

CHHELIGADA IRRIGATION PROJECT

Location		
1	Dam site	Near village Chheligada (R.Udayagiri Block) in Paralakhemundi Sub-divn. of Gajapati Dist.
2	Latitude	19 ⁰ -12'-00" N
3	Longitude	84 ⁰ -16'-00" E
4	Toposheet	74A/7,A/4,A/8,A/11,A/15
5	River	Badajore (A Tributary of Vansadhara)
6	Nearest town	100 Km. from Berhampur
Hydrology		
1	Catchment area (At Dam site)	173.50 Sqkm.
2	Mean monsoon rainfall	1115 mm.
3	Maximum monsoon rainfall	1465 mm.
4	Maximum flood discharge	1769 Cumec.
5	Maximum Annual Rainfall	2249 mm.
6	Minimum Annual Rainfall	655 mm.
7	Mean Annual Rainfall	1384 mm.
8	Maximum monsoon yield (Year 1993)	11182 Ham.
9	Minimum monsoon yield (Year 1987)	1317 Ham.
10	75% dependable monsoon yield	6017 Ham.
11	90% dependable monsoon yield	3824 Ham.
12	75% dependable monsoon yield with deducting 10% for U/S utilization	5414 Ham.
Reservoir		
1	Gross storage capacity at FRL/MWL	5201 Ham.
2	Dead storage capacity at DSL	875 Ham.
3	Live storage capacity at FRL	4326 Ham.
4	Full Reservoir Level	R.L.599.835 M.
5	Maximum Water Level	R.L.599.835 M.
6	Dead Storage Level	R.L.587.835 M.
7	Submerged area at FRL	574 Ha.

8	Top Bank Level	R.L.602.835M.
9	B.L of river at deepest section	R.L.566.560 M.
Main Dam		
1	Type	Masonry Dam
2	Length of Dam (including Spillway)	250 M.
3	Max.Height of Dam at deepest river bed	36 M.
4	Top Width of Dam	6 M.
5	Average Height of Dam	18 M.
Spillway		
1	Type	Central Ogee type
2	Length of Spillway	90.50 M.
3	Crest Level of Spillway	R.L.593.835 M.
4	Size & Type of Gates	12Mx6M , 6 radial gates
5	Width of pier	2.50 M.
6	Spillway Capacity	1894 Cumec.
Tunnel & Open Cut		
1	Length of Tunnel	415 M.
2	Length of Open Cut	1325 M.
Distribution system		
1	CCA	380 Ha.
2	Kharif intensity	95%
3	Rabi intensity	9%
4	F.S.L of main canal at head regulator of existing Ramanadi Anicut	R.L.106.40 M.
5	Full supply discharge of main canal at head (ultimate)	244 Cusec.(6.908 Cumec.)
6	Approximate length of main canal	18.60 Km.
7	Name of Blocks benefited	Sanakhemundi block of Ganjam district.
Submergence		
1	Submergence area at FRL/MWL (i) Forest Land : 117 Ha. (ii) Govt.Land : 310 Ha. (iii) Private Land : 147 Ha.	574 Ha.

2	No. of villages submerged	04 Nos.
3	No. of families affected	178 Nos.
4	No. of population affected	782 Nos.
Estimated cost		
1	Cost of the project	Rs.5296.74 Lakh.
2	Cost of Head Works	Rs.3922.96 Lakh.
3	Cost of Distribution system	Rs.1374.00 Lakh.
4	Cost per ha of irrigation	Rs.92,370.00
5	BC Ratio	2.77
6	Irrigation share in cost of project (Rs.1508 +Rs.1374)	Rs.2882.00 Lakh.
7	Irrigation Share in cost of Head Works	Rs.1508.00
8	Drinking water share	Rs. 2414.00