

## **Study of the Sub-Himalayan Lower Cenozoic succession with special reference to the reconstruction of tectonosedimentary history of Subathu basin**

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The Sub-Himalayan Lower Cenozoic succession represented by Subathu, Dagshai and Kasauli formations bears the signature of transition from marine to continental condition within a foreland setting. This succession is proposed to be studied in a supposedly undeformed part of the Subathu basin such as around Kalakot in Jammu and Kashmir. The work will mainly encompass detailed sedimentological and palaeontological analysis of the section with an objective to decipher the tectonosedimentary history of the Subathu basin vis-à-vis Cenozoic chapter of the Himalayan orogeny. This is to be achieved through detailed sedimentary facies analysis, taxonomic and biogeographic studies on the dominant fauna and finally reconstruction of the depositional model. The findings of the work will be compared and checked with existing database and ideas from the Subathu basin-fill exposed in the Himachal Pradesh and conclusions thereof will be published in peer-reviewed international journals for information of the Earth Scientists, particularly those involved in the researches related to Himalayan orogeny.