

THESIS

MAXIMIZING HYDRO POWER POTENTIAL OF SATPARA
DAM BY DIVERTING THE SURPLUS DISCHARGE OF THE
SHATUNG NULLAH



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ABSTRACT

Maximization of the hydropower potential of Satpara Dam is performed in the present study. Satpara dam project is not the part of the national grid. It will be operated on stand alone basis. The methodology adopted for this study process through data collection, increased the section of rectangular tunnel under proposed conditions. Calculate the surplus discharge of Shatung Nullah and it spread over the next months. Checked the reservoir operation of Satpara lake and computation of power and energy potential and economic benefits, by using the software of MS-Excel. Increased the design for power generation discharge from 6.0 cumecs to 9.0 cumecs under proposed conditions and get the 60% more potential from Satpara dam.