

PUSHKARA LIFT IRRIGATION SCHEME SALIENT FEATURES

Location

1.	Name of the project	:	Pushkara Lift Irrigation Scheme
2.	Name of the river	:	Godavari
3.	Location	:	Purushottapatnam, East Godavari Distt, Andhra Pradesh
4.	Total irrigation potential proposed for the project	:	73,318.60 ha
5.	Nature of terrain	:	Undulating

Head Works

1.	Pump house	:	2 Nos.
2.	LWL	:	+ 13.0 m
3.	MWL	:	+ 28.5 m
4.	C/L of Delivery Line	:	+ 41.2 m
5.	Static Head	:	28.2 m
6.	No. of pumps	:	2 x 4 = 8 Nos.
7.	Capacity	:	3,000 hp each
8.	Discharge (total)	:	42.82 cumec

Hydraulic Particulars of Main Canal at km.41.30

1.	Length of canal	:	91.856 km
2.	Required discharge	:	40.91 cumec
3.	Designed discharge	:	41.02 cumec
4.	Bed width	:	16.50 m
5.	FSD	:	3.0 m
6.	Free Board	:	1.00 m
7.	Side Slopes	:	1.5 : 1
8.	Bed fall	:	1 in 14,200
9.	Value of 'n'	:	0.0225
10.	Velocity	:	0.650 m/sec
11.	Top width of banks	:	8.0 m / 5.0 m

Cropping Pattern

Existing Pattern

Sl.No.	Crop	Existing area in acre	Productivity in MT
1.	Paddy	44,745	
2.	Groundnut	43,460	
3.	Others	97,701	
	Total	1,85,906	

Proposed Pattern

Sl. No.	Crop	Extent in acre	Productivity (tonne/acre)	Production (tonne)	Water requirement (TMC)
1.	Paddy	44,745	2.02	90,540	6.76
2.	Groundnut	64,300	0.81	52,044	1.44
3.	Chillies	76,861	0.81	62,210	2.82
	Total	1,85,906			