BARGI DIVERDION PROJECT SALIENT FEATURES

1. 1.1	CANAL SYSTEM MAIN CANAL							
1.1.1	Purpose	:	Irrigation & Water Supply.					
1.1.2	-	:	Flow Canal fully lined					
			(Cement concrete lining)					
			upto 40 ha. Block & 10%					
			selective lining below					
			40 ha.Block.					
1.1.3	Total Length of Main Canal	:	193.88 Km					
1.1.4	Full supply level at head	:	411.48 m.					
1.1.5.	Full supply depth at head	:	5.50 m					
1.1.6	Bed Width at head	:	21.50 m					
1.1.7	Side slopes	:	1.5:1					
1.1.8	Bed grade at head reaches	ade at head reaches : 1/10,0						
1.1.9	Maximum discharge at bead	:	227.438 cumecs.					
1.2	Branch Canals							
1.2.2.	Total Length of branch canals	:	183.87 Km.					
1.3.	Length of Distribution System							
	i) In Jabalpur Distt.	:	970 Km.					
	ii) In Rewa&SatnaDistt.	:	1730 Km.					
2.	IRRIGATION DETAILS							
2.1	C.C.A.	:	3,67,614 ha					
2.2	C.C.A. In Jabalpur Distt.	:	81,823 ha.					
	In SatnaDistt.	:	1,59,655 ha					
	In Rewa Dist.	:	3,532 ha					
	Total		2,45,010 ha					
2.3	Annual Irrigation							
	Jabalpur Distt.	:	1,31,735 ha.					
	SatnaDistt.	:	2,39.481 ha					
	RewaDitt.	:	5,298 ha					
	Total		3,76,514 ha					

2.4 76% Dependable Yield/ Water Utilization

i) 75% dependable yield at : 5447 Mm³ Bargi Dam site

ii) Water Utilization

		Bargi Dam (L.B.C.)			Bargi Da	Grand			
		Systen	System			Project (RBC) Sys.			
		Surface Ground Total Flow Water Mm ³ Mm ³ Mm ³			Surface (Flow Mm ³ Mm				
a)	Requirement for Irrigation	1008.00	345.00	1353.00	1853.00	463.30 2	2316.4036	669.40	
b)	Requirement for Industrial &	54.00	-	54.00	116.40	- 116	.40 -	170.40	
	domestic use								
c)	Evaporation	103.00	-	103.00	192.00	- 192	2.00	295.00	
		1165.00	345.00	1510.00	2161.50	463.30	2624.80	4134.80	

3.0 **COST ESTIMATES**

i) Estimated cost of Project : Rs. 1101.23 crores

ii) Apportionment of Cost of Bargi : Rs. 93.61 crores

Multipurpose Project for B.D. P.

Total cost for B.C. Ratio assessment Rs.1194.84 Crores

4.0 ANNUAL BENEFITS/REVENUE

i) Total produce after irrigation : Rs. 877642 MT

ii) Total produce before irrigation : Rs. 301450 MT

iii) Additional food production : Rs. 576192 MT

iv) Value of total produce after : Rs. 38098.51 Lakhs

irrigation.

v) Value of total produce before : Rs. 7161.72 Lakhs

irrigation.

vi) Value of additional food production. : Rs. 30936.79 Lakhs

vii) Revenue from 0.0944 maf. Water : Rs. 49.34 Lakhs

supply.

5.0. **ECONOMIC EVALUATION**

i) B. C. Ratio with 10% rate of : 1.54

Interest

ii) I. R.R : 9.26%

iii) Financial return after 10 : (-) 0.028%

years of completion of project

iv) Cost of irrigation/Ha. : Rs.31,734