

**RALIVAGU RESERVOIR PROJECT****SALIENT FEATURES****Location**

1.	Name of the project	:	Ralivagu Project
2.	Location	:	Mulkala (V), Mancherial (M), Adilabad (Distt), Andhra Pradesh
3.	Total irrigation area proposed for the project	:	6000 acre / 2428 hectare
4.	Nature of terrain	:	Undulating
5.	Technical classification of soil	:	Sandy loam

**Earth Dam**

1.	Top width of bund	:	6.0 m
2.	Lowest bed level	:	+136.90 m
3.	TBL	:	+155.50 m
4.	Max height of bund	:	18.40 m
5.	Side slopes	:	2 : 1 & 2½ : 1

**Ogee Weir**

1.	Length of Weir	:	180.0 m
2.	Crest level	:	+151.50 m
3.	Max flood discharge	:	940.68 cumec / 33220 cusec
4.	Stilling basin level	:	+141.00 m
5.	Height of body wall	:	10.5 m

**Head Regulators**

		<b>Left Sluice</b>	<b>Right sluice</b>
1.	Sill level	+144.00	+144.00
2.	Discharge capacity	1.39 cumec	1.16 cumec
3.	Length of canal	5.3 km	4.2 km
4.	Ayacut (6000 acre ID)	2900 acre + 1000 acre	1600 acre + 500 acre

### Hydraulic Particulars

		Left Flank Canal	Right Flank Canal
1.	Required discharge	0.83 cumec	0.46 cumec
2.	Design discharge	0.86 cumec	0.49 cumec
3.	Bed width	1.40 m	1.00 m
4.	FSD	0.65 m	0.55 m
5.	FB	0.30 m	0.30 m
6.	Side slopes	1½ : 1 / 2 : 1	1½ : 1 / 2 : 1
7.	Bed fall	1 in 3000	1 in 3000
8.	Value of 'n'	0.018	0.018
9.	Velocity	0.53 m/sec	0.47 m/sec
10.	Top width of banks	1.80 m / 5.0 m	1.80 m / 5.0 m

### Cropping Pattern

#### Existing Pattern

Sl.No.	Crop	Existing area (ha)	Productivity (tonne/ha)
1.	Paddy	81	3.20
2.	Jowar	247	1.10

#### Proposed Pattern

Sl.No.	Crop	Existing area (ha)	Productivity (tonne/ha)
1.	Groundnut	2900	0.45
2.	Maize	3100	0.26