Mohar Reservoir Project

Statement Showing The Receipt From Produce Before Irrigation

Financial Statement -12 A(1)

S No.	Name of Crops		Area in Ha			Product			Remarks
				Produce in Ha (Tonnes)	Total Produce per Ha(Tonnes)	Rates Per Tonnes	Amount in Lacs	Value in Total Produce Lacs	
1	2		3	4	5	6	7	8	9
1	Paddy		700	1.5	1050	25000	262.50	262.50	
2	Kodo		100	0.5	50	80000	40.00	40.00	
3	Tiwara		200	0.6	120	38000	45.60	45.60	
							Total	**348.10**	
						Grand Total		**348.10**	

Sub Divisional officer
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Dongargaon, Distt.-Rajnandgaon(C.G.)

Executive Engineer
Water Resources Division
Balod (C.G.)

Mohar Reservoir Project

Statement Showing the Details of Expenses Before Irrigation

Financial Statement -12 A(2)

	Name of Crops	Area in Ha	Seeds		Fertilizers		Pesticides		Cost of Cultivation		Total Expenses
			Rate/Ha	Amount (In Lacs)	Rate/Ha	Amount (In Lacs)	Rate/Ha	Amount (In Lacs)	Rate/Ha	Amount (In Lacs)	in Lacs
1	2	3	4	5	6	7	8	9	10	11	12
1	Paddy	700	900	6.3	1800	12.60	500.00	3.50	3000.00	21.00	43.40
2	Kodo	100	300	0.3	700	0.70	500.00	0.50	2700.00	2.70	4.20
3	Tiwara	200	200	0.4	150	0.30	100.00	0.20	200.00	0.40	1.30
										Total	48.9
					Grand Total						48.90

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Mohar Reservoir Project

Statement Showing the Details of Expenses After Irrigation

Financial Statement -12 B(2)

	Name of Crops	Area in	Seeds		Fertilizers		Pesticides		Cost of Cultivation		Total Expenses
		Ha	Rate/Ha	Amount (In Lacs)	Rate/Ha	Amount (In Lacs)	Rate/Ha	Amount (In Lacs)	Rate/Ha	Amount (In Lacs)	in Lacs
1	2	3	4	5	6	7	8	9	10	11	12
1	Paddy	800	1000	8.00	2000	16.00	600	4.80	3000	24.00	52.80
3	Tiwara	600	700	4.20	700	5.60	200	1.20	200	1.20	12.20
										Total	**65.00**
					Grand Total						**65.00**

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Mohar Reservoir Project

Statement Showing The Receipt From Produce After Irrigation

Financial Statement -12 B(1)

S No.	Name of Crops	Area in Ha	Product					Remarks
			Produce in Ha (Tonnes)	Total Produce per Ha(Tonnes)	Rates Per Tonnes	Amount in Lacs	Value in Total Produce Lacs	
1	2	3	4	5	6	7	8	9
1	Paddy	800	5.00	4000	25000.00	1000.00	1000.00	
2	Tiwara	600	2.00	1200	38000.00	456.00	456.00	
						Total	**1456.00**	

Grand Total **1456.00**

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Financial Statement

Gross Receipt (A) for 800 Ha

(a)	Gross Value of Farm Product	=	348.10
(b)	Add receipt of 30% of fodder Expenses @ Rs. 200 /-per Ha	=	0.48
©	Cow Dung @ Rs. 500 /-Per Ha	=	4.00
	Say Rs.	**=**	**352.58 Lacs**

Abstract of Expenses (B)

(a)	Material & cost of cultivation	=	48.9
(b)	Fodder @ Rs. 100 /-per Ha for 800 Ha	=	0.80
(c)	Deprecation charges on 800 Ha implements @ Rs. 100 /-	=	0.80
(d)	Share and cost of rent @ Rs. 50 /-per Ha for 800 Ha	=	0.40
(e)	Land Revenue @ Rs. 5 /-per Ha for 800 Ha	=	0.04
	Say Rs.	=	**50.94 Lacs**

Net Value of Produce

A -- B = 352.58 - 50.94 = 301.64

Say Rs. 301.64 Lacs

Sub Divisional officer
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Mohar Reservoir Project

Statement Showing The Receipt From Water Revenue from NSPCL

Financial Statement -12 B(1)

S No.	Quantity of Water(CUM)	Rate	Amount
1	2	3	4
1	16992353.44	25.00	4248.088
		/Cum /Year	
		G. Total	4248.09

Conversion of TMC to CUM

1	0.6 TMC	0.6 X 1000 X 1000000 16992353.44 CUM

Sub Divisional officer
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Water Resources Division
Balod (C.G.)

Mohar Reservoir Project

Financial Statement

Gross Receipt (A) for 800 Ha

(a)	Gross Value of Farm Product	=	1456.00
(b)	Add receipt of 30% of fodder Expenses @ Rs. 200 /-per Ha	=	0.48
©	Cow Dung @ Rs. 500 /-Per Ha	=	4.00
(d)	Add revenue from NSPCL as water charges	=	4248.09
	Say Rs.(in Lacs)	=	5708.57

Abstract of Expenses (B)

(a)	Material & cost of cultivation	=	65.00
(b)	Fodder @ Rs. 100 /-per Ha for 800 Ha	=	0.80
(c)	Deprecation charges on 800 Ha implements @ Rs. 100 /-	=	0.80
(d)	Share and cost of rent @ Rs. 50 /-per Ha for 800 Ha	=	0.40
(e)	Land Revenue @ Rs. 5 /-per Ha for 800 Ha	=	0.04
	Say Rs.(in Lacs)	=	67.04

Net Value of Produce

A -- B = 5708.57 - 67.04 = 5641.53

Say Rs. 5641.5284 Lacs

Sub Divisional officer
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Mohar Reservoir Project

BENEFIT COST RATIO **(in Lacs)**

(A) **BENEFIT PRIMARY**

1	(I)	Value of Total Agricultural Production Before Irrigation (Vide F.S. 12-A)	=	Rs.	352.58
	(ii)	Cost of Cultivation to cost to economy (As per F S 12 -A)	=	Rs.	50.94
	(iii)	Net Produce before Irrigation (i)-(ii)	=	Rs.	301.64
2	(i)	Value of Total Agricultural Production After Irrigation (Vide F.S. 12-B)	=	Rs.	5708.57
	(ii)	Cost of Cultivation to cost to economy (As per F S 12 -B)	=	Rs.	67.04
	(iii)	Net Increase of produce after irrigation)i)-(ii)	=	Rs.	5641.53

3 **NET BENEFIT**

= 2(iii) - 1(iii)

= 5641.53 - 301.64 = Rs. **5943.17**

Sub Divisional officer
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Mohar Reservoir Project

CALCULATION OF INTERNAL RATE OF RETURN FOR IRRIGATION SECTOR
DETAILS OF OUTLAY ON IRRIGATION WORK AND PHASING OF EXPENDITURE

(A) CAPITAL OUTLAY (Rs. IN Lacs)

S No	Sub Head	Unit - I Head Work	Unit-II Canals	Total
1	"A " Preliminary	0	0.00	0
2	"B" Land	31674.87	6020.85	37695.72
3	"I" Works	9552.93	17419.62	26972.55
	(Less "A""B"* "Q")			
4	"Q" Special T & P	10.43	10.43	20.86
5	Total(in Lacs)	**41238.23**	**23450.90**	**64689.13**
		Say Rs. (in Crores)		**646.89**

Amount Already deposited By NSPCL for Project Funds

(Rs in Crores) = **323.45**

Net Cost of Infrastructure to be Borne for Project

(Rs in Crores) = 323.45

(B) ANNUAL COST

@10%

1 Interest on capital of Rs.

64689.13 Rs. 6468.91

2 Depreciation Charges @ Rs 12.940

2% on Rs "646.89"(646.89*0.02)

3 Adminstrative Expenses @Rs. 0.960

120/- per Ha on 800 ha

Total (Rs in Lacs) 6482.81

Benefit Cost Ratio = net value of product / annual cost

5943.17 / 6482.810

Benefit Cost Ratio = A/B **0.92**

Sub Divisional Officer
M. P. W.R. Canal Sub Division No. 2
Dongargaon (Rajnandgaon)

Executive Engineer
Water Resources Division
Balod (Chhattisgarh)