontal and vertical PGA based on Indian Strong Motion data which was upgraded to spectral attenuation relationship. The relationship has been extensively used to estimate seismic hazard in India and worldwide.

Prof. Sharma played key role in the deployment of the first Digital Telemetered Seismological Sample Array in Garhwal Kumaoun Himalaya in 1985-86 in India with the aim to study present seismic status and RIS around Tehri dam. The acquired high quality digital data was used to estimate the source parameters for the first time using digital data in this region and the Seismic Moment Magnitude relationship for the Garhwal Himalaya was proposed by Prof. Sharma in 1994. Based on the data collected by these arrays, including Kol (2015-17), Lakhwar (2016-17) and Tehri (2009-2017) 3-Dimensional velocity structure was proposed for Garhwal Himalaya.

Prof. Sharma played key role in MOU for Kalpasar studies where he is the PI of the three maor schemes for Kalpasr project in Gujarat (2012-2018).

Prof. Sharma has also palyed key role in MOU between Madhya Pradesh and Uttarakhand for the seismic instrumentation of the dams under DRIP program of CWC. This MOU is being sigend on Sept 15, 2017 in Bhopal.

Prof. Sharma introduced the studies based on SAR interferometry for the deformation estimations and has been instrumental in starting the use of GIS/GPS related earthquake studies and application of SAR differential interferromtry for shallow earthquake. The convergence rates between Ganga and Yamuna Tear near the Himalayan Frontal Fault has been estimated using this methodology.

To initialize the EEW in India, IIT Roorkee was the first institute to deploy 84 sensors in seismic gap region of Garhwal Himalaya with the help of Ministry of Earth Sciences in 2015. This project was thus successfully completed in March 2017 but no measures were taken to issue the warning to public.

Subsequently, in May 2017 Government of Uttarakhand sanctioned a project to IIT Roorkee for maintenance of present earthquake early warning system, installation of 100 additional sensors covering Kumaun region, installation of sirens in SEOC at Dehradun and all district HQs of Uttarakhand and installation of 100 sirens in cities of Dehradun and Haldwani. It will be the first instant when EEW will go public.

He has been actively associated with many international programs specially with Norway, Mexico and Taiwan for disaster mitigation. The lessons learnt through many damage surveys of moderate earthquake carried out by him have resulted in advice for future in form of many of his international publications. Based on the contributions by Prof. Sharma in disaster mitigation he has been awarded the A. S. Arya-IITR Disaster prevention award -2012. He is Fellow of Indian Society of Earthquake Technology, Indian Geotechnical Society and Indian Geophysical Union.