Benefit cost ratio

THE CALCULATION OF BENEFIT COST RATIO (BCR) OF

Rs. in Lakh

			Lakh
Α.	GROSS RECEIPT	Before	After
		Irrigation	Irrigation
		(Without	(With
		Project)	Project)
1	Gross value of farm produce	23321.11	75582.5
2	Dung receipts (at 30% of the fodder expenditure)	0	0
3	Total (A): Gross Receipts (1+2)	23321.1125	75582.5
B.	EXPENSES:		
1	Expenditure on seeds		
2	Expenditure on manure etc.	4670.89	7909.91
3	Expenditure on hired labour (human and bullock)		
4	Fodder expenses (as percentage of gross value of produce)		
5	Depreciation on implements (2.7% of Item A.1)	2262.15	7331.50
0			
6	Share and Cash Rent (5% of Item A.1)		
7	Land Revenue (2% of Item A.1)		
8	Total (B): Expenses (1 to 7)	6933.04	15241.42
C.	NET VALUE OF PRODUCE		
1	Total Gross receipts (Total A.3)	23321.1125	75582.5
2	Minus Total expenses (Total B.8)	6933.04	15241.42
3	Net Value of Produce (C): (1-2)	16388.07	60341.09
D.	ANNUAL AGRICULTURAL BENEFITS		
1	Net value after irrigation (C.3)	60341.09	
2	Minus Net value before irrigation (C.3)	16388.07	
3	Net Annual Benefits (C): (1-2)	43953.01	

Executive Engine To it

D	ANNUAL COSTS:			
D	ANNOAL COSTS.	83335	Lakh	Lakh
200			3	
	Interest on capital @ 10% (Estimated total cost of the	(102)		
1	project including cost of land			
	development.	8333.5	Lakh	Lakh
	Depreciation of the project @			
	1% of the cost of project for 100			
2	years life of the project and @			1
	2% for 50 years life of the	_		
	project	1666.7	Lakh	Lakh
0	Annual operation and maintenance charges @ Rs.			
3	180 per ha. of CCA10000 Ha		1 -156	I alab
	Maintenance of the head works	63	Lakh	Lakh
4	@ 1% of its cost	454.00	Lakh(head	Lakh(head work6472
		451.32	work45132 lakh)	lakh)
	Depreciation of the pumping system@ 8.33% of the			
	estimated cost of the pumping			
. 5	system assuming life of the	en e	Here's expension	1-11-1-12-12-13-13-13-13-13-13-13-13-13-13-13-13-13-
	system as 12 years (Applicable		Lakh(pumps	Lakh(pump
	to lift irrigation)	1543.5	18530 lakh)	s 1466 lakh)
	Depreciation of the raising			
	mains @ 3.33% of the			
6	estimated cost of the raising mains assuming life of the	758.27		
	system as 30 years (Applicable		Lakh(R M	Lakh(R M
	of lift irrigation)		22771Lakh)	3796 Lakh)
7	Power charges for			
	(a) Lift irrigation @ Rs 800 per			
	ha. (Applicable to lift irrigation)	280	Lakh	Lakh
	for 10000 Ha. @ 80 Lacs per	200	Lakii	Lakii
	month for 4 months.		× (0.5%)2.2	LE STATE OF THE ST
	Electrical charges at the Rs 5	1946		
	per unit for 4 MU Total (G) Annual Cost (1 to 7)	15010.01		
8	10.01 (0) / 1111001 0001 (1 10 1)	15042.34	Lakh	Lakh

BENEFIT COST RATIO =

Annual Benefits

Annual cost (G)

= <u>43953.01</u> 15042.34

2.92

Executive Engineer N.D. Distr. Dhar (M.P.)