

Pamba- Achankvoil - Vaippar link project

Salient Features

1.	Purpose		Diversion of surplus waters of Pamba and Achankvoil rivers to Vaippar basin for enroute irrigation	
2.	Quantum of Diversion		634 Mm ³	
3.	Enroute Irrigation			
	Annual irrigation		91400 ha	
	CCA		101555 ha	
4.	Head Works	Achankovil	Achankovil Kal Ar	Punnamedu
	State	Kerala	Kerala	Kerala
	Distt.	Pathanamthitta	Pathanamthitta	Pathanamthitta
	River	Achankovil	Achankovil Kal Ar	Pamba Kal Ar
	Catchment area	334 Km ²	189 Km ²	135 Km ²
	Full reservoir level	65.00 m	210.00 m	246.00 m
	Minimum draw down level	50.00 m	192.18 m	212.70 m
	Gross storage at FRL	30.60 Mm ³	496.90 Mm ³	208.00 Mm ³
	Live storage	118.50 Mm ³	184.90 Mm ³	27.80 Mm ³
	Reservoir submergence	323 ha	1241 ha	440 ha
5. Pamba-Achankvoil-Vaippar Link Canal				
	(i)	Length of canal	50.68 km	
	(ii)	Design discharge of canal	72 cumec	
	(iii)	Bed width of canal	13.80 m	
	(iv)	Full Supply depth at head	3.60 m	
	(v)	Bed slope	1 in 10,000 and 1 in 7500	
	(vi)	Off take level of canal	187 m	
	(vii)	FSL at the tail end of link canal	129.916 m	
	(viii)	Side Slope		

	(a)	Deep cutting	0.75:1 for bed slope (1:10,000)
	(b)	Normal cutting	1.5:1 for bed slope (1:7500)
	(ix)	Type of canal	Lined canal trapezoidal section with rounded corner
	(x)	Length of tunnel (i) Between Punnamedu & Achankvoil reservoir (ii) Crossing the western ghats	8 km 9 km
	(xi)	Type of tunnel	Modified horse shoe section 8 km of 5 m dia 9 km of 8 m dia
6.	Power Generation		
	(i)	At the toe of Achankovil Kal Ar dam	500.00 MW
	(ii)	At the out let of Punnamedu – Achankovil Kal Ar tunnel	3.00 MW
	(iii)	At the toe of Achankovil dam	1.50 MW
	(iv)	At canal drops enroute of links	3.87 MW
		Total	508.37 MW
7.	Estimated Cost		1398 crores (1992-93)
8.	B.C. Ratio		1.008