

HYDRAULIC MODEL INVESTIGATIONS OF
SAMANALAWEMA CHUTE SPILLWAY

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Samanalawewa project is a part of a comprehensive plan to develop the Walawe ganga hydropower potential. The head works consists of a dam and a chute spillway.

Hydraulic model test were carried out on a 1/60 geometric scale model to establish the hydraulic design parameters for the chute spillway. The chute proposed by the designer was different from the conventional type and hence hydraulic model investigations were necessary to study the problems associated with water surface profiles arising out of the geometry of the chute and non symmetrical gate operations and the consequent pressure distribution (both static and dynamic) on the chute bed. After studying different variants one was recommended for adoption in the final design.

Test carried out to evolve hydraulic design criteria for the chute are presented in this paper.