

THESIS

ESTIMATION OF LONG TERM INFLOW TIME SERIES FOR MUNDA MULTIPURPOSE DAM PROJECT

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ABSTRACT

Munda Multipurpose Dam Project is runoff river hydropower project on Swat River near Munda headwork. The study aimed to estimate the inflow time series for the planning of Munda Multipurpose dam project. Data has been collected for this study, includes rainfall data, stream flow data, river diversions, etc. It was difficult to update the isohyets of the area because of unavailability of the data required for making isohyets. Instead of regional analysis as done in previous studies, correlation method was adopted to extend the short time available data. Major part of the catchments is included to update the study, which was not considered in previous studies. Short term data of zulam bridge and munda dam site is extended from 1956 to 1999.

At the end a summary of expected inflows to the Munda dam reservoir is calculated, which update the inflows from previously, calculated. It is really beneficial for the planning of dam and its appurtenant structures.