



GOVERNMENT OF ODISHA

DEPARTMENT OF WATER RESOURCES

RET DAM DIVISION, KUTTINGPADAR.

Dist : Kalahandi

ANNUAL REPORT 2017-18



Executive Engineer
Ret Dam Division
Kuttingpadar

PREFACE

The Ret Dam Division, Kuttingpadar, is looking after the Head works of Ret irrigation project, consisting Dam, spillway and Head Regulators of canals (left & Right), under the Chief construction Engineer, Ret irrigation Project, Bhawanipatna. There is one Rehabilitation Sub- Division under this Division looking after the R&R issues.

This booklet contains 1. Status Report, 2. Physical/financial progress, 3. SQM reports and compliance, 4. Visit of higher authorities, 5. Recent photographs and 7. Conclusion.

We are thankful to our Principal Secretary for encouraging us to prepare such a booklet, which will be of great help to know about the functioning of this Division.

Executive Engineer
Ret Dam Division
Kuttingpadar

RET IRRIGATION PROJECT

SALIENT FEATURES

GENERAL:

State	:	Odisha
District	:	Kalahandi
Sub-Division	:	Bhawanipatna
Village	:	Kuttingpadar
River	:	Ret
Location	:	Latitude:19 ⁰ -56'8"N
	:	Longitude:83 ⁰ -18'42"E
	:	Topo sheet No.65M/1,65M/6, 65M/5, 64P/4, and 64P/8

HYDROLOGY

Catchments area	:	262.00 Sq.km
Max. Annual Monsoon Rain fall	:	2178.10mm
Min Annual Monsoon Rain fall	:	657.85mm
Mean Annual Monsoon Rain fall	:	1198.74mm
Max. flood discharge	:	2620 Cumecs

RESERVOIR

Gross Storage at F.R.L.	:	6776.50 Ham
Dead Storage capacity	:	812.031 Ham
Live Storage	:	5964.47 Ham
F.R.L./M.W.L	:	305.00 M
T.B.L.	:	308.00M
D.S.L.	:	287.40 M
Submerged area at D.S.L.	:	175.47 ha
Submerged area at F.R.L./M.W.L	:	808.13 ha
Forest land submerged	:	19.91 ha
Govt. Land	:	233.21 ha
Private Land	:	555.01 ha
Agricultural land submerged	:	340.00 ha
No. of village affected	:	15 (9 fully submerged & 6 partly)
No. of families affected	:	(473+325) =798 (ST-333, SC-157, Gen-308)
Population affected	:	1219 (M-610 & F-609) ST-688, SC-175, Gen-356

DAM

Type	:	Homogeneous Earth Fill Dam
Length	:	1054M
Maximum Height	:	36.40 M
Deepest Level of River Bed	:	271.60M
Top width	:	6.00 M

SPILLWAY

Location	:	Central Spillway
Type	:	Ogee crested
Length	:	87.00M
Size of gate	:	12M X 8M (6 nos)
Type of Gate	:	Radial

DISTRIBUTION SYSTEM

G.C.A.	:	14167 Ha
C.C.A.	:	8500 Ha
Percentage of C.C.A to G.C.A	:	60 %
<u>Intensity of Irrigation</u>		
Khariff	:	85%
Rabi	:	30%
Total annual Irrigation	:	9775 ha
Length of Main Canal		
Left Main Canal	:	17.075 km
Right Main Canal	:	12.30 km
Capacity of Main Canal		
Left Main Canal	:	6.80cumec
Right Main Canal	:	4.905cumec
Left Ayacut / village Irrigated	:	4890ha/53 villages
Right Ayacut / village Irrigated	:	3610ha/44 villages

POWER GENERATION

Proposed Hydel. Power		
Unit to be installed in		
Left Main Canal	:	02 Nos, 420 K.W each.
Cost of installation	:	25.00 Lakhs

COST ESTIMATE

Cost of Head works (Unit-I)	:	Rs. 541.98Crores
Cost of Distribution System (Unit-II)	:	Rs. 226.48 Crores

TOTAL : **Rs. 768.46 Crores**

Cost per ha of C.C.A.	:	Rs. 9, 04,071.00
B.C. Ratio	:	1.1

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