

SAMAKOI IRRIGATION PROJECT

The proposed Samakoi Irrigation Project is located near Chakdhar in village Biralamunda in Pallahara Sub-division of Angul district Orissa. It envisages construction of a barrage across river Samakoi in Brahmani Basin. The canal system consists of a main canal 4.9 Km long and two distributaries known as left and right .The project envisages irrigation of an ayacut of 9990 ha. in Angul district with irrigation intensity of 109 % (Kharif 96 % and Rabi 13 %) thus providing annual irrigation of 10,886 Ha. Provision of 0.36 MCM of drinking water per annum has been kept in the proposal for the population living in command area.

The catchment area of the river Samakoi at the barrage site is 787 sq.km and lies entirely in Orissa state. The annual rainfall in the catchment is of the order of 1996 mm.

A broad crested & Ogee type barrage 78 m long with 8 nos. of bays having provision of vertical lift gates of size 6.00 m x 8.00 m. The crest level of the barrage is 112 m & pond level is 118.0 m . M.W.L and T.B.L are fixed at 120.70 m & 122.0 m respectively. The barrage is designed for a flood discharge of 2298 cumecs.

The main canal of length 4.90 km is designed to carry a discharge of 12.07 cumecs. The left distributary will be 10.40 km long and the right distributary 18.00 km long. Design discharge capacity of right distributary is 10 cumecs and that of left distributary is 1,7632 cumec. CCA under main canal, Right distributary and left distributary are 354 Ha, 8190 Ha and 1446 Ha respectively .

Source - Samakoi Irrigation Project Report- Application for TOR & PFR – May,2008