

## **C-01: Suitable selection of the dam site area for the Kaluganga project**

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Kaluganga, a right bank tributary of Ambanganga, traverses approx. 50 km in a northerly direction and drains an area of 350 sq km before meeting Ambanganga, near Karakolapitiya 15 km upstream of the Angamedilla anicut.

Kaluganga reservoir project was first proposed under the Mahaweli Development Programme in 1968 to develop its water resources to provide irrigation facilities for agricultural extension in the North Central Province and North Western Province and firming up irrigation in the existing Mahaweli system in the region.

The Ministry of Mahaweli Development engaged the Central Engineering Consultancy Bureau to prepare a feasibility report for the construction of head works.

The dam axes at the synclinal nose area were considered. These were aligned after careful consideration of the morphology, geological structure, rock types, cavernous limestone, weathering and overburden condition of the area. A curved axis was selected, based on the above studies. This will also minimise the length of cavernous limestone on the dam axis. Problems that may arise during the construction work were also considered.