

## **Geo-Morphological Characteristics of Punpun Basin of Ganga River System**

*A. K. Lohani*

### **ABSTRACT**

Geomorphology is the study of landforms, and in particular their nature, origin, processes of development, and material composition. The climatological and watershed characteristics has direct impact on hydrologic response of a basin. In spite of the fact that the hydrologic balance of a region is dynamic and ever changing, different approaches have been made to obtain relationships involving morphological, geological and climatic characteristics. The linking of the geomorphological parameters with the hydrological behaviour of a watershed acts as a tool in understanding its hydrological response.

For the purpose of hydrological studies, geomorphological characteristics are classified in three groups; (i) linear aspects of watershed, (ii) areal aspects of watershed and (iii) relief aspects of watershed.

The river Punpun is one of the important tributaries of the river Ganga, originating from Chottanagpur hills of Palamau district in Bihar. Since Ganga Plains Regional Center has taken up the task of making Punpun basin as Representative basin for micro studies, It becomes utmost important to know the geomorphological characteristics of the basin. This report encompasses the methodology for the estimation of some of the important geomorphological parameters. Further some of the major and widely used geomorphological parameters of the Punpun basin have been evaluated.

आपो हि ष्टा मयोभुवः