

BRUTANG IRRIGATION PROJECT

SALIENT FEATURES

1. GENERAL.

a) Nearest Village	: Manjan
b) River	: Brutanga (A tributary of River)
c) District	: Nayagarh
d) Latitude	: 20°-22' to 20°-23'- 0'' N
e) Longitude	: 84°-41' TO 84°-48'-0'' E
f) Topo Sheet Reference	: 73 D/11
g) Nearest Railway station	: Khurda Road (Jatni)
h) Distance from	
a. District Head Quarters (Nayagarh)	: 70 Kms
b. Nearest Town (Daspalla)	: 30 Kms
c. State Capital (Bhubaneswar)	: 160 Kms.
i) Nearest police station	: Daspalla

2. HYDROLOGY.

a) Catchment area River Brutanga at Dam site.	: 725.00 Sq.Km
b) Reference Topo Sheet	: 73 D/6, 73 D/7, 73 D/10, 73 D/11,
c) Mean rainfall	: 1171 mm.
d) Runoff at the dam site in a 75% Dependable year	: 23004.87 Ham.
e) Runoff available at dam site in a 50% dependable year	: 28664.67 Ham.
f) Design discharge of the spillway	: 4930 Cumecs.

3. RESERVOIR

a) Type of dam	: Earth Dam
b) Length of Dam	: 552 m
c) Dead storage level	: 145.00 m
d) Full Reservoir Level	: 165.00 m
e) Maximum Water Level	: 165.00 m
f) Top Bank Level	: 168.00 m
g) Bed Level of river at dam site	: 126.00 m
h) Free Board	: 3.00 m
i) Height of Dam	: 42.00 m
j) Top width of Dam	: 6.00 m
k) Gross storage	: 24249.00 Ham.
l) Dead storage	: 2090 ha.m
m) Live storage	: 22159 ha.m
n) Water spread area	: 2110 ha

4. SPILLWAY

a) Position of Spillway	: Saddle spillway
b) Type of Spillway	: Ogee Type
c) Crest Level of Spillway	: 156.00 m
d) Design discharge of Spillway	: 4930.00 Cumecs
e) No and Size of gates	: 8 (13mx9m)
f) Thickness of pier	: 3.00m
g) Clear waterway	: 104.00 m
h) Length of Spillway	: 120.00 m

5. AYACUT

a) District	: Nayagarh
b) Block	: Daspalla.Nuagaon, Khandapada
c) G.C.A	: 31110Ha.
d) C.C.A	: 23330Ha.

- e) Khariff : 21000 Ha.
 f) Rabi : 10000 Ha.
 g) Design Discharge : 27 Cumecs
 h) Bed width of main canal : 18.00 m
 i) F.S.D : 1.80 m

6. SUBMERGENCE

- a) No of village fully submerged : 11 nos
 b) No of village partly submerged : 10 nos
 (with population of village)
 c) No of village partly submerged : 20 nos
 (without population)

- d) No of families affected : 449 Nos
 1. General : 53 Nos
 2. S.C : 180 Nos
 3. S.T : 216 Nos

- e) Population affected. : 1920 Nos
 1. General : 274 Nos
 2. S.C : 722 Nos
 3. S.T : 924 Nos

- f) Land submerged within : 2110 ha
 reservoir area.

- Forest land : 1009 ha.
 Govt land (including river) : 582 ha
 Agricultural land : 510 ha
 Homestead land : 9 ha

7. Tree within reservoir : 85120 Nos

8. Road communication submerged : S-H-1(1200 M)

7. Cost

- Cost of the project : 20525 lakhs
 Cost of Ha. Of C.C.A : 0.88 lakhs
 Cost Benefit ratio : Rs 1.92 lakhs