

MUSURUMILLI RESERVOIR PROJECT**SALIENT FEATURES****Location**

1.	Name of the project	:	Musurumilli Reservoir Project
2.	Location	:	Musurumilli (v), Rampachodavaram (M), E.G.Distt. AP.
3.	Longitude	:	81° – 46' – 0" E
4.	Latitude	:	17° – 22' – 30" N
The proposed site is located about 7 km from Rampachodavaram (Mandal head quarter) and 55 km from Rajahmundry in E.G.Distt. The project is aimed to irrigate 9,164 ha.			

Hydrology

1.	Catchment area of the reservoir site	:	458.41 sq.km.
2.	Max.Flood discharge at the site	:	2944 cumec
3.	Gross storage capacity at FRL +123.00m	:	45.293 M.cum
4.	Dead storage capacity at MDDL +109.50m	:	4.879 M.cum
5.	Silting after 25 year in dead storage	:	2.505 M.cum
6.	Area of submergence at FRL+123.00m	:	485 ha
7.	FRL	:	+123.00 m
8.	MWL	:	+123.575 m
9.	Top of dam	:	+127.50 m

Earthen dam

1.	Top width of bund	:	6.00 m
2.	Deepest bed level at site	:	+89.40 m
3.	Length of bund including dyke	:	1.040 km

Trajectory type bucket

1.	Type	:	Ogee (gated)
2.	Crest level	:	+115.50 m
3.	Crest length of discharge section	:	86.50 m
4.	Discharge capacity	:	2,944 cumec
5.	No. & size of radial gates	:	7 Nos.; 10.0 m x 7.50 m

Irrigation Sluices

		Left flank
1.	Sill level	+107.73 m
2.	Discharge capacity	7.128 cumec
3.	No. and size of vent	One; 2.7 m x 1.60 m

Canal system

		Main canal	Left branch canal
1.	Ayacut	5,467 ha	3,697 ha
2.	Length of canal	24.70 km	10.70 km
3.	Head discharge	7.128 cumec	2.518 cumec

Ayacut

1.	Existing wet ayacut	:	2,430 ha
2.	Existing dry ayacut	:	2,043 ha
3.	Rainfed dry ayacut to be converted into wet paddy	:	2,368 ha
4.	Rainfed dry ayacut to be converted into irrigation dry	:	2,323 ha
5.	Area proposed to be brought under irrigation	:	Paddy : 4,798 ha I.D. : 4,366 ha

Financial Aspects

1.	Cost of the scheme including direct and indirect charges	:	Rs.207.00 cr (SSR 2005-06)
2.	B.C.Ratio	:	1.52