

# KATRA ROJECT

## SALIENT FEATURES

### 1. **General.**

1. District :MAYURBHANJ.
2. Block Bangiriposi
3. Latitude :22<sup>0</sup>-09'-10" N
4. Longitude : 86<sup>0</sup> -32'-30" E

### 2 **Hydrology**

- 1.Catchment area : 208.00Sq.Km
- 2.Mean annual Rain fall :1471.14 mm
3. Maximum Annual Rainfall : 2147.50 mm
- 4.. Minimum Annual Rainfall : 855.20 mm
- 5.. 75% Dependable yield :6875.23 Ham.

### 3. **Reservoir**

1. Full reservoir Level : 126.00 m
2. Maximum water level : 126.00 m
3. Dead storage Level( D.S.L) : 140.00 m
4. Gross Storage at FRL : 6776.29 Ham.
5. Dead storage capacity : 297.00 Ham
6. Live storage capacity : 6261.58 Ham
7. Top level of Dam : 129.00 m
8. Submerged Area at MWL : 975.00 Ha.
9. Submerged Area At D.S.L :158.00 Ha.

### 4. **Dam:**

1. Type of Dam : Earth Fill Homogenous Dam
2. Total length of dam ; 3930.00m
3. Top Width of Dam : 6.0 m
3. Maximum height of Dam : 29.00 m

### 5. **Spillway**

1. Type of Spillway : Ogee Shape Side Spillway
2. Length : **102.00m**
3. Spillway Capacity (Design Flood) :3050.40 Cumecs
3. Crest level of spillway :118.00 m

## **6. IRRIGATION SYSTEM.**

1. Gross Command Area ( G.C.A)	: 13000 Ha.
2. Culturable Command Area (C.C.A)	: 8000 Ha.
3. Intensity of Kharif Irrigation	: 85%
4. Intensity of rabi irrigation	: 53%
5. Area irrigated during khariff	: 7200 Ha.
6. Area irrigated during Rabi	: 4240.0 Ha.
7. Total annual irrigation	: 11440 Ha.
8. Length of main canal (Right)	:7.50 Km.
9. Length of main canal (Left)	:11.50 Km.
10. Design discharge of main canal (Right)	:1.58 Cumecs
11. Design discharge of main canal (Left)	:9.75 Cumecs

## **7. COST BENEFIT.**

1. Benefit cost ratio	: 1.67
( At 10% interest rate)	

## **8. POWER GENERATION.**

1. proposed hydel power unit to be installed at canal head regulator	:2 Nos.
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Reference:

Pipe line project

20.03.09