

Catchment Area Treatment Plan (CAT) for Forest Land to be diverted for Sita Rama Lift Irrigation Project in Kothagudem Forest Division in favour of Chief Engineer, Irrigation Projects, Khammam of Kothagudem Circle of Bhadracharya Kothagudem District

Purpose of CAT Plan:

- i. To prevent the run off of silt and debris load into the canals from the susceptible hillock sides along the canal.
- ii. To stabilise the hillock sides, which otherwise may be unstabilised due to the cutting of the hillocks for the construction of the canals of SRLP passing through the forest.

Accordingly, keeping in view of the above points the following operations are proposed with a financial out lay of **Rs. 68.57909 lakhs.**

The project is linear in nature, water will be lifted from the Godavari River, carried through Canals proposed (Pressure Main and Gravity canals, distributaries) and stored in the existing reservoirs, which are located outside the forest areas. **The details are as follows:**

Rough stone packing along the Canal passing through the hillocks:

It is also proposed to construct the Rough stone packing along the Canal passing through the hillocks, falling in Chandrugonda and Julurupadu Ranges with a financial out lay of **Rs. 45.586 lakhs.** It is basically to stabilize the hillock sides and to control the soil erosion and to safe guard the canal banks from the gusty flow of rainy water with eroded material.

Soil and Moisture Conservation works (SMC):

The Soil and Moisture Conservation works like Rock fill dams, Mini Percolation tank, Major percolation tanks and staggered contour trenches are proposed in Chandrugonda and Julurupadu Ranges with a financial out lay of **Rs. 17.994 lakhs.** The design of the PTs are enclosed.

The Rock fill dams are proposed in the first order streams to cut off the flow velocity of the rainy water, there by reduces the flow velocity in the 2nd and 3rd order streams, there by the soil and water run off losses will be controlled. It also retains the water and helps in the ground water recharge.



Nursery Infrastructure:

Nursery Infrastructure is proposed in Julurupadu Range with a financial out lay of **Rs. 5.00 lakhs** to support the planting programme under CAT Plan.

S. No.	Scheme Proposals	Cost in Lakhs
I.	Protection of Remnant Blocks - Digging of peripheral trench	0
II.	Rough Stone packing at canal passing through the hillocks	45.58554
III.	Bund Planting 3 Rows (3x2) Bund Planting on Trenches & Babul See Broadcasting inside Trench	0
IV.	Soil and Moisture Conservation Works	17.99355
V.	Planting of Rare/Medicinal Species (50000) local indigenous tree and shrub species	0
VI.	Infrastructure	5.000
VII.	Creation of fire lines in Remnant Block	0
	Total:	68.57909

MODE OF EXECUTION:

It is proposed to implement the above scheme through Departmental execution. In addition to the existing staff of Forest Department, necessary manpower required for effective implementation of the project will be hired through outsourcing from the administrative cost. The proposed activities are depicted on the map and enclosed.


Forest Divisional Officer
Kothagudem



Chief Conservator of Forests /
Conservator of Forests
KOTHAGUDEM CIRCLE

Catchment Area Treatment (CAT) plan of Forest Land Diverted for Sita Rama Lift Irrigation Project of Kothagudem Division

S. No.	Range	Work Proposed	Unit	Unit cost (Rs in Lakhs) of 2017-18	2019-20			2020-21			Phy - Total	Total cost (Rs in Lakhs)	Remarks
					Phy	Unit cost (Rs in Lakhs)	Total cost (Rs in Lakhs)	Phy	Unit cost (Rs in Lakhs)	Total cost (Rs in Lakhs)			
I. Rough Stone packing at canal passing through the hillocks													
1	Julurupadu & Chandrugonda	For Kanakagiri & Cheemalapadu block	Km	8.970	2.00	10.854	21.707	2.00	11.939	23.878	4.00	45.586	
		Sub Total:					21.707			23.878		45.586	
II. Soil and Moisture Conservation Works													
1	Julurupadu	Rock fill dams	Cum	0.00897	100	0.011	1.085	100	0.012	1.194	200	2.279	
2	Julurupadu & Chandrugonda	Mini percolation tanks	Nos	1.500	2	1.815	3.630	1	1.997	1.997	3	5.627	
3	Julurupadu & Chandrugonda	Major Percolation tanks	Nos	3.000	1	3.630	3.630	1	3.993	3.993	2	7.623	
4	Julurupadu & Chandrugonda	Staggered contour trenches	Cum	0.002	500	0.002	1.174	500	0.003	1.291	1000	2.465	
		Sub Total:					9.519			8.474		17.994	
III. Infrastructure													
1	Julurupadu	Nursery	LS	5.000	LS		2.500	LS		2.500	LS	5.000	
		Sub Total:					2.500			2.500		5.000	
		Grand Total					33.726			34.853		68.57909	


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 Forest Divisional Officer,
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