

(I) ANANDAPUR BARRAGE PHASE-I

Location			
		Present	Proposed
1	Project site	In Anandapur & Bhadrak Sub-divn. of Keonjhar & Bhadrak District.of state Orissa	In Anandapur & Bhadrak Sub-divn. of Keonjhar & Bhadrak District.of state Orissa
2	Topo sheet	73k/8	73k/8
3	River	Salandi	Salandi
4	Nearest Railway station	Bhadrak	Bhadrak
Hydrology			
1	Catchment area in Orissa	673 Sqkm.	673 Sqkm.
2	Average Annual rainfall	1550 mm.	1550 mm.
3	Yield	493 Sqm.	493 Sqm.
4	Design flood at Dam site	5140 Cumec.	5140 Cumec.
Reservoir			
1	Gross storage capacity at F.R.L	565 M Cum.	565 M.Cum.
2	Gross storage capacity at M.W.L	601 M Cum.	601 M.Cum.
3	Dead storage capacity	8.50 M Cum.	8.50 M.Cum.
4	Live storage capacity	556.50 M.mcm.	556.50 M.mcm.
5	Full Reservoir Level	R.L. 82.30 M.	R.L.82.30 M.
6	Maximum Water Level	R.L. 83.21 M.	R.L.83.21 M.
7	Dead Storage Level	R.L. 50.24 M.	R.L.50.24 M.
8	Minimum Bed level of River	R.L. 31.08 M.	R.L.31.08 M.
9	Average Bed level of River	R.L. 34.13 M.	R.L.34.13 M.
10	Area of submergence	31.80 Sqkm.	31.80 Sqkm.
Main Dam			
1	Length of Earth Dam	640 M.	640 M.
2	Maximum Height of Earth Dam	48.77 M.	48.77 M.

3	Maximum Height of Masonry Dam	51.82 M.	51.82 M.
4	Top width of Dam	7.60 M.	7.60 M.
Spillway			
1	Location	Side Spillway (Right side)	Side Spillway (Right side)
2	Type	Ogee type	Ogee type
3	Length of Spillway	144.60 M.	144.60 M.
4	Crest Level of Spillway	R.L.72.60 M.	R.L.72.60 M.
5	Design discharge	3256 Cumec.	3256 Cumec.
6	River sluice gates	03 Nos.	03 Nos.
7	Size of River sluice gates	1.52 M x 2.27 M with sill at R.L.49.71 M.	1.52 M x 2.27 M with sill at R.L.49.71 M.
8	Type of gates	Radial	Radial
9	No. of Radial gates	08 Nos.	08 Nos.
10	Size of Radial gates	12.20 M x 6.10 M.	12.20 M x 6.10 M.
Distribution system			
1	<u>Right Main Canal</u>		
	(i) GCA	50220 Ha.	50220 Ha.
	(ii) CCA	35133 Ha.	40178 Ha.
	(iii) Design Discharge of main Canal	46534 Cumec.	46534 Cumec.
	(iv) Sill Level of Head Regulator	37.534 M.	37.534 M.
	(v) Length of Main canal	10.20 Km.	10.20 Km.
	(vi) Design discharge of Head Regulator	55.94 Cumec.	55.94 Cumec.
	(vii) No. & Size of Gates	03 Nos.(6.10M. x 2.44M.)	03 Nos.(6.10M.x2.44M.)
	(viii) Bed width	26 M.	26 M.
	(ix) Full Supply Depth	2.24 M.	2.24 M.
	(x) Bed Level	37.536 M.	37.536 M.
(xi) Duty	1286 Ha./Cumec.	1286 Ha./Cumec.	

	<u>Left Main Canal</u>		
	(i) GCA	57160 Ha.	57160 Ha.
	(ii) CCA	44713 Ha.	45730 Ha.
	(iii) Design Discharge of main Canal	84.90 Cumec.	84.90 Cumec.
	(iv) Sill Level of Head Regulator	37.795 M.	37.795 M.
2	(v) Length of Main canal	7.00 Km.	7.00 Km.
	(vi) Design discharge of Head Regulator	93.50 Cumec.	93.50 Cumec.
	(vii) Size of Gates	(6.10M. x 2.44M.)	(6.10M.x2.44M.)
	(viii) Bed width	36.50 M.	36.50 M.
	(x) Bed Level	37.185 M.	37.185 M.
3	CCA Irrigation (i) Kharif (ii) Rabi	44713 Ha./35133 Ha. 10121Ha./2662 Ha.	45730 Ha./40178 Ha. 10121 Ha./2662 Ha.
Estimated cost			
1	Total Cost of the project	Rs.3607.10 Lakh.	Rs.3607.10 Lakh.

(II) SALANDI SANSKAR SYSTEM

Location		
1	Name of the Project	Implementation of flood control and drainage scheme of River Salandi, Nalia & Gopalia Inundation Canal System
2	Name of River/Tributary	Salandi and Branches Nalia
3	River basin	Baitarani
4	State	Orissa
5	Topo Sheet	73k/8
6	Command Area	Dasmouza Gopalia inundation canal system Bhadrak & Balesore District.
Hydrology		
1	Catchment area at Hadgrah Dam site	673 Sqkm.
2	Intensity of Irrigation	110%
3	Yield	493 Sqm.
4	Design flood for raising & strengthening of flood protective embankment	570 Cumec. (20,000 cusec)
5	Observed flood at Rajghat (1999)	224 Cumec. (11,440 Cusec.)
PROJECT		
1	Type	Flood control & Drainage
2	Length of Embankment	67.40 km.
Distribution system		
1	CCA	7111 Ha.
Estimated cost		
1	Total Cost of the project	Rs.9914.36 Lakh.
2	Estimated life of project	50 years

(III) ANANDAPUR BARRAGE PHASE-II

Location		
1	Project site	Near village Anandapur in Anandapur Sub-divn. of Keonjhar District.of state Orissa
2	River	Baitarani
3	Basin	Baitarani
Hydrology		
1	Catchment area	8570 Sqkm.
2	2.75% dependable Yield	88797 Ham.
3	Design flood at Barrage site (100 years) (500 years)	12172 Cumec. 15520 Cumec.
Reservoir		
1	Pond Level	R.L. 44.00 M.
2	Crest Level	R.L. 34.00 M.
3	Deepest Bed Level	R.L. 33.00 M.
4	Top level of Aflux Bundh	R.L. 47.50 M.
BARRAGE		
1	Location	Lat. 86 ⁰ -08' E Long. 21 ⁰ -13' N
2	Length of Barrage	491.60 M.
3	No of Bays	River Bays – 25 Under Sluices - 8
4	Size of Gates	River Bays – (12M x 9M) Under Sluices – (12Mx10M)
5	Types of Gate	Vertical Lift Gate.
Distribution system		
1	GCA	67500 Ha.

2	CCA	60000 Ha.
3	Area irrigated during Kharif	56720 Ha.
4	Annual Irrigation	56720 Ha.
Estimated cost		
1	Total Cost of the project	Rs.48226.33 Lakh.