

GHODAHADA IRRIGATION PROJECT

Location			
1	Dam site	In Tahasil Digapahandi of Ganjam Dist.	
2	Latitude	19 ⁰ -17'-30" N	
3	Longitude	84 ⁰ -20'-30" E	
4	Topo sheet	74A/7,74A/11	
5	River	Ghodahada	
		EXISTING	REVISED
Hydrology			
1	Catchment area	138 Sqkm.	138 Sqkm.
2	Maximum flood discharge	1500 Cumec.	1500 Cumec.
3	Maximum Annual Rainfall	2094 mm.	2094 mm.
4	Minimum Annual Rainfall	968 mm.	968 mm.
5	Mean Annual Rainfall	1200 mm.	1200 mm.
Reservoir			
1	Gross storage capacity at FRL	3440 Ham.	3440 Ham.
2	Dead storage capacity at DSL	388 Ham.	388 Ham.
3	Live storage capacity at FRL	3052 Ham.	3052 Ham.
4	Full Reservoir Level	R.L.117.80 M.	R.L.117.80 M.
5	Maximum Water Level	R.L.118.30 M.	R.L.118.30 M.
6	Dead Storage Level	R.L.106.68 M.	R.L.106.68 M.
7	T.B.L	R.L.120.30 M.	R.L.120.30 M.
Main Dam			
1	Type	Homogeneous rolled earth dam	
2	Length (including Spillway)	1724 M.	
3	Height (Max)	27.23 M.	
4	Top Width of Dam	4.57 M.	
5	U/S Slope	3: 1(2:1 up to 117.80M & 3: 1 below 117.80M)	
6	D/S Slope	2: 1(2.75: 1 up to 117.80M & 2: 1 below 117.80M)	

Spillway			
1	Location	Saddle Spillway	On right flank
2	Type	Ogee type	Ogee type
3	Length of Spillway	84.50 M.	84.50 M.
4	Crest elevation	R.L.113.10 M.	R.L.113.10 M.
5	Design discharge Capacity of Spillway	1521 Cumec.	1521 Cumec.
Distribution system			
1	GCA	9161 Ha.	10160 Ha.
2	CCA	7203 Ha.	7758 Ha.
3	Percentage of CCA to GCA	79%	83 %
4	Area irrigated during Kharif	7203 Ha.	7370 Ha.(95%)
5	Full supply discharge of main canal at head (ultimate)	LMC	1.495 Cumec.
		RMC	5.35 Cumec.
6	Length of main canal	LMC	8.50 km.
		RMC	25.40 Km.
7	Length of Disty. ,minors & Sub-minors	59.98 Km.	79.98 Km.
8	Ayacut (Kharif) (Rabi)	7203 Ha.	8447 Ha.
		Nil	1200 Ha.
Head Sluice			
1	Sill Level	R.L.103.85 M.	R.L.103.85 M.
2	No. of Vents	02 Nos.	02 Nos.
3	Size of Vents	1.07 M x 1.45 M	1.07 M x 1.45 M
4	Maximum Discharge	6.85 Cumec.	6.85 Cumec.