

PATIYA MINOR IRRIGATION PROJECT

Taluka : - Dharni

Distt : Amaravati

B . C . RATIO CALCULATION
 Irrigable Area = 296.00 Ha
 Submergence Area = 50.22 Ha
 C . C . A . = 354.00 Ha

Sr No	Description	Amount (Lakhs)
1]	Total Cost of Project for B . C . Ratio . (Net present value)	Rs. 3914.10
A)	ANNUAL EXPENDITURE .	
	a) Interest on Capital Cost @ 10 % on Excluding Cost of NPV Value	Rs. 3914.10
	b) Depreciation Charges on Capital @ 2 % on Rs	Rs. 3,914
	c) Govt Expenses per Ha of Irrigation on 354 Ha.	Rs. 78.282
	Total Annual Expenditure	Rs. 470.365
B)	a) Benefits under Irrigated Condition for 296 Ha	Rs 296.85
	b) Deduct benefits under unirrigated condition	Rs 95.89
	Net Benefit	Rs. 200.960
	b) Add Benefits for water supply 303800 Cum	Rs 0.15/ Cum
	c) Add Benefits for Fisheries 837 Kg per Ha. of Storage take @50%	0.145
	Net Annual Benefits from the Project	Rs. 201.489

CALCULATIONS FOR BENEFITS

A) FISHERIES

Govt. Resolution Dt. 26/06/2014

Total Submergence area -

Rate for First 20 ha

From 20 ha to 50.22 ha. Rate for Rs. 180 per ha.

Ha.	50.22
Rs.	9000
x180	5439.6
Total Rs.	0.145

(In Lakhs)

As per SLTAC Letter Dt. 24/12/14 for 50%

Total Benefits for fishiers Rs.

0.073

(In Lakhs)

B) DRINKING

As Per Project Report reservation for Drinking

0.3038	Mm3
303800	Cum

Rate as per MWRRA Dt. 19/01/2018

Rs. 0.15	Per Cum
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Appendix No.2.2 P.No.11

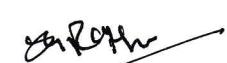
Total Benefits for Drinking Rs.

0.456 Lakhs

B . C . RATIO . =

$$\frac{\text{Rs. 201.489}}{\text{Rs. 470.365}} = 0.43$$


 Assistant Engineer-1
 Irrigation Project Sub-Division
 Achalpur


 Executive Engineer
 Irrigation Project & Water Resources
 Investigation Division Amaravati.

PATIYA MINOR IRRIGATION PROJECT

Taluka : - Dharni

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Statement showing Net benefit Under Un irrigated condition

Value of Produce Before Irrigation project

Condition :- **Unirrigated**

ICA:- 296 Ha

Sr No	Name of Crop	%	Area in Ha .	Rate of Unirrigated Produce Rs. Per Ha .	Total Benefit Rs. Lakhs
1]	Hy. Jawar	23%	68.08	32815	Rs. 22.34
2]	Cotton	30%	88.8	29999	Rs. 26.64
3]	Pulses	8.50%	25.16	13786	Rs. 3.47
4]	Wheat	5%	14.8	9558	Rs. 1.41
5]	Ground Nut	3.50%	10.36	12091	Rs. 1.25
6]	Paddy	1.50%	4.44	19048	Rs. 0.85
7]	Bajara	1.50%	4.44	13562	Rs. 0.60
8]	Gram	3%	8.88	11836	Rs. 1.05
9]	Hy. Cotton	10%	29.6	70352	Rs. 20.82
10]	Sun Flower	5%	14.8	14485	Rs. 2.14
11]	Safflower	3%	8.88	17917	Rs. 1.59
12]	Vegetable	0.50%	1.48	257342	Rs. 3.81
13]	Chilles	0.50%	1.48	406430	Rs. 6.02
14]	Soyabin / Til	5%	14.8	26312	Rs. 3.89
Total		100%	296		Rs. 95.89

Rate per Ha under Unirrigated condition =

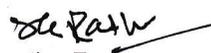
0.3240 lakh per Ha
say, **Rs. 0.324** lakh per Ha

a) Benefits under Un-Irrigated Condition on
296 Ha

Rs. 95.89



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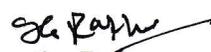
Statement showing Net benefit Under Irrigated condition
Value of Produce After Irrigation project

ICA :- 296 Ha

Sr No	Name of Crop	%	Area in Ha.	Net Benefit Rs. per Ha.	Total Benefit (Rs. Lakhs)
	A] PERINIALS	Nil			
	B] TWO SEASONAL				
1]	Hy.Cotton	10%	29.6	70352	Rs. 20.82
2]	Turmeric	1%	2.96	456891	Rs. 13.52
3]	Chilles	1%	2.96	406430	Rs. 12.03
	Total for [B]	12%	35.52		Rs. 46.38
	C] KHARIF IRRIGATED				
1]	Hy .Jawar	10%	29.6	32815	Rs. 9.71
2]	Vegetable	8%	23.68	257342	Rs. 60.94
3]	Sun Flower	5%	14.8	37378	Rs. 5.53
4]	Ground Nut	3%	8.88	25857	Rs. 2.30
	Total for [C]	26%	76.96		Rs. 78.48
	D] KHRIF UNIRRIGATED				
1]	Ordinary Cotton	25%	74	29999	Rs. 22.20
2]	Hy .Jawar	20%	59.2	32815	Rs. 19.43
3]	Sun Flower	5%	14.8	37378	Rs. 5.53
4]	Vegetable	5%	14.8	257342	Rs. 38.09
5]	Pulses (Tur)	7%	20.72	13786	Rs. 2.86
	Total for [D]	62%	183.52		Rs. 88.10
	E] RABBI IRRIGATED				
1]	Wheat	15%	44.4	9558	Rs. 4.24
2]	Gram	20%	59.2	21684	Rs. 12.84
3]	Safflower	15%	44.4	17917	Rs. 7.96
4]	Sun Flower	5%	14.8	37378	Rs. 5.53
5]	Vegetable	7%	20.72	257342	Rs. 53.32
	Total for [E]	62%	183.52		Rs. 83.89
	Total for [A] to	162%	479.52		Rs. 296.85

a] Benefits under Irrigated Condition on 296 Ha = 296.85


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