

## Details for SEOCS Page

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**School:** Earth, Ocean & Climate Sciences

**Research Interests:** Quaternary Geology & Neo-active Tectonics, Active Fault Mapping, Paleoseismology, Earthquake Geology, Tectonics, Himalayan Geodynamics, Geoarchaeology



**Research publications:**

- (1) R. L. Mishra, I. Singh, A. Pandey, P.S. Rao, H. K. Sahoo, & R. Jayangondaperumal. Paleoseismic evidence of a giant medieval earthquake in the eastern Himalaya. *Geophys. Res. Letts.*, 2016, vol. 43 (11), pp. 5707–5715, DOI: 10.1002/2016GL068739 (IF 2020: 4.72).
- (2) R. L. Mishra, R. Jayangondaperumal, & H. K. Sahoo. Active tectonics of Dikrong valley, Northeast Himalaya, India: Insight into the differential uplift and fold propagation from river profile analysis. *Him. Geol.*, 2016, vol. 37 (2), pp. 84-95. (IF 2020/21: 1.293).
- (3) W. Imsong, F. Bhattacharya, R. L. Mishra, & S. Phukan. Geomorphic evidence of late Quaternary displacement of the Karakoram Fault in Nubra and Shyok valleys, Ladakh Himalaya. *Curr. Sci.*, 2017, vol. 112 (11), pp. 2295-2305 (IF 2020: 1.102).
- (4) R. S. Priyanka, R. Jayangondaperumal, A. Pandey, R. L. Mishra, I. Singh, R. Bhushan, P. Srivastava, S. Ramachandran, C. Shah, S. Kedia, A. K. Sharma, & G. R. Bhat. Primary surface rupture of the 1950 Tibet-Assam great earthquake along the eastern Himalayan front, India. *Nature Scientific Reports*, 2017, vol. 7:5433 (IF 2020: 4.379).
- (5) A. Pandey, I. Singh, R. L. Mishra, P. S. Rao, H. B. Srivastava, & R. Jayangondaperumal. Active tectonics in the Assam Seismic Gap between the meizoseismal zone of A.D. 1934 and 1950 earthquakes along eastern Himalayan front, India. *J. Ear. Sys. Sci.*, 2018, volume 127:66 (IF 2020: 1.371).
- (6) R. Jayangondaperumal, R. L. Mishra, P. S. Rao, R. K. Yadav, D. P. Mohanty, A. Pandey, I. Singh, A. Anil, & S. Dash. Active Tectonics of Himalaya, Rift Basins in Central India and those Related to Crustal Deformation at Different Time Scales. *Proc. Indian Natn. Sci. Acad.*, 2020, vol. 86 (1), pp. 445-458
- (7) I. Singh, A. Pandey, R. L. Mishra, P. S. Rao, A. Brice, R. Jayangondaperumal, & V. Srivastava. Evidence of the 1950 Great Assam Earthquake Surface Break Along the Mishmi Thrust at Namche Barwa Himalayan Syntaxis. *Geophys. Res. Letts.*, 2021, vol. 48 (11)
- (8) S. Khaoash, P. Mishra, P. C. Mishra, & R. L. Mishra. Insight into the exploitation of sand from the Mahanadi River system and its implication on the environment. In ‘*Vistas In Geological Research*’, Utkal Univ. Special Pubs. in Geol. (vol. 16), 2018, pp. 43-48 (Book Chapter).