

**C-07 Technical report on "Run of river diversion" of Manik Ganga to Kirindin Oya basin.**

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This report describes a study done by the Irrigation Department to analyse the feasibility of 'run of the river diversion' of Menik Ganga to Kirindi Oya basin to fulfil the deficit irrigation water requirement in Kirindi Oya Scheme.

According to the original proposals of Kirindi Oya Scheme, Lunugamvehera reservoir has to supply irrigation water to existing old Ellagala system (9200 acs), to the new area of 21,000 acs and if necessity arises to issue 5,000 ac ft of water to Badagiriya scheme during Yala season. But due to shortage of water, a part of the new area was not developed. During the implementation stage, water shortages were experienced even in the remaining area.

The ancient Ellagala system has an anicut built across Kirindi Oya at the down stream of the modern Lunugamvehera reservoir. The Ellagala anicut feeds 5 tanks in the old area with 2 diversion canals. Some of these tanks are inter-connected through their spillways. The 5 tanks in the Ellagala system have a considerable catchment area of their own. Since a part of the new area is situated within the catchments of these 5 tanks, considerable amount of drainage water is collected in those tanks during the cultivation of new lands.

The above inter-relationships have to be considered carefully to obtain accurate results.

In the proposed Menik Ganga diversion, an anicut is to be constructed across Menik Ganga at Co-ordinates P/3 (9.8 x 7.8) with a 16km long diversion canal to Lunugamvehera.