

NILWAI RESERVOIR PROJECT

SALIENT FEATURES

Location

1.	Name of the project	:	Nilwai Project a/c Peddavagu
2.	Location	:	Nilwai (V), Vamanapally (M), Adilabad (Distt), Andhra Pradesh
3.	Longitude	:	79° – 49' – 36"
4.	Latitude	:	19° – 03' – 04"
	The proposed site is located about 68 km from Mancherial town. The project is aimed to irrigate 5,260 ha.		

Hydrology (Rainfall)

1.	Catchment area of the reservoir site	:	375.5 sq.km.
2.	Nature of the catchment area classified as	:	Good
3.	Weighted average monsoon rainfall of catchment area at 75% dependable yield	:	894.33 mm
4.	Max. flood discharge at the site	:	1,470 cumec

Hydrology (Storage)

1.	Gross storage capacity at FRL +124.00 m	:	23.941 M.cum.
2.	Dead storage capacity at MDDL +120.50 m	:	5.840 M.cum.
3.	Live storage capacity	:	18.101 M.cum.
4.	Life of reservoir	:	50 years
5.	Silting after 25 years (a) in dead storage	:	3.189 M.cum.
6.	(b) in live storage	:	2.177 M.cum.
7.	(c) total silt	:	5.366 M.cum.
8.	Net live storage after siltation in 25 years	:	15.924 M.cum.
9.	Evaporation losses in the reservoir	:	10.094 M.cum.
10.	Area of submergence at FRL +124.00 m	:	864 ha
11.	FRL	:	+124.00 m
12.	MWL	:	+125.60 m
13.	Top of dam	:	+127.60 m

Earthen Dam

1.	Top width of bund	:	6.00 m
2.	Deepest bed level at site	:	+114.00 m
3.	Length of bund including weir	:	4.44 km

H.C.Weir

1.	Type	:	Ogee (ungated)
2.	Crest Level	:	+124.00 m
3.	Crest length of discharge section	:	340 m
4.	Discharge capacity	:	1,482 cumec
5.	No. & size of radial gates	:	Ungated

Irrigation Sluices

		Left flank	Right flank
1.	Sill level	+ 119.50 m	+119.50 m
2.	Discharge capacity	2.70 cumec	2.70 cumec
3.	No. and size of vent	One; 1.2 m x 1.0 m	One; 1.2 m 1.0 m

Canal System

		Left Canal	Right Canal
1.	Ayacut	3,000 ha	2,260 ha
2.	Length of canal	15 km	15 km
3.	Head discharge	2.70 cumec	2.70 cumec

Ayacut

1.	Existing wet ayacut	:	Nil
2.	Existing dry ayacut	:	1,215 ha
3.	Rainfed dry ayacut to be converted into wet paddy	:	Nil
4.	Rainfed dry ayacut to be converted into irrigation dry	:	1,215 ha
5.	Area proposed to be brought under irrigation	:	Paddy: 2,020 ha I.D. : 2,025 ha

Financial Aspects

1.	Cost of the scheme including direct and indirect charges	:	Rs.90.50 cr (SSR-2004-05)
2.	B.C.Ratio	:	1.51