

ANNUAL BENEFIT

1	Net value of produce before project irrigation	—	218.08 Lakhs
2	Net value of produce after project irrigation	—	3165.03 Lakhs
3	Net value of additional field irrigation.	—	2946.95 Lakhs

ANNUAL INPUT

1	Administrative expenses a/r Rs. 50/- per hectare on (15385 + 8907) hect = 24292 hect	—	12.14 Lakhs
2	Depreciation charge a/r 1% on capital outlay Rs. 22385.32 Laes	—	223.85 Lakhs
	Total Rs.—	—	235.99 Lakhs
3	5% interest on Rs. 22385.32 Lacs	—	1119.27 Lakhs
4	10% interest on Rs. 22385.32	—	2238.53 Lakhs
		2946.95	

B.C Ratio at 5% interest $\frac{(1119.27 + 235.99)}{—} = 2.174$

B.C Ratio at 10% interest $\frac{(2238.53 + 235.99)}{—} = 1.19$

BENEFIT FROM CULTIVATION AFTER PROJECT IRRIGATION

RECEIPT

Sl. No.	Name of crops	Area in Hact.	Produce in quaintal per Hact.	Total produce in quint.	Rate per quint. in Rs.	Total value produce in lakhs	Cow-dung receipt = 0.0309278	Gross value of produce in lakhs
1	2	3	4	5	6	7	8	9
Kharif —								
1	Paddy	12000	35	420000	415/-	1473.00	53.91	1796.91
2	Maize	1950	30	58500	610/-	356.85	11.03	367.88
3	Til	335	6	2010	2000/-	40.20	1.24	41.44
4	Urda	1000	15	15000	1250/-	187.50	5.79	193.29
5	Kurthi	100	8	800	900/-	7.20	0.22	7.42
		15385 Hect.						
Rabi —								
1	Wheat	2500	30	75000	800/-	600.00	18.55	618.55
2	Gram	2500	15	37500	1300/-	487.50	15.07	502.57
3	Mustard	2500	10	25000	1300/-	325.00	10.05	335.05
4	Linseed	407	10	4070	1325/-	53.93	1.66	55.59
5	Potato	800	250	200000	300/-	600.00	18.55	618.55
6	Vegetable	200	200	40000	400/-	16.00	4.94	164.94

Fodder receipt @10% of farm produce 470.22 lakhs

Total value of produce- 5172.41 lakhs

EXPENDITURE

Cost of seeds as per statement attached in lac.	Cost of manure as per statement attached in lac.	Cost of labours as per detailed statement attached	Plant protection @ Rs. 100/- per hect for kharif & Rabi. in lac	Depreciation of implements @ 2.7 % of farm produce	Share & cash rent @ 3 % of farm produce in lac.	Fodder expen. @ 10 % of farm produce in lac.	Land revenue @ 2 % of farm produce in lac.	Misc @ 80/- per hect. kharif & Rabi	Total value of expenditure in lac.
1	2	3	4	5	6	7	8	9	10
57.60	275.88	333.48	12.00	48.51	53.90	179.68	35.93	9.60	1006.59
8.22	50.51	15.48	1.95	9.93	11.04	36.79	7.36	1.56	142.84
0.80	3.05	2.66	0.33	1.12	1.24	4.14	0.83	0.26	14.43
5.40	8.51	7.94	1.00	5.22	5.80	19.33	3.87	0.80	57.87
0.60	0.85	0.79	0.10	0.20	0.22	0.74	0.15	0.08	4.45
28.12	57.48	19.85	2.50	16.70	18.56	61.86	12.37	2.00	219.44
34.00	21.28	19.85	2.50	13.57	15.08	50.26	10.05	2.00	169.09
11.25	18.60	19.85	2.50	9.05	10.05	33.50	6.70	2.00	113.50
1.63	2.09	3.23	0.40	1.50	1.68	5.56	1.11	0.32	17.32
78.40	28.29	6.35	0.80	16.70	18.56	61.86	12.37	0.64	223.97
0.03	6.70	1.59	0.20	4.45	4.95	16.50	3.30	0.16	37.88
									2007.38

Net benefit after project irrigation —		
1 Total value of produce		5172.41
2 Total Expenditure—		2007.38
3 Net benefit after Irrigation—		3165.03

RECEIPT

Sl. No.	Name of crops	Area in Hact.	Produce in quintal per Hact.	Total produce in quint.	Rate per quint. in Rs.	Total value produce in lakhs	Cow-dung received = 0.0309278x col. 7	Gross value of produce in lakhs (col. 7 + 8)
1	2	3	4	5	6	7	8	9
Kharif —								
1	Paddy	8000	13	104000	415/-	431.60	13.34	444.94
2	Maize	4000	12	48000	610/-	292.8	9.06	301.86
3	Til	200	2	400	2000/-	8.00	0.25	8.25
4	Urad	400	3	1200	1250/-	15.00	0.46	15.46
5	Cow-pee	345	3	1035	350/-	3.62	0.11	3.73
6	Kurthi	235	2	470	900/-	4.23	0.13	4.36
Rabi —								
1	Wheat	350	10	3500	800/-	28.00	0.86	28.86
2	Gram	150	6	900	1300/-	11.70	0.36	12.06
3	Mustard	140	3	420	1300/-	5.46	0.17	5.63
4	Linseed	100	3	300	1325/-	3.97	0.12	4.09
5	Potato	100	100	10000	300/-	30.00	0.92	30.92
6	Vegetable	100	50	5000	400/-	20.00	0.62	20.62
								880.78

EXPENDITURE

Cost of seeds as per statement attached in lac.	Cost of manure as per statement attached in lac.	Cost of labours as per detailed statement attached	Plant protection @ Rs. 100/- Per hect for kharif & Rabi. in lac	Depreciation of implements @ 2.7 of farm produce	Share & cash rent @ 3 of farm produce in lac.	Fodder expen. @ 10% of farm produce in lac.	Land revenue @ 2% of farm produce in lac.	Misc @ 80/- per hect. kharif & Rabi	Total value of expenditure in lac.
10	11	12	13	14	15	16	17	18	19
24.00	91.96	222.32	8.00	120.1	13.35	44.49	8.90	6.4	431.43
9.60	5.80	31.76	4.00	8.15	9.06	30.19	6.03	3.2	153.79
0.40	0.91	1.59	0.20	0.22	0.24	0.82	0.16	0.16	4.7
1.44	1.70	3.18	0.40	0.41	0.46	1.54	0.30	0.32	11.6
1.73	1.42	2.66	0.34	0.10	0.11	0.37	0.07	0.28	708
1.18	1.00	1.86	0.23	0.11	0.13	0.43	0.08	0.19	5.21
3.15	4.02	2.78	0.35	0.77	0.86	2.88	0.57	0.28	1566
1.91	0.64	1.19	0.15	0.32	0.36	1.20	0.24	0.12	6.13
0.51	0.52	1.11	0.14	0.15	0.16	0.56	0.11	0.11	3.37
0.32	0.26	0.79	0.10	0.11	0.11	0.40	0.08	0.08	2.25
7.00	1.76	0.79	0.10	0.83	0.93	3.09	0.62	0.08	15.20
0.01	1.67	0.79	0.10	0.55	0.61	2.06	0.41	0.08	6.28
									662.70

Net benefit before project irrigation — 880.78
 1 Gross value of produce before irrign. 662.70
 2 Total Expenditure— 218.08
 3 Net benefit before Irrigation—

CALCULATION OF COST OF SEED IN CASH CROPS AFTER IRRIGATION

Sl. No.	Name of crops	Seed required per Hect. in kg.	Area in Hect.	Total seed in Quintal	Rate of seed per Quint.	Amount in lakhs
1	2	3	4	5	6	7
Kharif -						
1	Paddy	60 kg	12000	7200	800/-	5760
2	Maize	30 "	1950	685	1200/-	8.22
3	Til	12 "	335	40.20	2000/-	0.80
4	Urad	30 "	1000	300	1800/-	5.4
5	Kurthi	60 "	100	60	1000/-	0.6
Rabi -						
1	Wheat	125 "	2500	3125	900/-	28.12
2	Gram	80 "	2500	2000	1700/-	34.00
3	Mustard	25 "	2500	625	1800/-	11.25
4	Linseed	25 "	407	101.75	1600/-	1.63
5	Potato	1400 "	800	11200	700/-	78.4
6	Vegetables	3 "	200	6	500/-	0.03

CALCULATION OF COST OF SEED IN CASE OF BEFORE IRRIGATION

Sl. No.	Name of crops	Quantity of seed per Hect. in kg.	Area in Hect.	Total seed required in Quintal	Rate of seed per Quint.	Amount in lakhs
1	2	3	4	5	6	7
Kharif —						
	Paddy	50 kg	8000	4000	600/-	2400
	Maize	20 „	4000	800	1200/-	9.60
	Til	10 „	200	20	2000/-	0.40
	Urad	20 „	400	80	1800/-	1.44
	Cowpee	50 „	345	172.50	1000/-	1.73
	Kurthi	50 „	235	117.50	1000/-	1.18
Rabi —						
	Wheat	100 „	350	350	900/-	3.15
	Gram	75 „	150	112.50	1700/-	1.91
	Mustard	20 „	140	28	1800/-	0.51
	Linseed	20 „	100	20	1600/-	0.32
	Potato	1000 „	100	1000	700/-	7.00
	Vegetables	2 „	100	2	500/-	0.01

CALCULATION --

AFTER IRRIGATION

No.	crops	Area in Hact.	Manuure Rate of Mannure per Hect.	Cost in lakhs	Rate per Hact.	Labour Cost in lakhs
1	2	3	4	5	6	7
Kharif —						
	Paddy	12000	2299/-	275.88	2779/-	333.48
	Maize	1950	2590/-	50.51	794/-	15.48
	Til	335	910/-	3.05	794/-	2.66
	Urad	1000	851/-	8.51	794/-	7.94
	Kurthi	100	851/-	0.85	794/-	0.79
Rabi —						
1	Wheat	2500	2299/-	57.48	794/-	19.85
2	Gram	2500	851/-	21.28	794/-	19.85
3	Mustard	2500	744/-	18.60	794/-	19.85
4	Linseed	407	513/-	20.9	794/-	3.23
5	Potato	800	3536/-	28.29	794/-	6.35
6	Vegetables	200	3351/-	6.70	794/-	1.59

BEFORE IRRIGATION

Sl. No.	crops	Area in Hact.	Manuure		Cost in lakhs	Rate per Hact.	Labour	
			Area in Hact.	Rate of Mannure per Hect.			Rate per Hact.	Cost in lakhs
1	2	3	4	5	6	7		
Kharif —								
1	Paddy	8000	2299x1/2 per Hect	91.96	2779/-	222.32		
2	Maize	4000	2590x1/2	51.80	794/-	31.76		
3	Til	200	910x1/2	0.91	794/-	1.59		
4	Urad	400	851x1/2	1.70	794/-	3.18		
5	Cowpee	335	851x1/2	1.42	794/-	2.66		
6	Kurthi	235	851x1/2	1.00	794/-	1.86		
Rabi —								
1	Wheat	350	2299x1/2	4025.	794/-	2.78		
2	Gram	150	851x1/2	0.64	794/-	1.19		
3	Mustard	140	744x1/2	0.52	794/-	1.11		
4	Linseed	100	513x1/2	0.26	794/-	0.79		
5	Potato	100	3536x1/2	1.76	794/-	0.79		
6	Vegetables	100	3351x1/2	1.67	794/-	0.79		

Nota—Rate of manure in case of before irrigation is half wr. to after irrigation as per District Agriculture Officer Deoghar's report attached.

- dy— (i) Urea of required 225 kg.
per Hect. @ 194/- per 50 kg.
(ii) SSP. 300 kg. / Hect @ 143-10
per 50 kg.
(iii) Potash (MOP) 75 kg./Hect
@ Rs. 378-20 per kg.

Rs. 873.00

„ 858.60

„ 567.30

Total— 2298.90

Say Rs. 2299/- per Hect.

Mustard —

- (i) Urea 50 kg./Hect
(ii) SSP. 150 kg./Hect.
(iii) MOP. 16 kg./Hect.

Rs. 194/- Hect

„ 429.40

„ 121.12 „

Total— 744.42

Say Rs. 744/- Per Hect.

- Wheat—** (i) Urea 225 kg./Hect.
(ii) SSP. 300 „
(iii) MOP 75 „

Rs. 873.00

„ 858.69

„ 567.30

Total— 2298.90

Say Rs. 2299 per Hect.

- Dalhan —** (i) Urea @ 35 kg./Hect
(ii) SSP 250 kg./Hect.

Rs. 135.80

„ 715.50

Total— 851.30

Say Ra. 851 per Hect.

- Maize—** (i) Urea 300 kg. per Hect.
@ 194/- per 50 kg.
(ii) SSP. 300 kg. per Hect.
@ 143-10 per 50 kg.
(iii) MOP. 75 kg. per Hect.
@ 378.20 per 50 kg.

Rs. 1164-00

„ 858-60

„ 567-30

Total— 2589.90

Say Rs. 2590/-

- Til —** (i) Urea 50 kg./ Hect.
@ 194.00 per 50 kg.
(ii) SSP. 250 kg. per Hect.
@ 143.10 per 50 kg.

Rs. 194.00

„ 715-50

Total— 909.50

Say Rs. 910/-

- Linseed —** (i) Urea 40 kg. per Hect.
@ 194/- per 50 kg.
(ii) SSP. 125 kg. per Hect
@ 143.10 per 50 kg.

Rs. 155.20

„ 357-75

Total— 512.95

Say Rs. 513/-

Potato— (i) Urea 250 kg./Hect

@ 194/- per 50 kg.

(ii) SSP. 500 kg. per Hect.

@ 143-10 per 50 kg.

(iii) MOP. 150 kg. per Hect.

@ 378.20 per 50 kg.

Rs. 970.00

” 1431.00

” 1134.60

Total— 3515.60

Say Rs. 3536/-

Vegetable— (i) Urea 300 kg. per Hect.

@ 194/- per 50 kg.

(ii) SSP. 500 kg. / Hect

@ 143-10 per 50 kg.

(iii) MOP. 100 kg./Hect.

@ Rs. 378-20 per kg.

Rs. 1164-00

” 1431.00

” 756.50

Total— 3351.40

Say Rs. 3351/-

**Calculation of the cost of labour required for
Plantation and Harvesting for
different crops.**

- 1 Paddy— For trans plantation @ 40 labour/Hect.
For Harvesting @ 30 labour per Hect.
Total 70 labour/Hect. @ 39-70 each 2779.00

Say— 2779.00 per Hect.

- 2 Wheat— For trans plantation @ 10 labour per Hect.
For Harvesting @ 10 labour per Hect.
Total 20 labour @ 39.70 each Rs. 794.00

The above rate Rs. 794/- is also applicable for all Rabi crops & Kharif crops except paddy.

देवघर जिला अन्तर्गत विभिन्न फसलों का सिंचित एवं अंसिंचित अवस्था में प्रति हेक्टर उपज एवं प्रति क्विंटल बाजार दर का विवरण:-

क्रमिक	मौसम	फसल का नाम	अंसिंचित अवस्था में प्रति हे० उपज(क्वी०में)	सिंचित अवस्था में प्रति हे० उपज (क्वी०में)	प्रति क्विंटल बाजार दर संदर्भ में(25.2.97)	अभ्युक्ति
1	2	3	4	5	6	7
1	खरीफ	धान	13	35	415	
		मकई	12	30	610	
		तिल	2	6	2000	
		उरद	3	15	1250	
		कुल्थी	3	8	900	
		गेहूं	10	30	800	
		चना	6	15	1300	
2	रब्बी	सरसों	3	10	1300	
		तिसी	3	10	1325	
		आलू	100	250	300	
		सब्जी	50	200	400	

ह/०-
जिला कृषि पदाधिकारी
देवघर

प्रति हे० बीज की मात्रा एवं कीमत			खाद की मात्रा, कीमत			मजदूरी की आवश्यकता एवं मजदूरी											
सिंचित			असिंचित			M.O.P			रोपा/बोआई			कटाई			अभ्युक्ति		
क्रम सं०	नाम	प्रति हे० बीज की मात्रा	प्रति हे० बीज की मात्रा	प्रति हे० बीज की मात्रा	प्रति हे० बीज की मात्रा	प्रति हे० बीज की मात्रा	प्रति हे० बीज की मात्रा	प्रति हे० बीज की मात्रा	प्रति हे० बीज की मात्रा	प्रति हे० बीज की मात्रा	प्रति हे० बीज की मात्रा	प्रति हे० बीज की मात्रा	प्रति हे० बीज की मात्रा	प्रति हे० बीज की मात्रा	प्रति हे० बीज की मात्रा	प्रति हे० बीज की मात्रा	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	सरीसृप	धान	60 kg	8.0	50 kg	600	225 kg	194.00	300 kg	143.10	75 kg	378.20	40	39.70	30	39.70	
2	"	मकई	30 kg	1200	20 "	1200	300 "	"	300 "	"	75	"	10	"	10	"	
3	"	तिन्ना	12 kg	2000	10 "	2000	50 "	"	250 "	"	"	"	"	"	"	"	
4	"	उरद	30 kg	1800	20 "	1800	35 "	"	250 "	"	"	"	"	"	"	"	
5	"	कुल्थी	60 kg	1000	50 "	1000	35 "	"	250 "	"	"	"	"	"	"	"	
6	रब्बी	गेहूं	125 kg	900	100 "	900	225 "	"	300 "	"	75	"	10	"	10	"	
7	"	चना	80 kg	1700	75 "	1700	35 "	"	250 "	"	"	"	"	"	"	"	
8	"	सरसों	25 kg	1800	20 "	1800	50 "	"	150 "	"	16 kg	378.20	"	"	"	"	
9	"	तिल	25 kg	1600	20 "	1600	40 "	"	125 "	"	"	"	"	"	"	"	
10	"	आलू	14 क्वी	700	10 क्वी	700	250 "	"	500 "	"	150 kg	378.20	"	"	"	"	
11	"	सर्जनी	3 kg	500	2 kg	500	300 "	"	500 "	"	100 "	"	"	"	"	"	

सर्वरक की मात्रा
असिंचित अवस्था
में सिंचित अवस्था
की जाचो होगी।

ह/०-
जिला कृषि पदाधिकारी
बैठक