

TADIPUDI LIFT IRRIGATION SCHEME**SALIENT FEATURES****1. Location**

1.	Name of the project	:	Tadipudi Lift Irrigation Scheme
2.	Village	:	Tadipudi
3.	Mandal	:	Tallapudi
4.	District	:	West Godavari
5.	State	:	Andhra Pradesh
6.	Total ayacut proposed for the project	:	83,609 ha (2,06,600 acre)
7.	Nature of terrain	:	Hilly terrain along the toe of the hill range and in undulated country
8.	Technical classification of soil	:	Red soils, Alluvial soils and Clayey, Silty soils
9.	Location	:	On river Godavari at km. 26.20 of AGRB

2. Hydraulic Particulars

1.	Source	:	Godavari river
2.	Location of Cistern	:	Km. 0.00 Main Canal at Gajjaram (V)
3.	Quantum of water to be lifted and let out	:	39.54 cumec
4.	Discharge at km. 0.00	:	39.54 cumec
5.	FSL of canal at km. 0.00	:	+ 40.83 m
6.	F.S. Depth	:	2.90 m
7.	Duty	:	157 acre / cusec (2,244 ha / cumec)

3. Cropping Pattern

Sl. No.	Crop	Existing area (ha)	Productivity (tone/ha)	Total yield (MT)
Existing Pattern				
1.	Paddy	17559	1.75	30728
2.	Groundnut	26923	1.20	32308
3.	Chilly	14654	1.30	19050
4.	Maize	10927	1.25	13659
Proposed Pattern				
1.	Paddy	17559	4.00	70236
2.	Groundnut	33654	2.00	67308
3.	Chilly	18318	2.00	36636
4.	Maize	14068	3.50	49238

4. Other Information

1.	Project cost	:	Rs. 376.96 cr
2.	Demand	:	14.47 TMC
3.	Min. draw down level	:	+ 12.00 m
4.	HP and No. of Pumps	:	3,000 HP X 8 Nos.
(i)	Headworks	:	2 Nos. of pump houses with 40.00 m gap.
(a)	No. of vertical turbine pumps	:	2 X 4 Nos.
(b)	HP of each pump	:	3,000 HP
(ii)	Main Canal	:	4 Nos. of pump houses on right and left bank of main canal
(a)	1 st Sub Lift at km. 5.175 Km	:	1 No. of HSC Pump of 370 HP
(b)	2 nd Sub Lift at km. 15.50 Km	:	2 Nos. of HSC Pumps of each 510 HP (total 1,020 HP)
(c)	3 rd Sub Lift at km. 29.00 Km	:	3 Nos. of HSC Pumps of each 900 HP (total 2,700 HP)
(d)	4 th Sub Lift at km. 63.00 Km	:	3 Nos. of HSC Pumps of each 1,230 HP (total 3,690 HP)
5.	Pressure Main details		
(i)	Pressure Main from headworks: Pump Houses to Main Canal Cistern	:	12 rows; 1,635 mm dia; PSC pressure mains of length 2.60 km.
(ii)	Pressure Main from Sub Pump Houses on right and left bank of main canal to the cisterns of branch canals		
(a)	For 1 st Sub Lift at km. 5.00 (R/s)	:	1 No. of row of 800 mm dia of length 0.100 km
(b)	For 2 nd Sub Lift at km. 15.90 (R/s)	:	2 Nos. of rows of 1000 mm dia of length 0.380 km
(c)	For 3 rd Sub Lift at km. 33.50 (L/s)	:	3 Nos. of rows of 1200 mm dia of length 1.85 km
(d)	For 4 th Sub Lift at km. 70.00 (R/s)	:	3 Nos. of rows of 1300 mm dia of length 3.80 km
6.	Mandals benefited	:	15 Nos.
7.	Villages benefited	:	130 Nos.
8.	Power required	:	23 MW