SANDUL IRRIGATION PROJECT

The Sandul Irrigation Project, the present proposal, is planned in Tel sub-basin of Mahanadi basin. The major tributaries of Tel Sub-basin include Barjarinalla, Sagada,Hati, Ret, Udanti, Indra, Lanth, Uttei, Raul, Khadago and Suktel. The river Sandul is a tributary of river Uttei, which in turn joins river Tel, a tributary of river Mahanadi. It is proposed to construct a barrage on river Sandul near village Dutta in M.Rampur block of Kalahandi district. The location of proposed barrage site is about 2.5 Km downstream of confluence of Perencho river with Sandul river . The geographical co-ordinates i.e. latitude and longitude of the weir site is 20^0-12'-09" N and 83^0-27'-37" E respectively. The reference toposheets are 65-P & 65-M.

The catchment area intercepted at the barrage site is 740 Sq.Km. There are 4nos of rain guage stations namely Narla, M.Rampur, Kesinga & Tumudibandha in and around the catchment . There is one minor irrigation project namely Bagpur nala M.I.P intercepting a catchment area of 49 Sq.Km existing in the catchment area of Sandul irrigation project. Thus the free catchment excluding the catchment of Bagpur M.I.P available for Sandul project is 740-49=691 Sq.Km. The generated yields at Sandul barrage site have been proportionately reduced for a free catchment of 691 Sq.Km. The proposed pond level of Sandul barrage is RL 183m. The command area proposed under the Sandul barrage has its boundaries as Sandul river & Uttei river on one side, Tel river on the other side . The total Gross Command Area (GCA) available below RL 180m is 8565 Ha. as measured in 1 : 50000 scale toposheets. Considering the water availability at Sandul barrage site, Kharif irrigation can be provided to 5000 Ha of CCA. The percentage of CCA to GCA works out to 58.4%. There is no provision for Rabi irrigation. The Command area mainly covers Karlamunda, Kesinga and M. Rampur blocks of Kalahandi district. The normal rainfall of Karlamunda raingauge station and the PAN Evaporation data of Bolangir IMD station has been used in the estimation of the crop water requirement. The design flood is computed to be 4468 cumecs.

There is no submergence of forest land or villages involved due to the standing Pond of the project. The project is located in the KBK districts of Odisha. The project area is mostly inhabited by scheduled caste, scheduled tribe and other backward class people living below poverty line and is also a drought prone area. The only remedial measure on account of uneven rainfall is to provide assured irrigation for which there is absolute necessity for construction of proposed project. On completion the inhabitants of 29 villages will be benefited by the assured irrigation facilities and will able to generate resources for development in the area.