



## प्राक्कथन

राष्ट्रीय कृषि और ग्रामीण विकास बैंक (नाबार्ड), एक शीर्ष विकास वित्तीय संस्थान के रूप में, कृषि और ग्रामीण विकास के संवर्धन हेतु ऋण प्रवाहित करने हेतु प्रतिबद्ध है।

नाबार्ड, पर्याप्त ऋण प्रवाहित करने के लिए कृषि क्षेत्र के अंतर्गत विभिन्न निवेश गतिविधियों की वास्तविक इकाई लागत निर्धारित के लिए वर्षों से राज्य स्तरीय इकाई लागत समिति (एसएलयूसीसी) की बैठक आयोजित कर रहा है। तेलंगाना राज्य की वर्ष 2022-23 की इकाई लागत में विभिन्न सरकारी विभागों, बैंकों, अनुसंधान संगठनों आदि के साथ व्यापक परामर्श के उपरांत इसमें संशोधन किया गया है। कीटनाशकों और पोषक तत्वों के छिड़काव हेतु कृषि ड्रोन को बढ़ावा देने और उत्पादकता बढ़ाने तथा जलवायु परिवर्तनशीलता से जुड़े जोखिमों को कम करने के लिए एकीकृत खेती प्रणाली को बढ़ावा देने के लिए पहली बार इस प्रकार की निवेश गतिविधियों को इकाई लागत में भी जोड़ा गया।

नाबार्ड तेलंगाना क्षेत्रीय कार्यालय, हैदराबाद में दिनांक 15 जून 2022 को आयोजित एसएलयूसीसी की बैठक में प्रत्येक क्षेत्र पर विस्तृत चर्चा और विचार-विमर्श के बाद वर्ष 2022-23 की लागतों को अंतिम रूप दिया गया।

समिति द्वारा अनुमोदित लागत सांकेतिक है और वित्तीय संस्थान/ सरकारी एजेंसियां क्षेत्र स्तर की स्थितियों पर विचार कर तथा तकनीकी संभाव्यता, वित्तीय व्यवहार्यता और निवेशों की बैंक योग्यता को ध्यान में रखकर लागतों को परिशोधित कर सकती हैं।

मैं, तेलंगाना सरकार के सभी संबंधित विभागों, एसएलबीसी, बैंकों, कृषक समुदाय और अन्य एजेंसियों को उनके सहयोग के लिए आभार व्यक्त करता हूँ जिन्होंने इस पुस्तिका को प्रकाशित करवाने में अपना योगदान दिया है। मुझे आशा है कि, यह दस्तावेज़ सरकारी विभागों और वित्तीय संस्थानों तथा सभी अंशधारकों के लिए दिशानिर्देशिका बनेगी और राज्य में कृषि आवधिक ऋण के ऋण प्रवाह को बढ़ाने में प्रोत्साहित करेगी।

राष्ट्रीय कृषि और ग्रामीण विकास बैंक

(वाए. के. राव)

मुख्य महाप्रबंधक

तेक्षका, हैदराबाद





## Foreword

National Bank for Agriculture and Rural Development (NABARD), as an Apex Development Financial Institution, is mandated to facilitate credit flow for promotion of agriculture and rural development.

NABARD has been convening meetings of State Level Unit Cost Committee (SLUCC) over the years, for fixing realistic unit cost for various investment activities under farm sector to facilitate adequate credit flow. The revision in unit costs for 2022-23 for Telangana state was carried out after extensive consultations with various Government Departments, Bankers, Research organizations etc. To promote Agriculture Drones for spraying of insecticides, and nutrients and Integrated Farming Systems (IFS) to enhance productivity and minimizing risks associated with climatic variability, for the first time unit costs for these investment activities are also added.

The costs for the year 2022-23 were finalized by the SLUCC meeting convened on 15 June 2022 at NABARD Telangana Regional Office, Hyderabad after due deliberations and elaborate discussions on each of the sectors.

The costs approved by the Committee are indicative in nature and the financial Institutions/ Government Agencies may refine the costs considering the field level situations and keeping in view the technical feasibility, financial viability and the bankability of the investments.

I would like to acknowledge the support and corporation extended by all the Line departments of Govt. of Telangana, SLBC, Banks, Farmer Community and Other agencies who have contributed in bringing out this booklet. I hope this document as a guide would be helpful to all stakeholders including Govt. Departments and financial institutions and provide impetus in enhancing credit flow to Agriculture Term Loans (ATL) in the state.

A handwritten signature in blue ink, appearing to be 'YK Rao', written over a horizontal line.

**(Y. K. Rao)**  
**Chief General Manager**  
**TSRO, Hyderabad**



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## A. MINOR IRRIGATION

### I – UNIT COSTS OF DUGWELLS

Model		A - Hard Rock Areas		
<b>1. Basic Information:</b> Suitable in hard rock areas- Granites and Granitic Gneisses of , Basalts etc where ground water level is within 10 m bgl and weathered portion is 3-5 mts bgl	Outer Dia.(m)	6.9		
	Inner Dia.(m)	6.0		
	Depth of the Well(m)	12.0		
	Steining of the well(m)	5.0		
<b>2. Cost of Excavation</b>	Thickness of Steining (m)	0.5		
Depth (m)	RMT	Quantity (cum)	Rate/cum (₹)	Amount (₹)
0.0 to 2.0m	2	74.80	183.1168	13697.137
2.0 to 4.0 m	2	74.80	226.7264	16959.135
4.0 to 6.0 m	2	56.56	334.848	18939.003
6.0 to 8.0 m	2	56.56	390.656	22095.503
8.0 to 10.0 m	2	56.56	446.464	25252.004
10.0 to 12 m	2	56.56	502.272	28408.504
<b>3. Cost of Steining</b>		45.60	636.56064	29027.165
<b>4. Dewatering Charges</b>				5000.00
		<b>TOTAL</b>		<b>159378.451</b>
		<b>Rounded to</b>		<b>159400</b>



Minimum Benefitting Area in Acres	2.23
Repayment Period	SF & MF 7 years with 11 months grace period; OF- 5 years with 11 months grace period
NPW: BCR: IRR	₹9205; 1.07:1.0; 17.10%

<b>Model-B : Hard Rock Areas</b>				
<b>1. Basic Information:</b>		Outer Dia.(m)	5.9	
Suitable in hard rock areas- Granites and Granitic Gneisses of , Basalts etc where ground water level is within 10-12 m bgl and weathered portion is >5-7mts bgl		Inner Dia.(m)	5	
		Depth of the Well(m)	14	
		Stining of the well(m)	5	
		Thickness of Steining(m)	0.45	
<b>2. Cost of Excavation</b>				
Depth (m)	RMT	Quantity (cum)	Rate/ cum (₹)	Amount (₹)
0.0 to 2.0m	2	54.687	183.117	10014.11
2.0 to 4.0 m	2	54.687	226.726	12398.99
4.0 to 6.0 m	2	39.275	334.285	13129.04
6.0 to 8.0 m	2	39.275	390.656	15343.01
8.0 to 10.0 m	2	39.275	446.464	17534.87
10.0 to 12 m	2	39.275	502.272	19726.73
12.0 to 14 m	2	39.275	558.080	21918.5
<b>3. Cost of Steining</b>		38.5288	636.561	24525.92
<b>4. Dewatering Charges</b>				5000.00
<b>TOTAL</b>				<b>139591.26</b>
<b>Rounded to</b>				<b>139600.00</b>
Minimum Benefitting Area in Acres		1.98		
Repayment Period		SF & MF 7 years with 11 months grace period; OF- 5 years with 11 months grace period		
NPW: BCR: IRR		₹ 9021; 1.17 :1.0; 17.38%		

<b>Model-C : Hard Rock Areas</b>			
<b>1. Basic Information:</b>		Outer Dia.(m)	5.9
Suitable in hard rock areas- Granites and Granitic Gneisses of , Basalts etc where ground water level is within 10-12 m bgl and weathered zone is >7 mts bgl		Inner Dia.(m)	5.0
		Depth of the Well(m)	16.0
		Stining of the well(m)	5.0
		Thickness of Steining(m)	0.45



<b>2. Cost of Excavation</b>				
<b>Depth (m)</b>	<b>RMT</b>	<b>Quantity (cum)</b>	<b>Rate/cum (₹)</b>	<b>Amount (₹)</b>
0.0 to 2.0m	2	54.6865	183.12	10014.02
2.0 to 4.0 m	2	54.6865	226.73	12398.87
4.0 to 6.0 m	2	39.275	334.85	13151.16
6.0 to 8.0 m	2	39.275	390.66	15343.01
8.0 to 10.0 m	2	39.275	446.46	17534.87
10.0 to 12 m	2	39.275	502.27	19726.73
12.0 to 14 m	2	39.275	558.08	21918.59
14.0 to 16 m	2	39.275	613.89	24110.45
<b>3. Cost of Steining</b>		38.5288	636.56	24525.89
<b>4. Dewatering Charges</b>				5000.00
		<b>TOTAL</b>		<b>163723.60</b>
		<b>Rounded to</b>		<b>163800.00</b>
Minimum Benefitting Area in Acres		2.35		
Repayment Period		SF & MF 7 years with 11 months grace period; OF- 5 years with 11 months grace period		
NPW: BCR: IRR		₹ 14038; 1.13 :1.0; 18.09%		

**Model D- DUG WELLS IN HARDROCK AREAS-SEDIMENTARY FORMATIONS  
SAND STONES & LIME STONES–  
(Areas of Karimnagar, Nalgonda and Warangal - Kadapah and Kurnool Formations)**

1. Basic Information:	Outer Dia.(m)	4.9
	Inner Dia.(m)	4
	Depth of the Well(m)	12
	Steining of the well(m)	5
	Thickness of Steining(m)	0.45

<b>2. Cost of Excavation</b>				
Depth (m)	RMT	Quantity (cum)	Rate/cum (₹)	Amount (₹)
0.0 to 2.0m	2	37.72	183.12	6907.17
2.0 to 4.0 m	2	37.72	226.73	8552.12
4.0 to 6.0 m	2	25.136	334.85	8416.74
6.0 to 8.0 m	2	25.136	390.66	9819.53
8.0 to 10.0 m	2	25.136	446.46	11222.32
10.0 to 12 m	2	25.136	502.27	12625.11
<b>3. Cost of Steining</b>		31.4593	636.56	20025.73
<b>4. Dewatering Charges</b>			5000.00	
<b>TOTAL</b>				<b>82568.71</b>
<b>Round off to</b>				<b>82600.00</b>
Minimum Benefitting Area in Acres	1.19			
Repayment Period	SF & MF 7 years with 11 months grace period; OF- 5 years with 11 months grace period			
NPW: BCR: IRR	₹ 7328; 1.11 :1.0; 17.9%			

**Model E - DUG WELLS IN ALLUVIAL AREAS - Adjoining areas  
Krishna, Godawari, other rivers/Streams and Head Reaches of  
Canal Command areas)**

<b>I. Basic Information:</b>	Outer Dia.(m)	3.20
	Inner Dia.(m)	3.00
	Depth of the Well(m)	14.00
	Steining of the well(m)	12.0
	Thickness of Steining(m)	0.10

<b>II. Cost of Excavation</b>				
Depth (m)	RMT	Quantity (cum)	Rate/cum (₹)	Amount (₹)
0.0 to 2.0m	2	16.087	146.50	2356.68
2.0 to 4.0 m	2	16.087	181.38	2917.80
4.0 to 6.0 m	2	16.087	244.16	3927.80
6.0 to 8.0 m	2	16.087	299.97	4825.59
8.0 to 10.0 m	2	16.087	320.90	5162.25

10.0 to 12 m	2	16.087	355.78	5723.37
12.0 to 14 m	2	16.087	558.08	8977.83
<b>II. Cost of Lining</b>		13.640	4290.24	58518.87
<b>III Dewatering Charges</b>				5000.00
	<b>TOTAL</b>			<b>97410.19302</b>
	<b>Rounded to</b>			<b>97500.00</b>
Minimum Benefitting Area in Acres	1.49			
Repayment Period	SF & MF 7 years with 11 months grace period; OF- 5 years with 11 months grace period			
NPW: BCR: IRR	₹ 4198; 1.07 :1.0; 15.91%			

\* Note: Dug wells of 8-10 m depth will be sufficient, however depth upto 14 m is given to take care of situations where water level is deep

## II-UNIT COSTS OF DRILLED WELLS

### A: Bore Well in Hard Rock Areas

(Fresh, Semi Weathered and Weathered Granites, Gneisses, Granitic Gneisses, Schist etc )

S. No.	Item	Design (₹/m)		Unit Rate (₹)	Total Amount (₹)
1	<b>Drilling of bore well</b> by down the hole hammer (DTH) drilling to a finished depths specified and reaming the bore to the required depth and dia to suit lowering of 7" dia (180 mm) internal dia casing pipe with coupling, fixing of pipes, flushing the bore wells at an average 150psi inclusive of transportation from point to point, crew charges, consumables, shifting of rig and all other charges etc. in the entire district.	Diameter (mm)	180		
		Depth (m)	120	542.9	65148

GST @12% on Drilling					7817.76
2	<b>Casing</b> -PVC casing pipe : Pressure- 6 kg/cm2	Diameter (mm)	180		
		Pressure	6 kg/cm2		
		Length (m)	20 16000	800	
3	Well cap (PVC)	Diameter ( mm )	180	576	576
				Sub Total	16576
GST@18% on casing and Well Cap					2983.68
<b>Total</b>					<b>92525.44</b>
<b>Rounded to</b>					<b>92600</b>
Minimum Benefitting Area in Acres		1.98			
Repayment Period		SF & MF 7 years with 11 months grace period; OF- 5 years with 11 months grace period			
NPW: BCR: IRR		₹ 5922; 1.08 :1.0; 15.92%			

**B: Tube wells in Soft Formations-Tube well 180 mm (7") (Fresh, Semi weathered & Weathered Sandstones, Lime stones, Alluvium etc)**

S. No.	Item	Design (₹/m )	Unit Rate (₹)	Total Amount (₹)
1	Drilling: Drilling of tube well with Rotary rig to finished dia of 311 mm (12 ¼") with a pilot bore of suitable dia may be 216 mm (8 ½") and then reaming to the finished diameter in all formations such as Alluvia, Clay and Sand stones etc., including installation charges for 180 dia (OD) PVC casing threaded pipes cost of	Diameter	180	

	consumables, cost of pebble gravel/clay balls, packing around the casing pipes, tube well development charges, transportation of rig and all other charges etc., (excluding cost of casing pipes, well cap, bottom dummy and clamp set) as recommended by the site in charge officers.	Depth (m)	120	1100	132000
	GST @ 12%				15840
2	Casing -PVC plain casing pipe – (Pressure-10 kg/cm <sup>2</sup> )	Dia.(mm)	175		
		Pressure	10 kg/cm <sup>2</sup>		
		Length (m)	120	1408	1,68,960
3	PVC casing pipe (Slotting)- (Pressure-10 kg/cm <sup>2</sup> )	Dia (mm)	175		
		Slot size	1/8” or 1/16”		
		Length (m)	60	500	30,000
4	Well cap suitable to 180 mm. (OD) PVC pipe		1 No.	427	427
5	M.S Clamp set suitable to 180 mm (OD)PVC pipe		1 No.	500	500
6	Bottom Dummy (CI) suitable to 180 mm (OD) PVC casing pipe		1 No.	450	450
			Sub Total		2,00,337
	GST @ 18% for items S No 2-6				36,061
7	Compressor charges @ Rs.3000/hour <sup>2</sup>		3000	6000	
	<b>Total</b>				<b>3,90,238</b>
	<b>Rounded to</b>				<b>3,90,300</b>

Minimum Benefitting Area in Acres	7.45
Repayment Period	SF & MF 9 years with 11 months grace period; OF- 7 years with 11 months grace period
NPW: BCR: IRR	₹ 9389; 1.08 :1.0; 16.06%

### C - Filter Points in Alluvial areas- Filter point 125 mm

S. No.	Item	Design (₹/m )		Unit Rate (₹)	Total Amount (₹)
1	Drilling: Drilling of 200 mm dia. bore in BC and sandy, loamy soils including conveyance of HB set/ mini rotary rig work spot and all other drilling operations including incidental charges and inserting 125 mm dia. (OD) PVC casing development charges and all other charges as directed by the site in charge officer (excluding cost of casing pipe, couplings, cap and clamp set etc.)	Diameter (mm)	125		
		Depth(m)	20	644.16	12883.2
	<b>GST@12%</b>				1545.98
2	Casing-PVC plain casing pipe – Pressure 10 kg/cm <sup>2</sup>	Diameter (mm)	125		
		Pressure	10 kg/cm <sup>2</sup>		
		Length (m)	14	864	12,096
3	PVC casing pipe (Slotting)- Pressure -10 kg/ cm <sup>2</sup>	Diameter (mm)	125		

		Pressure	10 kg/ cm <sup>2</sup>		
		Length (m)	6	963.84	5,783
4	Well cap suitable to 125mm. (OD) PVC pipe		1 No.	524.8	524.8
5	M.S Clamp set suitable to 125mm (OD)PVC pipe		1 No.	768	768
6	Bottom Dummy (CI) suitable to 125mm (OD) PVC casing pipe		1 No.	640	640
		Sub Total			19,812
	GST@18%				3566.13
	<b>Total</b>				<b>37807.1552</b>
	<b>Rounded to</b>				<b>37800</b>

Minimum Benefitting Area in Acres	0.89
Repayment Period	SF & MF 3 years with 11 months grace period; OF- 2 years with 11 months grace period
NPW: BCR: IRR	₹ 2812; 1.08:1.0; 16.91%

### III: UNIT COSTS AGRICULTURAL PUMPSETS

#### A: Centrifugal Pump sets- Complete Pumping System

S. No	ITEM	ELECTRIC			DIESEL		KEROSENE	
		3 HP	5 HP	7.5 HP	5 HP	8 HP	2 HP	3 HP
1	Prime Mover & Pump	17865.5	23009	31169	28904	41891	17560	20055
2	Foot Valve	369.63	483.96	599.4	481.7	616.05	244.2	316.35
3	Suction & Delivery Pipe	2710.62	3451	3596.4	3170	3696.3	2283.3	2922.6
4	Bend (Suction)	222	244.2	238.65	244.2	249.75	122.1	144.3
5	Bend (Delivery)	222	241.98	239.76	240.9	246.42	133.2	138.75
6	Starter	2220	2220	2442	0	0	0	0
7	Capacitor	333	555	555	0	0	0	0
8	Main Switch	333	333	333	0	0	0	0
9	Switch Board	610.5	610.5	610.5	0	0	0	0
10	Bolts & Miscellaneous	55.5	61.05	61.05	210.9	222	83.25	83.25
11	Earthing	499.5	499.5	499.5	0	0	0	0
12	Coupling/ Clamps	0	0	0	361.9	388.5	0	0
13	Water cooling system	0	0	0	888	999	0	0
14	Transport	333	333	555	555	369.63	222	222
15	Installation	555	555	610.5	555	666	333	333
	<b>T O T A L</b>	<b>26329.2</b>	<b>32597</b>	<b>41510</b>	<b>35612</b>	<b>49345</b>	<b>20981</b>	<b>24216</b>
	GST @ 12 percent	3159.5	3911.7	4981.1	4273	5921.4	2517.7	2905.9
	<b>Grant Total</b>	<b>29488.7</b>	<b>36509</b>	<b>46491</b>	<b>39886</b>	<b>55266</b>	<b>23499</b>	<b>27122</b>
	<b>ROUNDED TO Rs</b>	<b>29500</b>	<b>36500</b>	<b>46500</b>	<b>39900</b>	<b>55300</b>	<b>23500</b>	<b>27100</b>
	Repayment Period only Pump set is given as individual unit. If it is given with well the Repayment period of well is applicable	SF & MF 5 years with 11 months grace period; OF- 3 years with 11 months grace period						



**B - Unit Cost of Submersible Pump sets**

S No	ITEM	3 HP	5 HP	7.5 HP	10 HP
1	Pump set	30458.4	33578	37335	43157
2	Cable	2262.18	2222.2	2709.5	2937
3	GI Pipe	9050.94	12271	15837	19805
4	Pressure Gauge	333	333	333	333
5	Non Return Valve	804.75	804.75	888	943.5
6	Starter & Panel Board	4440	4440	4440	4440
7	Capacitor	638.25	638.25	638.25	638.3
8	Transport	555	555	832.5	832.5
9	Installation	1332	1665	2220	2220
	T O T A L	49874.5	56507	65234	75306
	GST @ 12 percent	5984.94	6780.8	7828	9037
	<b>Total Cost</b>	<b>55859.5</b>	<b>63288</b>	<b>73062</b>	<b>84342</b>
	<b>Rounded to</b>	<b>55900</b>	<b>63300</b>	<b>73100</b>	<b>84300</b>
Repayment Period only Pump set is given as individual unit. If it is given with well the Repayment period of well is applicable			SF & MF 5 years with 11 months grace period; OF- 3 years with 11 months grace period		

**IV: WATER CONSERVATION SYSTEMS****Model A: Unit Cost of Sprinkler Irrigation System (Pipe dia 63mm)**

Sprinkler System Components	Rate (Rs.)	1.0 ha		2.0 ha	
		Quantity (Nos)	Amount (Rs)	Quantity (Nos)	Amount (Rs)
		Pipe Di a 63mm		Pipe Di a 63mm	
HDPE Pipes with quick action coupler (2.5 kg/cm <sup>2</sup> ) of 6m long	558	25	13950	30	16740
Sprinkler coupler with foot baton assembly	372	5	1860	7	2604
Sprinkler nozzles (1.7 to 2.8 kg/cm <sup>2</sup> )	403	5	2015	7	2821
Riser pipe 20mm diameter x 75cm long	124	5	620	7	868
Connecting nipple	310	1	310	1	310
Bend with coupler 900	248	1	248	1	248

Tee with coupler	372	1	372	1	372
End plug	93	2	186	2	186
Basic system cost per hectare (Rs.)			19561		24149
GST @ 12%			2347		2898
<b>TOTAL COST</b>			<b>21908</b>		<b>27046.88</b>
<b>ROUND OFF</b>			<b>21900</b>		<b>27000</b>
Repayment Period	SF & MF 5 years with 11 months grace period; OF- 3 years with 11 months grace period				
NPW: BCR: IRR	7500; 1.17 :1.0; 17.80%				

Sprinkler System Components	Rate (₹)	1.0 ha		2.0 ha		3.0 ha		4.0 ha	
		Quantity	Amt (₹)	Quantity	Amt (₹)	Quantity	Amt (₹)	Quantity	Amt (₹)
		(Nos)		(Nos)		(Nos)		(Nos)	
		Pipe Dia 75mm		Pipe Dia 75mm		Pipe Dia 75mm		Pipe Dia 75mm	
HDPE Pipes with quick action coupler (2.5 kg/cm <sup>2</sup> ) of 6m long	663.4	25	16585	30	19902	37	24546	45	29853
Sprinkler coupler with foot baton assembly	434	5	2170	7	3038	11	4774	14	6076
Sprinkler nozzles (1.7 to 2.8 kg/cm <sup>2</sup> )	372	5	1860	7	2604	11	4092	14	5208
Riser pipe 20mm diameter x 75cm long	124	5	620	7	868	11	1364	14	1736
Connecting nipple	310	1	310	1	310	1	310	1	310
Bend with coupler 900	310	1	310	1	310	1	310	1	310
Tee with coupler	310	1	310	1	310	1	310	1	310
End plug	124	2	248	2	248	2	248	2	248
Basic system cost per hectare (₹)			22413		27590		35954		44051
GST @ 12%			2690		3311		4314		5286
<b>TOTAL COST</b>			<b>25103</b>		<b>30900.8</b>		<b>40268</b>		<b>49337</b>
<b>ROUND OFF</b>			<b>25100</b>		<b>30900</b>		<b>40300</b>		<b>49300</b>
Repayment Period months grace period NPW: BCR: IRR	SF & MF 5 years with 11 months grace period; OF- 3 years with 11 months grace period Rs. 7500; 1.17 :1.0; 17.80%								

### Model: C: Unit Cost of Sprinkler Irrigation System (Pipe dia 90 mm)

Sprinkler System Components	Rate (₹)	1.0 ha		2.0 ha		3.0 ha		4.0 ha	
		Quantity	Amt (₹)	Quantity	Amt (₹)	Quantity	Amt (₹)	Quantity	Amt (₹)
		(Nos)		(Nos)		(Nos)		(Nos)	
		Pipe Dia 90mm		Pipe Dia 90mm		Pipe Dia 90mm		Pipe Dia 90mm	
HDPE Pipes with									
quick action coupler (2.5 kg/cm <sup>2</sup> ) of 6m long	837	25	20925	30	25110	37	30969	45	37665
Sprinkler coupler with foot baton assembly	496	5	2480	7	3472	11	5456	14	6944
Sprinkler nozzles (1.7 to 2.8 kg/cm <sup>2</sup> )	372	5	1860	7	2604	11	4092	14	5208
Riser pipe 20mm diameter x 75cm long	186	5	930	7	1302	11	2046	14	2604
Connecting nipple	434	1	434	1	434	1	434	1	434
Bend with coupler 900	372	1	372	1	372	1	372	1	372
Tee with coupler	434	1	434	1	434	1	434	1	434
End plug	124	2	248	2	248	2	248	2	248
Basic system cost per hectare (Rs.)			27683		33976		44051		53909
GST @ 12%			3322		4077		5286		6469
<b>TOTAL COST</b>			<b>31005</b>		<b>38053</b>		<b>49337</b>		<b>60378</b>
<b>Rounded OFF</b>			<b>31000</b>		<b>38100</b>		<b>49300</b>		<b>60400</b>
Repayment Period	SF & MF 5 years with 11 months grace period; OF- 3 years with 11 months grace period								
NPW: BCR: IRR	₹7200; 1.6:1.0; 18.60%								

**Model : D: Unit Cost of Rain gun (Pipe dia 75mm and 90mm)**

<b>System Components</b>		<b>Capital Cost (₹)</b>
Raingun with nozzle (3-4 kg/cm <sup>2</sup> ), discharge of 7lps to 19lps and radius of 31m to 50m, pipe dia 90 mm, and related systems		36245
Booster Pumpset (5 HP) & Misc.		35000
<b>Total</b>		<b>71245</b>
Raingun with nozzle (3-4 kg/cm <sup>2</sup> ), discharge of 7lps to 19lps and radius of 31m to 50m, pipe dia 75 mm, and related systems		31629
Booster Pumpset (5 HP) & Misc.		35000
<b>Total</b>		<b>66629</b>
Repayment Period	SF & MF 5 years with 11 months grace period; OF- 3 years with 11 months grace period	
NPW: BCR: IRR	₹ 6900; 1.42 :1.0; 17.96%	

#### IV: WATER CONSERVATION SYSTEMS – E-Drip Irrigation System DRIP IRRIGATION SYSTEMS - (Rupees per ha.)

Sl.No	Crop	Spacing	Type of Drip	Unit Cost (12 mm) Incl of HCU	Unit Cost (16 mm) Incl of HCU	Repayment period	Gestation	Remarks
1	Mango/ Sapota	10 m x 10 m	Online	28858	33500	4	1 year	Existing mature orchard
2	Mango	9 m x 9 m	Online	35136	39278	4	1 year	Existing mature orchard
3	Mango/Sapota/ Coconut	8 m x 8 m	Online	37908	42381	4	1 year	Existing mature orchard
4	Mango/Cashew	7 m x 7 m	Online	39780	44917	3	1 year	Existing mature orchard
5	Mango/Cashew/Sweet Orange/ Acidlime/Gauva/Ber/ Amla	6m x 6m	Online	41909	47708	3	1 year	Existing mature orchard
6	Mango/Banana	6m x 6m	Inline	42436	48100	3	1 year	Existing mature orchard
7	Mango/Bamboo	5 m x 5 m	Online	46736	53696	3	1 year	Existing mature orchard
8	Banana	5 m x 5 m	Inline	47442	50217	3	1 year	Existing mature orchard
9	Mango- High density	3 m x 2 m	Online	0	75886	6	3 year	New Orchard
10	Coco/Bamboo	4 m x 4 m	Online	55442	57696	3	1 year	Existing mature orchard
11	Pomegranate	4.5m X2.7 m	Online	48537	56326	10	6 years	New Orchard
12	Papaya	1.8 m x 1.5 m	Online	90453	104426	3	1 year	New Orchard
13	Papaya	1.8 m x 1.5 m	Inline	88700	102300	3	1 year	New Orchard
14	Banana	1.8 m x 1.5 m	Inline	87348	104550	3	1 year	New Orchard
15	Grapevine/ Bottle , Bitter & Ridge Guard	2.7 m x 1.8 m	Online	68634	78489	3	1 year	Existing mature Vineyard

Sl.No	Crop	Spacing	Type of Drip	Unit Cost (12 mm) Incl of HCU	Unit Cost (16 mm) Incl of HCU	Repayment period	Gestation	Remarks
16	Grapevine/ Bottle , Bitter & Ridge Guard	2.7 m x 1.8 m	Inline	68854	73200	7	23 months	New Orchard
17	Vegetables	0.6 m x 0.45 m	Inline	118863	131028	4	6 months	New
18	Rose/ Jasmine/Cotton/Mulberry/Medicinal Plants	[(0.60m +1.20 m) x 0.6 m]	Inline	84193	91385	5	1 year	New
19	Other flowers	1.0 m x 0.30 m or 0.45 m	Inline	127612	152866	5	Dependi ng on the crop	New
20	Tobacco (Light soils)	1.20 m x 0.50 m	Inline	109922	131028	4	6 months	New
21	Tobacco (Black soils)	0.75 m x 0.50 m	Inline	87596	108092	4	6 months	New
22	Sugarcane	[(0.75 m + 1.50 m) x 0.60m]	Inline	68930	80520	3	1 year	New Planting
23	Sugarcane	[(0.60 m + 1.20 m) x 0.60 m]	Inline	77143	79633	3	1 year	New Planting
24	Sugarcane Pit Method	[1.50 m x 0.60 m]	Online	85956	97185	3	1 year	New Planting
25	High Density Apple, ber, gauva, pomegranate, Papaya	3 mX 1.5 m	Inline	0	79210	4	11 months	Existing
26	Oil Palm	9 m x 9 m	Online	47700	53468	7	11 months	Existing
27	Oil Palm	9 m x 9 m	Microjet	48600	54900	7	5 years	New
28	High Density-Mango, Guava, pomegranate, apple, ber Papaya, date plam	5m X 3 m	Online		52960			
29	High Density-Mango, Guava, pomegranate, apple, ber Papaya, date plam	5m X 2.5 m			53120			
30	Flowers- tomatam chilly, other vegetables	3 m X 3m	Inline		67107			

Sl.No	Crop	Spacing	Type of Drip	Unit Cost (12 mm) Incl of HCU	Unit Cost (16 mm) Incl of HCU	Repayment period	Gestation	Remarks
31	High Density-Mango, Guava, pomegranate, apple, ber Papaya, date plam	3m X 2m	Online		75886			
32	Flowers- tomatam chilly, other vegetables	2.5m X 2.5m	Inline		76130			
33	Casurina, Drum stick	2.5m X 2.5m	Online		82260			
34	Mulbery	1.8m X 1.8 m	Inline		91365			
35	Papaya/ Banana/ Mulbery	1.8m X 1.8 m	Inline	86753	104686			
36	Sugarcane	1.8 m X 0.4 m	Sub Surface		92000			
37	Sugarcane	1.5 m X 0.4 m	Sub Surface		106000			

Note : For new plantings, the repayment period shown above is for a composite investment covering both cost of cultivation of the crop and the cost of drip irrigation system. Hence, the bank shall finance a composite loan or should ensure that the beneficiary arranges the required finance for cultivation of the crop.

\*HCU- Head Control Unit

#### IV: WATER CONSERVATION SYSTEMS: F: Pipe line or Distribution System:

Model	Area in ha/ Acre	Size of the Pipe	Unit Cost	
			RPVC6 kg/cm2	HDPE
Model I	0.4 ha/ 1.0 Acre	Length-100 m Dia- 63mm	₹9670 with accessories @₹ 80/m	₹ 11,800 with accessories @ Rs 95/m
Model II	1.0 ha/ 2.5 acre	Length-150m Dia 63mm	₹14500 with accessories @ Rs 80/m	₹ 18,500 with accessories @ Rs 95/m
Model III	1.5 ha/4.0 acres	Length-225 m Dia – 75 mm	₹27100; with accessories @ ₹100/m	₹ 40,500 with accessories @ ₹ 150/m
Model IV	2.0 ha/ 5.0 acres	Length-300 m Dia 75mm or 90 mm	₹ 54000 with s with accessories @150/m (Av of 75 mm & 90mm)	₹ 62,400 accessorie @175/m (Av of 75 mm & 90mm)

#### V. LOW LIFT IRRIGATION POINTS Small Scale Lift Irrigation system

Model	Area in ha/ Acre	HP of Pump set	Pipe Requirement in mts	Unit Cost	
				Pump set+ PVC6 kg/cm2	Pump set+ HDPE
Model I	0.4 ha/ 1.0 Acre	3.0 hp	100 m – Dia 63mm	₹ 29,500+ ₹ 9,100	Rs 29,500+ ₹ 11,500
Model II	1.0 ha/ 2.5 acre	3.0 hp	200m – Dia 63mm	₹ 29,500+ ₹ 13,900	₹29,500+ ₹16,800
Model III	1.5 ha/4.0 acres	5.0 hp	300 m – 75 mm	₹ 36,500 + ₹ 25,400	₹ 36,500 + ₹36,200
Model IV	2.0 ha/ 5.0 acres	5.0 hp	400 m 75mm or 90 mm	₹ 36,500 + ₹ 52,700	₹36,500 + ₹54,800



**VI: ARTIFICIAL RECHARGE OF GROUND WATER**  
**A: Artificial recharge of dried /seasonally functioning bore-well**

Item	Qty	Rate per unit	Total Amount (₹)
Earth Work excavation around the bore well (JCB) hours	3.5	1200	4200
Boulders (8 to 12 inches size) (Granitic/ Hard Material/ Field) to be filled up to 1.5 m (tractor trips)	5	1650	8250
Boulders (6 inches size) ,to be filled up to 1/2 m (tractor trips)	2	2100	4200
80-40 mm size jelly to be filled up to 1/2 m (tractor trips)	2	3500	7000
Coarse Sand to be filled up to 1/2 m (tractor trips)	3	2800	8400
Casing pipe with holes including concrete base	1	3100	3100
Aquamesh in meters	50	30	1500
Nylon mesh 6 m	1	200	200
Size Stone (Safe wall) (1 tractor = 250 stones)	1	1600	1600
Cement including transport per bag	3	350	1050
Casing pipe holding bracket with bolts and nuts/clamp	1	500	500
Labour for filling the materials (person days)	9	350	3150
Mason and labour for making protection wall (1 Mason per day cost ₹ 450, 1 Labour per day ₹350)-2 days	1	1600	1600
Diversion drain (cubic m) using machine	10	90	900
<b>Total</b>			<b>45650</b>
			<b>Say ₹45,700</b>
Note: In case existing casing pipe is used and drilling of holes is carried out, Rs. 2600 could be saved making the unit cost as Rs. 4100			

**Techno economic parameters**

Catchment :	5 ha	Average Annual Rainfall:	800 mm	Run-off coefficient:	0.25	Expected runoff:	10000 cum
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**Unit cost: ₹45,700 Bank loan: ₹36,600 Margin Money : ₹9,100 (@20%)**  
**Repayment: 4 years (half yearly instalment)**

**B: Artificial recharge of dried open/dug-well**

Particulars	Measurement in m			Volume (m <sup>3</sup> )	Rate (₹) per cubic m	Labour (₹)	Material (₹)	Total Cost (₹)
	Length	Width	Depth					
Earth Work								
Diversion Drain	15	1	0.75	11.25	163	1833.8	0	1833.75
Silt Trap	3+2	3+2	1.2					
	2	2						
	2.5	2.5	1.2	7.5	163	1222.5	0	1222.5
Middle Drain	3	1	0.75	2.25	163	366.75	0	366.75
Water recharge pit	5+3	5+3	1.5					
	2	2						
	4	4	1.5	24	163	3912	0	3912
Pipe Line – Trench	6	0.5	0.9	2.7	163	440.1	0	440.1
Pipe Cost (150 mm - Length - 6m)						0	1400	1400
Misc.						0	600	600
						5867		<b>9775.1</b>
								<b>Say ₹9,800</b>

**Techno economic parameters**

Catchment:	2 ha	Average Annual Rainfall:	800 mm	Run-off Co-efficient	0.25	Expected run off:	4000 cum
Diameter :	6 m	Depth of well:	15 m	Volume of storage :	847.8 cu m	Command area	0.4 ha
Only 25% of this run off is expected to be diverted to the well							
Unit Cost:	₹9800	Bank Loan :	₹7840	Margin Money:	₹1960 (@20%)	Repayment:	3 yrs (1/2 yrly)

**C: Construction of Recharge Shaft in the upstream of Check Dam**

Description of Item of Work	Quantity	Rate	Amount (₹)
Excavation in all kinds soil including stones, formation of service road in Cum	100	104.73	10473
Drilling of bore well 250 mm (m)	40	439	17560
Supply an fixing of slotted PVC pipe of 180 mm & 10 Kg / Cm <sup>2</sup>	20	1517	30340
Excavation of Recharge Pit, Providing graded media and supplying and placing Polypropylene Mono filament and Iron mesh of 2mm/3mm perforations	1	55900	55900
Construction of protection wall with all materials, centring, laying concrete, compacting, finishing etc.,	1	41800	41800
<b>TOTAL</b>			<b>156073</b>
		<b>Say</b>	<b>156000</b>

**Special conditions – Minor Irrigation Schemes**

1. Bank shall ensure that the programmes shall be implemented in “Safe, Semi Critical Mandals only and for the programme in “critical” mandals, it shall obtain concurrence from the State Government Department to start the investments.

2. The design and cost of the ground water structures shall be as per the recommendations of Unit cost Committee.
3. While financing for bore wells, the borrowers should obtain permission for construction of bore wells.
4. Spacing: The minimum spacing to be maintained between dug wells / bore wells, minor irrigation works shall be as indicated below:

a.	Dug wells to dug well with or without pump set	: 150 m.
b.	Bore wells to bore well with pump sets	: 250 m.
d.	Between Dug wells & Bore wells	: 215 m.

5. Development of Wells (DOW): The spacing norms (as per 3 above) between wells (including wells for drinking purpose) may also be adhered to under DOW.
6. Electric Supply: Before approving loan for electric pump sets, the bank shall satisfy itself that the village is electrified.
7. Minimum acreage and sale of water : It is necessary that the beneficiary has the following minimum area of land to be brought under irrigation to ensure viability of investment and repayment of loans in the prescribed periods:

Type of Development	Benefiting Area (ha.)
a. Bore well with SIP	1.0 (2.5 acres )
b. Dug well with Pump set	0.8 (2.0 acres )

If the beneficiary's own irrigated area is smaller than which can be irrigated by well/bore well, the bank may advice the beneficiary that he can sell surplus water to neighboring farms. The income from sale of water, if guaranteed, may also be reckoned for purpose of viability of investments upto to a maximum of 50% of loan repayment installment.

Selection and Installation of Pump sets:

- The bank shall ensure that the pump sets that are financed under the scheme are selected and installed as per BIS 10804-1995.
- Bank shall also ensure that the spacing criteria, as stipulated in 3 above, are adhered to for loans for pump sets as well.
- Wherever loans are advanced for standby pump set, bank may ensure that the standby unit is also selected as per BIS 10804-1995 and also that the loans, both for existing pump set and the standby unit, are recovered together within the normal recommended period of pump sets which is 5 years for SF/MF and 3 years for OF.
- Where higher hp pump set is required, for use other than irrigation, with common prime mover, total hp of the pump set selected for agricultural shall not exceed 1.5

- times the hp required for irrigation purpose subject to a maximum of 10 hp.
- Capacitors: The Electric motor financed should always be provided with a starter and a capacitor matching the motor. The following KVAR rating capacitor should be used:

Below 3 hp:	1 KVAR	3 hp to 5 hp:	2 KVAR	5 hp to 7.5 hp:	3 KVAR
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#### 8. After Sales Service:

Bank shall ensure that adequate after sales service and repair facilities are provided by the manufacturers / dealers installing the pump set on beneficiaries' wells and that such service is free/ of nominal charge during the first year of installation.

#### ***Sprinkler System***

- a. The bank should ensure that adequate water to cover the area is available.
- b. The design of the sprinkler system should be done for the crop by a competent agency taking into consideration source and availability of water, wind velocity in different seasons and suitability of the system for proposed cropping pattern.
- c. A plan of the area showing the layout of the system and cost estimate of the system should be prepared by the implementing agency.
- d. The implementing agency should offer guarantee for the operation of the system for one/two years against any defect either manufacturing / working or installation. The firm should offer regular post sales-service for maintenance.
- e. The components of the system should conform to the BIS specification:
  - With Aluminium pipes conforming to IS-7092 of 1976(Part-I) and IS - 7 0 9 2 (Part-II) of 1987.
  - With HDPE pipes conforming to IS-14151 (Part-I) and IS - 1 4 1 5 1 ( P a r t - I I ) of 1994.

#### ***Drip system***

- a. The Bank should ensure that only a competent and approved firm installs the system.
- b. The installing agency should assess the water requirement of each plant and design the system accordingly. The bank should insist for a layout map showing the benefiting area and also the layout of the system drawn to a proper scale.
- c. Availability of water as per requirement and of suitable chemical and physical quality for smooth operation of the system should be ensured.
- d. The bank should insist upon the installing agency to prepare a plan as also layout and design of the system and also indicate cost of each item.
- e. The installing agency should guarantee for the operation of the system for minimum of 2 years and also ensure timely and proper post sales-service for the satisfactory working of the system.
- f. The system component to be installed should conform to the BIS Specification (HDPE pipe IS14151 (Part-I) 1994 and IS-14151 (Part-II) 1994 for Coupler)

## B. LAND DEVELOPMENT

### Unit Costs of various Investments under Land Development

S. No.	Item of Investment	Unit Cost (₹)	Repayment period (Yrs)	Gestation/ Grace period (Yrs)	Instalment
1	Contour Bunding (Slope 2-4%; area of land: 1 acre (4040 sq. m)	19600	3	1	Annual
2	Gully plugging with stone (5 m)	7000	3	1	Annual
3	OFD works for 2-3% slope (1 acre)	48200	3	1	Annual
4	Reclamation of saline/ alkaline soils (1 acre)	23300	3	1	Annual
5	NADEP compost unit (10'x6'x3') including operational cost	29000	3	1	Annual
6	Farm Ponds 10m x 10m x 2.5m (by machine)	57800	5	1	Annual
7	Farm Ponds 10m x 10m x 2.5m (by labour)	108300	5	1	Annual
8	Farm Ponds 15mx15mx3m (by machine)	94200	5	1	Annual
9	Farm Ponds 15mx15mx3m (by labour)	207500	5	1	Annual
10	Farm Ponds 18mx18mx3m (by machine)	130800	5	1	Annual
11	Farm Ponds 18mx18mx3m (by labour)	306400	5	1	Annual
12	FP/ WHS 20m x 20m x 3m (MIDH)	150000	5	1	Annual
13	FP/ tank/ reservoir with plastic/ RCC lining 100m x 100m x 3m ( MIDH )	2000000	7	1	Annual
14	Water storage tank - 18m x 9m x 1.5m	100000	5	1	Annual
15	Tiny vermicomposting unit (1.8 TPA)	34700	5	1	Annual
16	Mini vermicomposting unit (20 TPA)	378100	5	1	Annual
17	Vermi hatchery 260 TPA	1389000	7	1	Annual

S. No.	Item of Investment	Unit Cost (₹)	Repayment period (Yrs)	Gestation/ Grace period (Yrs)	Instalment
18	Barbed wire fencing (rock poles) for 100 m	43100	5	1	Annual
19	Barbed wire fencing (cement poles) for 100 m	50500	5	1	Annual
20	Biofertilizer & Biopesticide unit (200 TPA)	22500000	10	1	Annual
21	Tank silt application (only transport & application) - 0.02 m-ha	32000	5	1	Annual

## Renewable Energy

S. No.	Item of Investment	Unit Cost (Rs)	Repayment period (Yrs)	Gestation/ Grace period (Yrs)	Instalment
1	Solar Irrigation Pumpset - AC Motor (5 HP)	500000	5	1	Annual
2	Solar Irrigation Pumpset - DC Motor (5 HP)	558000	5	1	Annual



## Integrated Farming System

### Model I – Central Telangana

Farming System	Area(Acre)
Crops(Banana and Groundnut)	0.5
Dairy(2 Buffalo Unit)	0.025
Sheep rearing ( 20:1 )	0.0125
Fodder crops	0.25
Farm Pond	0.1
Agro-Silviculture(Forest trees)	0.1125
<b>Total</b>	<b>1</b>

### Costs

Particulars	Cost
Fixed cost	339200
First year working capital	130500
<b>Total Project cost</b>	<b>469700</b>

Particulars	Physical requirement	Unit Rate (₹)	Cost (₹)
A) Fixed costs			
Cost of establishment of Buffalo unit (1+1)	2	94000	188000
Cost of establishment of Sheep rearing unit (20+1) - Purchase of Animals and shed construction	21	7200	151200
Subtotal			339200
B) Recurring cost			
Components			
Banana	0.5	100000	50000
Groundnut(Intercrop)	0.5	33000	16500
Working capital for Buffalo unit	2	11000	22000
Working capital for sheep unit	21	2000	42000
Sub total			130500
<b>Total Cost</b>			<b>469700</b>



**Model II – Southern Telangana**

Farming System	Area (Acre)
Crops(Paddy, Maize)	0.75
2 Buffalo unit	0.025
Fodder crops	0.1
Composting and vermiculture	0.025
Brinjal, Black gram	0.1
<b>Total</b>	<b>1</b>

**Costs:**

Particulars	Cost
Fixed cost	188000
First year working capital	74700
<b>Total Project cost</b>	<b>262700</b>

Particulars	Physical requirement	Unit Rate (₹)	Cost (₹)
A) Fixed costs			
Cost of establishment of Buffalo unit (02)	2	94000	188000
Subtotal			188000
B) Recurring cost			
Components			
Kharif Paddy Cost of Cultivation-0.5 acre	0.5	40000	20000
Rabi Paddy Cost of Cultivation-0.5acre	0.5	40000	20000
Brinjal Cost of Cultivation-0.1acre	0.1	31000	3100
maize Cost of cultivation- 0.25acre	0.25	30000	7500
Black gram cost of cultivation- 0.1acre	0.1	21000	2100
Working capital for Buffalo unit	2	11000	22000
Sub total			74700
<b>Total Cost</b>			<b>262700</b>

**Model III – Northern Telangana**

Farming System	Area (Acre)
Crops(Paddy, tomato or red gram, Ridgegourd)	0.617
Animal Husbandary(2 Buffalo unit)	0.049
Fodder crops	0.317
Composting and vermiculture	0.0247
<b>Total</b>	<b>1</b>

**Costs:**

<b>Particulars</b>	<b>Cost (₹)</b>
Fixed cost	188000
First year working capital	75614
<b>Total Project cost</b>	<b>263614</b>

<b>Particulars</b>	<b>Physical requirement</b>	<b>Unit Rate (₹)</b>	<b>Cost (₹)</b>
A) Fixed costs			
Cost of establishment of Buffalo unit (02)	2	94000	188000
Subtotal			188000
B) Recurring cost			
Components			
Kharif Paddy Cost of Cultivation-0.617 acre	0.617	40000	24680
Rabi Paddy Cost of Cultivation-0.617 acre	0.617	40000	24680
Redgram Cost of Cultivation-0.049acre	0.049	21000	1029
Tomato Cost of cultivation- 0.049 acre	0.049	50000	2450
Ridgeguard(intercrop) cost of cultivation	0.025	31000	775
Working capital for Buffalo unit	2	11000	22000
Sub total			75614
<b>Total Cost</b>			<b>263614</b>

### C. FARM MECHANISATION

S. No.	Name of the Activity	Unit	Unit cost (Rs. lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
1	Tractors with matching equipment and trolley (30-51 hp)	1	11.00	7-9	Nil	Annual
2	Second-hand Tractor	1	3.90	5	Nil	Annual
3	Mini tractor with matching equipment (15-24 hp)	1	5.94	7	Nil	Annual
4	Power tiller with matching equipment (12 hp)	1	2.15	7	Nil	Annual
5	Combine Harvester	1	30.00	7	Nil	Annual
6	Combine harvester Maize (Tyre type)	1	23.00	7-9	Nil	Annual
7	Custom hiring centre (CHC) for Cotton	1	25.61	7-9	Nil	Annual
8	CHC for SMSRI	1	52.80	7-9	Nil	Annual
9	CHC for Maize	1	47.85	7-9	Nil	Annual
10	CHC for Groundnut	1	23.80	7-9	Nil	Annual
11	CHC for land preparation for Paddy (Big tractor)	1	8.40	7-9	Nil	Annual
12	CHC for land preparation for Paddy (Mini tractor)	1	5.40	5	Nil	Annual
13	CHC for Paddy harvesting	1	33.00	7-9	Nil	Annual
14	CHC for Sugarcane (Big)	1	150.00	7-9	Nil	Annual
15	CHC for Pulses/Soybean	1	39.60	7-9	Nil	Annual
16	CHC for Dry land Crops Package	1	12.00	7-9	Nil	Annual

S. No.	Name of the Activity	Unit	Unit cost (Rs. lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
17	CHC for Transplanting Package	1	19.20	7-9	Nil	Annual
18	CHC - Harvesting Package for all Crops	1	30.00	7-9	Nil	Annual
19	Paddy transplanter (walking type)	1	2.75	5	Nil	Annual
20	Diesel based self-propelled Paddy transplanter	1	4.00	7	Nil	Annual
21	Paddy Straw Baler (round)	1	3.50	5-7	Nil	Annual
22	Paddy Straw Baler (square)	1	7.50	7-9	Nil	Annual
23	Turmeric cooking Machine (4 drums)	1	5.94	5	Nil	Annual
24	Laser guided land leveller	1	4.00	5	Nil	Annual
25	Rotary Mulcher with Tractor	1	2.20	5	Nil	Annual
26	PTO operated post hole digger	1	1.25	5	Nil	Annual
27	Mini power weeder (2hp)	1	0.28	3	Nil	Annual
28	Medium (4.8 hp) power weeder	1	0.65	5	Nil	Annual
29	Brush cutter	1	0.36	3	Nil	Annual
30	Rotary weeder (self-propelled-2hp)	1	0.86	3	Nil	Annual
31	Solar fencing (five line 7 feet poles)	1ha	1.92	5	Nil	Annual
32	Sugarcane transplanter	1	1.32	5	Nil	Annual

S. No.	Name of the Activity	Unit	Unit cost (Rs. lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
33	<b>Sugarcane Harvester</b>	1	32.00	7-9	Nil	Annual
34	<b>Paddy Nursery Package</b>	1	3.00	5	Nil	Annual
35	<b>Agri Tractor Backhoe Loader (55-65 hp)</b>	1	8.30	7-9 years	Nil	Annual
36	<b>Automatic Seedling Machine</b>	1	3.25	5	Nil	Annual
37	<b>Paddy Winnower Cleaner</b>	1	1.20	5	Nil	Annual
38	<b>Tractor - 36/39 hp 2100 RPM</b>	1	8.50	7	Nil	Bi- annual
39	<b>Tractor - 44/45 hp 2100 RPM</b>	1	8.10	7	Nil	Bi- annual
40	<b>Tractor - 54/55 hp 2100 RPM</b>	1	10.50	7	Nil	Bi- annual
41	<b>Tractor - 63 hp 2100 RPM (single housing)</b>	1	10.7	7	Nil	Bi- annual
42	<b>Tractor - 63 hp 2100 RPM (double housing)</b>	1	13.1	7	Nil	Bi- annual
43	<b>Tractor - 3 Wheel battery powered nano tractor</b>	1	2.00	5	Nil	Bi- annual

## Tractor Drawn Implements

S. No.	Name of the Activity	Unit	Unit cost (Rs. lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
1	MB plough (3 bottom)	1	0.80	3	Nil	Annual
2	2 Bottom disc plough with Tubular frame (Heavy duty)	1	0.77	3	Nil	Annual
3	Disc harrow - 6/8/12	1	1.50	3	Nil	Annual
4	Deep Tillage Equipment (like Chiesel/Sub soil plough)	1	0.60	3	Nil	Annual
5	9 Tyne rigid cultivator (Heavy duty)	1	0.48	3	Nil	Annual
6	11 Tyne rigid cultivator (Light duty)	1	0.58	3	Nil	Annual
7	11 Tyne rigid cultivator (Heavy duty)	1	0.55	3	Nil	Annual
8	9 Tyne spring loaded cultivator (Light duty)	1	0.48	3	Nil	Annual
9	9 Tyne spring loaded cultivator (Heavy duty)	1	0.53	3	Nil	Annual
10	Tractor Mounted Pneumatic Planter (Multicrop Planter)	1	1.98	5	Nil	Annual
11	Tractor drawn manual seed cum Fertiliser drill with spring tyne cultivator and leveler- 6 tyne (ATP type)	1	0.36	3	Nil	Annual
12	Tractor drawn manual seed cum Fertiliser drill with spring tyne cultivator and leveler- 8 tyne (ATP type)	1	0.38	3	Nil	Annual

S. No.	Name of the Activity	Unit	Unit cost (Rs. lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
13	Tractor drawn manual seed cum fertilizer drill with rigid tyne cultivator and leveler – 6 tyne (ATP type)	1	0.65	3	Nil	Annual
14	Tractor drawn manual seed cum fertilizer drill with rigid tyne cultivator and leveler – 8 tyne (ATP type)	1	0.36	3	Nil	Annual
15	Automatic seed cum fertilizer drill with spring tyne cultivator and leveler 6 tyne (ATP type)	1	0.75	3	Nil	Annual
16	Automatic seed cum fertilizer drill with spring tyne cultivator and leveler 8 tyne (ATP type)	1	0.80	3	Nil	Annual
17	9-row seed cum ferti drill	1	0.63	3	Nil	Annual
18	Tractor drawn multi crop planter	1	0.88	5	Nil	Annual
19	Seed drill (multi crop including Paddy) - Tractor drawn	1	0.93	5	Nil	Annual
20	Happy Seeder	1	2.25	5	Nil	Annual
21	Levelling blade (7'1/2" heavy duty) 145kg	1	0.96	3	Nil	Annual
22	Slim tyne & inter-culture equipment	1	0.66	3	Nil	Annual
23	Cotton Mobile Shredder	1	1.60	5	Nil	Annual
24	Hydraulic reversible plough - tractor mounted	1	1.15	5	Nil	Half Yearly

**Rotavators**

S. No.	Name of the Activity	Unit	Unit cost (₹ lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
1	24 blades single speed chain drive 540 RPM Rotavator	1	0.70	3	Nil	Annual
2	36 blades gear drive 540 RPM (HD) Rotavator	1	1.22	5	Nil	Annual
3	42 Blades gear drive 540 RPM (HD) Rotavator	1	1.30	5	Nil	Annual
4	Mini Tractor Rotavator 16/20/24 blades	1	0.65	3	Nil	Half Yearly

**Plant Protection Equipment**

S. No.	Name of the Activity	Unit	Unit cost (Rs. lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
1	Power sprayer 16 lts. Capacity	1	0.22	2	Nil	Annual
2	Power operated sprayer (Mist blower)	1	0.28	3	Nil	Annual
3	Power operated sprayer (Mist blower cum Duster)	1	0.85	3	Nil	Annual
4	Tractor mounted HTP Sprayer with 2 guns and frame & tank	1	0.65	3	Nil	Annual
5	High pressure knapsack sprayer with Zenoah 2 stroke G26 LS engine	1	0.21	2	Nil	Annual



S. No.	Name of the Activity	Unit	Unit cost (Rs. lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
6	Tractor mounted boom sprayer	1	1.10	5	Nil	Annual
7	High pressure knapsack sprayer with Honda 4 stroke GX 25 Engine	1	0.29	2	Nil	Annual
8	Agriculture Drone (10Litre spraycapacity) with Assembling section, etc. and onsite training	1	7	3	Nil	Annual

S. No.	Name of the Activity	Unit	Unit cost (₹ lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
1	Groundnut thresher of capacity 300-500 kg/hr with 10 HP air cooled diesel engine	1	2.15	5	Nil	Annual
2	Groundnut decorticator-Rocking type of 200-400 kg pods per hour capacity with 2 HP electric motor	1	0.59	3	Nil	Annual
3	Groundnut decorticator-Rotary type of 200-400 kg pods per hour capacity with 2 HP electric motor	1	0.37	3	Nil	Annual
4	Groundnut sheller (7.5 hp diesel engine operated)-6qtl/hr	1	2.64	5	Nil	Annual
5	Power Chaff cutter of 200 kg/ hour capacity with 2 HP BIS/ISI marked electric motor	1	0.30	3	Nil	Annual
6	Power Chaff cutter of 500 kg/ hour capacity with 5 HP BIS/ISI marked electric motor	1	0.85	5	Nil	Annual

S. No.	Name of the Activity	Unit	Unit cost (₹ lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
7	Power Chaff cutter of 500 kg/hour capacity with 5 HP BIS/ISI marked diesel engine	1	0.95	5	Nil	Annual
8	Maize sheller with 2 HP electric motor - 1000 kg per hour capacity	1	1.25	3	Nil	Annual
9	Maize sheller with 5 HP electric motor - 2000 kg per hour capacity	1	1.20	3	Nil	Annual
10	Multi crop Thresher (Wheat, Sunflower and all pulses) of drum size 27"x14" manual feeding with 8 HP diesel engine single fly wheel- 1000 kg per hour capacity (Mobile type)	1	1.30	5	Nil	Annual
11	Paddy Thresher (3 Walker type) with 10 HP diesel engine of capacity 600-1000 kg/hr	1	1.30	5	Nil	Annual
12	Paddy Thresher (4 Walker type) with 10 HP diesel engine of capacity 600-1000 kg/hr	1	1.40	5	Nil	Annual
13	Tractor drawn multi crop thresher	1	1.91	5	Nil	Annual
14	Maize dehusker cum thresher of 3000 kg/hr (operated with PTO of tractor of >35 hp) with two pneumatic wheels	1	2.25	5	Nil	Annual
15	Maize Sheller operated with 35 hp tractor PTO - 2000 kg/hour capacity mobile type	1	0.92	5	Nil	Annual

S. No.	Name of the Activity	Unit	Unit cost (₹ lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
16	<b>Paddy Drier</b>	1	21.78	7	Nil	Annual
17	<b>Power Reaper</b>	1	1.58	7	Nil	Annual
18	<b>Power Operated Groundnut Dry Pod Thresher</b>	1	2.50	7	Nil	Annual
19	<b>Multicrop Thresher tractor operated drumsized 30x 39 High speed double wheel double pan 4000kg/hr (Mobile type)</b>	1	1.95	7	Nil	Annual
20	<b>Post Harvest Equipment package</b>	1	9.00	7	Nil	Annual
21	<b>Hydraulic Biomass Briquette Plant</b>	1	20.00	7	Nil	Annual

### Animal/Bullock Drawn Implements

	Name of the Activity	Unit	Unit cost (₹ lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
1	<b>4 row seed cum fertilizer drill (Anantapur type)</b>	1	0.39	2	Nil	Annual
2	<b>4/5 row automatic seed cum fertilizer drill (Adilabad type)</b>	1	0.25	2	Nil	Annual

## D. PLANTANTION AND HORTICULTURE

Sl. No.	Crops	Unit cost per acre (Amount in Rupees)	Spacing	Plant Population (in Nos.)	IRR (%)	BCR (%)	Repayment Period (yr)	Unit Cost Capitalized (yr)
1	Mango	63,100	7.5m x 7.5 m	71	36	1.92	9	5
2	Mango	1,26,800	5m x 5 m	160	31	1.48	9	5
3	Mango	1,52,500	4m x 3 m	333	34	1.44	8	4
4	Mango	2,01,000	2.5 x 2.5 m	640	38	1.60	7	3
5	Mango	2,21,200	3m x 2 m	666	39	1.57	7	3
6	Citrus Species	80,200	6m x 6 m	110	35	1.64	10	4
7	Guava	43,900	6m x 6 m	110	44	1.95	8	4
8	Guava	1,26,900	5m x 2.5 m	320	36	1.56	8	3
9	Guava	1,40,200	3m x 3m	440	42	1.75	7	2
10	Sapota	50,600	8m x 8 m	62	33	1.70	10	5
11	Sapota	1,16,500	5m x 5 m	160	39	1.90	8	4
12	Pomegranate	123000	5m x 3 m	270	38	1.39	6	2
13	Custard Apple	68,200	5m x 5 m	160	26	1.26	8	3
14	Custard Apple	124800	5m x 2.5 m	320	30	1.32	8	3
15	Custard Apple	1,85,800	2.5m x 2.5m	640	31	1.51	8	3
16	Ber	50,400	5m x 5 m	160	48	2.82	8	4
17	Apple Ber	72600	4.5m x 3m	300	98	3.48	4	1
18	Banana with propping materl.	95,700	1.8m x 1.8 m	1240	>50	1.8	2-3	0
19	Tissue Culture Banana	108700	1.65, x 1.65m	1470	334	1.51	2-3	
20	Aonla (Amla)	43,500	6m x 6 m	110	38	1.51	8	4
21	Cashew	46,400	6m x 6 m	110	49	2.24	8	5
22	Coconut (T&D)	54,300	7.5m x 7.5 m	71	21	1.03	15	8
23	Jasmine	69,000	1.5m x 1.5 m	1780	>50	1.61	5	1
24	Vegetable cultivation under Pandal system	3,50,024 per ha						
25	Fig	46,600	5m x 5m	160	49	1.52	6	3
26	Oilpalm (cost/ac)	1,27,750 per ac	9 x 9 x 9m	57	36.80	2.23	9	4
27	Drumstick	38,800	1.8m x 1.8m	445	>50	2.71	3	1
28	Dragon Fruit	6,61,500	2.5 x 2.5m	640x4=2560 pts	>50	1.59	6	4

CROP : MANGO		
<b>Varieties : Banganapalli, Mallika, Neelam, Totapuri</b>		
Unit / Area (sq m)	4000	= 1 Acre
<b>Spacing</b>	<b>7.5 x 7.5 m</b>	
<b>No. of Plants</b>	<b>71</b>	
<b>System of Planting/ Layout</b>	Square	



S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
<b>pA</b>	<b>Labour</b>					
1	Land Clearing & Development	2100				
2	Layout and Digging of Pits	2700	600			
3	Filling of pits	900	300			
4	Planting & Plant Support (staking)	900	300			
5	FYM & Fertilizers Application	600	600	900	900	1200
6	Plant protection	600	600	900	900	1500
7	Irrigation	600	600	600	600	600
8	Earthing up, Weeding & other Intercultural Operations	2400	2400	1500	1500	1500
9	Harvesting, Carriage & Packaging Cost				900	1200
	<b>Sub-total</b>	10800	5400	3900	4800	6000
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	2840	284			
2	Farm Yard Manure	710	1065	1065	1420	1420
3	Vermicomposting					
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	92	185	277	369	462
6	P	1580	753	1129	1505	1882
7	K	185	369	554	738	923
8	Irrigation (diesel/electricity/lumpsum requirements)	880	1100	1320	1540	1760
9	Plant protection	300	300	400	400	1000

10	Fencing	1000				
11	Others if any (Specify)	500				
	<b>Sub Total- B</b>	8087	4055	4745	5973	7446
<b>C</b>	<b>Total A+B Miscellaneous Expenses/contingency (10% ) of A+B</b>	18887 1889	9455	8645	10773	13446
<b>D</b>	<b>Total Cost</b>	20776	9455	8645	10773	13446
<b>E</b>	<b>Number of years capitilisation (Years)</b>	5				
<b>F</b>	<b>Cost reckoned for unit cost</b>	63095				
<b>G</b>	<b>Capitilised Intercropping Cost</b>					
<b>H</b>	<b>Unit Cost</b>	<b>63100</b>				

### Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr	8 Yr	9 Yr	10 Yr & onwards
i	Yield per tree (Kg)	0	0	0	5	10	20	25	30	30	35
ii	Yield per unit (Kg/Acre)	0	0	0	355	710	1420	1775	2130	2130	2485
iii	Sale Price (Rs/Kg)	20									
iv	Income (₹ per acre) from Horticulture crop	0	0	0	7100	14200	28400	35500	42600	42600	49700

<b>CROP : MANGO</b>		
<b>Varieties : Banganapalli, Mallika, Neelam, Totapuri</b>		
Unit / Area (sq m)	4000	= 1 Acre
<b>Spacing</b>	<b>5.0*5.0</b>	
<b>No. of Plants</b>	<b>160</b>	
<b>System of Planting/ Layout</b>	Square	

**A : Expenditure Statement**

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
<b>A</b>	<b>Labour</b>					
1	Land Clearing & Development	3500				
2	Layout and Digging of Pits	4200	700			
3	Filling of pits	2100	350			
4	Planting & Plant Support (staking)	2100	350			
5	FYM & Fertilizers Application	1400	1400	1400	2100	2100
6	Plant protection	1050	1050	1400	1050	1750
7	Irrigation	2100	2100	2100	2100	2100
8	Earthing up, Weeding & other Intercultural Operations	2100	2100	2100	2100	2100
9	Harvesting, Carriage & Packaging Cost				1400	2100
	<b>Sub-total A</b>	<b>18550</b>	<b>8050</b>	<b>7000</b>	<b>8750</b>	<b>10150</b>
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	6400	640			
2	Farm Yard Manure	1200	1200	2400	3600	3600
3	Vermicomposting					
4	Other concentrated manures (Bonemeal, fish meal etc)					

5	N	208	416	624	832	1040
6	P	848	1696	2544	3392	4240
7	K	480	960	1440	1920	2400
8	Irrigation (diesel/electricity/lumpsum requirements)	0	0	0	0	0
9	Plant protection	1000	1000	1200	1500	1500
10	Fencing	1000				
11	Cost of Drip Irrigation	20000				
	<b>Sub Total- B</b>	<b>31136</b>	<b>5912</b>	<b>8208</b>	<b>11244</b>	<b>12780</b>
	<b>Total A+B</b>	<b>49686</b>	<b>13962</b>	<b>15208</b>	<b>19994</b>	<b>22930</b>
<b>C</b>	<b>Miscellaneous Expenses/contingency (10% ) of A+B</b>	1000	1000	1000	1000	1000
<b>D</b>	<b>Total Cost</b>	<b>50686</b>	<b>14962</b>	<b>16208</b>	<b>20994</b>	<b>23930</b>
<b>E</b>	<b>Number of years capitalization (Years)</b>	5				
<b>F</b>	<b>Cost reckoned for unit cost</b>	126780				
<b>G</b>	<b>Capitilised Intercropping Cost</b>	0				
<b>H</b>	<b>Unit Cost</b>	<b>126800</b>				

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr	8 Yr	9 Yr & onwards
i	Yield per tree (Kg)	0	0	0	5	10	20	35	50	60
ii	Yield per unit (Kg/Acre)	0	0	0	800	1600	3200	5600	8000	9600
iii	Sale Price (₹/Kg)	15								
iv	Income (Rs per acre) from Horticulture crop	0	0	0	12000	24000	48000	84000	120000	144000



<b>CROP : MANGO</b>		
<b>Varieties : Banganapalli, Mallika, Neelam, Totapuri</b>		
Unit / Area (sq m)	4000	= 1 Acre
Spacing (m)	2.5 x 2.5	
No. of Plants	640	
System of Planting/ Layout	Square	

**A : Expenditure Statement**

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
<b>A</b>	<b>Labour</b>					
1	Land Clearing & Development	2100	0	0	0	0
2	Layout and Digging of Pits	7500	1200	0	0	0
3	Filling of pits	3000	600	0	0	0
4	Planting & Plant Support (staking)	3000	600	0	0	0
5	FYM & Fertilizers Application	1500	1500	1800	2400	2400
6	Plant protection	600	600	900	900	1800
7	Irrigation	1200	1200	1200	1200	1200
8	Earthing up, Weeding & other Intercultural Operations	3000	3000	3000	3000	3000
9	Harvesting, Carriage & Packaging Cost	0	0	1500	1800	2400
	<b>Sub-total A</b>	<b>21900</b>	<b>8700</b>	<b>8400</b>	<b>9300</b>	<b>10800</b>
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	25600	2560	0	0	0
2	Farm Yard Manure	6400	9600	9600	12800	12800
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N(kg)	832	1664	2496	3328	4160
6	P (kg)	14246	6784	10176	13568	16960
7	K (kg)	1664	3328	4992	6656	8320

8	Irrigation (diesel/electricity/lumpsum requirements)	300	500	500	500	500
9	Plant protection	3200	3840	4480	5120	28800
10	Live Fencing	1000	0	0	0	0
11	others	30000	0	0	0	0
	<b>Sub Total- B</b>	<b>83242</b>	<b>28276</b>	<b>32244</b>	<b>41972</b>	<b>71540</b>
	<b>Total A+B</b>	<b>105142</b>	<b>36976</b>	<b>40644</b>	<b>51272</b>	<b>82340</b>
<b>C</b>	<b>Miscellaneous Expenses/contingency (10% ) of A+B</b>	<b>10514</b>	<b>3698</b>	<b>4064</b>	<b>5127</b>	<b>8234</b>
<b>D</b>	<b>Total Cost</b>	<b>115657</b>	<b>40674</b>	<b>44708</b>	<b>56399</b>	<b>90574</b>
<b>E</b>	<b>Number of years capitilisation (Years)</b>	3				
<b>F</b>	<b>Cost reckoned for unit cost</b>	201039				
<b>G</b>	<b>Capitilised Intercropping Cost</b>	0				
<b>H</b>	<b>Unit Cost</b>	<b>201000</b>				

S. No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr	8 Yr	9 Yr & onwards
i	Yield per tree (Kg)	0	0	3	5	10	15	20	25	30
ii	Yield per unit (Kg/Acre)	0	0	1920	3200	6400	9600	12800	16000	19200
iii	Sale Price (₹/Kg)	20								
iv	Income (₹ per acre) from Hortuculture crop	0	0	38400	64000	128000	192000	256000	320000	384000

CROP : MANGO		
Varieties : Banganapalli, Mallika, Neelam, Totapuri		
Unit / Area (sq m)	4000	= 1 Acre
Spacing (m)	4 x 3	
No. of Plants	333	
System of Planting/ Layout	Square	

### A : Expenditure Statement

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
<b>A</b>	<b>Labour</b>					
1	Land Clearing & Development	4200	0	0	0	0
2	Layout and Digging of Pits	8750	700	0	0	0
3	Filling of pits	5250	350	0	0	0
4	Planting & Plant Support (staking)	4200	350	0	0	0
5	FYM & Fertilizers Application	2100	2100	2800	2800	2800
6	Plant protection	2100	2100	2100	2100	2100
7	Irrigation	2800	2800	3500	3500	3500
8	Earthing up, Weeding & other Intercultural Operations	3500	3500	3850	4200	4200
9	Harvesting, Carriage & Packaging Cost	0	0	3500	4200	4900
	<b>Sub-total</b>	<b>32900</b>	<b>11900</b>	<b>15750</b>	<b>16800</b>	<b>17500</b>
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	13333	1333	0	0	0
2	Farm Yard Manure	3333	5000	5000	6667	6667
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	433	867	1300	1733	2167
6	P	1767	3533	5300	7067	8833
7	K	1000	2000	3000	4000	5000
8	Irrigation (diesel/electricity/lumpsum requirements)	1200	1200	1200	1200	1200
9	Paclobutrazol cost (Rs./acre)				1200	1800
10	Plant protection	2000	2000	2000	2000	2000
11	Live Fencing	3000	0	0	0	0

12	Cost of Drip Irrigation	25000	0	0	0	0
	<b>Sub Total- B</b>	<b>51066</b>	<b>15933</b>	<b>17800</b>	<b>23867</b>	<b>27667</b>
	<b>Total A+B</b>	<b>83966</b>	<b>27833</b>	<b>33550</b>	<b>40667</b>	<b>45167</b>
<b>C</b>	<b>Miscellaneous Expenses/contingency (10% ) of A+B</b>	4198	1392	1588	2033	2258
<b>D</b>	<b>Total Cost</b>	<b>88164</b>	<b>29225</b>	<b>35138</b>	<b>42700</b>	<b>47425</b>
<b>E</b>	<b>Number of years capitalisation (Years)</b>	3				
<b>F</b>	<b>Cost reckoned for unit cost</b>	152526				
<b>G</b>	<b>Capitalised Intercropping Cost</b>	0				
<b>H</b>	<b>Unit Cost</b>	<b>152500</b>				

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr	8 Yr	9 Yr & onwards
i	Yield per tree (Kg)	0	0	5	10	14	18	20	25	30
ii	Yield per unit (Kg/Acre)	0	0	1667	3333	4667	6000	6667	8333	10000
iii	Sale Price (Rs/Kg)	20								
iv	Income (Rs)	0	0	3333	6666	9334	12000	13334	16666	200000

CROP : MANGO		
<b>Varieties : Banganapalli, Mallika, Neelam, Totapuri</b>		
Unit / Area (sq m)	4000	= 1 Acre
Spacing (m)	3 X 2	
No. of Plants	666	
System of Planting/ Layout	Square	

**Expenditure Statement:**

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
<b>A</b>	<b>Labour</b>					
1	Land Clearing & Development	5250	0	0	0	0
2	Layout and Digging of Pits	10500	1400	0	0	0
3	Filling of pits	5250	700	0	0	0
4	Planting & Plant Support (staking)	5250	700	0	0	0
5	FYM & Fertilizers Application	2800	3500	3500	3500	3500
6	Plant protection	2100	2100	2100	2100	2800
7	Irrigation	2100	2100	2100	2100	2100
8	Earthing up, Weeding & other Intercultural Operations	3500	4900	5600	6300	7000
9	Harvesting, Carriage & Packaging Cost	0	0	2800	3500	3500
	<b>Sub-total A</b>	<b>36750</b>	<b>15400</b>	<b>16100</b>	<b>17500</b>	<b>18900</b>
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	26640	2664	0	0	0
2	Farm Yard Manure	6660	9990	9990	13320	13320
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	866	1732	2597	3463	4329
6	P	3530	7060	10589	14119	17649
7	K	1998	3996	5994	7992	9990

8	Irrigation (diesel/electricity/lumpsum requirements)	2000	2000	2000	2000	2000
9	Plant protection	1700	1800	2000	2500	2500
	Paclobutrazol cost				<b>2398</b>	<b>3596</b>
10	Live Fencing	3000	0	0	0	0
11	Cost of Drip Irrigation	24000	0	0	0	0
	Sub Total- B	<b>70394</b>	<b>29241</b>	<b>33171</b>	<b>45792</b>	<b>53384</b>
	<b>Total A+B</b>	<b>107144</b>	<b>44641</b>	<b>49271</b>	<b>63292</b>	<b>72284</b>
<b>C</b>	<b>Miscellaneous Expenses/contingency (10% ) of A+B</b>	10714	4464	4927	6329	7228
<b>D</b>	<b>Total Cost</b>	117858	49105	54198	69621	79513
<b>E</b>	<b>Number of years capitilisation (Years)</b>	3				
<b>F</b>	<b>Cost reckoned for unit cost</b>	221161				
<b>G</b>	<b>Capitilised Intercropping Cost</b>	0				
<b>H</b>	<b>Unit Cost</b>	221200				

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr	8 Yr	9 Yr & onwards
i	Yield per tree (Kg)	0	0	5	8	10	14	16	20	20
ii	Yield per unit (Kg/Acre)	0	0	3330	5328	6660	9324	10656	13320	13320
iii	Sale Price (₹/Kg)	20								
iv	Income ( per acre) from Horticulture crop	0	0	66600	106560	133200	186480	213120	266400	266400

<b>CROP : CITRUS</b>		
<b>Varieties : LIME/SWEET ORANGE</b>		
Unit / Area (sq m)	4000	= 1 Acre
<b>Spacing</b>	<b>6*6</b>	
<b>No. of Plants</b>	<b>110</b>	
<b>System of Planting/ Layout</b>	Square	



### A : Expenditure Statement

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
<b>A</b>	<b>Labour</b>					
1	Land Clearing & Development	3600	0	0	0	0
2	Layout and Digging of Pits	3000	300	0	0	0
3	Filling of pits	1200	300	0	0	0
4	Planting & Plant Support (staking)	1200	300	0	0	0
5	FYM & Fertilizers Application	900	900	1200	1200	1200
6	Plant protection	900	1200	1200	1200	1200
7	Irrigation	1800	600	800	1000	1000
8	Earthing up, Weeding, pruning & other Intercultural Operations	3000	3000	3600	3600	4500
9	Pruning and training	0	600	600	600	600
10	Harvesting, Carriage & Packaging Cost	0	0	0	1800	1800
	<b>Sub-total</b>	15600	7200	7400	9400	10300
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	3300	330	0	0	0
2	Farm Yard Manure	1100	1100	1100	1100	1100
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	286	429	572	715	858
6	P	1507	933	875	1049	1166
7	K	330	462	594	726	858

8	Irrigation (diesel/electricity/lumpsum requirements)	800	800	1000	1200	1500
9	Plant protection	300	500	700	900	1100
10	Fencing	1000	0	0	0	0
11	Others if any (Specify)	0	0	0	0	0
	<b>Sub Total- B</b>	8623	4554	4841	5690	6582
	<b>Total A+B</b>	24223	11754	12241	15090	16882
<b>C</b>						
<b>D</b>	<b>Total Cost</b>	24223	11754	12241	15090	16882
<b>E</b>	<b>Number of years capitilisation (Years)</b>	5				
<b>F</b>	<b>Cost reckoned for unit cost</b>	80190				
<b>G</b>	<b>Capitilised Intercropping Cost</b>	0				
<b>H</b>	<b>Unit Cost</b>	80200				

### Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr	8 Yr	9 Yr	10 Yr	11 Yr & onwards
i	Yield per tree (Kg)	0	0	0	10	15	25	30	35	50	60	65
ii	Yield per unit (Kg/Acre)	0	0	0	1100	1650	2750	3300	3850	5500	6600	7150
iii	Sale Price (Rs/Kg)	15										
iv	Income (Rs per acre) from Horticulture crop	0	0	0	16500	24750	41250	49500	57750	82500	99000	107250



CROP : GUAVA		
Varieties : Allah abad Safeda, Lalitha, others		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	6MX6M	
No. of Plants	110	
System of Planting/ Layout	Square	



### A : Expenditure Statement

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
<b>A</b>	<b>Labour</b>					
1	Land Clearing & Development	2100				
2	Layout and Digging of Pits	2400	600			
3	Filling of pits	1200	300			
4	Planting & Plant Support (staking)	600	300			
5	FYM & Fertilizers Application	600	600	900	900	1200
6	Plant protection	600	600	900	900	900
7	Irrigation	600	600	600	600	600
8	Earthing up, Weeding, pruning & other Intercultural Operations	1200	1200	1200	1200	1200
9	Pruning and training	600	300	300	300	300
10	Harvesting, Carriage & Packaging Cost				600	600
	<b>Sub-total</b>	9900	4500	3900	4500	4800
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	3300	330			
2	Farm Yard Manure	550	550	550	550	550
3	Vermicomposting					
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	151	301	452	602	753
6	P	1157	466	700	933	1166
7	K	286	572	858	1144	1430
8	Irrigation (diesel/electricity/lumpsum requirements)	800	1000	1200	1200	1200
9	Plant protection	300	300	400	400	600
10	Fencing	1000				
11	Others if any (Specify)	1000				

	<b>Sub Total- B</b>	8544	3520	4159	4829	5699
	<b>Total A+B</b>	18444	8020	8059	9329	10499
<b>C</b>						
<b>D</b>	<b>Total Cost</b>	18444	8020	8059	9329	10499
<b>E</b>	<b>Number of years capitilisation (Years)</b>	4				
<b>F</b>	<b>Cost reckoned for unit cost</b>	43852				
<b>G</b>	<b>Capitilised Intercropping Cost</b>					
<b>H</b>	<b>Unit Cost</b>	<b>43900</b>				

### Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr	8 Yr	9 Yr & onwards
I	Yield per tree (Kg)	0	0	5	10	15	20	25	30	40
ii	Yield per unit (Kg/Acre)	0	0	550	1100	1650	2200	2750	3300	4400
iii	Sale Price (₹/Kg)	15								
iv	Income (₹ per acre) from Horticulture crop	0	0	8250	16500	24750	33000	41250	49500	66000

<b>CROP : GUAVA</b>		
<b>Varieties : Allahabad Safeda, Lalith, others</b>		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	2.5 M* 5 M	
No. of Plants	320	
System of Planting/ Layout	Square	

### **A : Expenditure Statement**

<b>S. No</b>	<b>Particulars</b>	<b>Yr-1</b>	<b>Yr-2</b>	<b>Yr-3</b>	<b>Yr-4</b>	<b>Yr-5</b>
<b>A</b>	<b>Labour</b>					
1	Land Clearing & Development	4200	0	0	0	0
2	Layout and Digging of Pits	10500	700	0	0	0
3	Filling of pits	5250	700	0	0	0
4	Planting & Plant Support (staking)	7000	700	0	0	0
5	FYM & Fertilizers Application	1750	1750	2100	2800	2800
6	Plant protection	1400	1400	2100	2100	2800
7	Irrigation	2100	2100	2100		
8	Weeding, Earthing up, pruning & other Intercultural Operations	3500	3500	3500	3500	4200
9	Harvesting, Carriage & Packaging Cost	0	0	1400	2100	3500
	<b>Sub-total</b>	<b>35700</b>	<b>10850</b>	<b>11200</b>	<b>10500</b>	<b>13300</b>
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	16000	1600	0	0	0
2	Farm Yard Manure	1600	1600	1600	1600	1600
3	Vermicomposting					
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	438	876	1314	1752	2190
6	P	2726	1357	2035	2035	2714
7	K	832	1664	2496	3328	4160
8	Irrigation (diesel/electricity/lumpsum requirements)	800	1000	1200	1500	1500

9	Plant protection	1000	1500	1500	2000	2000
10	Fencing	1000	0	0	0	0
11	Drip Irrigation cost	25000	0	0	0	0
	<b>Sub Total- B</b>	<b>49396</b>	<b>9597</b>	<b>10145</b>	<b>12216</b>	<b>14164</b>
	<b>Total A+B</b>	<b>85096</b>	<b>20447</b>	<b>21345</b>	<b>22716</b>	<b>27464</b>
<b>C</b>						
<b>D</b>	<b>Total Cost</b>	<b>85096</b>	<b>20447</b>	<b>21345</b>	<b>22716</b>	<b>27464</b>
<b>E</b>	<b>Number of years capitilisation (Years)</b>	3				
<b>F</b>	<b>Cost reckoned for unit cost</b>	126889				
<b>G</b>	<b>Capitilised Intercropping Cost</b>					
<b>H</b>	<b>Unit Cost</b>	<b>126900</b>				

#### Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr & onwards
i	Yield per tree (Kg)	0	0	5	10	12	15	20
ii	Yield per unit (Kg/Acre)	0	0	1600	3200	3840	4800	6400
iii	Sale Price (₹/Kg)	15						
iv	Income (Rs per acre) from Horticulture crop	0	0	24000	48000	57600	72000	96000

CROP : SAPOTA		
Varieties : PKM-1; PKM-3, DWARAPUDI, CRICKET BALL		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	5MX5M	
No. of Plants	160	
System of Planting/ Layout	Square	



### A : Expenditure Statement

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
<b>A</b>	<b>Labour</b>					
1	Land Clearing & Development	3500	0	0	0	0
2	Layout and Digging of Pits	5250	700	0	0	0
3	Filling of pits	2100	700	0	0	0
4	Planting & Plant Support (staking)	2100	700	0	0	0
5	FYM & Fertilizers Application	1400	1400	1400	1400	2100
6	Plant protection	1400	1400	1400	1400	2100
7	Irrigation	2100	600	800	1000	1000
8	Earthing up, Weeding, pruning & other Intercultural Operations	2100	2100	2800	2800	3500
9	Pruning and training	0	0	0	0	0
10	Harvesting, Carriage & Packaging Cost	0	0	1400	1400	2100
	<b>Sub-total</b>	19950	7600	7800	8000	10800
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	4800	480	0	0	0
2	Farm Yard Manure	1600	2400	3200	4000	4800
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	416	832	1248	1664	2080
6	P	1696	2544	3392	4240	4240
7	K	960	1440	1920	2400	2400
8	Irrigation (diesel/electricity/lumpsum requirements)	800	800	1000	1000	1000
9	Plant protection	1000	1000	1000	1000	1000

10	Fencing		0	0	0	0
11	Others if any (Specify)	0	0	0	0	0
	<b>Sub Total- B</b>	11272	9496	11760	1430 4	1552 0
	<b>Total A+B</b>	31222	17096	19560	22304	26320
<b>C</b>						
<b>D</b>	<b>Total Cost</b>	31222	17096	19560	22304	26320
<b>E</b>	<b>Number of years capitilisation (Years)</b>	5				
<b>F</b>	<b>Cost reckoned for unit cost</b>	116502				
<b>G</b>	<b>Capitilised Intercropping Cost</b>	0				
<b>H</b>	<b>Unit Cost</b>	116500				

### Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr	8 Yr	9 Yr	10 Yr
i	Yield per tree (Kg)	0	0	0	5	20	30	40	50	60	70
ii	Yield per unit (Kg/Acre)	0	0	0	800	3200	4800	6400	8000	9600	11200
iii	Sale Price (Rs/Kg)	12									
iv	Income (Rs per acre) from Horticulture crop	0	0	0	9600	38400	57600	76800	96000	115200	134400

<b>CROP : POMEGRANATE</b>	
<b>Varieties : GANESH, MRIDULA, BHAGUA, JALORE SEEDLESS</b>	
Unit / Area (sq m)	4000= 1 Acre
<b>Spacing</b>	<b>5MX3M</b>
<b>No. of Plants</b>	<b>270</b>



### **A : Expenditure Statement**

<b>S. No</b>	<b>Particulars</b>	<b>Yr-1</b>	<b>Yr-2</b>	<b>Yr-3</b>	<b>Yr-4</b>	<b>Yr-5</b>
<b>A</b>	<b>Labour</b>					
1	Land Clearing & Development	3000	0	0	0	0
2	Layout and Digging of Pits	9000	600	0	0	0
3	Filling of pits	3000	600	0	0	0
4	Planting & Plant Support (staking)	1800	300	0	0	0
5	FYM & Fertilizers Application	1200	1200	1200	1800	1800
6	Plant protection	1200	1500	2100	2400	2400
7	Irrigation	600	600	900	2400	2400
8	Earthing up, Weeding, pruning & other Intercultural Operations	1800	1800	2400	3000	3600
9	Harvesting, Carriage & Packaging Cost	0	0	1200	1800	2400
	<b>Sub-total</b>	<b>21600</b>	<b>6600</b>	<b>7800</b>	<b>11400</b>	<b>12600</b>
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	17550	1755	0	0	0
2	Farm Yard Manure	2700	2700	2700	5400	8100
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	702	2106	2106	2106	2106
6	P	1431	3578	3578	3578	3578
7	K	2025	2025	2025	2025	2025
8	Irrigation (diesel/electricity/lumpsum requirements)	1000	1500	2000	2000	2000


9	Plant protection	900	1500	2100	2400	2400
10	Fencing	1000	0	0	0	0
11	Others if any (Specify) Drip Irrigation	30000	0	0	0	0
	<b>Sub Total- B</b>	<b>57308</b>	<b>15164</b>	<b>14509</b>	<b>17509</b>	<b>20209</b>
	<b>Total A+B</b>	<b>78908</b>	<b>21764</b>	<b>22309</b>	<b>28909</b>	<b>32809</b>
<b>C</b>	<b>Misc. Expenses</b>					
<b>D</b>	<b>Total Cost</b>	<b>78908</b>	<b>21764</b>	<b>22309</b>	<b>28909</b>	<b>32809</b>
<b>E</b>	<b>Number of years capitalization (Years)</b>	3				
<b>F</b>	<b>Cost reckoned for unit cost</b>	122980				
<b>G</b>	<b>Capitilised Intercropping Cost</b>	0				
<b>H</b>	<b>Unit Cost</b>	<b>123000</b>	<b>96000</b>	<b>27000</b>		

### Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr
i	Yield per tree (Kg)	0	0	10	15	20	25
ii	Yield per unit (Kg/Acre)	0	0	2700	4050	5400	6750
iii	Sale Price (₹/Kg)	15					
iv	Income (₹ per acre) from Horticulture crop	0	0	40500	60750	81000	101250



CROP : BER	
Varieties : GOLA, UMRAN	
Unit / Area (sq m)	4000= 1 Acre
Spacing	5M*5M
No. of Plants	160
System of Planting/ Layout	Square



### A : Expenditure Statement

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
<b>A</b>	<b>Labour</b>					
1	Land Clearing & Development	2400				
2	Layout and Digging of Pits	4800	600			
3	Filling of pits	1500	300			
4	Planting & Plant Support (staking)	900	300			
5	FYM & Fertilizers Application	600	600	900	900	900
6	Plant protection	600	600	600	600	600
7	Irrigation	600	600	600		
8	Earthing up, Weeding, pruning & other Intercultural Operations	2400	1800	1500	1500	1500
9	Pruning and training					
10	Harvesting, Carriage & Packaging Cost			600	600	1200
	<b>Sub-total</b>	13800	4800	4200	3600	4200
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	5600	560			
2	Farm Yard Manure	800	800	800	800	800
3	Vermicomposting					
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	208	416	624	832	1040
6	P	1768	848	1272	1696	2120
7	K	208	416	624	416	1040
8	Irrigation (diesel/electricity/lumpsum requirements)	800	800	800		

9	Plant protection	300	300	400	400	600
10	Fencing	1000				
11	Others if any (Specify)	480				
	<b>Sub Total- B</b>	11164	4140	4520	4144	5600
	<b>Total A+B</b>	24964	8940	8720	7744	9800
<b>C</b>						
<b>D</b>	<b>Total Cost</b>	24964	8940	8720	7744	9800
<b>E</b>	<b>Number of years capitilisation (Years)</b>	4				
<b>F</b>	<b>Cost reckoned for unit cost</b>	50368				
<b>G</b>	<b>Capitilised Intercropping Cost</b>					
<b>H</b>	<b>Unit Cost</b>	<b>50400</b>				

### Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr	8 Yr	9 Yr & onwards
i	Yield per tree (Kg)	0	0	0	10	15	25	40	65	80
ii	Yield per unit (Kg/Acre)	0	0	0	1600	2400	4000	6400	10400	12800
iii	Sale Price (Rs/Kg)	10								
iv	Income (Rs per acre) from Horticulture crop	0	0	0	16000	24000	40000	64000	104000	128000

<b>CROP : APPLE BER</b>		
<b>Varieties : GOLLA, UMRAN,</b>		
Unit / Area (sq m)	4000=	1 Acre
<b>Spacing</b>	<b>4.5mX3m</b>	
<b>No. of Plants</b>	<b>300</b>	
<b>System of Planting/ Layout</b>	Square	



### A : Expenditure Statement


S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
<b>A</b>	<b>Labour</b>					
1	Land Clearing & Development	3000	0	0	0	0
2	Layout and Digging of Pits	6000	1200	0	0	0
3	Filling of pits	3600	600	0	0	0
4	Planting & Plant Support (staking)	1800	300	0	0	0
5	FYM & Fertilizers Application	1200	1200	1800	1800	1800
6	Plant protection	600	600	900	900	1200
7	Irrigation	600	600	600		
8	Earthing up, Weeding & other Intercultural Operations	2400	3000	3000	3000	3000
9	Training and pruning (heading back of tree and clearing)	1200	6000	6000	6000	6000
10	Harvesting, Carriage & Packaging Cost	0	600	1200	1200	1800
	<b>Sub-total</b>	<b>20400</b>	<b>14100</b>	<b>13500</b>	<b>12900</b>	<b>13800</b>
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	18000	1800	0	0	0
2	Farm Yard Manure	1500	1500	1500	1500	1500
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	390	780	1170	1560	1950
6	P	3315	1590	2385	3180	3975
7	K	390	780	1170	780	1950

8	Irrigation (diesel/electricity/lumpsum requirements)	800	800	800		
9	Plant protection	300	300	400	400	600
10	Fencing	5000	0	0	0	
11	Others if any (Specify)	900	0	0	0	
	<b>Sub Total- B</b>	30595	7550	7425	7420	9975
	<b>Total A+B</b>	50995	21650	20925	20320	23775
<b>C</b>						
<b>D</b>	<b>Total Cost</b>	50995	21650	20925	20320	23775
<b>E</b>	<b>Number of years capitilisation (Years)</b>	2				
<b>F</b>	<b>Cost reckoned for unit cost</b>	72645				
<b>G</b>	<b>Capitilised Intercropping Cost</b>	0				
<b>H</b>	<b>Unit Cost</b>	72600				

### Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr	8 Yr	9 Yr & onwards
i	Yield per tree (Kg)	0	10	20	40	60	70	80	100	100
ii	Yield per unit (Kg/Acre)	0	3000	6000	12000	18000	21000	24000	30000	30000
iii	Sale Price (Rs/Kg)	10								
iv	Income (₹ per acre) from Horticulture crop	0	30000	60000	120000	180000	210000	240000	300000	300000

CROP : TISSUE CULTURE BANANA		
Varieties : Grand Naine		
Unit / Area (sq m)	4000=	1 Acre
Spacing	1.65*1.65M	
No. of Plants	1470	
System of Planting/ Layout	Square	



### A : Expenditure Statement

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
<b>A</b>	<b>Labour</b>					
1	Land Clearing & Development	2450	0	0	0	0
2	Layout and Digging of Pits	8750	400	400	0	0
3	Filling of pits	3500	200	200	0	0
4	Planting & Plant Support (staking)	4200	200	200	0	0
5	FYM & Fertilizers Application	1750	1750	1750	1050	1050
6	Plant protection	1500	1500	1500	1400	1400
7	Irrigation	4200	4200	4200	800	800
8	Earthing up, Weeding, pruning & other Intercultural Operations	2800	2800	2800	2800	2800
9	Harvesting, Carriage & Packaging Cost	3500	3500	3500	1050	1750
	<b>Sub-total</b>	<b>32650</b>	<b>14550</b>	14550	<b>7100</b>	<b>7800</b>
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	20580	2058	2058	0	0
2	Farm Yard Manure	1764	1764	1764	1764	1764
3	Vermicomposting					
4	Other concentrated manures (Bonemeal, fish meal etc)	3440	3440	3440	3440	3440
5	N	7791	7791	7791	7791	7791
6	P	9555	9555	9555	9555	9555
7	K	300	300	300	400	600
8	Irrigation (diesel/electricity/lumpsum requirements)					
9	Plant protection					
10	Fencing					

11	Staking / Propping					
	Wooden poles (@ 2 poles per plant) - Rs.10 /- per pole	<b>29400</b>				
	Labour for fixing poles including rope, etc.	<b>2500</b>				
	<b>Sub Total- B</b>	<b>75330</b>	<b>24908</b>	<b>24908</b>	<b>22950</b>	<b>23150</b>
	<b>Total A+B</b>	<b>107980</b>	<b>39458</b>	<b>39458</b>	<b>30050</b>	<b>30950</b>
<b>C</b>	<b>Misc. Expenses (LS)</b>	700				
<b>D</b>	<b>Total Cost</b>	<b>108680</b>	<b>39458</b>	<b>39458</b>	<b>30050</b>	<b>30950</b>
<b>E</b>	<b>Number of years capitilisation (Years)</b>	1				
<b>F</b>	<b>Cost reckoned for unit cost</b>	108680				
<b>H</b>	<b>Unit Cost</b>	<b>108700</b>				

### Yield Parameters

S.No.	Yield & Price – Assumption	1 Yr
i	Yield per tree (Kg)	70
ii	Yield per unit (Kg/Acre)	92600
iii	Sale Price (Rs/Kg)	1
iv	Income (Rs per acre) from Horticulture crop	92600

<b>CROP : AONLA</b>		
<b>Varieties : NA7, AMRIT (NA6), KANCHAN, BSR-1 (Pharmaceutical use), others</b>		
Unit / Area (sq m)	4000	= 1 Acre
<b>Spacing</b>	<b>6Mx6M</b>	
<b>No. of Plants</b>	<b>110</b>	
<b>System of Planting/ Layout</b>	Square	

**A : Expenditure Statement**

S.No.	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
<b>A</b>	<b>Labour</b>					
1	Land Clearing & Development	1200	0	0	0	0
2	Layout and Digging of Pits	1200	300	0	0	0
3	Filling of pits	1200	300	0	0	0
4	Planting & Plant Support (staking)	600	300	0	0	0
5	FYM & Fertilizers Application	1200	1200	1800	1800	1800
6	Plant protection	600	600	600	600	600
7	Irrigation	600	600	600	600	600
8	Earthing up, Weeding & other Intercultural Operations	2400	1800	2400	2400	3000
9	Training and Pruning	2	4	0	0	0
10	Harvesting, Carriage & Packaging Cost	0	0	1200	1800	2400
	<b>Sub-total</b>	9002	5104	6600	7200	8400
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	2750	275	0	0	0
2	Farm Yard Manure	550	550	550	550	550
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	151	226	452	602	602
6	P	1157	292	583	700	700
7	K	286	286	429	429	429
8	Irrigation (diesel/electricity/lumpsum requirements)	800	800	800		
9	Plant protection	300	300	400	400	600
10	Fencing	1000	0	0	0	0

11	Others if any (Specify)	0	0	0	0	0
	<b>Sub Total- B</b>	6994	2728	3214	2681	2881
	<b>Total A+B</b>	15996	7832	9814	9881	11281
<b>C</b>						
<b>D</b>	<b>Total Cost</b>	<b>15996</b>	<b>7832</b>	<b>9814</b>	<b>9881</b>	<b>11281</b>
<b>E</b>	<b>Number of years capitilisation (Years)</b>	4				
<b>F</b>	<b>Cost reckoned for unit cost</b>	43523				
<b>G</b>	<b>Rounded</b>					
<b>H</b>	<b>Unit Cost</b>	<b>43500</b>				

### Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr	8 Yr....
i	Yield per tree (Kg)	0	0	5	15	20	30	35	40
ii	Yield per unit (Kg/Acre)	0	0	550	1650	2200	3300	3850	4400
iii	Sale Price (Rs/Kg)	10							
iv	Income (Rs per acre) from Hortuculture crop	0	0	5500	16500	22000	33000	38500	44000



<b>CROP : CASHEW</b>		
<b>Varieties : BPP1 to 6, BPP-8 &amp; 9</b>		
Unit / Area (sq m)	4000	= 1 Acre
<b>Spacing</b>	<b>6MX6M</b>	
<b>No. of Plants</b>	<b>110</b>	
<b>System of Planting/ Layout</b>	Square	



### **A : Expenditure Statement**

S.No.	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
<b>A</b>	<b>Labour</b>					
1	Land Clearing & Development	2100				
2	Layout and Digging of Pits	2100	300			
3	Filling of pits	600	300			
4	Planting & Plant Support (staking)	600				
5	FYM & Fertilizers Application	600	600	900	900	1200
6	Plant protection	600	600	900	900	1500
7	Irrigation	300	300	300		
8	Earthing up, Weeding, pruning & other Intercultural Operations	1200	1500	1500	1500	1800
9	Pruning and training					
10	Harvesting, Carriage & Packaging Cost				600	1200
	<b>Sub-total</b>	<b>8100</b>	<b>3600</b>	<b>3600</b>	<b>3900</b>	<b>5700</b>
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	3300	330			
2	Farm Yard Manure	550	550	550	1100	1100
3	Vermicomposting					
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	151	226	452	602	753
6	P	233	233	466	700	700
7	K	114	114	229	343	343
8	Irrigation (diesel/electricity/lumpsum requirements)	800	1000	1200	1200	1200
9	Plant protection	300	300	400	400	600

10	Fencing	1000					
11	Others if any (Specify)						
	<b>Sub Total- B</b>	6448	2753	3297	4345	4696	
	<b>Total A+B</b>	14548	6353	6897	8245	10396	
<b>C</b>							
<b>D</b>	<b>Total Cost</b>	14548	6353	6897	8245	10396	
<b>E</b>	<b>Number of years capitilisation (Years)</b>	5					
<b>F</b>	<b>Cost reckoned for unit cost</b>	46440					
<b>G</b>	<b>Capitilised Intercropping Cost</b>						
<b>H</b>	<b>Unit Cost</b>	<b>46400</b>					

### Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr	8 Yr & onwards
i	Yield per tree (Kg)	0	0	0	0	2	5	8	10
ii	Yield per unit (Kg/Acre)	0	0	0	0	220	550	880	1100
iii	Sale Price (Rs/Kg)	35							
iv	Income (Rs per acre) from Horticulture crop	0	0	0	0	7700	19250	30800	38500

CROP : COCONUT		
<b>Varieties : TALL X DWARF HYBRIIDS</b>		
Unit / Area (sq m)	4000	= 1 Acre
<b>Spacing</b>	<b>7.5M*7.5M</b>	
<b>No. of Plants</b>	<b>71</b>	
<b>System of Planting/ Layout</b>	Square	



### A : Expenditure Statement


S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
<b>A</b>	<b>Labour</b>					
1	Land Clearing & Development	2100				
2	Layout and Digging of Pits	1800	600			
3	Filling of pits	600	300			
4	Planting & Plant Support (staking)	600	300			
5	FYM & Fertilizers Application	600	900	900	900	900
6	Plant protection	600	1200	1200	1200	1200
7	Irrigation	600	600	600	600	600
8	Earthing up, Weeding, pruning & other Intercultural Operations	2100	1800	1800	1800	1800
9	Pruning and training					
10	Harvesting, Carriage & Packaging					
	Cost					
	<b>Sub-total</b>	9000	5700	4500	4500	4500
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	4615	462			
2	Farm Yard Manure	710	710	710	710	710
3	Vermicomposting					
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	117	224	340	447	447
6	P	301	602	753	1129	1129
7	K	369	554	923	1292	1846
8	Irrigation (diesel/electricity/lumpsum requirements)	800	800	800	800	800
9	Plant protection	300	300	400	400	600

10	Fencing	1000				
11	Others if any (Specify)					
	<b>Sub Total- B</b>	8212	3651	3926	4778	5532
	<b>Total A+B</b>	17212	9351	8426	9278	10032
<b>C</b>						
<b>D</b>	<b>Total Cost</b>	17212	9351	8426	9278	10032
<b>E</b>	<b>Number of years capitilisation (Years)</b>	5				
<b>F</b>	<b>Cost reckoned for unit cost</b>	54299				
<b>G</b>	<b>Capitilised Intercropping Cost</b>					
<b>H</b>	<b>Unit Cost</b>	<b>54300</b>				

### Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr	8 Yr	9 Yr	10 Yr	11 Yr & onwards
i	Yield per tree (Kg)	0	0	0	0	20	40	60	85	100	110	120
ii	Yield per unit (Kg/Acre)	0	0	0	0	1420	2840	4260	6035	7100	7810	8520
iii	Sale Price (Rs/Kg)	5										
iv	Income (Rs per acre) from Horticulture crop	0	0	0	0	7100	14200	21300	30175	35500	39050	42600

CROP : JASMINE		
<b>Varieties : TALL X DWARF HYBRIIDS</b>		
Unit / Area (sq m)	4000	= 1 Acre
<b>Spacing</b>	<b>1.5Mx1.5M</b>	
<b>No. of Plants</b>	<b>1780</b>	
<b>System of Planting/ Layout</b>	Square	



### A : Expenditure Statement


S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
<b>A</b>	<b>Labour</b>					
1	Land Clearing & Development	2100	0	0	0	0
2	Layout and Digging of Pits	6000		0	0	0
3	Filling of pits	3000		0	0	0
4	Planting & Plant Support (staking)	2400		0	0	0
5	FYM & Fertilizers Application	600	1200	1200	1200	1200
6	Plant protection	800	800	800	1200	1200
7	Irrigation	600	800	800	800	800
8	Earthing up, Weeding, pruning & other Intercultural Operations	3000	3000	3000	3000	3600
9	Harvesting & Packaging Cost	8900	17800	26700	35600	35600
	<b>Sub-total</b>	27400	23600	32500	41800	42400
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	21360	0	0	0	0
2	Farm Yard Manure	8900	5340	5340	5340	5340
3	Vermicomposting	3560	7120	7120	10680	14240
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	1462	1462	1462	1462	1462
6	P	2830	2830	2830	2830	2830
7	K	1388	1388	1388	1388	1388
8	Irrigation (diesel/electricity/lumpsum requirements)	1000	1500	2000	2000	2000
9	Plant protection	300	300	400	400	600
10	Fencing	1000	0	0	0	0
11	Others if any (Specify)	0	0	0	0	0
	<b>Sub Total- B</b>	41801	19941	20541	24101	27861
	<b>Total A+B</b>	69201	43541	53041	65901	70261

<b>C</b>	<b>Misc. Expenses (LS)</b>					
<b>D</b>	<b>Total Cost</b>	69201	43541	53041	65901	70261
<b>E</b>	<b>Number of years capitilisation (Years)</b>	1				
<b>F</b>	<b>Cost reckoned for unit cost</b>	69201				
<b>G</b>	<b>Capitilised Intercropping Cost</b>	0				
<b>H</b>	<b>Unit Cost</b>	<b>69000</b>				

### Yield Parameters

<b>S.No.</b>	<b>Yield &amp; Price - Assumption</b>	<b>1 Yr</b>	<b>2 Yr</b>
i	Yield per plant (Kg)	0.5	1
ii	Yield per unit (Kg/Acre)	890	1780
iii	Sale Price (Rs/Kg)	42	
iv	Income (Rs per acre) from Hortuculture crop	37380	74760

CROP : FIG		
<b>Varieties : PUNE FIG</b>		
Unit / Area (sq m)	4000	= 1 Acre
<b>Spacing</b>	<b>5M*5M</b>	
<b>No. of Plants</b>	<b>160</b>	



### A : Expenditure Statement

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
<b>A</b>	<b>Labour</b>					
1	Land Clearing & Development	3000	0	0	0	0
2	Layout and Digging of Pits	1500	600	0	0	0
3	Filling of pits	1200	300	0	0	0
4	Planting & Plant Support (staking)	1200	300	0	0	0
5	FYM & Fertilizers Application	1200	1200	1200	1200	1200
6	Plant protection	600	900	1200	1200	1800
7	Irrigation	600	600	800	800	800
8	Earthing up, Weeding, pruning & other Intercultural Operations	1200	1500	1500	1500	1500
9	Harvesting, Carriage & Packaging Cost	0	0	600	900	1500
	<b>Sub-total</b>	10500	5400	5300	5600	6800
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	4000	400	0	0	0
2	Farm Yard Manure	1600	2400	4000	4000	4800
3	Vermicomposting	1120	1120	2240	3360	4480
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	131	263	394	526	657
6	P	322	645	967	1290	1612
7	K	254	508	761	1015	1269
8	Irrigation (diesel/electricity/lumpsum requirements)	500	750	1000	2000	2000

9	Plant protection	300	300	400	400	600
10	Fencing	1000	0	0	0	0
11	Others if any (Specify)	0	0	0	0	0
	<b>Sub Total- B</b>	9228	6385	9763	12591	15418
	<b>Total A+B</b>	19728	11785	15063	18191	22218
<b>C</b>	<b>Misc. Expenses (LS)</b>					
<b>D</b>	<b>Total Cost</b>	19728	11785	15063	18191	22218
<b>E</b>	<b>Number of years capitilisation (Years)</b>	3				
<b>F</b>	<b>Cost reckoned for unit cost</b>	46576				
<b>G</b>	<b>Capitilised Intercropping Cost</b>	0				
<b>H</b>	<b>Unit Cost</b>	<b>46600</b>				

### Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr
i	Yield per tree (Kg)	0	3	5	7	9	11	13
ii	Yield per unit (Kg/Acre)	0	480	800	1120	1440	1760	2080
iii	Sale Price (Rs/Kg)	25						
iv	Income (Rs per acre) from Hortuculture crop	0	12000	20000	28000	36000	44000	52000



<b>CROP : CUSTARD APPLE</b>		
<b>Varieties : NMK -1</b>		
Unit / Area (sq m)	4000	= 1 Acre
<b>Spacing</b>	<b>5 M* 5 M</b>	
<b>No. of Plants</b>	<b>160</b>	
<b>System of Planting/ Layout</b>	Square	

### A : Expenditure Statement

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
<b>A</b>	<b>Labour</b>					
1	Land Clearing & Development	3600				
2	Layout and Digging of Pits	4800	600	0	0	0
3	Filling of pits	1800	600	0	0	0
4	Planting & Plant Support (staking)	1800	300	0	0	0
5	FYM & Fertilizers Application	1200	1200	1800	1800	2400
6	Plant protection	600	600	900	900	1500
7	Irrigation	1800	1800	1800		
8	Earthing up, Weeding, pruning & other Intercultural Operations	1800	1800	1800	2400	2400
9	Pruning and training	1200	1200	1200	1800	1800
10	Harvesting, Carriage & Packaging Cost	0	0	1200	1800	1500
	<b>Sub-total</b>	18600	8100	8700	8700	9600
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	9600	960	0	0	0
2	Farm Yard Manure	1600	1600	1600	1600	1600
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	548	657	767	876	986
6	P	1060	1272	2120	3392	3816
7	K	520	624	1040	1664	1872
8	Irrigation (diesel/electricity/lumpsum requirements)	800	1000	1200	1500	1500
9	Plant protection	300	600	900	1200	1500
10	Fencing	1000	0	0	0	0
11	Others if any (Specify)	3000	0	0	0	0
	<b>Sub Total- B</b>	18428	6713	7627	10232	11274
	<b>Total A+B</b>	37028	14813	16327	18932	20874

<b>C</b>						
<b>D</b>	<b>Total Cost</b>					
<b>E</b>	<b>Number of years capitilisation (Years)</b>	3				
<b>F</b>	<b>Cost reckoned for unit cost</b>	68167				
<b>G</b>	<b>Capitilised Intercropping Cost</b>					
<b>H</b>	<b>Unit Cost</b>	68200	0	0	0	0

### Yield parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr & onwards
i	Yield per tree (Kg)	0	0	5	10	15	18	20
ii	Yield per unit (Kg/Acre)	0	0	800	1600	2400	2880	3200
iii	Sale Price (Rs/Kg)	15						
iv	Income (Rs per acre) from Hortuculture crop	0	0	12000	24000	36000	43200	48000

**CROP : CUSTARD APPLE**

<b>Varieties : NMK -1</b>		
Unit / Area (sq m)	4000	= 1 Acre
<b>Spacing</b>	<b>5 M* 2.5 M</b>	
<b>No. of Plants</b>	<b>320</b>	
<b>System of Planting/ Layout</b>	Square	

**Expenditure Statement:**

S.N	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	3600	0	0	0	0
2	Layout and Digging of Pits	9600	600	0	0	0
3	Filling of pits	3900	600	0	0	0
4	Planting & Plant Support (staking)	1800	600	0	0	0
5	FYM & Fertilizers Application	1200	1200	1800	1800	2400
6	Plant protection	600	600	900	900	1500
7	Irrigation	1800	1800	1800		
8	Earthing up, Weeding, pruning & other Intercultural Operations	2400	2400	3000	3000	3600
9	Pruning and training	1800	1800	1800	1800	1800
10	Harvesting, Carriage & Packaging Cost	0	0	1500	2400	3000
	<b>Sub-total</b>	26700	9600	10800	9900	12300
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	19200	1920	0	0	0
2	Farm Yard Manure	3200	3200	3200	3200	3200
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	1095	1314	1533	1752	1971
6	P	2120	2544	4240	6784	7632
7	K	1040	1248	2080	3328	3744
8	Irrigation (diesel/electricity/lumpsum requirements)	800	1000	1200	1500	1500
9	Plant protection	300	600	900	1200	1500
10	Fencing	1000	0	0	0	0
11	<b>Drip Irrigation system</b>	24000	0	0	0	0
	<b>Sub Total- B</b>	52755	11826	13153	17764	19547
			21426		27664	31847

	<b>Total A+B</b>	<b>79455</b>		23953		
C						
D	<b>Total Cost</b>	<b>79455</b>	21426	23953	27664	31847
E	<b>Number of years capitilisation (Years)</b>	3				
F	<b>Cost reckoned for unit cost</b>	124835				
G	<b>Capitilised Intercropping Cost</b>	0				
H	<b>Unit Cost</b>	<b>124800</b>				

### Yield parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr & onwards
i	Yield per tree (Kg)	0	0	5	10	12	15	20
ii	Yield per unit (Kg/Acre)	0	0	1600	3200	3840	4800	6400
iii	Sale Price (Rs/Kg)	15						
iv	Income (Rs per acre) from Hortuculture crop	0	0	24000	48000	57600	72000	96000

## CROP : CUSTARD APPLE

<b>Varieties : NMK -1</b>		
Unit / Area (sq m)	4000	= 1 Acre
<b>Spacing</b>	<b>2.5 M* 2.5 M</b>	
<b>No. of Plants</b>	<b>640</b>	
<b>System of Planting/ Layout</b>	Square	

## Expenditure Statement:


S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	4200	0	0	0	0
2	Layout and Digging of Pits	10500	1400	0	0	0
3	Filling of pits	5250	1400	0	0	0
4	Planting & Plant Support (staking)	4200	700	0	0	0
5	FYM & Fertilizers Application	2100	2100	2100	2100	2800
6	Plant protection	1400	1750	2100	2100	2800
7	Irrigation	4200	4200	4200		
8	Earthing up, Weeding, pruning & other Intercultural Operations	2100	2100	2100	2100	2100
9	Pruning and training	2100	2100	2800	2800	<b>3500</b>
10	Harvesting, Carriage & Packaging Cost	0	0	2800	2800	3500
	<b>Sub-total</b>	<b>36050</b>	<b>15750</b>	<b>16100</b>	<b>11900</b>	<b>14700</b>
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	25600	2560	0	0	0
2	Farm Yard Manure	6400	6400	6400	6400	6400
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	2080	2080	2080	3328	3328
6	P	4240	4240	4240	8480	8480
7	K	2400	2400	2400	4800	4800
8	Irrigation (diesel/electricity/lumpsum requirements)	0	0	0	0	0
9	Plant protection	1000	1000	1500	1500	2000
10	Fencing	2000	0	0	0	0
11	Others if any (Specify)	30000	0	0	0	0
	<b>Sub Total- B</b>	<b>73720</b>	<b>18680</b>	<b>16620</b>	<b>24508</b>	<b>25008</b>
	<b>Total A+B</b>	<b>109770</b>	<b>34430</b>	<b>32720</b>	<b>36408</b>	<b>39708</b>
C	<b>Misc / contingencies (5% of A and B above)</b>	<b>5489</b>	<b>1722</b>	<b>1636</b>	<b>1820</b>	<b>1985</b>

	<b>Total Cost</b>	<b>115259</b>	<b>36152</b>	<b>34356</b>	<b>38228</b>	<b>41693</b>
	<b>Number of years capitilisation (Years)</b>	3				
	<b>Cost reckoned for unit cost</b>	185766				
	<b>Capitilised Intercropping Cost</b>	0				
	<b>Unit Cost</b>	<b>185800</b>				

### Yield parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr & onwards
i	Yield per tree (Kg)	0	0	6	8	12	15	15
ii	Yield per unit (Kg/Acre)	0	0	3840	5120	7680	9600	9600
iii	Sale Price (Rs/Kg)	15						
iv	Income (Rs per acre) from Hortuculture crop	0	0	57600	76800	115200	144000	144000

CROP : Drumstick		
<b>Varieties : PKM-1</b>		
Unit / Area (sq m)	4000	= 1 Acre
<b>Spacing</b>	<b>1.8M*1.8M</b>	
<b>No. of Plants</b>	<b>445</b>	



### A : Expenditure Statement

S.N	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
<b>A</b>	<b>Labour</b>					
1	Land Clearing & Development	3000	0	0	0	0
2	Layout and Digging of Pits	6000	400	400	0	0
3	Filling of pits	3000	200	200	0	0
4	Planting & Plant Support (staking)	3000	200	200	0	0
5	FYM & Fertilizers Application	1500	1500	1500	900	900
6	Plant protection	1500	1500	1500	1200	1200
7	Irrigation	600	600	600	800	800
8	Earthing up, Weeding, pruning & other Intercultural Operations	3000	3000	3000	2400	2400
9	Harvesting, Carriage & Packaging Cost	3500	3500	3500	900	1500
	<b>Sub-total</b>	25100	10900	10900	6200	6800
<b>B</b>	<b>Material</b>					
1	Planting Material (including transportation) - Seedling/Rootstock	5340	534	534	0	0
2	Farm Yard Manure	2225	2225	2225	2225	2225
3	Vermicomposting	1780	1780	1780	3560	3560
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	609	609	609	609	609
6	P	673	673	673	673	673
7	K	1765	1765	1765	1765	1765
8	Irrigation (diesel/electricity/lumpsum requirements)	1000	1000	2000	2000	2000
9	Plant protection	300	300	300	400	600

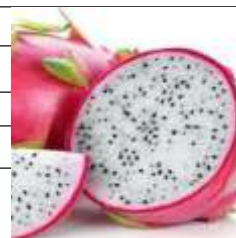
10	Fencing				0	0
11	Staking / Propping				0	0
	Bamboo poles (@ 2 poles per plant) - Rs.10 /- per pole	0				
	Labour for fixing poles including rope, etc.	0				
	<b>Sub Total- B</b>	13692	8886	9886	11232	11432
	<b>Total A+B</b>	38792	19786	20786	17432	18232
<b>C</b>	<b>Misc. Expenses (LS)</b>					
<b>D</b>	<b>Total Cost</b>	38792	19786	20786	17432	18232
<b>E</b>	<b>Number of years capitilisation (Years)</b>	1				
<b>F</b>	<b>Cost reckoned for unit cost</b>	38792				
		<b>38800</b>				

### YieldParameters

<b><u>B : Income Statement</u></b>			
<b>S.No.</b>	<b>Yield &amp; Price - Assumption</b>	<b>1 Yr</b>	<b>2 Yr</b>
i	Yield per tree (Kg)	2	8
ii	Yield per unit (Kg/Acre)	800	3200
iii	Sale Price (₹/Kg)	15	
iv	Income (₹ per acre) from Hortuculture crop	12000	48000



<b>CROP : DRAGOAN FRUIT</b>		
<b>Varieties : PKM-1</b>		
Unit / Area (sq m)	4000	= 1 Acre
<b>Spacing</b>	<b>2.5M*2.5M</b>	
<b>No. of Plants</b>	<b>1600</b>	



- The crop is commercially cultivated in countries like Vietnam, Thailand, Israel, Malaysia, Sri Lanka
- It is an exotic fruit introduced for cultivation in India. The crop is cultivated to a very limited extent of about 100 acres in the country mostly in the States of Karnataka, Maharashtra, Gujarat Andhra Pradesh, Telangana and Tamil Nadu
- A few farmers in AP have taken up dragon fruit cultivation in Sangareddy and Medak districts
- Dept. of Hort. submitted the proposal for fixation of unit cost considering agro-climatic suitability and potential market. The techno-economic parameters were provided by Hort. University. Key technical aspects include :
  - o It's a cactus group plant that adapts to tropical climate
  - o Propagation by cuttings / seed
  - o Climbing plants that requires frame work of poles for physical support (cement concrete or stone post)
  - o 400 to 420 supporting poles required / acre
  - o Planting 2.5 m X 2.5 m and 4 plants per pole
  - o Bearing from 2nd year, but commercial production from fourth year

## Unit Cost

A	Material	Year 1	Year 2
1	Planting Material (including transportation) – Seedling/Rootstock	256000	0
2	Farm Yard Manure	8000	0
3	Vermicomposting	0	0
4	Other concentrated manures (Bonemeal, etc)		
5	N	1313	1641
6	P	11089	6161
7	K	3433	2452
8	Irrigation (diesel/electricity/LS provision)	25000	2000
9	Plant protection	3000	5000
10	Fencing	0	0
11	Erection of stones/CC pillras of 10' height at 2.5X2.5 spacing @₹350per pillar	224000	0
12	Planting & Plant Support (staking)/steel framing & erection	64000	
	Sub Total- A	595835	17254
B	Labour (B)	30040	18400
	Total A+B	625875	35654
	Rounded	625900	35600
	<b>Unit Cost capitalized (2 years)</b>	<b>661500</b>	

## Yield and income parameters:

Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr
Yield per tree (Kg)	0	0.9	1.25	1.8
Yield per unit (Kg/Acre)	0	2304	3200	4608
Sale Price (Rs/Kg)	100			
Income (Rs per acre)	0	230400	320000	460800

## Financial viability and repayment:

- Financial viability : IRR >50%, BCR 1.59 : 1.00
- Repayment : 6 years including three years grace period

**Suggestions:**

Banks may examine the following aspects while considering the proposals for extending credit facilities,

- Feasibility of the proposed area for the crop and capability of the farmer/entrepreneur to take up such innovative activity.
- Arrangements for supply / sourcing of plant material
- Technology support available from KVKs or Horticulture department officials for cultivation of crop
- Considering high initial investment where plant material and supporting frame work together account for ₹5.50 lakh, financial capability of the farmers to meet adequate financial resources in addition to bank loan
- At present market is confined to a few segments. The strategy proposed to be adopted by the entrepreneur for marketing of the produce (which is perishable) needs to be carefully examined by the bankers. If exports are envisaged, market demand analysis of importing countries, regulations, etc. need to be carefully examined.
- A cautious approach is suggested before contemplating large scale finance by the bankers for the activity.

**Pandal based vegetable cultivation****Cost for Establishment of Permanent Pandal (1 Acre )**

Sl.No.	Name of the Material with Specification	Unit	Quantity	Rate	Amount
1	Stone/Cement Pillars (10 ft height)	No.s	185	550	101750
2	Stone/Cement Pillars (6 ft height)	No.s	12	400	4800
3	Hiders	No.s	120	200	24000
4	<b>GI Wire</b>				
4.a	8 Gauge	Qtls	6	7500	45000
4.b	12 Gauge	Qtls	6	7500	45000
5	Labour Charges (L.S)				48350
	<b>Total</b>				<b>268900</b>

**Detailed Unit Cost of Permanent Pandal (Per Acre)**

Sl.No.	Name of Component	UnitCost (in ₹)
1	Establishment of Permanent Pandal	268900
2	Land preparation and miscellaneous expenditure	2,324
3	Mulching	11,200
4	Cost of Vegetable seedlings/seeds	13,000
5	Organic Manures	12,000
6	Thaiwan Sprayer	18,500
7	Trellis	5,000
8	Fertilizers, Fungicides, Pesticides and	9,100
9	Plastic crates	10,000
		3,50,024

**Cultivation of Oil Palm**

<b>CROP : Oil Palm</b>		
<b>Varieties : Tenera Hybrid</b>		
Unit / Area (sq m)	4000=	1 Acre
<b>Spacing</b>	<b>9mX9m X 9m</b>	
<b>System of Planting/ Layout</b>	Triangular	

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4
<b>A</b>	<b>Material Cost</b>				
1	Land preparation and levelling	5000			
2	Internal road formation for transportation				
3	Planting Material ( incl. 10% extra during IInd year)( @193/- per plant for imported seedling	11600	1160		
4	Farm Yard Manure	4275	6412	6413	6413
5	Fertilisers				
a	Nitrogen	298	595	893	893
b	Phosphorus	321	641	962	962
c	Potassium	228	456	684	855

d	Micro Nutrients – Magnesium ( MgSO <sub>4</sub> )	71	143	285	285
e	Micro Nutrients – Boran ( Borax )	64	128	257	257
6	Plant Protection Chemicals	500	500	700	700
7	Herbicide Cost	500	500	500	500
8	Drip Irrigation	25914			
	<b>Sub-total</b>	<b>48771</b>	<b>10536</b>	<b>10692</b>	<b>10863</b>
B	Operation and Labour	11900	8400	8400	9800
C	Pruning,Harvesting charges etc				3000
D	Misc. Costs (₹)	2378	1000	1000	1000
	<b>TOTAL (rounded off)</b>	<b>63050</b>	<b>19900</b>	<b>20100</b>	<b>24700</b>
	<b>Unit cost capitalised upto the year</b>	<b>4</b>			
	<b>Indicative Unit cost</b>	<b>127750</b>			

### Polyhouse/Shadenet

Sl. No.	Name of the Scheme	Slab (sq.mts )	Unit Cost/sq.mts in ₹	Total Cost ( in ₹ Lakhs)
1	Construction of Flat Roof Net House with Cable purlin	2025	538	10.89
		3965	488	19.35
2	Small Net House	450	550	2.47

### Special Instructions:

1. Polyhouse/Shade net house are to be constructed as per the extant guidelines issued by Department of Horticulture.
2. Small Net Houses of less than 2025 sq.mm are viable when it is taken on cluster basis by farmers collectives (FPOs) duly supported by promotional agency. The promotional agency should have knowledge in both production and marketing aspects as also should have on farm post- harvest infrastructure for grading of the produce and marketing.
3. Repayment period for all categories of farmers ranges from 4-7 years, depending on cash flow. Repayment may be fixed at half-yearly interval with

a moratorium period of 9 months.

4. Expenditure of first crop cycle may be capitalized with the unit cost. Margin Money from the borrower would be 10-15% of project cost.
5. Borrowers should practice good agricultural practices for getting better yield and quality of the produce.
6. In case of Polyhouse/Net Houses, the financing entity may ascertain availability of subsidy from the Department of Horticulture.

## E. SERI-CULTURE

### Shoot Rearing system- Cocoon formation stage

Sl. No.	Item/Activity	Unit Size	Amount (in Rs.)
1	Mulberry garden establishment	2 acre	100000
2	Rearing equipment's	300 DFLs per batch	75000
3	Rearing shed (50ft,20ft,15 ft.)	1000 sft	500000
4	Rearing cost for first batch	300 DFLs	18000
5	<b>Total Cost</b>		<b>693000</b>
Note	<p>(i) As per Unit Cost by Central Silk Board Bangalore, Ministry of Textiles, GOI Cost for Irrigation may be included up to 1,00,000rs for project of 2 Acre.</p> <p>(ii) For shed cost it approximately ₹6 lakh to 7 Lakh</p> <p>(iii) The repayment period is 4 years with one year moratorium period</p>		

### Chawkie Rearing Centre:

Sr. No.	Details	Unit size	Unit Cost (₹)
1	Mulberry garden establishment	2 acre	120000
2	Rearing equipments	5000 DFLs per batch	617000
3	Rearing house & incubation chamber	1000 sft + 200 sft	720000
4	Rearing cost for first batch		180300*
5	<b>Total cost</b>		<b>1637300</b>

\*Rearing cost per batch is ₹60100 and we considered capitalisation of 3 batch which works out to ₹180,300/-

### Financial viability and bankability for Chawkie rearing of 5000 DFLs / batch

- IRR – 89%
- BCR – 1.35 : 1
- Repayment period – 4 years with 6 months moratorium
- Margin money considered – 25% of TFO
- State Government Subsidy not taken into account for working out its viability.

### Reeling Centre:

SI NO	Activity	Cost (₹)
<b>A</b>	<b>10 Basin multi end silk reeling centre (MERU)</b>	
(i)	Machinery	17,09,000
(ii)	Shed	7,20,000
	<b>Total</b>	<b>24,29,000</b>
<b>B</b>	<b>Automatic reeling unit (ARM) 400 Ends</b>	
(i)	Machinery	14102000
(ii)	Shed	2880000
	<b>Total</b>	<b>16982000</b>
<b>C</b>	<b>Automatic reeling unit (ARM) 200 Ends</b>	
(i)	Machinery	79,83,000
(ii)	Shed	1500000
	<b>Total</b>	<b>94,83,000</b>

### Twisting Unit:

SI NO	Activity	Cost (₹.)
	Twisting unit (480 spindles)	
	<b>Total</b>	<b>10,04,000</b>



## Special Terms and Conditions (P & H and Sericulture)

Plantation and Horticulture	Sericulture
<p>The FI to consult the State Dept of Horticulture or the concerned commodity board while selecting the area to ensure technical feasibility of crop investment.</p> <p>Loans under the scheme shall be given to those beneficiaries who have assured source irrigation. Necessary TL may be provided to create such facilities</p> <p>Under Dryland Horticulture Development, the banks may ensure that necessary soil and water conservation measures are undertaken.</p> <p>The bank to satisfy itself that planting, material of required quantity and quality, procured by the beneficiaries are from reliable sources such as Agrl Universities, State Govt or any recognised seed manufacturers.</p> <p>Loans shall be issued in respect of investments for raising plants during the first year and also for subsequent maintenance, till the plant attains economic bearing stage, or as indicated in the unit cost. However, where loans are proposed to be availed of only for the first year planting, it should be ensured that the beneficiaries have their own resources to meet subsequent expenditure.</p> <p>Beneficiaries may be advised to use tissue culture plantlets.</p> <p>Bank to ensure that, the pits dug will be standard size specified for crop</p>	<p>The beneficiaries may be identified in consultation with the State Dept of Sericulture/ Central Silk Board especially in non-traditional zones/ districts.</p> <p>While financing for seed cocoon production, ensure that the scheme area is a notified seed area.</p> <p>Ensure that the beneficiaries selected have adequate source of irrigation while financing for mulberry cultivation under irrigated conditions.</p> <p>Improved high yielding varieties of mulberry and silk work races like CB (cross bred BV selections), bivoltine, may be insisted upon under irrigated conditions.</p> <p>Supply of planting material of specified mulberry variety may be ensured through Govt Seed Farm or reputed private sources.</p> <p>The financing bank may ensure that there is adequate supply of quality disease free silk work eggs (DFLs).</p> <p>The equipments financed under the scheme for rearing of silk worm should comply with the specifications of state department of sericulture and match with the rearing programme contemplated by the beneficiary.</p> <p>The acreage norms specified (half</p>

Plantation and Horticulture	Sericulture
<p>selected; the pits dug will be filled with top soil and well decomposed farm yard manure and soil disinfectants if necessary; planting of approved high yielding varieties to suit the situation should be insisted upon; the young plants should be staked immediately after planting and shade/ cover/ hutting etc., provided wherever necessary and irrigated; suitable inter crops may be taken up during the gestation period of the main crop wherever feasible; the recommended fertilizer and plant protection schedule shall be followed strictly. The components like fertilizers, chemicals, weedicides etc., shall be disbursed only in kind or on the basis of actual.</p> <p>Necessary technical guidance/ supervision may be provided by the technical staff of the financing bank. If this is not possible, the bank shall satisfy itself that necessary extension services as provided by concerned development department of the State Govt/ Commodity Board. Etc</p>	<p>acre in seed area and one acre in commercial area) should be strictly adhered to while financing for development of infrastructure like rearing house.</p> <p>The rearing house should be constructed as per the design and specifications of department of sericulture.</p> <p>The financing bank may ensure that the area specifications (300' x 15' for one area model) are adopted while constructing the rearing house and the same should be an exclusive rearing house and not a rearing cum dwelling house.</p> <p>The beneficiaries should be included under the ongoing tripartite system to ensure proper recovery of loan.</p>

## F. FISHERIES

### Unit Cost of Fisheries Investments

(Amount in Rupees)

Sl	Activity	Capital Cost	Recurring Activity	Recurring Cost	Total
1	<b>Semi Intensive fish culture 1 ha.</b>	<b>700000</b>		<b>400000</b>	<b>1100000</b>
	Ground cleaning, de-weeding, Levelling etc.,	25,000	Pond Preparation, lime, zeolites,etc	30,000	
	Earthwork excavation , Construction of bund	3,00,000			
	Inlet, outlet and sluice structure	40,000			
	Pump house -100 sqft	50,000			
	Pumps -2 nos -5 HP	1,00,000	Fish (IMC/GIFT) Seed-3000nos @Rs.3/each (size:80-100mm)	15,000	
	Aerators @35,000/ , 1Nos	35,000	Formulated fish feed @Rs.30/Kg* 6.37 MT	1,90,000	
	Nets and accessories	30,000	Manpower @ 8500pm for 10 months	85,000	
	Water testing kit 20000	20,000	Harvesting charges	20,000	
	Electrification L.S.	50,000	Power charges	40,000	
	Watchman shed -100 s.ft	50,000	Miscellaneous	20,000	
2	<b>Fish Seed Rearing unit 1 ha.</b>	<b>7,00,000</b>		<b>1,50,000</b>	<b>850000</b>
	Ground cleaning, de-weeding, Levelling etc.,	25,000	Cost of Fish seed	60000	
	Earthwork excavation , Construction of pond with bunds ,consolidation - 1 ha WSA	3,00,000	Fertilizers	4500	
	Inlet, outlet and	40,000	Micro nutrients	500	

Sl	Activity	Capital Cost	Recurring Activity	Recurring Cost	Total
	sluice structure				
	Pump house -100 sqft	50,000	Lime	2000	
	Pumps -2 nos -5 HP	1,00,000	Cost of feed	45000	
	Aerators @35,000/,1 No.	35,000	Wages / Salaries		
	Nets and accessories	30,000	Technician	7000	
			Skilled Labour	7000	
	Water testing kit 20000	20,000	Un Skilled Labour	6000	
			Harvesting and packing expenses	6000	
	Electrification L.S.	50,000	Medicine	2000	
	Watchman Shed 100sqf	50000	Power Charges etc,	10000	
3	<b>Fishermen Societies members /Licence Holders (Reservoir Fishermen)</b>	NIL	Cast nets	5,000.00	
			Gill nets	2,400.00	
			FRP Coracle	20,000.00	
			Life Jacket	1,200.00	
			Packaging material including ice	1,400.00	
			<b>Total</b>	<b>30,000.00</b>	
4	<b>Marketing support to Fishers</b>	NIL	Purchase of fish local @ 30 Kgs per day	21,000.00	
			Purchase of Ice	3,150	
			Transportation and other incidental charges	850	
			<b>Total</b>	<b>25,000.00</b>	
5	<b>Re-Circulatory Aquaculture System units - 10 tons capacity</b>	<b>18,00,000</b>		<b>7,00,000</b>	<b>25,00,000</b>
	Land required (acres)		Seed cost @ Rs.4/pc for 24,000 (incl: GIFT Tilapia etc)	96,000	
	Quarantine tank		Feed	4,00,000	
	Nursery tank		Electricity charges	1,50,000	
	Growing tanks	<b>18,00,000</b>	Manpower	48,000	

Sl	Activity	Capital Cost	Recurring Activity	Recurring Cost	Total
	Water supply system and Water filtration system for all tanks as mentioned above				
	Ef uent plant		Miscellaneous		
	Equipment for transfer from one tank to other, harvest, crates, etc.			6,000	
	Gen set				
6	<b>Ice Plant with capacity of (10 ) tonnes</b>	<b>1900000</b>		<b>600000</b>	<b>2500000</b>
	Complete 10 TPD tube ice plant	<b>1900000</b>	Electricity	3,00,000.00	
			Wages for 3 persons @Rs 600/day	2,00,000.00	
			Maintenance	1,00,000.00	
7	<b>Feed Mill Small (1-5 Quintals/day)</b>	<b>10,00,000</b>		<b>500000</b>	<b>1500000</b>
	Warehouse	1,46,657	Working capital for feed ingredient	4,00,000.00	
	Machinery Hall	1,07,000	Electricity	10,000.00	
	Office/ laboratory	87,295	Packing charges per ton	15,000.00	
	Generator room	57,548	Wages and salaries	75,000.00	
	Flour Grinder	5,50,000			
	Electrical Items	20,000			
	Water supply system	15,000			
	Miscellaneous	16,500			
8	<b>Pen culture one Hectare</b>	<b>2,00,000</b>		<b>50,000</b>	<b>2,50,000</b>
	Pen material with erection charges	2,00,000	Seed (60000 fry @Rs. 100/1000 fry for fingerlings rearing )	6,000	
			Feed	25,000	
			Wages	13,000	
			Harvesting and Packaging expenses	6,000	

SI	Activity	Capital Cost	Recurring Activity	Recurring Cost	Total
9	<b>Cage culture</b>	<b>150000</b>		<b>150000</b>	<b>300000</b>
	<b>One Unit (6x4x4 Sqr.M)</b>	150000	Seed (5000 X Rs. 3/-)	15,000	
			Feed	1,20,000	
			Wages	15,000	
10	<b>Establishment of Fish seed Hatchery One Unit of 2 Ha</b>	<b>22,00,000</b>		<b>3,00,000</b>	<b>25,00,000</b>
	Earth Work	4,35,616	Cost of Brood fish	1,00,000.00	
	Brooder ponds				
	Nursery ponds				
	Rearing ponds	4,68,545	Hormones and other spawning agent	25,000.00	
	Civil structures	2,58,839	Fertilizers	20,000.00	
	Spawning pools	9,96,000			
	Incubation chambers		Micronutrients	25,000.00	
	Spawn collection cistern				
	Egg collection tank		Lime	10,000.00	
	Shed for store				
	Laboratory room				
	Overhead tank		Cost of Feed	75,000.00	
	Inlet and outlets and water supply				
	Machinery & Equipment				
	Water pump				
	Sprinklers with pipe		Wages/Salaries	30,000.00	
	Oxygen cylinders with all fittings				
	Nets		Harvesting and Packaging expenses	10,000.00	
	Breeding kit (syringeneedle, homogenizes, aerator etc)		Miscellaneous (Power charges etc.)	5,000.00	
	Refrigerator, aerator, Oxygenator etc.	41,000			

Sl	Activity	Capital Cost	Recurring Activity	Recurring Cost	Total
11	<b>Medium scale ornamental Fish rearing and Aquarium Units One Unit</b>	<b>5,25,000</b>		<b>1,75,000</b>	<b>7,00,000</b>
	Cement Tanks (50000 litres)	2,00,000	Purchase of brooder fish 1000 no's both male and female	25,000	
	Shed	1,50,000	Feed 500 kg/year @ Rs. 200/kg for entire cycle	1,00,000	
	Live feed facility and feed maker	30,000	Electricity and fuel per month	10,000	
	Glass tanks	30,000	Wages to labours	30,000	
	Water supply system	25,000			
	Electrification L.S.	30,000			
	Water treatment equipment	45,000			
	Aeration/lifesaving system	15,000	Misc. expenditure	10,000	

**The bank shall ensure that: -**

1. Only quality fish seed should be procured and stocked in the pond.
2. Varieties of fish, stocking density, manuring and artificial feeding, as prescribed by the Department of Fisheries, must be adhered to.
3. The pond should be kept free from predators and aquatic weeds.
4. Inlets and outlets should be covered by screens to prevent entry of unwanted fishes and escape of fish from the pond.
5. Periodical sample netting should be conducted to assess the growth and health of fishes.
6. Borrowers may be selected in clusters so that the scheme can be effectively monitored.
7. Permission / clearance from the concerned authority for construction of ponds, water lifting etc. must be obtained.

**G. FORESTRY**

Sl No	Type of Plantation	Per Ha Cost (₹)	Repayment period	Gestation years
1	Sandalwood	120000	12 yrs	11
2	Meliadubia	120000	7 yrs	6
3	Bamboo	100000	8 yrs	5
4	Teak	130000	13 yrs	7
5	Jamun	105000	7 yrs	4
6	Eucalyptus	116000	7 yrs	6
7	Casuarina	90000	4 yrs	3
8	Subabul	80000	4 yrs	3



## H. MEDICINAL AND AROMATIC PLANTS

The major crops cultivated and the unit cost is as under:

Amt in ₹			
SI No	Activity	Local Name	Cost
1	<i>Acorus calamus</i> Linn.	Vasa	109393.89
2	<i>Aloe vera</i> (Linn.)	Kalabanda	74387.85
3	<i>Andrographis paniculata</i> (Linn)	Nelavemu	43757.55
4	<i>Asparagus racemosus</i> Willd	Pillitheegalu	109393.89
5	<i>Azadirachta indica</i> A.Juss	Vepa	65636.34
6	<i>Cassia angustifolia</i> Vahl.	Nela Thangedu	43757.55
7	<i>Catharanthus roseus</i>	Billaganneru	43757.55
8	<i>Coleus barbatus</i> Benth. Syn.	Pashanabedhi	75262.99
9	<i>Emblica officinalis</i> Gaertn.	Usiri	113769.65
10	<i>Gymnema sylvestre</i> R.Br.	Podapathri	43757.55
11	<i>Hemidesmus indicus</i> R.Br.	Sugandhapala	61260.57
12	<i>Mucuna prurita</i> Linn.	Dhulagondi	35006.04
13	<i>Ocimum sanctum</i> Linn.	Tulasi	52509.06
14	<i>Phyllanthus amarus</i> Schum & Thonn.	Nela Usiri	48133.31
15	<i>Piper longum</i> Linn.	Pippallu	109393.89
16	<i>Stevia rebaudiana</i>	Stevia	165770
17	<i>Tinospora cordifolia</i> Miers	Thippatheega	48133.31
18	<i>Withania somnifera</i> (Linn.) Dunal	Pinneru gaddalu	43757.55
19	<i>Aegle marmelos</i> (Linn) Corr.	Maredu	70012.09
20	<i>Gloriosa Superba</i> Linn.	Adavinabhi	240666.56
21	<i>Gmelina arborea</i> Linn.127	Gummadi Teak	78763.6
22	<i>Rauwolfia serpentine</i> Benth. Ex Kurz	Pathalagaridi	109393.89
23	<i>Saraca asoca</i> (Roxb.) De Wilde	Ashoca	109393.89
24	<i>Pterocarpus santalinus</i>	Yerra Chandanam	98892.07
25	<i>Santalum album</i> Linn.	Srighandam	85236.82

## I. ANIMAL HUSBANDRY

## A. Unit Costs of Dairy Sector Investments

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions
<b>1</b>	<b>Dairy</b>				
<b>a.</b>	<b>Two animal unit</b>	1+1	Cost of 2 CBCs (Rs 80000/animal) Transport cost (Rs.2000/animal) Equipment Feed Cost for 1 month (1 animal) Insurance (@4.5%) Vety Aid <b>Total</b>	5 Years (monthly / quarterly instalments)	Banks may ensure that -  Good quality animals (Jersey Crossbreds in Plains & HF Crossbreds in Hilly/cool areas or Graded Murrah Buffaloes), preferably freshly calved animals in 2 or 3 lactation, yielding on an average 10-11 litres of milk (Cows)/8-9 litres (Buffaloes), per day are financed  There is an interval of 6 months between purchase of two animals / batches, so as to ensure continuity in milk production
	<b>i. Cross Bred Cows</b>		180000 4000 3000 3500 7200 2500 <b>180200</b>		
	<b>ii. Graded Murrah Buffaloes (GMB)</b>	1+1	Cost of 2 GMBs (Rs. 90000/animal) Transport cost (Rs.2000/animal) Equipment Feed Cost for 1 month (1 animal) Insurance (@4.5%) Vety Aid <b>Total</b>	5-6 Years (monthly / quarterly instalments)	Linkages in respect of training, breeding & vety care, feed, fodder, medicines and marketing are adequate  Local veterinarian's advise is availed of with regard to age, health and quality of the animals to be purchased Animals are identified immediately after purchase through ear tagging and reinsured, preferably under a long term master policy.
	<b>Mini Dairy 5 (CB cows) animals (3+2)</b>		Shed (5 animals, 40 sq.ft./animal) Rs.150/sq.ft. AC Sheet Roofing) Shed (3 calves, 30 sq.ft./animal) Rs.150/sq.ft. AC Sheet Roofing ) Transportation cost (Rs.2000/animal) Cost of equipments (Rs.1500/animal) Cost of animals (Rs.80000/animal) Feed for 1 month for 1 batch Fodder cultivation (0.5 acre) Insurance(@4.5%) Veterinary aid (Rs.1500/animal) for 1 batch <b>Total</b>	5-6 Years (monthly / quarterly instalments)	Banks can finance hand operated Milking Machines for Mini dairy units
			30000 13500 10000 7500 400000 10500 10000 18000 7500 <b>507000</b>		

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions	
c.	<b>Mini Dairy (GMB)</b>	5 animals (3+2)	Shed (5 animals, 40 sq.ft./animal Rs. 150/sq.ft; AC Sheet roofing)	5-6 Years (monthly / quarterly instalments)	Farmer cultivate green fodder (especially mini/commercial dairies, atleast 3-4 months ahead of purchase of animals) so as to reduce the expenditure. Green fodder cultivation in minimum 0.5 – 1.0 acre has to be ensured for mini dairy farms.  Farmers follow the schedules regarding deworming and vaccination against prevalent diseases (HS, BQ, FMD etc.,) with the help of local vet.	
			Shed (3 calves; 30 sq ft./animal Rs. 150/sq.ft; AC Sheet roofing)			30000
			Transport cost (Rs.2000/animal)			13500
			Cost of equipment (Rs. 1500/animal)			10000
			Cost of animals – CB cows (Rs. 90000/animal)			7500
			Feed for 1 month for I batch (3500/- x 3)			450000
			Fodder cultivation (0.5 acre)			10500
			Insurance (@4.5%)			10000
			Veterinary Aid (₹2500/animal) for I batch			20250
			<b>Total for GMB unit</b>			7500 559250
d.	<b>Mini Dairy (CB cows)</b>	10 animals (5+5)	Shed (10 animals, 40 sq.ft./animal ₹150/sq.ft; AC sheet roofing)	5-6 Years (monthly / quarterly instalments)	Suitable arrangements exists for sale of milk either, through organised sector (BMCUs or Pvt dairies) or direct sales, at remunerative prices. If sale of milk is through organised route, arrangements could be explored for recoveries through proper tie-up.	
			Shed (5 calves, 30 sq.ft./animal ₹150/sq.ft; AC sheet roofing)			60000
			Transportation cost (₹2000/animal)			22500
			Cost of equipments (₹1500/animal)			20000
			Cost of animals (₹80000/animal)			15000
			Feed for 1 month for I batch (3500/- x 5)			800000
			Fodder cultivation (0.5 acre)			17500
			Insurance (@4.5%)			20000
			Veterinary aid (₹2500/animal) for I batch			36000
			<b>Total</b>			12500 1003500
			Note: Additional cost for water source, chaff cutter, milking machine etc., can be considered subject to viability			

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions
e.	Mini Dairy (GMB)	10 animals (5+5)	Shed for adults (10 animals, 40 sq. ft / animal; ₹150/sq. ft; AC Sheet roofing) 60000	5-6 Years (monthly / quarterly instalments)	
			Shed for calves (30 sq. ft./calf; ₹ 150/sq. ft; AC shed; 5 calves) 22500		
			Transport cost (₹2000/animal) 20000		
			Cost of equipment (₹ 1500/animal) 15000		
			Cost of animals – GMB (Rs. 90000/ animal) 900000		
			Feed for 1 month for 1 batch 17500		
			Fodder cultivation (1 acre) 20000		
			Insurance (@4.5%) 40500		
			Veterinary Aid (₹2500/animal) for 1 batch 12500		
			<b>Total for GMB unit</b> 1108000		
			Note: Additional cost for water source, chaff cutter, milking machine etc., can be considered subject to viability		
			Depending upon the size of the unit. Indicative costs for various items of investments are -		
f.	Commercial Dairy	Any Size	1. Cost of CBC - ₹6000-7500/Litre Per day (LPD); GMB - ₹9000-11000/LPD; Cost of equipment - ₹ 1100/animal 2. Higher transport can be considered on need basis 3. Shed space - 20 sq.ft/calf; 30 sq.ft/heifer; 40 sq.ft/ adult; Shed cost - ₹ 120/sq.ft-Thatched Roof; ₹ 150/sq.ft-Asbestos roof 4. Fodder cultivation - 1 ac/10 animals; ₹ 20000/acre 5. Feed cost to be capitalised for the first batch of animals @ ₹ 3500/animal; Insurance cost - actual (4.5% of animal cost assumed); Veterinary aid - Rs. 1320/animal Other investments like feed store, milk shed, chaff cutter, minor irrigation structures for fodder unit, water supply system, milking		

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions																								
			machines, fencing, cost of bulls / AI unit, feed mixing unit etc., may be considered based on need and subject to viability.																										
			Cost of Calf* Own		Banks may ensure that -																								
	<b>Female Calf Rearing</b>	1 no.	Cost of feed for 23 months (1620 kg) for CB calves	5 years including 2 years grace	<ol style="list-style-type: none"> <li>1. Cross bred calves of Jersey &amp; HF and Murrah /Graded Murrah Buffalo calves are supported.</li> <li>2. Calves of 3-4 months age are assisted as they are at the right age for exploiting their true genetic potential. Around 1620 kg of feed is required for the calf from the age of 3-4 months till it calves for the first time (28-30 months) for CB calves and 1900 kgs feed is required till calving (from 5 to 45 months ) for buffalo calves.</li> <li>3. Linkages in respect of training, breeding &amp; vety care, feed, fodder, medicines and marketing are adequate</li> <li>4. Beneficiary follows the schedules regarding deworming and vaccination against prevalent diseases (HS, BQ, FMD etc) with the help of local vet.</li> <li>5. The activity can be integrated with milch animal financing.</li> </ol>																								
			Cost of feed for 40 months (1900 kg) for Buffalo calves																										
			Veterinary Aid																										
			Insurance																										
			<b>Total for CB calf 50800</b>																										
<b>g.</b>			* for large units the cost of calf can also be included.																										
<b>h.</b>	<b>Fodder Cultivation</b>	1 acre	<table border="1"> <tr> <td>Cost of land preparation -Ploughing</td> <td>2000</td> </tr> <tr> <td>Forming ridges</td> <td>800</td> </tr> <tr> <td>Planting Material and Seeds</td> <td>3130</td> </tr> <tr> <td>Farm Yard Manure 5 tons</td> <td>2000</td> </tr> <tr> <td>Fertilizer</td> <td>2,600</td> </tr> <tr> <td>Cost of application of FYM and Fertilizer</td> <td>800</td> </tr> <tr> <td>Cost of Planting (12 man days/acre; Rs. 100/day)</td> <td>1,200</td> </tr> <tr> <td>Cost of weeding</td> <td>2,500</td> </tr> <tr> <td>Cost of irrigation</td> <td>1,500</td> </tr> <tr> <td>Cost of cutting</td> <td>2,400</td> </tr> <tr> <td>Miscellaneous</td> <td>1070</td> </tr> <tr> <td><b>Total Financial Outlay</b></td> <td><b>20000</b></td> </tr> </table>	Cost of land preparation -Ploughing	2000	Forming ridges	800	Planting Material and Seeds	3130	Farm Yard Manure 5 tons	2000	Fertilizer	2,600	Cost of application of FYM and Fertilizer	800	Cost of Planting (12 man days/acre; Rs. 100/day)	1,200	Cost of weeding	2,500	Cost of irrigation	1,500	Cost of cutting	2,400	Miscellaneous	1070	<b>Total Financial Outlay</b>	<b>20000</b>	5 years	Improved varieties of Hybrid Napier (CO-3, 4, 5. APBN-1 and 2), maize, etc. may be encouraged.
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Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions	
	<b>Sheep Rearing</b>					
<b>a</b>	<b>i. Breeding unit - Nellore breed</b>	20+1	Cost of Ram	12000	6 years including 1 year grace period	Banks may ensure that - a) Good quality animals (Nellore breed, Deccani etc. depending upon the area), aged around 10 to 14 months may be financed. b) Linkages in respect of training, breeding & veterinary care, feed, grazing area, medicines and marketing are adequate. c) Local veterinarian's advice is availed of with regard to age, health and quality of the animals to be purchased. d) Animals are identified immediately after purchase through ear tagging and are insured, preferably under a long term master policy. e) Beneficiary follows the schedules regarding deworming and vaccination against prevalent diseases (Sheep Pox, ET etc.,) with the help of local vet. f) The bank can provide Aadhar number to Animal Husbandry department to ascertain coverage under state government scheme before financing to Yadava golla, Kurma communities
			Cost of Ewes (Rs.7400/animal)	148000		
			Cost of feeding for one cycle	12000		
			Cost of Insurance (7.5% of 3 years)	12000		
			<b>Cost of Veterinary Aid</b>	2500		
<b>Total</b>	<b>186500</b>					
			*Cost of thatched shed may be considered on need basis			
<b>b</b>	<b>ii. Breeding unit - Nellore breed</b>	10+1	Cost of Ram	12000	6 years including 1 year grace period	
			Cost of ewes (Rs. 7400/animal)	74000		
			Cost of feeding for one cycle	6000		
			Cost of Insurance (7.5% for 3 years)	6450		
			<b>Cost of Veterinary Aid</b>	1250		
<b>Total</b>	<b>99700</b>					
			*Cost of thatched shed may be considered on need basis			
<b>b</b>	<b>i. Breeding unit - Deccani breed</b>	20+1	Cost of Ram	10000	6 years including 1 year grace period	
			Cost of ewes (Rs. 7000/animal)	140000		
			Cost of feeding for one cycle	6000		
			Cost of Insurance (7.5% for 3 years)	11250		
			<b>Cost of Veterinary Aid</b>	2500		
<b>Total</b>	<b>169750</b>					
			*Cost of thatched shed may be considered on need basis			
	<b>ii. Ram</b>	20/batc	Cost of Lambs (20Nos)	70000		

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions																
	<b>Lamb Fattening</b>	h	<table border="1"> <tr> <td>Cost of Feeding</td> <td>9000</td> </tr> <tr> <td>Cost of Veterinary Aid</td> <td>2000</td> </tr> <tr> <td><b>Total</b></td> <td><b>81000</b></td> </tr> </table>	Cost of Feeding	9000	Cost of Veterinary Aid	2000	<b>Total</b>	<b>81000</b>												
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<b>Total</b>	<b>81000</b>																				
<b>3</b>	<b>Goat Rearing</b>																				
<b>a</b>	<b>Rearing Unit - Osmanbad i breed/ Improved desi</b>	20+1	<table border="1"> <tr> <td>Cost of Buck</td> <td>10000</td> </tr> <tr> <td>Cost of Does (Rs. 6500 each)</td> <td>130000</td> </tr> <tr> <td>Cost of feeding for one cycle</td> <td>9036</td> </tr> <tr> <td>Cost of Insurance (7.5% for 3 years)</td> <td>10500</td> </tr> <tr> <td>Cost of Veterinary Aid</td> <td>3080</td> </tr> <tr> <td>Equipment</td> <td>2500</td> </tr> <tr> <td><b>Total</b></td> <td><b>165116</b></td> </tr> <tr> <td><b>Say</b></td> <td><b>165200</b></td> </tr> </table>	Cost of Buck	10000	Cost of Does (Rs. 6500 each)	130000	Cost of feeding for one cycle	9036	Cost of Insurance (7.5% for 3 years)	10500	Cost of Veterinary Aid	3080	Equipment	2500	<b>Total</b>	<b>165116</b>	<b>Say</b>	<b>165200</b>	6 years including 1 year grace period	<p>Banks may ensure that -</p> <p>a) Good quality animals (Osmanbadi)/ improved desi, aged around 10 to 14 months may be financed</p> <p>b) Linkages in respect of training, breeding &amp; vety care, feed, grazing area, medicines and marketing are adequate</p> <p>c) Local veterinarian's advise is availed of with regard to age, health and quality of the animals to be purchased</p> <p>d) Animals are identified immediately after purchase through ear tagging and are insured, preferably under a long term master policy</p> <p>e) Beneficiary follows the schedules regarding deworming and vaccination against prevalent diseases (Goat Pox etc.,) with the help of local vet.</p> <p>f) In case of stall fed goat rearing units (50+2 size), the shed space requirement will be about 1000 sq ft (10 sq ft / doe, 20 sq.ft for buck and 4 sq.ft/kid) with fodder cultivation in 1.25 acre (irrigated)/ 2 acres (seasonal).</p>
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<b>Total</b>	<b>165116</b>																				
<b>Say</b>	<b>165200</b>																				
<b>b</b>	<b>Rearing Unit - Osmanbad i breed/ Improved desi</b>	10+1	<table border="1"> <tr> <td>Cost of Buck</td> <td>10000</td> </tr> <tr> <td>Cost of Does (Rs. 6500 each)</td> <td>65000</td> </tr> <tr> <td>Cost of feeding for one cycle</td> <td>4900</td> </tr> <tr> <td>Cost of Insurance (7.5% for 3 years)</td> <td>5625</td> </tr> <tr> <td>Cost of Veterinary Aid</td> <td>1800</td> </tr> <tr> <td>Equipment</td> <td>1400</td> </tr> <tr> <td><b>Total</b></td> <td><b>88725</b></td> </tr> <tr> <td><b>Say</b></td> <td><b>88800</b></td> </tr> </table>	Cost of Buck	10000	Cost of Does (Rs. 6500 each)	65000	Cost of feeding for one cycle	4900	Cost of Insurance (7.5% for 3 years)	5625	Cost of Veterinary Aid	1800	Equipment	1400	<b>Total</b>	<b>88725</b>	<b>Say</b>	<b>88800</b>	6 years including 1 year grace period	
Cost of Buck	10000																				
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<b>Total</b>	<b>88725</b>																				
<b>Say</b>	<b>88800</b>																				
<b>4</b>	<b>Piggery</b>																				
			<table border="1"> <tr> <td>Cost of Boar</td> <td>6600</td> </tr> <tr> <td>Cost of Sows (Rs. 4400 each)</td> <td>13200</td> </tr> <tr> <td>Cost of shed (70sq.ft/boar; 20sq.ft/ sow and farrowing pen 100 sq.ft)</td> <td>24200</td> </tr> </table>	Cost of Boar	6600	Cost of Sows (Rs. 4400 each)	13200	Cost of shed (70sq.ft/boar; 20sq.ft/ sow and farrowing pen 100 sq.ft)	24200		<p>Banks may ensure that-</p> <p>a) Units are to be encouraged in locations with sources of vegetable /hotel /other waste to economise feed expenses</p>										
Cost of Boar	6600																				
Cost of Sows (Rs. 4400 each)	13200																				
Cost of shed (70sq.ft/boar; 20sq.ft/ sow and farrowing pen 100 sq.ft)	24200																				

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions		
a	Breeding unit	3+1	Cost of Fattener shed (10 sq.ft./fattener)	11000	b) Good quality foundation stock aged around 8 months in case of breeding units and 2 months in case of fattening units may be financed. The prices as per quotation may be considered for pigs purchased from State Government farms., c) Linkages in respect of training, breeding, veterinary care, feed, garbage collection and marketing are adequate. d) Animals are identified immediately after purchase through ear tagging and are properly insured e) Borrower follows the schedules regarding deworming and vaccination with the help of local veterinarian and experts of Animal Husbandry Department. f) As per PR and Municipal Act, free roaming of pigs is prohibited and the same has to be ensured.		
			Cost of feeding adults and growers	47370			
			Cost of Insurance (6%)	1188			
			Cost of Veterinary Aid	8580			
			Tricycle for kitchen waste collection, water supply and Equipment	31900			
			<b>Total</b>	<b>144038</b>			
			<b>Say</b>	<b>144100</b>			
			Cost of Boar	6600			
			Cost of Sows (Rs. 4400 each)	44000			
			Cost of shed (70sq.ft./boar; 20sq.ft./ sow and three farrowing pen @ 100 sq.ft / pen)	59400			
b	Breeding unit	10+1	Cost of Fattener shed (10 sq.ft./fattener)	45100			
			Tricycle for kitchen waste collection, water supply and Equipment	66000			
			Cost of feeding adults and growers	188428			
			Cost of Insurance (6%)	3036			
			Cost of Veterinary Aid	5665			
			Labour Wages	79200			
			<b>Total</b>	<b>497430</b>			
			<b>Say</b>	<b>497400</b>			
			Cost of piglets	25000			
			Cost of shed (12.5 sq.ft/piglet)	12500			
c	Fattener unit	10	Cost of feed	6000			
			Miscellaneous	1000			
			<b>Total</b>	<b>44500</b>			
			<b>Say</b>	<b>44500</b>			
			5	Contract Broiler farming	Any Size depending upon the contract	Only cost of shed and equipment need to be considered. Indicative cost would be : Thatched roof shed Rs 110 /sq.ft / shed with asbestos roof and local material – Rs 190-210/sq. and Equipment (Rs.18- 20/ broiler)	Banks may ensure that - a) there is a proper tie-up arrangements with the integrators like VHPL, Suguna, etc., b) atleast 5 batches of birds /year are supplied by the integrators c) proper training is given to the farmers before taking up the activity d) activity is taken up in a compact area.
						6-8 years	



Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions
<b>b</b>	<b>Independent broiler units</b>	Large units	Indicative costs - Cost of Shed Construction - Asbestos – Rs. 190-210/sq.ft.; thatched roof Rs 90/sq.ft, Equipment - Rs. 18-20/broiler;		Banks may ensure that - a) Extreme care is taken in financing independent broiler units as more broiler production is coming under contract
			Cost of DOC - Rs. 35-42 Cost of Feed - Rs. 38-40/kg Cost of Misc. Expenses - Rs. 15/bird (Rs.400-450/bird) Feed Consumption – 3 to 4 kg based on age of marketing	05 Years	farming b) Linkages in respect of training, chicks, feed, medicines etc., are adequate c) Cost of chicken can be considered based on the quotation of hatchery. d) The farm has a captive clientele / adequate market considering the fact that integrators are dominating the finished broiler market.
<b>c</b>	<b>Layer</b>	Any Size preferably over 50000 birds	Depends upon the size - Cost of Shed Construction - Raised Platform with asbestos sheet - Rs. 270-300/sq.ft; Cost of Equipment - (dep. upon quotation) - i. Cage system - Rs. 70/brooder & grower; Rs. 90/layer Cost of DOC - Rs. 35-38; Cost of Feed - Rs. 28-32 (brooder)/ Rs. 26-28(grower mash)/Rs. 25-27 (layer mash) per kg; Cost of Misc expenses - Rs. 18 upto point of lay; Rs. 18 during lay (Rs.630-680/bird) Feed Consumption 1 – 8 Week 2kgs 9- 20 Weeks 6kg After 21 Weeks 700gms/ week	8 years with one year grace	Banks may ensure that - a) Linkages in respect of training, chicks, feed, medicines and marketing are adequate b) Cost of chicken can be considered based on the quotation of hatchery. c) Beneficiary follows the schedules regarding deworming and vaccination against prevalent diseases d) Automation could be considered depending on the proposal subject to technical feasibility and financial viability e) For all large scale units, the techno economic appraisal has to be undertaken on each individual project basis

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions
d	Back Yard Birds Unit	50 Birds	Cost of Shed Construction - Asbestos – Rs. 190- 210/sq.ft @ 2 sq ft per bird,; Equipment - Rs. 18-20/bird; Cost of DOC - Rs. 24 weeks Cost of Feed - Rs. 28/kg @ 7 kgs for 20 weeks Cost of medicines, vaccines Misc. Expenses - Rs. 20/bird. Unit Cost for 50 back yard bird unit is Rs.34,000/-.	21000 1000 1200 9800 1000	Regular supply of DOC need to be ensured by proper tie up arrangement.
<b>6</b>	<b>Plough Bullocks and Bullock Carts</b>				
a	<b>Plough Bullocks</b>	1 pair	A. Non Descript (medium size) : Rs. 50,000 (incl insurance) B. Hallikar Bullocks : Rs. 80,000 (incl insurance)	5 years	Demand is mainly in sugarcane areas for transport of cane to mills
b.	<b>Bullock Carts</b>	1 no.	A. Pneumatic Tyre carts (3 T) : Rs.50000-55000/- B. Carts of local make / wooden: Rs. 40000-45000/-	5 years	

## J. Cluster Officers/DDMs

DISTRICT DEVELOPMENT MANAGERS						
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1	THEJSWAROOP REDDY K	AGM/COIC	ADILABAD, MANCHERIAL	8790728032	adilabad@nabard.org	
2	SHAIK ABDUL RAVOOF	MGR	KB ASIFABAD, NIRMAL	9491357588	adilabad@nabard.org	
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5	L SUJITH KUMAR	MGR	KHAMMAM, BHADRADRI KOTHAGUDEM	7735776441	khammam@nabard.org	
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9		MGR	SANGAREDDY	9948512331	sangareddy@nabard.org	
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11	M VINAY KUMAR	MGR	NALGONDA, YADADRI BHUVANGIRI	9966785678	nalgonda@nabard.org	
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13	CHANDRASEKHAR L	AGM/COIC	HANMAKONDA, JANGAON, MAHBUBABAD	9497351536	warangal@nabard.org	
14	CHAITANYA RAVI THANGA	MGR	JS BHUPALAPALLY, MULUGU, WARANGAL	8297333555	warangal@nabard.org	
15	S PRAVEEN KUMAR	MGR/COIC	HYDERABAD, VIKARABAD	9995008811	ddmhyderabad@nabard.org	
16	SHIVISHARMA	MGR	RANGAREDDY, MEDCHAL- MALKAJGIRI	7045758873	ddmhyderabad@nabard.org	