

Report No. - TR-170

Hydrological Studies on Dokriani Glacier in Garhwal Himalayas

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ABSTRACT

All the northern rivers of India are perennial due to regulation by snowmelt and glacier melt runoff. It may set new hydroelectric generators supplying cheap and plentiful electricity. An assessment of the water equivalent of the melting snow pack and the determination of drainage characteristics of various glaciers in the high mountains have importance for regulating the Himalayan river systems for greater hydroelectric power generation, irrigation and other benefits. In the present report hydrological studies carried out at Dokriani glacier has been presented. The data on flow, suspended sediment and computed time lag between melting and its appearance in the melt stream is reported. It also includes the general characteristics of the Dokriani glacier.