

TITILAGARH IRRIGATION PROJECT

Location		
1	Dam site	Near village Sirol of Balangir District
2	Latitude	21 ⁰ -18' N
3	Longitude	83 ⁰ -06' E
4	River	Kankadjhore Nallah
5	Basin	Mahanadi
6	Sub- Basin	Tel
Hydrology		
1	Catchment area	71.20 Sqkm.
2	Minimum Annual rainfall	694.50 mm.
3	Maximum Annual rainfall	1626 mm.
4	75% dependable rainfall	1053.60 mm.
5	75% dependable runoff with 10% u/s Reservation dam	2601 Ham.
6	Design flood discharge	850 Cumec.
Reservoir Capacity & Submergance		
1	Gross storage capacity at FRL	1338 Ham.
2	Dead storage capacity at DSL	252 Ham.
3	Live storage capacity	1086 Ham.
4	Full Reservoir Level	R.L. 216.30 M.
5	Maximum Water Level	R.L. 216.30 M.
6	Dead Storage Level	R.L. 212.00 M.
7	Top Bank level	R.L. 219.30 M.
7	Submerged area at FRL	435 Ha.
Main Dam		
1	Type	Homogeneous Earth fill Dam with internal drainage chimney
2	Length	2.50 Km.
3	Height (Max)	14 M.
4	Top width	6 M.

Spillway		
1	Location	On right abutment
2	Type	Ogee Crested
3	Length	60 M.
4	No. of Bays	5 Nos.
5	Size of gates	12.0 M x 4.5 M
Distribution system		
1	GCA	3408.00 ha
2	CCA	2000.00 ha
3	Percentage of CCA to GCA	58.68%
4	Area irrigated during Khariff	1500.00 ha
5	Area irrigated during Rabi	1000.00 ha
6	Annual Irrigation	2500.00 ha
7	Intensity of Irrigation during kharif	75%
8	Intensity of Irrigation during Rabi	50%
9	Annual Intensity of Irrigation	125%
Estimated cost		
1	Total Cost of the project	Rs.2112.84 lakhs
2	Cost per ha of annual irrigation	Rs.71,622/-
3	BC Ratio @ Rate of interest	1.51
4	Financial return at the end of 10 year after completion	(-) 0.609