

CHAMPALIJORE IRRIGATION PROJECT

SALIENT FEATURES

1. **General.**

1. State : Odisha.
2. District : Sambalpur
3. Sub-Division : Rairakhol
4. Village : Penthabahal
5. River : Champalijore Nallah
6. Blocks to be benefitted : Naktideula

2. **Location.**

1. Latitude : 21⁰-14'-30" N
2. Longitude : 84⁰-31'-30" E
3. Topo sheet Reference : 73-C/8, C/11, C/12
4. Near Rail Head : Rairakhol of E.C Rly. (30 Km to Project Site)
5. Distance from state capital to project site : 275 km

3. **Hydrology.**

- (a) Catchment area : 189.00 Sq.Km.
- (b) Rain fall
 1. Maximum Annual Monsoon Rainfall : 2200.00 mm
 2. Minimum Annual Monsoon Rainfall : 836.00 mm
 3. 75% dependable year monsoon rainfall : 1244.00 Ham.
 4. Net 75% Dependable yield : 6106.00 Ham.
 5. Design Flood discharge : 1887.00 Cumes.

4. **Reservoir**

1. Gross Storage Capacity at FRL : 5073.00 Ham. ;
2. Dead storage capacity : 297.00 Ham
3. Live storage capacity : 4776.00 Ham
4. Full reservoir Level : 190.50 m.
5. Dead storage Level : 180.81 m.
6. Top Bank Level : 193.50 m.
7. Submerged Area at FRL /MWL : 656.00 Ha.
8. No. of village submerged : 7 Nos.
(4 nos fully & 3 nos partly)
9. Length of N.H. to be submerged : Nil.
10. Length of MDR to be submerged : 3 Kms.
11. Forest area to be submerged : 365.00 Ha.

5. Submergence:

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|------------------------------------|--|
| 1. Villages affected | : 4 Nos. (fully) & 3 Nos. (Partly) |
| | Majhipal |
| | Charadapasi |
| | Kaunsipal |
| | Tileimal |
| | Similipal |
| | Penthabahal |
| | Saradhapur |
| 2. Families affected | : 272 Nos. (S.T-81, S.C-14, Gen-177) |
| 3. Cultivate Land submerged | : 234.00 Ha. |
| 4. Land required for Head Work | |
| (a) Private Land | : 10.00 Ha. |
| (b) Revenue Land | : 185.00 Ha. |
| (c) Forest Land | : 365.00 Ha. |
| 5. Land Required to Disty. System. | |
| (a) Private Land | : 124.20 Ha. |
| (b) Revenue Land | : 72.45 Ha. |
| Total | 990.65 Ha. |

6. Dam:

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|--------------------------|-----------------------------|
| 1. Type | : Homogenous Earth Fill Dam |
| 2. Length of dam | : 1000.00m. |
| 3. Maximum height of Dam | : 20.00 m |
| 4. Top Width | : 6.00 m |

7. Spillway

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|----------------------------|----------------|
| 1. Type of Spillway | : Ogee Crested |
| 2. Length | : 93.82m |
| 3. Crest level of spillway | : 184.50 m |
| 4. Size of Gate | : 12 m x 6.0 m |
| 5. Number of bays | : 9 Nos. |

8. Distribution system:

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|------------|------------|
| 1. G. C. A | : 7000 Ha. |
| 2. C .C. A | : 5600 Ha. |