

C-14: Silt exclusion at Neelabemma intake across Kala Oya

A D S Gunawardana, R A D Jayanthie
(Irrigation Dept, Colombo 7)

The development of water resources of Kala Oya to irrigate about 2000 acres of land for agriculture in Pahala Puliyankulama village on the left bank of the Oya is to be undertaken by building a diversion structure and a canal system. The location of this anicut is at 'Palamkadawala' where ruins of an ancient anicut and a trace of a Yoda ela about 10 miles long are in existence where the river is about 250 ft wide. At this point there is a perennial supply mainly due to the drainage flow from Rajangana Scheme.

Once the low diversion weir (12 ft.) and the sluice leading to Yoda ela are built, there will be a necessity for provision of a silt exclusion structure at the Intake.

Hydraulic model studies carried out to investigate the siltation pattern subsequent to the construction of the weir and the effectiveness of several different excludes have been evaluated.