

MAHENDRATANAYA IRRIGATION PROJECT

It is proposed to provide immediate irrigation facility in Rayagada, Gumma & Gosani blocks of Gajapati district and to cater the domestic needs of Paralakhemundi. It is proposed to construct two nos diversion weirs across river Jalanga & Mahendratanya in the upstream of original approved proposal for instant utilization of the water will provide irrigation to 3050Ha.

The Jalanga diversion weir is to be constructed across Jalanga, a tributary of Mahendratanya near village Champapur. This will provide irrigation facility to an area of 2040Ha on the right side of river Mahendratanya.. The Mahendratanya Diversion weir is to be constructed at Dambapur village across river Mahendratanya to create an irrigation potential of 1010Ha on the left side of Mahendratanya river.

The design flood corresponding to 128.00Sq.Km. catchment area of Mahendratanya have been calculated. As per Unit Hydrograph it is 879.00 cumecs. The design flood of river Jalanga corresponding to catchment area 261 sq.km. have been calculated. As per unit Hydrograph it is 1789.42 cumecs. The population of Paralakhemundi town estimated to be 85443 in the year 2051. Considering the water requirement @100lit/capita/day the total requirement will be in the order of 0.099 cumecs or 3.49 cusecs.

The project estimate has been prepared basing on the S.R. 2007 with enhanced labour and materials rate. The cost of the project comes to Rs.3757.22 lakhs and the cost per Ha comes to Rs.1.23 lakhs.

The right side area of about 2040Ha will be irrigated through a canal network of about 34 Km. The proposed main canal length will be 17 Km and minor & sub-minor length will be 17 Km. The left side area of about 1010Ha will be irrigated through a distribution network of 21 Km. The B.C. ratio of the project comes to 1.516