

## Evaluation of Gola River annual discharge: an experience of spring fed Siwalik Mountain River

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### Abstrak

The stream character as such and its discharge behaviour are the gross results of a range of events and functions of nature. The word 'stream flow' as used in the present text, is referred to 'catchment yield'. This yield is obviously discharge,  $q$ , which has dimensions of volume,  $L^3$ , and time,  $T$ , expressed here onwards in cumec (one cubic metre per second) which will ultimately be converted into a single voluminous unit litre and hence referred to as  $Q$ . As the Gola River is a spring fed river, its discharge behavior is absolutely dependent on the subsurface flow of Siwalik Ranges. It has been noticed that the subsurface flow fluctuates according to the monsoonal and non-monsoonal precipitation intensity. Hence, an interesting seasonal rhythm is noticed in the monsoonal and nonmonsoonal discharge with the changing values of stream magnitude and velocity.