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INDICATIVE

COST-BENEFIT ANALYSIS

OF

CROPS

Agricultural & Horticultural crops

DR. SUSANTA RANJAN DASH

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Author : Dr.Susanta Ranjan Dash

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Price: Rs.250/- (Rupees Two hundred fifty) only

Rate of inputs used

Labour @Rs.126.00 per day

N: 12.37 per Kg

P₂O₅: Rs.47.80 per Kg

K₂O: Rs.27.00 per Kg

Biofertilizers: Rs.80.00 per Kg

Chloropyriphos 20 EC : Rs.280 per litre

Compost: Rs.12.00 per cft

Garden soil: Rs.8.00 per cft

Polythene: Rs.138.00 per Kg

Oil cake: Rs.1800 per quintal

Micronutrient: Rs.250.00 per Kg

Seed treatment chemical: Rs.800.00 per kg

Caution: The costs and returns mentioned are indicative only. They should not be treated as real, as agricultural production and cost depends upon many factors and involves risk.

PREFACE

Agriculture is the back bone of Indian economy. About 24% of GDP comes from agricultural sector. However financing agriculture thought to be risky.

Many a time's farmers, entrepreneurs, youths are in dilemma what to grow and what will be the benefit out of it. Bankers and other financiers fear to finance agricultural projects.

An attempt has been made to gather some relevant information and produce them in a compiled form related to the cultivation expenditure, gross income and net income from cultivation (Both indicative) for about 26 field crops, 18 fruit crops, 16 spices and aromatic plants, 8 ornamental crops, 33 medicinal crops, 6 plantation crops, quality planting material production, protected cultivation, mushrooms, preserved products, protected cultivation etc. utmost care has been taken to provide relevant information after consultation with experts, innovative farmers and suitable literature.

The information dealt here in should be taken as indicative one (should not be considered as actual) as agricultural production, expenditure and sale price depend on various factors like location, season, climatic condition, variety, soil factors, incidence of disses and pests, labour rate, labour skill, management, cultural practices followed, market demand and supply, quality, rate of input and produce, irrigation source, methods and other biotic and abiotic factors.

The net profit estimated found to be marginal in certain crops. That crop may not be taken up as a commercial venture but should not be discouraged anywhere. The profit may be less at present market price but the farmer earns a lot by getting employment opportunities for himself and his/her family members as well as green coverage over mother earth and maintaining biodiversity.

This book will be beneficial to advanced farmers and entrepreneurs for analyzing and taking up new crops or projects. Financial and consulting organizations, Agriculture, Horticulture departments and NGO firms may use this book as a reference during preparation, processing and financing agricultural projects. Constructive and valuable suggestions will be taken into consideration during subsequent publications.

CONTENTS

Sl. No	Particulars	Page No.	Sl. No	Particulars	Page No.	Sl. No	Particulars	Page No.	Sl. No	Particulars	Page No.
Agricultural crops											
1	Rice	1	8	Cotton	3	15	Lentil	5	22	Black gram	8
2	Wheat	2	9	Mesta	3	16	Mustard	6	23	Green gram	8
3	Maize	2	10	Jute	4	17	Sesamum	6	24	Field cowpea	9
4	Jowar	2	11	Sugarcane	4	18	Sunflower	6	25	Red gram	9
5	Barley	2	12	Castor	5	19	Groundnut	7	26	Field pea	9
6	Bajra	2	13	Niger	5	20	Horse gram	7			
7	Ragi	3	14	Sunflower	5	21	Bengal gram	7			
Fruit crops											
1	Aonla	10	6	Banana-Champa	15	11	Litchi	20	16	Pomegranate	25
2	Bael	11	7	Custard apple	16	12	Mango-Normal	21	17	Sapota	26
3	Banana-Dwarf	12	8	Guava	17	13	Mango-MD	22	18	Pineapple	27
4	Banana-Bantal	13	9	Jackfruit	18	14	Orange	23			
5	Banana-Silk	14	10	K.Lime	19	15	Papaya	24			
Vegetable crops											
1	Drumstick	27	14	Tomato	31	27	Potato	35	40	Runner bean	37
2	Ash gourd	28	15	Chilli (Green)	31	28	Colocasia	35	41	Garden Pea	37
3	Cucumber	28	16	Capsicum	32	29	Garlic	35	42	Pointed gourd	38
4	Bitter gourd	28	17	Cellery	32	30	Sweet potato	35	43	Spine gourd	38
5	Amaranthus	29	18	Parsley	32	31	Small gourd	35	44	Elephant foot yam	38
6	Palak	29	19	Lettuce	32	32	Cluster bean	36	45	Yam	38
7	Baby corn	29	20	Broccoli	33	33	Country bean	36	46	Ridge gourd	39
8	Sweet corn	29	21	Chinese cabbage	33	34	Snake gourd	36	47	Sponge gourd	39
9	Okra	29	22	Brucels Sprout	33	35	Summer squash	36	48	Bottle gourd	39
10	Beet	30	23	Onion	33	36	Tinda	36	49	Watermelon	40
11	Carrot	30	24	Cauliflower	34	37	Cowpea	37	50	Muskmelon	40
12	Radish	30	25	Cabbage	34	38	Bodi	37	51	Pumpkin	40
13	Brinjal	31	26	Knol khol	34	39	French bean	37			

CONTENTS

Ornamental Crops

1	Marigold	41	3	Crossandra	42	5	Rose-Normal	44	7	Tuberose	46
2	Lawr	41	4	Jasmine	43	6	Rose-Medium	45	8	Gladiolus	46

Spices & aromatic crops

1	Betel vine	47	5	Fennel	48	9	Tamarind	50	13	Citronella	52
2	Coriander	48	6	Celery	48	10	Kewda	51	14	Pachouli	53
3	Fenugreek	48	7	Ginger	49	11	Lemon grass	52	15	Mint	53
4	Cumin	48	8	Turmeric	49	12	Pamarosa	52	16	Indian basil	53

Plantation crops

1	Arecanut	54	3	Oil palm	55	5	Coconut Dwarf	57	7	Cashew-MD	59
2	Cocoa	54	4	Coconut Tall	56	6	Cashew-Normal	58			

Medicinal plants

1	Adusa	60	10	Gheekuanri	62	19	Satawar	66	28	Isabgol	68
2	Atisha	60	11	Jatmansani	62	20	Panchangulia	67	29	Sunamukhi	69
3	Bramhi	60	12	Gudmar	63	21	Black turmeric	67	30	Datura	69
4	Buch	60	13	Mulethi	63	22	Tulsi	67	31	Macy	69
5	Bhrungaraj	60	14	Kutki	64	23	Aswagandha	68	32	Sadabahar	69
6	Coleus	61	15	Stevia	64	24	Baidanka	68	33	Sinduri / Bixa	70
7	Guluchi	61	16	Sarpagandha	64	25	Bhuin amla	68			
8	Chireita	61	17	Jojoba	65	26	Bhuin neem	68			
9	Henna	61	18	Pippali	66	27	Chandrshoot	68			

Production of quality planting materials

1	Papaya seedlings	71	4	Vegetable Seedlings	73	7	Cuttings	76	10	Sapota graft	79
2	Drumstick seedlings	71	5	Fruit Seedling	74	8	Gotees	77	11	Orange graft	80
3	Flower Seedlings	72	6	Grafts	75	9	Coconut	78	12	Rose budded plants	81

Protected cultivation

1	Capasicum	82	4	Tomato	83	7	Coriander	84	10	Gerbera	86
2	Chilli	82	5	Cherry Tomato	83	8	Lettuce	84	11	Rose	86
3	Brinjal	82	6	Cucumber	83	9	Cole crops	85			

Others

1	Tomato sause	87	4	Jelly	87	7	Onion storage structure	88	11	Drip & Sprinkler	90
2	Chilli sauce	87	5	Squash	87	8	Mushroom production	89			
3	Jam	87	6	Nectar	87	9	Spawn Production	89			

Area

SI
No
A.L

1 Trac
2 Trac
3 Clea
4 Appli
5 Seec
6 Nurs
7 Upri
8 Hanc
9 Disgr
10 Irriga
11 Beus
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15 Cuttir
16 Bundl
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18 storin

B. INF

1 Cost
2 Seed
3 Manu
4 Biofer
5 Fertiliz
6 Nitrog
7 Phosp
8 Potass
9 Micror
10 PP ch
11 Irrigati
12 Weedi

Miscell

Grain y
Straw y
Income
Income
Income
Gross i
Net inc

Rice (Orza sativa)

Area - 1ha		Extra Early (Kharif)		Early (Kharif)		Medium & Late (Kha)		Early & Medium (Rabi)		Scented		Superfine						
Sl	Components of cost	Direct sown crop		Direct sown crop		Transplanted crop		Transplanted crop		Transplanted crop		Transplanted crop						
		Unit	Spacing: 15 X 10 cm Nos	Rate (Rs.)	Cost (Rs.)	Unit	Spacing: 15 X 10 cm Nos	Rate (Rs.)	Cost (Rs.)	Unit	Spacing: 20X10-15cm Nos	Rate (Rs.)	Cost (Rs.)	Unit	Spacing: 20X10-15cm Nos	Rate (Rs.)	Cost (Rs.)	
A. LABOUR																		
1	Tractor ploughing	Hrs	5	500	2500	5	500	2500	5	500	2500	5	500	2500	5	500	2500	
2	Tractor for carrying & threshing	Hrs	3	500	1500	3	500	1500	4	500	2000	3	500	1500	3	500	1500	
3	Cleaning field and bunds	MD	5	126	630	5	126	630	5	126	630	5	126	630	5	126	630	
4	Application of compost & basal fertilizer	MD	5	126	630	5	126	630	5	126	630	5	126	630	5	126	630	
5	Seed treatment & sowing	MD	2	126	252	2	126	252	1	126	126	1	126	126	1	126	126	
6	Nursery management	MD				2	126	252	2	126	252	2	126	252	2	126	252	
7	Uprooting & Transplanting	MD				50	126	6300	50	126	6300	50	126	6300	50	126	6300	
8	Hand weeding	MD	20	126	2520	20	126	2520	15	126	1890	20	126	2520	20	126	2520	
9	Disgrouping	MD				15	126	1890										
10	Irrigation (Need based)	MD							2	126	252	2	126	252	2	126	252	
11	Beusaning / Bida / nursery bed preparation with bullock plough	Nos	5	250	1250	5	250	1250	1	250	250	1	250	250	1	250	250	
12	Application of PP chemicals & weedicide	MD	8	126	1008	8	126	1008	10	126	1260	10	126	1260	10	126	1260	
13	Application of fertilizer & micronutrients	MD	2	126	252	2	126	252	2	126	252	2	126	252	2	126	252	
14	Cutting, bundling, loading & unloading	MD	33	126	4158	38	126	4788	45	126	5670	48	126	6048	48	126	6048	
15	Bundling, loading & unloading of straw	MD				16	126	2016	20	126	2520	25	126	3150	25	126	3150	
16	Threshing, winnowing, bagging and storing	MD	20	126	2520	20	126	2520	27	126	3402	27	126	3402	25	126	3150	
SUB TOTAL - A		MD	95		13220	120		16370	185		23560	190		24190	170		21670	
B. INPUTS																		
1	Cost of seeds	Kg	75	13.5	1012.5	60	13.5	810	60	13.5	810	60	20	1200	60	20	1200	
2	Seed treating chemical @ 3g/kg	g	225	0.8	180	180	0.8	144	180	0.8	144	180	0.8	144	180	0.8	144	
3	Manure / Compost	MT	5	800	4000	5	800	4000	5	800	4000	5	800	4000	5	800	4000	
4	Biofertilizers(Azotobactor +PSB)	Kg	0.2	80	16	0.2	80	16	0.2	80	16	0.2	80	16	0.2	80	16	
5	Fertilizers	Kg	40	12.37	495	60	12.37	742	80	12.37	990	60	12.37	742	80	12.37	990	
	Nitrogen	Kg	20	47.8	956	30	47.8	1434	40	47.8	1912	30	47.8	1434	40	47.8	1912	
	Phosphorus	Kg	20	27	540	30	27	810	40	27	1080	30	27	810	40	27	1080	
	Potassium	Kg	3	100	300	3	100	300	3	100	300	3	100	300	3	100	300	
6	Micronutrients	Nos	2	600	1200	2	600	1200	2	600	1200	2	600	1200	2	600	1200	
7	PP chemicals	Hr	1	800	800	1	800	800	1	800	800	1	800	800	1	800	800	
8	Irrigation charges																	
9	Weedicide	Kg	1	800	800	1	800	800	1	800	800	1	800	800	1	800	800	
SUB TOTAL - B					9499			10256			12752			19252			11146	
Miscellaneous / Contingency @10%					2281			2674			3688			4358			3284	
GRAND TOTAL					25000			29300			40000			47800			36100	
Grain yield / ha		Qlt		30				35			50			60			40	
Straw yield / ha		Qlt		42				47			66			70			52	
Income from grain / ha		Rs		1310	39300			1310	45850		1350	67500		1350	81000		2000	80000
Income from straw / ha		Rs		150	6300			150	7050		150	9900		150	10500		150	7800
Gross income		Rs			45600				52900			77400			91500			87800
Net income		Rs			20600				23600			37400			43700			51700

Wheat (<i>Triticum aestivum</i>)		Maize (<i>Zea mays</i>)		Jowar (<i>Sorghum bicolor</i>)		Barley (<i>Hordeum vulgare</i>)		Bajra							
Area - 1ha		Wheat (Rabi)-Irrigated		Maize (Kharif)		Maize (Summer)-Irr		Jowar (Kharif)		Bajra (Kharif)		Barley (Rabi)-Irrigated			
SI	Components of cost	Unit	Spacing: 15-20X4-6cm	Direct sown crop	Spacing: 60 X45 cm	Direct sown crop	Spacing: 50X25cm	Direct sown crop	Spacing: 45X12-15cm	Direct sown crop	Spacing: 45X10-15cm	Direct sown crop	Spacing: 45X10-15cm		
No	A	LABOUR	Rate (Rs.)	Nos	Rate (Rs.)	Cost (Rs.)	Nos	Rate (Rs.)	Cost (Rs.)	Nos	Rate (Rs.)	Cost (Rs.)	Nos	Rate (Rs.)	Cost (Rs.)
1	Tractor ploughing	Hrs	500	5	500	2500	5	500	2500	5	500	2500	5	500	2500
2	Tractor for carrying & threshing	Hrs	500	3	500	1500	1	500	500	3	500	1500	3	500	1500
3	Cleaning field and bunds	MD	630	5	126	630	5	126	630	5	126	630	5	126	630
4	Application of compost & basal fertilizer	MD	630	5	126	630	5	126	630	5	126	630	5	126	630
5	Seed treatment & sowing	MD	1764	14	126	1764	10	126	1260	10	126	1260	10	126	1260
6	Sowing with bullock plough	Nos	750	3	250	750	3	250	750	3	250	750	3	250	750
7	Hand weeding / thinning	MD	2520	20	126	2520	25	126	3150	25	126	3150	25	126	3150
8	First hoeing, thinning & earthing up	MD	882	7	126	882	20	126	2520	20	126	2520	20	126	2520
9	Second hoeing, weeding & earthing up	MD	1134	9	126	1134	15	126	1890	15	126	1890	5	126	630
10	Irrigation (Need based)	MD	882	7	126	882	10	126	1260	5	126	630	5	126	630
11	Application of PP chemicals & weedicide	MD	252	2	126	252	5	126	630	1	126	126	5	126	630
12	Application of fertilizer & micronutrients	MD	4410	35	126	4410	40	126	5040	30	126	3780	30	126	3780
13	Harvesting, loading & unloading	MD	1890	15	126	1890	40	126	5040	19	126	2394	20	126	2520
14	Threshing, drying, winnowing, bagging and storing	MD	14862	112	132	14862	40	126	5040	19	126	2394	19	126	2394
SUB TOTAL - A						170			22170			175			22800
B. INPUTS															
1	Cost of seeds	Kg	125	18	2250	20	15	300	300	25	15	375	12.5	15	187.5
2	Seed treating chemical @ 3g/kg	g	375	0.8	300	60	0.8	48	60	37.5	0.8	30	37.5	0.8	30
3	Manure / Compost	MT	5	800	4000	5	800	4000	4000	5	800	4000	5	800	4000
4	Biofertilizers(Azotobactor +PSB)	Kg	0.2	80	16	0.2	80	16	16	0.2	80	16	0.2	80	16
5	Fertilizers	Kg	80	12.37	990	80	12.37	990	742	60	12.37	742	60	12.37	742
	Nitrogen	Kg	50	47.8	2390	40	47.8	1912	1434	30	47.8	1434	30	47.8	1434
	Phosphorus	Kg	40	27	1080	40	27	1080	810	30	27	810	30	27	810
	Potassium	Kg	3	100	300	3	100	300	300	3	100	300	3	100	300
6	Micronutrients	Nos	2	600	1200	2	600	1200	600	1	600	600	1	600	600
7	PP chemicals	Hr	6	500	3000	6	500	3000	3000	6	500	3000	6	500	3000
8	Irrigation charges	Kg	1	800	800	1	800	800	800	1	800	800	1	800	800
9	Weedicide	Kg	1	800	800	1	800	800	800	1	800	800	1	800	800
SUB TOTAL - B					16326			10646	13733			8620			9372
Miscellaneous / Contingency @10%					3112			3284	3667			2410			2318
GRAND TOTAL					34300			36100	40200			26900			26300
Grain yield / ha		Qtl	30	Rate		Amount	Rate		Amount	Rate		Amount	Rate		Amount
Income from grain / ha		Rs	1800	54000		54000	1500		45000	1500		56250	1500		37500
Gross income		Rs	54000	54000		54000	45000		45000	56250		56250	37500		36000
Net income		Rs	19700	19700		19700	8900		8900	16050		16050	9900		9700

Rate of 30 8000 8000 700
per 30 30000 30000 30000 30000
100 30000 30000 30000 30000
1000 30000 30000 30000 30000
10000 30000 30000 30000 30000
100000 30000 30000 30000 30000

Sl	Area - 1ha	Ragi (Eleusine coracana)				Cotton (Gossypium spp)				Mesta (Hibiscus cannabinus)																					
		Ragi (Kharif)				Cotton-Imp (Kharif)				Cotton-Hyb (Kharif)																					
		Direct sown crop				Direct sown crop				Direct sown crop																					
	Components of cost	Spacing: 15-20x10 cm	Unit	Nos	Rate (Rs.)	Cost (Rs.)	Spacing: 90 X 60 cm	Nos	Rate (Rs.)	Cost (Rs.)	Spacing: 150x75 cm	Nos	Rate (Rs.)	Cost (Rs.)	Spacing: 60 X25 cm	Nos	Rate (Rs.)	Cost (Rs.)	Spacing: 90x45 cm	Nos	Rate (Rs.)	Cost (Rs.)	Spacing: 30 X10 cm	Nos	Rate (Rs.)	Cost (Rs.)					
No	A LABOUR																														
1	Tractor ploughing		Hrs	5	500	2500		5	500	2500		5	500	2500		5	500	2500		5	500	2500		5	500	2500		5	500	2500	
2	Tractor for carrying & threshing		Hrs	3	500	1500		1	500	500		1	500	500		1	500	500		1	500	500		4	500	2000		4	500	2000	
3	Cleaning field and burds		MD	5	126	630		5	126	630		5	126	630		5	126	630		5	126	630		5	126	630		5	126	630	
4	Application of compost & basal fertilizer		MD	5	126	630		5	126	630		5	126	630		5	126	630		5	126	630		5	126	630		5	126	630	
5	Seed treatment & sowing		MD	2	126	252		10	126	1260		10	126	1260		10	126	1260		10	126	1260		2	126	252		2	126	252	
6	Sowing with bullock plough		Nos	3	250	750		3	250	750		3	250	750		3	250	750		3	250	750		3	250	750		3	250	750	
7	First hoeing, thinning & earthing up		MD	25	126	3150		20	126	2520		20	126	2520		20	126	2520		20	126	2520		35	126	4410		35	126	4410	
8	Second hoeing, weeding & earthing up		MD	25	126	3150		25	126	3150		25	126	3150		25	126	3150		25	126	3150		20	126	2520		20	126	2520	
9	Irrigation (Need based)		MD					25	126	3150		25	126	3150		25	126	3150		25	126	3150		15	126	1890		15	126	1890	
10	Application of PP chemicals & weedicide		MD	5	126	630		20	126	2520		20	126	2520		20	126	2520		20	126	2520		8	126	1008		8	126	1008	
11	Application of fertilizer & micronutrients		MD	2	126	252		10	126	1260		10	126	1260		10	126	1260		10	126	1260		5	126	630		5	126	630	
12	Harvesting, loading & unloading		MD	25	126	3150		100	126	12600		110	126	13860		110	126	13860		110	126	13860		30	126	3780		30	126	3780	
13	Post Harvest management		MD	13	126	1638		15	126	1890		15	126	1890		15	126	1890		15	126	1890		50	126	6300		50	126	6300	
	SUB TOTAL - A		MD	82		11082		210		27210		220		28470		235		30360		235		30360		160		20910		160		20910	
	B. INPUTS																														
1	Cost of seeds		Kg	10	16.5	165		3	250	750		2	600	1200		3	250	750		2	600	1200		2	600	1200		15	22	330	
2	Seed treating chemical @3g/Kg		g	30	0.8	24		9	0.8	7.2		6	0.8	4.8		9	0.8	7.2		6	0.8	4.8		6	0.8	4.8		45	0.8	36	
3	Manure / Compost		MT	5	800	4000		5	800	4000		5	800	4000		5	800	4000		5	800	4000		5	800	4000		5	800	4000	
4	Biofertilizers(Azotobactor +PSB)		Kg	0.2	80	16		0.2	80	16		0.2	80	16		0.2	80	16		0.2	80	16		0.2	80	16		0.2	80	16	
5	Fertilizers		Kg	40	12.37	495		80	12.37	990		120	12.4	1484		80	12.37	990		120	12.37	1484		120	12.37	1484		25	12.37	309	
	Nitrogen		Kg	20	47.8	956		40	47.8	1912		60	47.8	2868		40	47.8	1912		60	47.8	2868		60	47.8	2868		20	47.8	956	
	Phosphorus		Kg	20	27	540		40	27	1080		60	27	1620		40	27	1080		60	27	1620		60	27	1620		20	27	540	
	Potassium		Kg																												
6	Micronutrients		Kg					3	100	300		3	100	300		3	100	300		3	100	300		3	100	300					
7	PP chemicals		Nos	1	600	600		6	600	3600		6	600	3600		6	600	3600		6	600	3600		6	600	3600		2	600	1200	
8	Irrigation charges		Hr					10	500	5000		10	500	5000		10	500	5000		10	500	5000		10	500	5000					
9	Weedicide		Kg	1	800	800		1	800	800		1	800	800		1	800	800		1	800	800		1	800	800		0.75	800	600	
	SUB TOTAL - B					7596				13455				15893				18455				20893				7987				2803	
	Miscellaneous / Contingency @10%					1822				4035				4437				4885				5147				2803					
	GRAND TOTAL					20500				44700				48800				53700				56400				31700				31700	
	Yield / ha		Qil		Rate	Amount			Rate	Amount			Rate	Amount			Rate	Amount			Rate	Amount			Rate	Amount			Rate	Amount	
	Gross income		Rs		1500	30000			3600	54000			3900	70200			3600	64800			3900	78000			2000	36000			2000	36000	
	Net income		Rs		9500	9500			9300	9300			21400	21400			11100	11100			21600	21600			4300	4300			4300	4300	

Jute (Corchorus olitorius / capsularis)

Area - 1ha				Jute (Olitorius)		Jute (Capsularis)	
Components of cost				Direct sown crop		Direct sown crop	
SI	No	Unit	Rate (Rs.)	Nos	Rate (Rs.)	Nos	Rate (Rs.)
				Spacing: 60 X 45 cm		Spacing: 60 X 45 cm	
A. LABOUR							
1	Tractor ploughing	Hrs	500	5	500	5	500
2	Tractor for carrying	Hrs	500	4	500	4	500
3	Cleaning field and bunds	MD	126	5	126	5	126
4	Application of compost & basal fertilizer	MD	630	5	126	5	630
5	Seed treatment & sowing	MD	630	5	126	5	630
6	Sowing with bullock plough	Nos	126	5	126	5	630
7	Thinning	MD	750	3	250	3	750
8	First hoeing	MD	250	15	250	15	3750
9	Second hoeing & weeding	MD	3780	30	126	30	3780
10	Irrigation (Need based)	MD	1890	15	126	15	1890
11	Application of PP chemicals & weedicide	MD	630	5	126	5	630
12	Application of fertilizer & micronutrients	MD	1260	10	126	10	1260
13	Cutting & bundling	MD	630	5	126	5	630
14	Loading, unloading & retting	MD	2520	20	126	20	2520
15	Stripping	MD	1890	15	126	15	1890
16	Drying & bundling	MD	6930	55	126	55	6930
17		MD	1890	15	126	15	1890
SUB TOTAL - A			27810	200		200	27810
B. INPUTS							
1	Cost of seeds	Kg	58	5	290	6	348
2	Seed treating chemical @ 3g/kg	g	0.8	15	12	18	14.4
3	Manure / Compost	MT	800	5	4000	5	4000
4	Biofertilizers(Azotobactor +PSB)	Kg	80	0.3	24	0.3	24
5	Fertilizers	Kg	495	60	742	60	742
	Nitrogen	Kg	12.4	40	495	30	372
	Phosphorus	Kg	47.8	20	956	30	1434
	Potassium	Kg	27	20	540	30	810
6	Micronutrients	Kg	540	30	1620	30	1620
7	PP chemicals	Nos	400	4	400	4	400
8	Irrigation charges	Hr	2400	6	3600	6	3600
9	Weedicide	Kg	10000	20	20000	20	20000
SUB TOTAL - B			9917	1	800	1	800
Miscellaneous / Contingency @10%				3773		3817	
GRAND TOTAL				41500		42600	
Yield / ha		Qtl	Rate	Amount		Rate	
Gross income		Rs	2200	55000		2200	
Net income		Rs	13500	13500		23400	

Sugarcane (Saccharum spp)

Area - 1ha				Main crop		Ratoon	
Components of cost				Row spacing: 60 cm (Early), 90 cm (Late)		Row spacing: 60 cm (Early), 90 cm (Late)	
SI	No	Unit	Rate (Rs.)	Nos	Rate (Rs.)	Nos	Rate (Rs.)
A. LABOUR							
1	Tractor ploughing, trench / pit making	Hrs	500	7	3500	10	5000
2	Tractor for carrying	Hrs	500	10	5000	10	5000
3	Cleaning field, bunds, line sizing	MD	126	10	1260	10	1260
4	Application of compost & basal fertilizer	MD	1260	10	1260	10	1260
5	Seed cane cutting & treatment	MD	1890	10	1260	10	1260
6	Sowing with bullock plough	Nos	126	15	1890	10	1260
7	Planting of cane / sets	MD	250	5	1250	3	750
8	First hoeing, weeding & earthing up	MD	3150	25	3150	3	750
9	Second hoeing, weeding & earthing up	MD	6300	50	6300	50	6300
10	Third weeding	MD	5040	40	5040	40	5040
11	Irrigation (Need based)	MD	1890	15	1890	15	1890
12	Application of PP chemicals & weedicide	MD	5040	40	5040	40	5040
13	Application of fertilizer & micronutrients	MD	1890	15	1890	15	1890
14	Wrapping & propping	MD	2520	20	2520	20	2520
15	Harvesting of canes	MD	10080	80	10080	80	10080
16	Cleaning and bundling	MD	5040	40	5040	40	5040
17	Loading & unloading	MD	8820	70	8820	70	8820
SUB TOTAL - A			68030	530	68030	490	62490
B. INPUTS							
1	Seed cane	Kg	150	15	2250	12	1800
2	Cane & soil treating chemical, lime	LS	1000	12	12000	12	12000
3	Manure / Compost	MT	800	12	9600	12	9600
4	Biofertilizers(Azotobactor +PSB)	Kg	80	10	800	10	800
5	Fertilizers	Kg	3093	312	3859	312	3859
	Nitrogen	Kg	12.4	100	1240	100	1240
	Phosphorus	Kg	47.8	100	4780	100	4780
	Potassium	Kg	27	50	1350	60	1620
6	Micronutrients (Zinc)	Kg	400	4	400	4	400
7	PP chemicals	Nos	2400	4	2400	4	400
8	Irrigation charges	Hr	10500	4	42000	6	24000
9	Weedicide	Kg	10000	21	210000	20	200000
SUB TOTAL - B			37173	1.25	1000	1.3	1000
Miscellaneous / Contingency @10%				10597		9851	
GRAND TOTAL				115800		108000	
Cane yield / ha		Qtl	Rate	1000		Rate	
Seed cane yield / ha		Qtl	100	100		100	
Income from cane / ha		Rs	170	170000		170	
Income from seed cane / ha		Rs	150	15000		150	
Gross income		Rs	185000	185000		185000	
Net income		Rs	69201	69201		77000	

SI	No	Unit	Rate (Rs.)	Nos	Rate (Rs.)	Nos	Rate (Rs.)
A							
1	Tr						
2	Tr						
3	Tr						
4	Tr						
5	Tr						
6	Tr						
7	Tr						
8	Tr						
9	Tr						
B. I							
1	Co						
2	Co						
3	Co						
4	Co						
5	Co						
6	Co						
7	Co						
8	Co						
9	Co						
Misc							
Yield							
Gross							
Net							

Ratoon	
90 cm (Late)	Cost
Rate (Rs.)	(Rs.)
500	5000
126	1260
126	1260
250	750
126	6300
126	5040
126	1890
126	1890
126	2520
126	10080
126	5040
126	8820
126	12600
	62490

Rate	
1000	100
170	170000
150	15000
185000	185000
77000	77000

Castor (<i>Ricinus communis</i>)		Niger/Asi (<i>Guizotia abyssinica</i>)		Safflower/Kusumi (<i>Carthamus tinctorius</i>)		Lentil (<i>Lens culinaris</i>)											
Area - 1ha		Castor (Kharif)		Castor (Unirrigated-R)		Niger (Unirrigated)		Safflower (Rabi)		Lentil (Rabi)							
Components of cost		Direct sown crop		Direct sown crop		Direct sown crop		Direct sown crop		Direct sown crop							
Sl	Unit	Nos	Rate (Rs.)	Nos	Rate (Rs.)	Nos	Rate (Rs.)	Nos	Rate (Rs.)	Nos	Rate (Rs.)						
A. LABOUR																	
1	Tractor ploughing	Hrs	5	500	2500	5	500	2500	4	500	2000	3	500	1500			
2	Tractor for carrying / threshing	Hrs	2	500	1000	2	500	1000	2	500	1000	1	500	500			
3	Cleaning field and burds	MD	5	126	630	5	126	630	5	126	630	5	126	630			
4	Application of compost & basal fertilizer	MD	5	126	630	5	126	630	5	126	630	5	126	630			
5	Seed treatment & sowing	MD	10	126	1260	10	126	1260	2	126	252	7	126	882			
6	Sowing with bullock plough	Nos	3	250	750	3	250	750	3	250	750	3	250	750			
7	First hoeing, thinning & earthing up	MD	25	126	3150	25	126	3150	25	126	3150	17	126	2142			
8	Second hoeing & weeding	MD	20	126	2520	20	126	2520	10	126	1260	15	126	1890			
9	Irrigation (Need based)	MD	5	126	630	5	126	630	3	126	378	2	126	252			
10	Application of PP chemicals & weedicide	MD	5	126	630	5	126	630	5	126	630	6	126	756			
11	Application of fertilizer & micronutrients	MD	5	126	630	5	126	630	3	126	378	5	126	630			
12	Hand pollination / Bee keeping																
13	Harvesting, loading & unloading	MD	30	126	3780	30	126	3780	20	126	2520	20	126	2520			
14	Post Harvest management	MD	15	126	1890	15	126	1890	15	126	1890	15	126	1890			
SUB TOTAL - A		MD	120		15870	125		16500	120		15870	90		12090			
B. INPUTS																	
1	Cost of seeds	Kg	15	50	750	15	50	750	15	50	750	20	50	1000			
2	Seed treating chemical @ 3g/Kg	g	45	0.8	36	45	0.8	36	30	0.8	24	60	0.8	48			
3	Manure / Compost	MT	5	800	4000	5	800	4000	5	800	4000	5	800	4000			
4	Biofertilizers(Azotobactor +PSB)	Kg	0.3	80	24	0.3	80	24	0.2	80	16	0.2	80	16			
5	Fertilizers																
	Nitrogen	Kg	60	12.4	742	60	12.37	742	40	12.37	495	30	12.37	371			
	Phosphorus	Kg	40	47.8	1912	40	47.8	1912	20	47.8	956	30	47.8	1434			
	Potassium	Kg	40	27	1080	40	27	1080	20	27	540	15	27	405			
6	Micronutrients	Kg	3	100	300	3	100	300	3	100	300	2	600	1200			
7	PP chemicals	Nos	2	600	1200	2	600	1200	1	600	600	1	600	600			
8	Irrigation charges	Hr	4	500	2000	4	500	2000				2	500	1000			
9	Weedicide	Kg	0.75	800	600	0.75	800	600	0.75	800	600	0.75	800	600			
SUB TOTAL - B					10644			12644			10644			9074			
Miscellaneous / Contingency @10%					2686			2956			1979			1926			
GRAND TOTAL					29200			32100			29200			21200			
Yield / ha		Qlt		Rate	Amount			Rate	Amount					Rate	Amount		
Gross income		Rs		4000	50000		4000	60000		4000	50000		2500	25000		3500	52500
Net income		Rs			20800			27900			20800			3800			29800

Sl	No	Area -1ha	Rapeseed / Mustard (Brassica spp)				Sesamum (Sesamum indicum)				Sunflower (Helianthus annuus)			
			Mustard (Irrigated)		Mustard (Unirrigated)		Sesamum (Irrigated)		Sesamum (Unirrigated)		Sunflower (Irrigated)		Sunflower (Unirrigated)	
			Components of cost	Spacing: 45X10 cm	Spacing: 30 X8 cm	Spacing: 20 X 6 cm	Spacing: 20 X 3 cm	Spacing: 45X30 cm	Spacing: 60 X30 cm					
No	Unit	Nos	Rate (Rs.)	Cost (Rs.)	Nos	Rate (Rs.)	Cost (Rs.)	Nos	Rate (Rs.)	Cost (Rs.)	Nos	Rate (Rs.)	Cost (Rs.)	
1	Tractor ploughing	Hrs	5	500	2500	5	500	2500	5	500	2500	5	500	2500
2	Tractor for carrying & threshing	Hrs	3	500	1500	3	500	1500	3	500	1500	1	500	500
3	Cleaning field and burds	MD	5	126	630	5	126	630	5	126	630	5	126	630
4	Application of compost & basal fertilizer	MD	5	126	630	5	126	630	5	126	630	5	126	630
5	Seed treatment & sowing	MD	5	126	630	5	126	630	2	126	252	10	126	1260
6	Sowing with bullock plough	Nos	3	250	750	3	250	750	3	250	750	3	250	750
7	First hoeing, thinning & earthing up	MD	25	126	3150	25	126	3150	25	126	3150	25	126	3150
8	Second hoeing & weeding	MD	15	126	1890	15	126	1890	10	126	1260	15	126	1890
9	Irrigation (Need based)	MD	3	126	378	4	126	504	5	126	630	5	126	630
10	Application of PP chemicals & weedicide	MD	5	126	630	5	126	630	5	126	630	5	126	630
11	Application of fertilizer & micronutrients	MD	5	126	630	5	126	630	5	126	630	5	126	630
12	Hand pollination / Bee keeping													
13	Harvesting, loading & unloading	MD	18	126	2268	15	126	1890	15	126	1890	10	126	1260
14	Post Harvest management	MD	14	126	1764	10	126	1260	10	126	1260	20	126	2520
SUB TOTAL - A		MD	100		13350	90		12090	100		13350	82		11082
B. INPUTS														
1	Cost of seeds	Kg	10	39	390	10	39	390	10	35.5	355	10	80	800
2	Seed treating chemical @ 3g/kg	g	30	0.8	24	30	0.8	24	30	0.8	24	30	0.8	24
3	Manure / Compost	M/T	5	800	4000	5	800	4000	5	800	4000	5	800	4000
4	Biofertilizers (Azotobactor +PSB)	Kg	0.2	80	16	0.2	80	16	0.2	80	16	0.2	80	16
5	Fertilizers													
	Nitrogen	Kg	60	12.37	742	30	12.37	371	30	12.37	371	30	12.37	371
	Phosphorus	Kg	30	47.8	1434	15	47.8	717	15	47.8	717	40	47.8	1912
	Potassium	Kg	30	27	810	15	27	405	15	27	405	30	27	810
6	Micronutrients	Kg	3	100	300	3	100	300	3	100	300	10	100	1000
7	PP chemicals	Nos	2	600	1200	2	600	1200	2	600	1200	2	600	1200
8	Irrigation charges	Hr	3	500	1500	3	500	1500	3	500	1500	3	500	1500
9	Weedicide	Kg	0.75	800	600	0.75	800	600	0.75	800	600	0.75	800	600
SUB TOTAL - B					11016			8023			9488			12233
Miscellaneous / Contingency @10%					2434			2087			2262			2897
GRAND TOTAL					26800			22200			25100			31000
Yield / ha		CH	15			10			18			16		
Gross income		Rs	4000	60000		4000	40000		4500	81000		3700	59200	
Net income		Rs		33200			17800			55900			28200	

Sl	No	Area -1ha	Mustard (Irrigated)		Mustard (Unirrigated)		Sesamum (Irrigated)		Sesamum (Unirrigated)		Sunflower (Irrigated)		Sunflower (Unirrigated)	
Components of cost			Spacing: 45X10 cm	Spacing: 30 X8 cm	Spacing: 20 X 6 cm	Spacing: 20 X 3 cm	Spacing: 45X30 cm	Spacing: 60 X30 cm						
No	Unit	Nos	Rate (Rs.)	Cost (Rs.)	Nos	Rate (Rs.)	Cost (Rs.)	Nos	Rate (Rs.)	Cost (Rs.)	Nos	Rate (Rs.)	Cost (Rs.)	
1	Tractor ploughing	Hrs	5	500	2500	5	500	2500	5	500	2500	5	500	2500
2	Tractor for carrying & threshing	Hrs	3	500	1500	3	500	1500	3	500	1500	1	500	500
3	Cleaning field and burds	MD	5	126	630	5	126	630	5	126	630	5	126	630
4	Application of compost & basal fertilizer	MD	5	126	630	5	126	630	5	126	630	5	126	630
5	Seed treatment & sowing	MD	5	126	630	5	126	630	2	126	252	10	126	1260
6	Sowing with bullock plough	Nos	3	250	750	3	250	750	3	250	750	3	250	750
7	First hoeing, thinning & earthing up	MD	25	126	3150	25	126	3150	25	126	3150	25	126	3150
8	Second hoeing & weeding	MD	15	126	1890	15	126	1890	10	126	1260	15	126	1890
9	Irrigation (Need based)	MD	3	126	378	4	126	504	5	126	630	5	126	630
10	Application of PP chemicals & weedicide	MD	5	126	630	5	126	630	5	126	630	5	126	630
11	Application of fertilizer & micronutrients	MD	5	126	630	5	126	630	5	126	630	5	126	630
12	Hand pollination / Bee keeping													
13	Harvesting, loading & unloading	MD	18	126	2268	15	126	1890	15	126	1890	10	126	1260
14	Post Harvest management	MD	14	126	1764	10	126	1260	10	126	1260	20	126	2520
SUB TOTAL - A		MD	100		13350	90		12090	100		13350	82		11082
B. INPUTS														
1	Cost of seeds	Kg	10	39	390	10	39	390	10	35.5	355	10	80	800
2	Seed treating chemical @ 3g/kg	g	30	0.8	24	30	0.8	24	30	0.8	24	30	0.8	24
3	Manure / Compost	M/T	5	800	4000	5	800	4000	5	800	4000	5	800	4000
4	Biofertilizers (Azotobactor +PSB)	Kg	0.2	80	16	0.2	80	16	0.2	80	16	0.2	80	16
5	Fertilizers													
	Nitrogen	Kg	60	12.37	742	30	12.37	371	30	12.37	371	30	12.37	371
	Phosphorus	Kg	30	47.8	1434	15	47.8	717	15	47.8	717	40	47.8	1912
	Potassium	Kg	30	27	810	15	27	405	15	27	405	30	27	810
6	Micronutrients	Kg	3	100	300	3	100	300	3	100	300	10	100	1000
7	PP chemicals	Nos	2	600	1200	2	600	1200	2	600	1200	2	600	1200
8	Irrigation charges	Hr	3	500	1500	3	500	1500	3	500	1500	3	500	1500
9	Weedicide	Kg	0.75	800	600	0.75	800	600	0.75	800	600	0.75	800	600
SUB TOTAL - B					11016			8023			9488			12233
Miscellaneous / Contingency @10%					2434			2087			2262			2897
GRAND TOTAL					26800			22200			25100			31000
Yield / ha		CH	15			10			18			16		
Gross income		Rs	4000	60000		4000	40000		4500	81000		3700	59200	
Net income		Rs		33200			17800			55900			28200	

		Groundnut (<i>Arachis hypogaea</i>)				Horse Gram (<i></i>)				Bengal Gram (<i>Cicer arietinum</i>)				
Area: 1ha		Groundnut (Kharif)		Groundnut (Rabi-Uh)		Groundnut (Rabi-Iimga)		Horse Gram (Rabi)		Bengal Gram (Rabi)		Bengal Gram (Pya)		
Direct sown crop		Direct sown crop		Direct sown crop		Direct sown crop		Direct sown crop		Direct sown crop		Direct sown crop		
Spacing: 60 X 30 cm		Spacing: 25 X 10 cm		Spacing: 20 X 10 cm		Spacing: 25 X 10 cm		Spacing: 30 X 10 cm		Spacing: 30 X 10 cm		Spacing: 30 X 10 cm		
No	Rate (Rs.)	Cost (Rs.)	No	Rate (Rs.)	Cost (Rs.)	No	Rate (Rs.)	Cost (Rs.)	No	Rate (Rs.)	Cost (Rs.)	No	Rate (Rs.)	Cost (Rs.)
5	500	2500	5	500	2500	5	500	2500	3	500	1500	3	500	1500
1	500	500	2	500	1000	2	500	1000	2	500	1000	1	500	500
5	126	630	5	126	630	5	126	630	5	126	630	5	126	630
5	126	630	5	126	630	5	126	630	5	126	630	5	126	630
10	126	1260	10	126	1260	10	126	1260	5	126	630	5	126	630
3	250	750	12	126	1512	12	126	1512	3	126	378	3	126	378
25	126	3150	3	250	750	3	250	750	3	250	750	3	250	750
15	126	1890	30	126	3780	30	126	3780	17	126	2142	10	126	1260
5	126	630	8	126	1008	6	250	1500	2	126	252	2	126	252
8	126	1008	10	126	1260	10	126	1260	3	126	378	3	126	378
5	126	630	10	126	1260	10	126	1260	20	126	2520	17	126	2142
10	126	1260	10	126	1260	10	126	1260	15	126	1890	15	126	1890
17	126	2142	10	126	1260	72	126	9072	15	126	1890	17	126	2142
20	126	2520	10	126	1260	10	126	1260	15	126	1890	15	126	1890
125		16500	140		18390	150		19650	170		22914	65		8940
B. INPUTS			140		18390	150		19650	170		22914	65		8940
1	Cost of seeds	Kg	175	40	7000	175	40	7000	175	40	7000	50	50	2500
2	Seed treating chemical @3g/kg	g	525	0.8	420	525	0.8	420	525	0.8	420	150	0.8	120
3	Mixture / Compost	MT	5	800	4000	5	800	4000	5	800	4000	5	800	4000
4	Biofertilizers(Rhizobium +PSB)	Kg	2.5	80	200	2.5	80	200	1	80	80	1.2	80	96
5	Fertilizers													
	Nitrogen	Kg	20	12.4	247	20	12.37	247	20	12.37	247	20	12.37	247
60	Phosphorus	Kg	40	47.8	1912	40	47.8	1912	40	47.8	1912	40	47.8	1912
80	Potassium	Kg	40	27	1080	40	27	1080	20	27	540	20	27	540
60	Micronutrients	Kg	5	100	500	5	100	500	5	100	500	2	600	1200
10	PP chemicals	Nos	2	600	1200	2	600	1200	1	600	600	2	600	1200
3	Irrigation charges	Hr												
3		Hr	2	600	1200	2	600	1200	1	600	600	2	600	1200
0.75	Weedicide	Kg	1	800	800	1	800	800	1	800	800	0.75	800	600
SUB TOTAL - A		MD	140		18390	150		19650	170		22914	65		8940
SUB TOTAL - B			17359		17359	17359		17359	17359		10599	60		8310
Miscellaneous / Contingency @10%			3551		3791	4027		4027	1961		1931	1559		6959
GRAND TOTAL			39300		40800	44300		44300	21500		21800	15500		1491
Rate Amount			20		20	25		15	15		10	10		10
Yield / ha	Oil	Rs	4000	60000	80000	4000	80000	100000	3500	52500	4500	67500	4500	45000
Gross income	Rs	Rs	4000	60000	80000	4000	80000	100000	3500	52500	4500	67500	4500	45000
Net income	Rs	Rs	20700	20700	39200	55700	55700	31000	31000	31000	45700	45700	29500	29500

Black Gram (Vigna mungo)											Green Gram (Vigna radiata)										
Area - 1ha			Black Gram (K. Pre-R)			Black Gram (Summer)			Black Gram (Pya)			Green Gram (K. Pre-R)			Green Gram (Summer)			Green Gram (Pya)			
Sl	Components of cost	Unit	Direct sown crop		Direct sown crop		Direct sown crop		Direct sown crop		Direct sown crop		Direct sown crop		Direct sown crop		Direct sown crop				
			Nos	Rate (Rs.)	Nos	Rate (Rs.)	Nos	Rate (Rs.)	Nos	Rate (Rs.)	Nos	Rate (Rs.)	Nos	Rate (Rs.)	Nos	Rate (Rs.)	Nos	Rate (Rs.)			
A LABOUR			Spacing: 30X 5-10 cm		Spacing: 25 X 5-10 cm		Spacing: 25 X 5-10 cm		Spacing: 30X 5-10 cm		Spacing: 25 X 5-10 cm		Spacing: 25 X 5-10 cm		Spacing: 30X 5-10 cm		Spacing: 25 X 5-10 cm				
1	Tractor ploughing	Hrs	3	500	3	500	2	500	3	500	3	500	2	500	3	500	2	500			
2	Tractor for carrying	Hrs	2	500	2	500															
3	Cleaning field and bunds	MD	5	126	5	126	5	126	5	126	5	126	5	126	5	126	5	126			
4	Application of compost & basal fertilizer	MD	5	126	5	126	5	126	5	126	5	126	5	126	5	126	5	126			
5	Seed treatment & sowing	MD	3	126	3	126	3	126	3	126	3	126	3	126	3	126	3	126			
6	Sowing / threshing with bullock plough	Nbs	3	250	3	250	3	250	3	250	3	250	3	250	3	250	3	250			
7	Weeding	MD	15	126	15	126	15	126	15	126	15	126	15	126	15	126	15	126			
8	Irrigation (Need based)	MD			3	126			3	126			3	126			3	126			
9	Application of PP chemicals & weedicide	MD	5	126	5	126	5	126	5	126	5	126	5	126	5	126	5	126			
10	Harvesting & drying	MD	20	126	20	126	20	126	20	126	20	126	20	126	20	126	20	126			
11	Threshing, drying, bagging, storing, etc	MD	15	126	15	126	15	126	15	126	15	126	15	126	15	126	15	126			
SUB TOTAL - A			MD	68	9318	71	9696	58	8058	68	9318	71	9696	58	8058	80	10160	80	10160		
B. INPUTS																					
1	Cost of seeds	Kg	25	48	1200	25	48	1200	25	50	1250	25	50	1250	25	50	1250	25	50		
2	Seed treating chemical @3g/kg	g	75	0.8	60	75	0.8	60	75	0.8	60	75	0.8	60	75	0.8	60	75	0.8		
3	Manure / Compost	MT	5	800	4000	5	800	4000	5	800	4000	5	800	4000	5	800	4000	5	800		
4	Biofertilizers(Rhizobium +PSB)	Kg	1	80	80	1	80	80	1	80	80	1	80	80	1	80	80	1	80		
5	Fertilizers	Kg	20	12.4	247	20	12.37	247	20	12.37	247	20	12.37	247	20	12.37	247	20	12.37		
	Nitrogen	Kg	40	47.8	1912	40	47.8	1912	40	47.8	1912	40	47.8	1912	40	47.8	1912	40	47.8		
	Phosphorus	Kg	20	27	540	20	27	540	20	27	540	20	27	540	20	27	540	20	27		
	Potassium	Kg	5	100	500	5	100	500	5	100	500	5	100	500	5	100	500	5	100		
6	Micro nutrients	Kg	2	600	1200	2	600	1200	2	600	1200	2	600	1200	2	600	1200	2	600		
7	PP chemicals	Nbs	2	500	1000	2	500	1000	2	500	1000	2	500	1000	2	500	1000	2	500		
8	Irrigation charges	Hr	0.75	800	600	0.75	800	600	0.75	800	600	0.75	800	600	0.75	800	600	0.75	800		
9	Weedicide	Kg			600			600			600			600			600				
SUB TOTAL - B					10339			11339			9159			11389			920				
Miscellaneous / Contingency @10%					1943			2165			1783			2115			173				
GRAND TOTAL					21600			23200			19000			23200			190				
Gain yield / ha			CI	10	4500	12	54000	10	4500	26000	10	4500	12	54000	10	4500	450	260			
Gross income			Rs	45000	54000	45000	54000	45000	45000	54000	45000	54000	45000	54000	45000	54000	45000	54000	45000		
Net income			Rs	23400	30800	26000	30800	26000	23300	30800	26000	30800	26000	30800	26000	30800	26000	30800	26000		

