

**YERRAKALVA RESERVOIR PROJECT  
SALIENT FEATURES**

**Project**

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|----|-------------------------|---|---|
| 1. | Name of the project     | : | Yerrakalva Reservoir Project  |
| 2. | Location                | : | Village: Konguvarigudem<br>Mandal: Jangareddigudem<br>District: West Godavari |
| 3. | Longitude               | : | 81° - 15' - 22" E   |
| 4. | Latitude                | : | 17° - 5' - 44" N  |
| 5. | Catchment area          | : | 1,085 sq.km.  |
| 6. | Mean annual rainfall    | : | 877 mm.   |
| 7. | Maximum flood discharge | : | 1,370 cumec.  |

**Reservoir**

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|-----|--|---|---------------|
| 8.  | Gross storage capacity at FRL (+81.05)   | : | 69.34 M.cum.  |
| 9.  | Dead storage capacity at +76.00 m. (sill level)                                      | : | 10.67 M.cum.  |
| 10. | Live storage capacity  | : | 58.67 M.cum.  |
| 11. | Storage at MWL +83.50 m. from sill of canals +76.00 m.                               | : | 114.56 M.cum. |
| 12. | Irrigation storage level   | : | + 79.00 m.    |
| 13. | Capacity at irrigation storage level +79.00 m.                                       | : | 38.88 M.cum.  |
| 14. | F.R.L.   | : | + 81.05 m.    |
| 15. | M.W.L.   | : | + 83.50 m.    |
| 16. | T.B.L.   | : | + 86.00 m.    |
| 17. | Flood control storage capacity upto MWL +83.50 m. from +78.50 m. (crest of spillway) | : | 86.43 M.cum.  |
| 18. | Flood control storage capacity upto FRL +81.05 m. from +78.50 m. (crest of spillway) | : | 30.45 M.cum.  |

**Main Dam**

- |     |  |   |          |
|-----|--|---|----------|
| 19. | Total length including length of the regulator | : | 2.73 km. |
| 20. | Maximum height                                 | : | 19.76 m. |
| 21. | Top width                                      | : | 6.00 m.  |

## Spillway

22.	Type (Glacis Type)	:	Regulator of 4 vents of size 12.0 m. x 5 m. each
	Present – 1 <sup>st</sup> Tier	:	Upto +81.05 m. FRL
	2 <sup>nd</sup> Tier	:	Upto +83.50 m. (to be erected)
23.	Type of weir	:	Glacis type
24.	Crest level of spillway	:	+78.50 m.
25.	Length of regulator	:	48 m. water way
26.	Discharge capacity (design)	:	1,370.50 cumec.

## Canals

		<u>LMC</u>	<u>RMC</u>
27.	Length of Main Canal	: 7.59 km.	45.60 km.
28.	Bed width	: 5.40 m.	10.00 m.
29.	Bed slope	: 1 in 4,000	1 in 8,600
30.	Discharge at FSL	: 2.83 cumec.	11.32 cumec.
31.	Velocity at FSL	: 0.636 m./sec.	0.592 m./sec.
32.	Depth at FSL	: 1.90 m.	1.76 m.
33.	Ayacut (contemplated)	: 2,023 ha.	7,973 ha.