

ONG IRRIGATION PROJECT
SALIENT FEATURES

1. GENERAL

a) State	Orissa
b) District	Bargarh
c) Sub-Division	Padampur
d) Village	Pujharipali (15 Km from padampur)
e) River	Ong River

2. LOCATION

a) Latitude	21 ⁰ -05'-29" N
b) Longitude	83 ⁰ -03'-06" E
c) Topo sheets	64 -K,L,O & P

3. HYDROLOGY.

a) Catchment area	2321 Sq.Km.
b) Catchment area inside Orissa	1282 Sq.Km.
c) Catchment area inside Chhatisgarh	1039 Sq.Km.
d) Max. annual rainfall	1996 mm.
e) Min. annual rainfall	625.20 mm.
f) Average annual rainfall	1141.20 mm
g) 75% dependable yield	33983 Ham.
h) 50 % dependable yield	49608 Ham.
i) Maximum flood discharge	13990 Cumecs.

4. RESERVOIR

a) Dead storage level	209.50 m.
b) Full reservoir level	219.00 m.
c) Maximum water level	219.00 m.
d) Dead storage capacity at D.S.L	4100 Ham.
e) Gross storage capacity at F.R.L	33000 Ham.
f) Live storage capacity	28900 Ham.

5. SUBMERGENCE

a) No of villages fully submerged	11 No.
b) No of village partially submerged	21 Nos.
c) Land submerged	230.13 Ha.
1. In the reservoir	217.58 Ha.
2. In the command area	12.55 Ha.

6. MAIN DAM.

a) Type	Homogeneous Rolled Earth filled
b) Total length of the Dam	7480 m.
c) Max. Height of the Dam	30.00 m.
d) Top width	6.00 m.
e) Free board	3 m.

7. SPILLWAY.

a) Location	Central spillway
b) Type	Ogee with radial gates
c) Length of spillway	195 m.
d) Design discharge	13990 Cumecs.
e) Crest level of spillway	195 m.
f) No. of bays	11 nos.

g) Size of gates in Nos.	15 mx12 m
h) Deepest foundation level	183 m.
8. DETAILS OF COMMAND AREA	
a) Gross command area	40,000 Ha.
b) Cultivable command area	30,000 Ha
c) Area of Khariff	22,500 Ha
d) Area of Rabi	12,000 Ha
f) Total annual irrigation	34,500 Ha
9. COST ESTIMATE	
a) Total cost of the project	Rs.304.66 Crores.
b) Cost / Ha. of annual Irrigation	Rs. 88307.24
c)Benefit Cost Ratio at 10% rate of interest	1.8
10. CANAL SYSTEM	
A. Left main canal (Melchhamunda Main Canal)	
1. C.C.A	23464 Ha.
2. Discharge	27.20 Cumecs
3. Silt level of head regulator	207.00 m.
4. Length of canal	30.30 Km.
5. Design discharge of head regulator	28.40 Cumecs
6. No. of gates in head regulator	3 Nos.
7. Size of each gate	2.50mx 2.50 m
8. Bed width	11.50 m.
9. F.S.D	2.20 m
10. No. of villages to be benefitted	97 Nos.
B.Right main canal (Sativata Main Canal)	
1. C.C.A	6536 Ha.
2. Discharge	6.86 Cumecs
3. Silt level of head regulator	207.50 m.
4. Length of canal	7.50 Km.
5. Design discharge of head regulator	8.23 Cumecs
6. No. of gates in head regulator	2 Nos.
7. Size of each canal	2.00 mx 1.50 m
8. Bed width	6.90 m.
9. F.S.D	1.45 m
10. No. of villages to be benefitted	26 Nos.

Reference:

Report on Meeting with E-I-C cum Secretary, works Department, Govt.of Orissa on Realignment of MDR-36, due to implementation of Ong Dam Project.
Date-24.10.2007