



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 के लिए प्रतिबद्ध है।

नाबार्ड, पर्याप्त ऋण प्रवाहित करने के लिए विभिन्न कृषि क्षेत्रों और इसकी गतिविधियों की वास्तविक इकाई लागत निर्धारित के लिए वर्षों से राज्य स्तरीय इकाई लागत समिति (एसएलयूसीसी) की बैठक आयोजित कर रहा है। तेलंगाणा राज्य की वर्ष 2021-22 की इकाई लागत में विभिन्न सरकारी विभागों, बैंकों, अनुसंधान संगठनों आदि के साथ व्यापक परामर्श के उपरांत इसमें संशोधन किया गया है। जल संसाधन विकास के तहत बोरवेल, डगवेल और स्प्रेकलर सिस्टम यूनिट लागत में कुछ संशोधन किए गए हैं। फल एवं वृक्षारोपण फसलों, मत्स्य पालन, भूमि विकास, फार्म मशीनीकरण तथा पुशपालन के तहत दुधारूपशुओं एवं भेड़ों के अंतर्गत भी संशोधन किए गए हैं।

नाबार्ड तेलंगाणा क्षेत्रीय कार्यालयद्वारा, हैदराबाद में दिनांक 07 जून 2021 को आयोजित एसएलयूसीसी की बैठक में प्रत्येक क्षेत्र पर विस्तृत चर्चा और विचार-विमर्श के बाद वर्ष 2021-22 की इकाई लागतों को अंतिम रूप दिया गया।

समिति द्वारा अनुमोदित लागत सांकेतिक है और वित्तीय संस्थान/ सरकारी एजेंसियाँ 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, तेलंगाणा सरकार की सभी संबंधित विभागों, एसएलबीसी, बैंकों, कृषक समुदाय और अन्य एजेंसियों के प्रति धन्यवाद ज्ञापित करता हूँ जिन्होंने इस पुस्तिका के प्रकाशन 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।

राष्ट्र के राज

(वाई. के. राव)

मुख्य महाप्रबंधक

तेलंगाणा, 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 farm sector activities to facilitate adequate credit flow. The revision in unit costs for 2021-22 for Telangana state was carried out after extensive consultations with various Government Departments, Bankers, Research organizations etc. A few revisions have been made in Borewell, Dugwell and Sprinkler system Unit Costs under Water Resources development. Revisions have also been made under Fruit & Plantation crops, Fisheries, Land Development, Farm Mechanisation and for milch animals and sheep under Animal Husbandry.

The costs for the year 2021-22 were finalized by the SLUCC meeting convened on 07 June 2021 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 place on record my sincere thanks to 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.



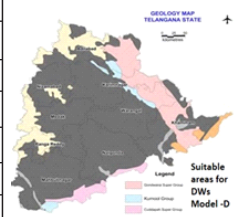
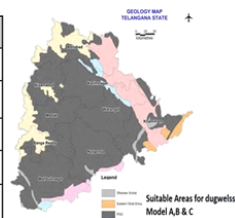
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A. MINOR IRRIGATION

I –UNIT COSTS OF DUGWELLS

Model A - Hard Rock Areas				
1. Basic Information:		Outer Dia.(m)	6.9	
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		Inner Dia.(m)	6.0	
		Depth of the Well(m)	12.0	
		Steining of the well(m)	5.0	
		Thickness of Steining (m)	0.5	
2. Cost of Excavation				
Depth (m)	RMT	Quantity (cum)	Rate/cum (₹)	Amount (₹)
0.0 to 2.0m	2	74.80	143.06	10700.40
2.0 to 4.0 m	2	74.80	177.13	13248.12
4.0 to 6.0 m	2	56.56	261.60	14795.05
6.0 to 8.0 m	2	56.56	305.20	17260.89
8.0 to 10.0 m	2	56.56	348.80	19726.73
10.0 to 12 m	2	56.56	392.40	22192.57
3. Cost of Steining		45.60	497.313	22676.60
4. Dewatering Charges			5000.00	
TOTAL			125600.37	
Rounded to			125700.00	



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	₹9508; 1.09:1.0; 17.19%

Model-B : Hard Rock Areas			
1. Basic Information:		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 >5-7 mts bgl		Inner Dia.(m)	5
		Depth of the Well(m)	14
		Stining of the well(m)	5
		Thickness of Steining(m)	0.45

2. Cost of Excavation				
Depth (m)	RMT	Quantity (cum)	Rate/cum (₹)	Amount (₹)
0.0 to 2.0m	2	54.687	143.06	7823.66
2.0 to 4.0 m	2	54.687	177.13	9686.43
4.0 to 6.0 m	2	39.275	261.16	10274.34
6.0 to 8.0 m	2	39.275	305.20	11986.73
8.0 to 10.0 m	2	39.275	348.80	13699.12
10.0 to 12 m	2	39.275	392.40	15411.51
12.0 to 14 m	2	39.275	436.00	17123.90
3. Cost of Steining		38.5288	497.313	19160.85
4. Dewatering Charges				5000.00
		TOTAL		110166.55
		Rounded to		110200.00

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	₹9388; 1.10 :1.0; 17.50%

Model -C: Hard Rock Areas

1. Basic Information: 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	Outer Dia.(m)	5.9
	Inner Dia.(m)	5.0
	Depth of the Well(m)	16.0
	Steining of the well(m)	5.0
	Thickness of Steining(m)	0.45

2. Cost of Excavation		Quantity (cum)	Rate/cum (₹)	Amount (₹)
Depth (m)	RMT			
0.0 to 2.0m	2	54.6865	143.06	7823.59
2.0 to 4.0 m	2	54.6865	177.13	9686.35
4.0 to 6.0 m	2	39.275	261.60	10274.34
6.0 to 8.0 m	2	39.275	305.20	11986.73
8.0 to 10.0 m	2	39.275	348.80	13699.12
10.0 to 12 m	2	39.275	392.40	15411.51
12.0 to 14 m	2	39.275	436.00	17123.90
14.0 to 16 m	2	39.275	479.60	18836.29
3. Cost of Steining		38.5288	497.3125	19160.85
4. Dewatering Charges				5000.00
		TOTAL		129002.68
		Rounded to		129100.00
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		₹ 13,047; 1.12 :1.0; 17.92%		
Model D- DUG WELLS IN HARDROCK AREAS- LIME STONES & LIME STONES – (Areas of Karimnagar, Nalgonda and Warangal - Kadapah and Kurnool Formations)				
1. Basic Information:		Outer Dia.(m)	4.9	
Suitable in hard rock areas- Weathered Sand stones, Lime stone, Lateritres etc where ground water level is within 10 m bgl		Inner Dia.(m)	4	
		Depth of the Well(m)	12	
		Steining of the well(m)	5	
		Thickness of Steining(m)	0.45	

2. Cost of Excavation				
Depth (m)	RMT	Quantity (cum)	Rate/cum (₹)	Amount (₹)
0.0 to 2.0m	2	37.72	143.06	5396.32
2.0 to 4.0 m	2	37.72	177.13	6681.16
4.0 to 6.0 m	2	25.136	261.60	6575.58
6.0 to 8.0 m	2	25.136	305.20	7671.51
8.0 to 10.0 m	2	25.136	348.80	8767.44
10.0 to 12 m	2	25.136	392.40	9863.37
3. Cost of Steining		31.4593	497.3125	15645.10
4. Dewatering Charges				5000.00
TOTAL				65600.46
Round off to				65700.00
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	₹ 7547; 1.14 :1.0; 18.31%			
Model E - DUG WELLS IN ALLUVIAL AREAS - Adjoining areas Krishna, Godawari, other rivers/Streams and Head Reaches of Canal Command areas)				
I. Basic Information:		Outer Dia.(m)	3.20	
Suitable in hard rock areas- Weathered Sand stones, Lime stone, Laterites etc where ground water level is within 10 m bgl		Inner Dia.(m)	3.00	
		Depth of the Well(m)	14.00	
		Steining of the well(m)	12.00	
		Thickness of Steining(m)	0.10	
II. Cost of Excavation				
Depth (m)	RMT	Quantity (cum)	Rate/cum (₹)	Amount (₹)
0.0 to 2.0m	2	16.087	114.45	1841.16
2.0 to 4.0 m	2	16.087	141.7	2279.53

4.0 to 6.0 m	2	16.087	190.75	3068.60
6.0 to 8.0 m	2	16.087	234.35	3769.99
8.0 to 10.0 m	2	16.087	250.7	4033.0
10.0 to 12 m	2	16.087	277.95	4471.38
12.0 to 14 m	2	16.087	436.00	7013.93
II. Cost of Lining		13.640	3351.75	45717.87
III Dewatering Charges			5000.00	
			TOTAL	77195.46
			Rounded to	77200.00
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		₹4477; 1.07 :1.0; 16.68%		

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	Drilling of bore well 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	445	53400
Depth (m)		120			

	GST @12% on Drilling				6408
2	Casing -PVC casing pipe : Pressure- 6 kg/cm	Diameter	180		
		Length (m)	20	625	12500
3	Well Cap (PVC)	Diameter (mm)	180	450	450
	GST@18% on casing and Well Cap				2331
	Total				75089
	Rounded to				75100
Minimum Benefitting Area in Acres		1.68			
Repayment Period		SF & MF 7 years with 11 months grace period; OF- 5 years with 11 months grace period			
NPW: BCR: IRR		₹5649; 1.06 :1.0; 16.43%			

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 1/4") with a pilot bore of suitable dia may be 216 mm (8 1/2") 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	Diameter (mm)	180		

	threaded pipes cost of 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)	150	850	127500
	GST @ 18%				22950
2	Casing -PVC plain casing pipe – (Pressure-10 kg/cm ²)	Dia.(mm)	175		
		Length (m)	90	623	56070
3	PVC casing pipe (Slotting)- (Pressure-10 kg/cm ²)	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.	350		350
5	M.S Clamp set suitable to 180 mm (OD)PVC pipe	1 No.	900		900
6	Bottom Dummy (CI) suitable to 180 mm (OD) PVC casing pipe	1 No.	1400		1400
	GST @ 12% for items S No 2-6				10646.4
7	Compressor charges @ ₹3000/hour	2	3000		6000
	Total				255816.4
	Rounded to				255900.00

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	₹9520; 1.03 :1.0; 16.63%

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	528	10,560
		Depth (m)	20		
	GST@12%				1267.2
2	Casing- PVC plain casing pipe – Pressure 10 kg/cm2	Diameter (mm)	125	675	9,450
		Length (m)	14		

3	PVC casing pipe (Slotting)- Pressure -10 kg/ cm ²	Diameter (mm)	125		
		Length (m)	6	753	4,518
4	Well cap suitable to 125mm. (OD) PVC pipe		1 No.	410	410
5	M.S Clamp set suitable to 125mm (OD)PVC pipe		1 No.	600	600
6	Bottom Dummy (CI) suitable to 125mm (OD) PVC casing pipe		1 No.	500	500
	GST@18%				2786
Total				30091.12	
Rounded to				30100.00	
Minimum Benefitting Area		0.89 in Acres			
Repayment Period		SF & MF 3 years with 11 months grace period: OF-2 years with 11 months grace period.			
NPW: BCR: IRR		₹2788; 1.06:1.0; 16.63%			

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	16095	20729	28080	26040	37740	15820	18068
2	Foot Valve	333	436	540	434	555	220	285
3	Suction & Delivery Pipe	2442	3109	3240	2856	3330	2057	2633
4	Bend (Suction)	200	220	215	220	225	110	130
5	Bend (Delivery)	200	218	216	217	222	120	125
6	Starter	2000	2000	2200	0	0	0	0
7	Capacitor	300	500	500	0	0	0	0
8	Main Switch	300	300	300	0	0	0	0
9	Switch Board	550	550	550	0	0	0	0
10	Bolts & Miscellaneous	50	55	55	190	200	75	75
11	Earthing	450	450	450	0	0	0	0
12	Coupling/ Clamps	0	0	0	326	350	0	0
13	Water cooling system	0	0	0	800	900	0	0
14	Transport	300	300	500	500	333	200	200
15	Installation	500	500	550	500	600	300	300
	T O T A L	23720	29368	37396	32083	44455	18902	21816
	GST @ 12 percent	2846	3524	4488	3850	5335	2268	2618
	Grant Total	26566	32892	41884	35933	49790	21170	24434
	ROUNDED TO ₹	26600	32900	41900	35900	49800	21200	24400
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	27440	30250	33635	38880
2	Cable	2038	2002	2441	2646
3	GI Pipe	8154	11055	14268	17842
4	Pressure Gauge	300	300	300	300
5	Non Return Valve	725	725	800	850
6	Starter & Panel Board	4000	4000	4000	4000
7	Capacitor	575	575	575	575
8	Transport	500	500	750	750
9	Installation	1200	1500	2000	2000
	T O T A L	44932	50907	58769	67843
	GST @ 12 percent	5392	6109	7052	8141
	Total Cost	50324	57016	65821	75984
	Rounded to	50300	57000	65800	76000
	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 (₹)	1.0 ha		2.0 ha	
		Quantity	Amount (₹)	Quantity	Amount (₹)
		(Nos)		(Nos)	
		Pipe Di a 63mm		Pipe Di a 63mm	
HDPE Pipes with quick action coupler (2.5 kg/cm ²) of 6m long	450	25	11250	30	13500
Sprinkler coupler with foot baton assembly	300	5	1500	7	2100
Sprinkler nozzles (1.7 to 2.8 kg/cm ²)	325	5	1625	7	2275
Riser pipe 20mm diameter x 75cm long	100	5	500	7	700
Connecting nipple	250	1	250	1	250
Bend with coupler 900	200	1	200	1	200
Tee with coupler	300	1	300	1	300
End plug	75	2	150	2	150
Basic system cost per hectare (₹)			15775		19475
GST @ 12%			1893		2337
TOTAL COST			17668		21812
ROUND OFF			17700		21800
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%				

Model B: Unit Cost of Sprinkler Irrigation System (Pipe dia 75mm)

Sprinkler System Components	Rate (₹)	1.0 ha		2.0 ha		3.0 ha		4.0 ha	
		Quantity	Amount (₹)	Quantity	Amount (₹)	Quantity	Amount (₹)	Quantity	Amount (₹)
		(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 ²) of 6m long	535	25	13375	30	16050	37	19795	45	24075
Sprinkler coupler with foot baton assembly	350	5	1750	7	2450	11	3850	14	4900
Sprinkler nozzles (1.7 to 2.8 kg/cm ²)	300	5	1500	7	2100	11	3300	14	4200
Riser pipe 20mm diameter x 75cm long	100	5	500	7	700	11	1100	14	1400
Connecting nipple	250	1	250	1	250	1	250	1	250
Bend with coupler 90°	250	1	250	1	250	1	250	1	250
Tee with coupler	250	1	250	1	250	1	250	1	250
End plug	300	2	200	2	200	2	200	2	200
Basic system cost per hectare (Rs.)			18075		22250		28995		35525
GST @ 12%			2169		2670		3479		4263
TOTAL COST			20244		24920		32474		39788
ROUND OFF			20200		24900		32500		39800
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%								

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	Amount (₹)	Quantity	Amount (₹)	Quantity	Amount (₹)	Quantity	Amount (₹)
		(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 ²) of 6m long	675	25	16875	30	20250	37	24975	45	30375
Sprinkler coupler with foot baton assembly	400	5	2000	7	2800	11	4400	14	5600
Sprinkler nozzles (1.7 to 2.8 kg/cm ²) Riser pipe 20mm	300	5	1500	7	2100	11	3300	14	4200
diameter x 75cm long	150	5	750	7	1050	11	1650	14	2100
Connecting nipple	350	1	350	1	350	1	350	1	350
Bend with coupler 90°	300	1	300	1	300	1	300	1	300
Tee with coupler	350	1	350	1	350	1	350	1	350
End plug	100	2	200	2	200	2	200	2	200
Basic system cost per hectare (Rs.)				22325		27400		35525	43475
GST @ 12%				2679		3328		4263	5217
TOTAL COST				25004		30688		39788	48692
Rounded OFF				25000		30700		39800	48700
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 90mm)

System Components		Capital Cost (₹)
Raingun with nozzle (3-4 kg/cm ²), discharge of 7lps to 19lps and radius of 31m to 50m, pipe dia 90 mm, and related systems		31200
Booster Pumpset (5 HP) & Misc.		35000
Total		66200
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%	

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

Sl. No	Crop	Spacing	Type of Drip	Proposed Unit Cost (12 mm) Incl of HCU	Proposed Unit Cost (16 mm) Incl of HCU	Repayment period	Gestation	Remarks
1	Mango	10 m x 10 m	Online	20000	21500	4	1 year	Existing mature orchard
2	Mango	9 m x 9 m	Online	24100	25900	4	1 year	Existing mature orchard
3	Mango	8 m x 8 m	Online	27800	29600	4	1 year	Existing mature orchard
3 b	Mango	8 m x 8 m	Online	27800	29600	10	6 years	New Orchard
4	Mango	7 m x 7 m	Online	29300	31400	3	1 year	Existing mature orchard
4 b	Mango	7 m x 7 m	Online	29300	31400	10	6 years	New Orchard
5	Mango	6m x 6m	Online	32000	34500	3	1 year	Existing mature orchard
5 b	Mango	6m x 6m	Online	32000	34500	10	6 years	New Orchard

Unit Cost 2021-22

Sl. No	Crop	Spacing	Type of Drip	Proposed Unit Cost (12 mm) Incl of HCU	Proposed Unit Cost (16 mm) Incl of HCU	Repayment period	Gestation	Remarks
6	Mango	6m x 6m	Inline	32700	37000	3	1 year	Existing mature orchard
6 b	Mango	6m x 6m	Inline	32700	37000	10	6 years	New Orchard
7a	Mango	5 m x 5 m	Online	34800	37800	3	1 year	Existing mature orchard
7b	Mango	5 m x 5 m	Online	28060	32840	10	6 years	New Orchard
8a	Mango	5 m x 5 m	Inline	28330	33800	3	1 year	Existing mature orchard
8b	Mango	5 m x 5 m	Inline	35500	40600	10	6 years	New Orchard
8c	High Density Mango	3 m x 2 m	Online		48430	6	3 year	New Orchard
		3 m x 1.5 m	Online		54200	6	3 year	New Orchard
8d	Mango	3m X 3m	inline	37650	43700	6	3 year	New Orchard
8e	Mango /Gauva	3m X 3m	Online		47800	6	3 year	New Orchard
8f	Ultra HD Mngo	2m X 1 m	Inline	66300		6	3 year	New Orchard
9a	Cashew Nut	7 m x 7 m	Online	29300	31400	4	1 year	Existing mature orchard
9b	Cashew Nut	7 m x 7 m	Online	29300	31400	10	6 years	New Orchard
10a	Coconut	8 m x 8 m	Online	27800	29600	4	1 year	Existing mature orchard
10b	Coconut	8 m x 8 m	Online	27800	29600	10	6 years	New Orchard
11	Sapota	10 m x 10 m	Online	21500	23000	4	1 year	Existing mature orchard
12a	Sapota	8 m x 8 m	Online	27800	29600	4	1 year	Existing mature orchard

Sl. No	Crop	Spacing	Type of Drip	Proposed Unit Cost (12 mm) Incl of HCU	Proposed Unit Cost (16 mm) Incl of HCU	Repayment period	Gestation	Remarks
12b	Sapota	8 m x 8 m	Online	27800	29600	10	6 years	New Orchard
13a	Sweet orange	6 m x 6 m	Online	31300	33800	3	1 year	Existing mature orchard
13b	Sweet orange	6 m x 6 m	Online	31300	33800	10	6 years	New Orchard
14a	Acid Lime	6 m x 6 m	Online	31300	33800	3	1 year	Existing mature orchard
14b	Acid Lime	6 m x 6 m	Online	31300	33800	10	6 years	New Orchard
15a	Custard apple	6 m x 6 m	Online	31300	33800	4	1 year	Existing mature orchard
15b	Custard apple	6 m x 6 m	Online	31300	33800	9	5 years	New Orchard
16a	Guava	6 m x 6 m	Online	31300	33800	4	1 year	Existing mature orchard
16b	Guava	6 m x 6 m	Online	31300	33800	9	5 years	New Orchard
16c	Guava	3 m x 1.5 m	Online		62700	6	3 year	New Orchard
16d	Guava	2 m x 1 m	Online		70500	6	3 year	New Orchard
17a	Amla	6 m x 6 m	Online	31300	33800	4	1 year	Existing mature orchard
17b	Amla	6 m x 6 m	Online	31300	33800	8	4 years	New Orchard
18a	Ber	6 m x 6 m	Online	31300	33800	3	1 year	Existing mature orchard
18b	Ber	6 m x 6 m	Online	31300	33800	8	4 years	New Orchard
18c	Ber	5 m x 5 m	Online	33500	38000	3	1 year	Existing mature orchard
18d	Ber	5 m x 5 m	Online	33500	38000	8	4 years	New Orchard
19a	Pome-granate	4.5 m x 2.7 m	Online	34400	37800	3	1 year	Existing mature orchard

Unit Cost 2021-22

Sl. No	Crop	Spacing	Type of Drip	Proposed Unit Cost (12 mm) Incl of HCU	Proposed Unit Cost (16 mm) Incl of HCU	Repayment period	Gestation	Remarks
19b	Pomegranate	4.5 m x 2.7 m	Online	34400	37800	7	3 years	New Orchard
20	Papaya	1.8 m x 1.5 m	Online	64400	72800	3	1 year	New Orchard
21	Papaya	1.8 m x 1.5 m	Inline	63400	77500	3	1 year	New Orchard
22	Banana	1.8 m x 1.5 m	Inline	63400	77500	3	1 year	New Orchard
23a	Grapevine	2.7 m x 1.8 m	Online	48600	54200	3	1 year	Existing mature Vineyard
23b	Grapevine	2.7 m x 1.8 m	Online	48600	54200	7	23 months	New Orchard
24a	Grapevine	2.7 m x 1.8 m	Inline	50000	59300	3	1 year	Existing mature Vineyard
24b	Grapevine	2.7 m x 1.8 m	Inline	50700	60000	7	23 months	New Orchard
25	Vegetables	0.6 m x 0.45 m	Inline	90100	107400	4	6 months	New
26	Rose	[(0.60m + 1.20 m) x 0.6 m]	Inline	64100	76400	5	1 year	New
27	Jasmine	[(0.60m + 1.20 m) x 0.6 m]	Inline	64100	78200	5	1 year	New
28	Other flowers	1.0 m x 0.30m or 0.45 m	Inline	104600	125300	5	Depending on the crop	New
29	Tobacco (Light soils)	1.20 m x 0.50 m	Inline	90100	107400	4	6 months	New
30	Tobacco (Black soils)	0.75 m x 0.50 m	Inline	71800	88600	4	6 months	New
31	Sugarcane	[(0.75 m + 1.50 m) x 0.60m]	Inline	56500	66000	3	1 year	New Planting
32	Sugarcane	[(0.75 m + 1.25 m) x 0.60 m]	Inline	60400	71000	3	1 year	New Planting

Sl. No	Crop	Spacing	Type of Drip	Proposed Unit Cost (12 mm) Incl of HCU	Proposed Unit Cost (16 mm) Incl of HCU	Repayment period	Gestation	Remarks
33	Sugarcane	[(0.60 m + 1.20 m) x 0.60 m]	Inline	64500	76600	3	1 year	New Planting
34	Sugarcane	[1.50 m x 0.60 m]	Inline	90200	3	1 year		New Planting
35	Cotton	[(0.60 m + 1.20 m) x 0.60 m]	Inline	64500	76600	3 months	6 to 8	New Planting
36a	Mulberry (Sericulture)	0.90 m x 0.90 m	Inline	64500	76600	4	11 months	Existing
36b	Mulberry (Sericulture)	0.90 m x 0.90 m	Inline	64500	76600	7	11 months	New
37a	Oil Palm	9 m x 9 m	Online	30700	32600	7	11 months	Existing
37b	Oil Palm	9 m x 9 m	Microjet	33000	35000	7	5 years	New
38	Bamboo	4m X 4m	Online		35425	5	2 years	New
39	Date palm	8m X 8m	Online	21400	24500	5	2 years	New
40	Phonex palm	4m X 4m	Online	32700	35400	5	2 years	New

V. LOW LIFT IRRIGATION POINTS

Small Scale Lift Irrigation system

Model	Area in ha/ Acre	H P 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	₹ 24,900+ ₹ 8,200	₹24,900+ ₹ 10,000
Model II	1.0 ha/ 2.5 acre	3.0 hp	200m – Dia 63mm	₹ 24,900+ ₹ 12,300	₹ 24,900+ ₹ 15,700
Model III	1.5 ha/4.0 acres	5.0 hp	300 m – 75 mm	₹ 30,800 + ₹ 23,000	₹ 30800 + ₹ 34,400
Model IV	2.0 ha/ 5.0 acres	5.0 hp	400 m 75mm or 90 mm	₹30,800 + ₹ 45,800	₹ 30,800 + ₹ 52,900

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	1000	3500
Boulders (8 to 12 inches size) (Granitic/ Hard Material/ Field) to be filled up to 1.5 m (tractor trips)	5	1400	7000
Boulders (6 inches size) ,to be filled up to 1/2 m (tractor trips)	2	1400	2800
80-40 mm size jelly to be filled up to 1/2 m (tractor trips)	2	2500	5000
Coarse Sand to be filled up to 1/2 m (tractor trips)	3	2500	7500
Casing pipe with holes including concrete base	1	3100	3100
Aquamesh in meters	50	30	1500
Nylon mesh 6 m	1	200	1200
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

Item	Qty	Rate per unit	Total Amount (₹)
Diversion drain (cubic m) using machine	10	90	900
Total			39400
			Say
			₹40,000.00

Note: In case existing casing pipe is used and drilling of holes is carried out, ₹2600 could be saved making the unit cost as ₹37400.

Techno economic parameters

Catchment :	5 ha	Average Annual Rainfall	800 mm	Run-off coefficient:	0.25	Expected runoff:	10000 cu m
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**Unit cost: ₹40,000 Bank loan: ₹32,000 Margin Money : ₹8,000 (@20%)
Repayment: 4 years (half yearly instalment)**

B: Artificial recharge of dried open/dug-well

Particulars	Measurement in m			Volume (m ³)	Rate (₹) per cubic m	Labour (₹)	Material (₹)	Total Cost (₹)
	Length	Width	Depth					
Earth Work								
Diversion Drain	15	1	0.75	11.25	123	1384	0	1383.75
Silt Trap	3+2	3+2	1.2					
	2	2						
Middle Drain	2.5	2.5	1.2	7.5	123	922.5	0	922.5
	3	1	0.75	2.25	123	276.8	0	276.75

Particulars	Measurement in m			Volume (m ³)	Rate (₹) per cubic m	Labour (₹)	Material (₹)	Total Cost (₹)
	Length	Width	Depth					
Water recharge pit	5+3	5+3	1.5					
	2	2						
	4	4	1.5	24	123	2952	0	2952
Pipe Line – Trench	6	0.5	0.9	2.7	123	332.1	0	332.1
Pipe Cost (150 mm - Length - 6m)						0	1000	1000
Misc.						0	600	600
					5867	1600		7500.00

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:	Rs. 7500	Bank Loan :	Rs. 6000	M a r g I n Money:	Rs. 1500 (@20%)	R e p a y ment:	3 yrs (1/2 yrly)

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

Description of Item of Work	Quantity	Rate	Amount (Rs.)
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 2	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
TOTAL			156073
			Say 156000

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 up to a maximum of 50% of loan repayment installment.

8. 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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9. 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 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-7092 (Part-I) of 1987.
 - With HDPE pipes conforming to IS-14151 (Part-I) and IS-14151 (Part-II) 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 (Rs)	Repayment period (Yrs)	Gestation/ Grace period (Yrs)	Instalment
1	Contour Bunding (Slope 2-4%; area of land: 1 acre (4040 sq. m)	17000	3	1	Annual
2	Gully plugging with stone (5 m)	8500	3	1	Annual
3	OFD works for 2-3% slope (1 acre)	44400	3	1	Annual
4	Reclamation of saline/ alkaline soils (1 acre)	22300	3	1	Annual
5	NADEP compost unit (10'x6'x3') including operational cost	26300	3	1	Annual
6	Farm Ponds 10m x 10m x 2.5m (by machine)	53900	5	1	Annual
7	Farm Ponds 10m x 10m x 2.5m (by labour)	102600	5	1	Annual
8	Farm Ponds 15mx15mx3m (by machine)	86700	5	1	Annual
9	Farm Ponds 15mx15mx3m (by labour)	196000	5	1	Annual
10	Farm Ponds 18mx18mx3m (by machine)	119900	5	1	Annual
11	Farm Ponds 18mx18mx3m (by labour)	289300	5	1	Annual
12	FP/ WHS 20m x 20m x 3m (MIDH)	150000	5	1	Annual
13	Water storage tank - 18m x 9m x 1.5m	100000	5	1	Annual
14	Tiny vermicomposting unit (1.8 TPA)	33300	5	1	Annual

Unit Cost 2021-22

S. No.	Item of Investment	Unit Cost (₹)	Repayment period (Yrs)	Gestation/Grace period (Yrs)	Instalment
15	Mini vermicomposting unit (20 TPA)	350600	5	1	Annual
16	Vermi hatchery 260 TPA	1318000	7	1	Annual
17	Barbed wire fencing (rock poles) for 100 m	37900	5	1	Annual
18	Barbed wire fencing (cement poles) for 100 m	45300	5	1	Annual
19	Biofertilizer & Biopesticide unit (200 TPA)	22500000	10	1	Annual
20	Tank silt application (only transport & application) - 0.02 m-ha	28000	5	1	Annual
21	Integrated Farming System Model for 1 ha (Crops, Fruits, Vegetables, Dairy, Back Yard Poultry, Goatery and Recycling unit)	402200	5	1	Annual
Renewable Energy					
S. No.	Item of Investment	Unit Cost (₹)	Repayment period (Yrs)	Gestation/Grace period (Yrs)	Instalment
1	Solar Irrigation Pumpset - AC Motor (5 HP)	500000	5	1	Annual
2	Solar Irrigation Pumpset - (5 HP) DC Motor	558000	5	1	Annual



C. FARM MECHANISATION

S. No.	Name of the Activity	Unit	Unit cost (₹lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
1	Tractors with matching equipment and trolley (30-51 hp)	1	6.05-9.35	7-9	Nil	Annual
2	Second-hand Tractor	1	3.250	5	Nil	Annual
3	Mini tractor with matching equipment (15-24 hp)	1	4.950	7	Nil	Annual
4	Power tiller with matching equipment (12 hp)	1	2.480	7	Nil	Annual
5	Combine Harvester	1	25.000	7	Nil	Annual
6	Combine harvester Maize (Tyre type)	1	24.000	7-9	Nil	Annual
7	Custom hiring centre (CHC) for Cotton	1	21.340	7-9	Nil	Annual
8	CHC for SMSRI	1	44.000	7-9	Nil	Annual
9	CHC for Maize	1	39.875	7-9	Nil	Annual
10	CHC for Groundnut	1	19.833	7-9	Nil	Annual
11	CHC for land preparation for Paddy (Big tractor)	1	7.000	7-9	Nil	Annual
12	CHC for land preparation for Paddy (Mini tractor)	1	4.500	5	Nil	Annual
13	CHC for Paddy harvesting	1	27.500	7-9	Nil	Annual
14	CHC for Sugarcane (Big)	1	125.000	7-9	Nil	Annual
15	CHC for Pulses/Soybean	1	33.000	7-9	Nil	Annual
16	CHC for Dry land Crops Package	1	10.000	7-9	Nil	Annual
17	CHC for Transplanting Package	1	16.000	7-9	Nil	Annual

S. No.	Name of the Activity	Unit	Unit cost (₹lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
18	CHC - Harvesting Package for all Crops	1	25.000	7-9	Nil	Annual
19	Paddy transplanter (walking type)	1	2.750	5	Nil	Annual
20	Diesel based self-propelled Paddy transplanter	1	18.000	7	Nil	Annual
21	Paddy Straw Baler (round)	1	3.500-4.500	5	Nil	Annual
22	Paddy Straw Baler (square)	1	9.50-10.50	7-9	Nil	Annual
23	Turmeric cooking Machine (4 drums)	1	4.950	5	Nil	Annual
24	Laser guided land leveller	1	3.850	5	Nil	Annual
25	Rotary Mulcher with Tractor	1	1.850	5	Nil	Annual
26	PTO operated post hole digger	1	0.940	5	Nil	Annual
27	Mini power weeder (2hp)	1	0.220	3	Nil	Annual
28	Medium (4.8 hp) power weeder	1	0.792	5	Nil	Annual
29	Brush cutter	1	0.220	3	Nil	Annual
30	Rotary weeder (self-propelled -2hp)	1	0.715	3	Nil	Annual
31	Solar fencing (five line 7 feet poles)	1ha	1.600	5	Nil	Annual
32	Sugarcane transplanter	1	1.100	5	Nil	Annual
33	Sugarcane Harvester	1	110-165	7-9	Nil	Annual
34	Paddy Nursery Package	1	2.500	5	Nil	Annual
35	Agri Tractor Backhoe Loader (55-65 hp)	1	7.00	7-9 years	Nil	Annual

S. No.	Name of the Activity	Unit	Unit cost (₹lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
36	Automatic Seedling Machine	1	2.20-2.87	5	Nil	Annual
37	Paddy Winnowing Cleaner	1	1.570	5	Nil	Annual
Tractor Drawn Implements						
1	MB plough (3 bottom)	1	0.363	3	Nil	Annual
2	2 Bottom disc plough with Tubular frame (Heavy duty)	1	0.330	3	Nil	Annual
3	7 Disc Harrow -heavy duty 180 kg	1	0.220	3	Nil	Annual
4	Deep Tillage Equipment (like Chiesel/Sub soil plough)	1	0.275	3	Nil	Annual
5	9 Tyne rigid cultivator (Heavy duty)	1	0.275	3	Nil	Annual
6	11 Tyne rigid cultivator (Light duty)	1	0.275	3	Nil	Annual
7	11 Tyne rigid cultivator (Heavy duty)	1	0.286	3	Nil	Annual
8	9 Tyne spring loaded cultivator (Light duty)	1	0.253	3	Nil	Annual
9	9 Tyne spring loaded cultivator (Heavy duty)	1	0.297	3	Nil	Annual
10	Tractor Mounted Pneumatic Planter (Multicrop Planter)	1	1.650	5	Nil	Annual
11	Tractor drawn manual seed cum Fertiliser drill with spring tyne cultivator and leveler- 6 tyne (ATP type)	1	0.297	3	Nil	Annual

S. No.	Name of the Activity	Unit	Unit cost (₹lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
12	Tractor drawn manual seed cum Fertiliser drill with spring tyne cultivator and leveler- 8 tyne (ATP type)	1	0.319	3	Nil	Annual
13	Tractor drawn manual seed cum fertilizer drill with rigid tyne cultivator and leveler – 6 tyne (ATP type)	1	0.264	3	Nil	Annual
14	Tractor drawn manual seed cum fertilizer drill with rigid tyne cultivator and leveler – 8 tyne (ATP type)	1	0.297	3	Nil	Annual
15	Automatic seed cum fertilizer drill with spring tyne cultivator and leveler 6 tyne (ATP type)	1	0.561	3	Nil	Annual
16	Automatic seed cum fertilizer drill with spring tyne cultivator and leveler 8 tyne (ATP type)	1	0.627	3	Nil	Annual
17	9-row seed cum ferti drill	1	0.550	3	Nil	Annual
18	Tractor drawn multi crop planter	1	0.770	5	Nil	Annual
19	Seed drill (multi crop including Paddy) - Tractor drawn	1	0.715	5	Nil	Annual
20	Happy Seeder	1	1.700	5	Nil	Annual
21	Levelling blade (7'1/2" heavy duty) 145kg	1	0.132	3	Nil	Annual
22	Slim tyre & inter-culture equipment	1	0.550	3	Nil	Annual
23	Cotton Mobile Shredder	1	1.650	5	Nil	Annual

Unit Cost 2021-22

S. No.	Name of the Activity	Unit	Unit cost (₹lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
Rotavators						
1	24 blades single speed chain drive 540 RPM Rotavator	1	0.520	3	Nil	Annual
2	36 blades gear drive 540 RPM (HD) Rotavator	1	1.056	5	Nil	Annual
3	42 Blades gear drive 540 RPM (HD) Rotavator	1	1.090	5	Nil	Annual
Plant Protection Equipment						
1	Power sprayer 16 lts. Capacity	1	0.066	2	Nil	Annual
2	Power operated sprayer (Mist blower)	1	0.297	3	Nil	Annual
3	Power operated sprayer (Mist blower cum Duster)	1	0.319	3	Nil	Annual
4	Tractor mounted HTP Sprayer with 2 guns and frame & tank	1	0.253	3	Nil	Annual
5	High pressure knapsack sprayer with Zenoah 2 stroke G26 LS engine	1	0.182	2	Nil	Annual
6	Tractor mounted boom sprayer	1	1.375	5	Nil	Annual
7	High pressure knapsack sprayer with Honda 4 stroke GX 25 Engine	1	0.185	2	Nil	Annual
Post-Harvest Equipment						
1	Groundnut thresher of capacity 300-500 kg/hr with 10 HP air cooled diesel engine	1	1.430	5	Nil	Annual
2	Groundnut decorticator- Rocking type of 200-400 kg pods per hour capacity with 2 HP electric motor	1	0.495	3	Nil	Annual

S. No.	Name of the Activity	Unit	Unit cost (₹lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
3	Groundnut decorticator- Rotary type of 200-400 kg pods per hour capacity with 2 HP electric motor	1	0.308	3	Nil	Annual
4	Groundnut sheller (7.5 hp diesel engine operated)- 6qtl/hr	1	2.200	5	Nil	Annual
5	Power Chaff cutter of 200 kg/hour capacity with 2 HP BIS/ISI marked electric motor	1	0.198	3	Nil	Annual
6	Power Chaff cutter of 500 kg/hour capacity with 5 HP BIS/ISI marked electric motor	1	0.935	5	Nil	Annual
7	Power Chaff cutter of 500 kg/hour capacity with 5 HP BIS/ISI marked diesel engine	1	1.023	5	Nil	Annual
8	Maize sheller with 2 HP electric	1	0.231	3	Nil	Annual
9	Maize sheller with 5 HP electric motor - 2000 kg per hour capacity	1	0.484	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	1.100	5	Nil	Annual
11	Paddy Thresher (3 Walker type) with 10 HP diesel engine of capacity 600-1000 kg/hr	1	1.287	5	Nil	Annual
12	Paddy Thresher (4 Walker type) with 10 HP diesel engine of capacity 600-1000 kg/hr	1	1.584	5	Nil	Annual
13	Tractor drawn multi crop thresher	1	1.595	5	Nil	Annual
14	Multicrop thresher with 8hp diesel engine	1	1.100	5	Nil	Annual

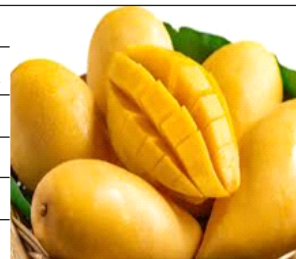
Unit Cost 2021-22

S. No.	Name of the Activity	Unit	Unit cost (₹lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
15	Maize dehusker cum thresher of 3000 kg/hr (operated with PTO of tractor of >35 hp) with two pneumatic wheels	1	1.595	5	Nil	Annual
16	Maize Sheller operated with 35 hp tractor PTO - 2000 kg/hour capacity mobile type	1	0.770	5	Nil	Annual
17	Paddy Drier	1	18.150	7	Nil	Annual
18	Power Reaper	1	1.375	7	Nil	Annual
19	Power Operated Groundnut Dry Pod Thresher	1	1.925	7	Nil	Annual
20	Multicrop Thresher tractor operated drumsized 30x 39 High speed double wheel double pan 4000kg/hr (Mobile type)	1	3.520	7	Nil	Annual
21	Post Harvest Equipment package	1	7.500	7	Nil	Annual
22	Hydraulic Biomass Briquette Plant	1	12.5 ~ 27.0	7	Nil	Annual
Animal/Bullock Drawn Implements						
1	4 row seed cum fertilizer drill (Anantapur type)	1	0.088	2	Nil	Annual
2	4/5 row automatic seed cum fertilizer drill (Adilabad type)	1	0.088	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	1,23,100	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	1,24,800	5m x 2.5 m	320	30	1.32	8	3
15	Custard Apple	1,85,800	2.5m x2.5m	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	Aonla (Amla)	43,500	6m x 6 m	110	38	1.51	8	4
20	Cashew	46,400	6m x 6 m	110	49	2.24	8	5
21	Coconut (T&D)	54,300	7.5m x 7.5 m	71	21	1.03	15	8
22	Jasmine	69,000	1.5m x1.5 m	1780	>50	1.61	5	1
23	Vegetable cultivation under Pandal system	2,50,000 per ha						
24	Fig	46,600	5m x 5m	160	49	1.52	6	3
25	Oilpalm (cost/ha)	2,35,800 per ha.	9 x 9m	143	33.13	2.37	9	4
26	Oilpalm (cost/ac)	1,20,600 per ac	9 x 9 m	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		
Varieties : Banganapalli, Mallika, Neelam, Totapuri		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	7.5 x 7.5 m	
No. of Plants	71	
System of Planting/ Layout	Square	



A : Expenditure Statement

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
pA	Labour					
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
	Sub-total	10800	5400	3900	4800	6000
B	Material					
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

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
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				
	Sub Total- B	8087	4055	4745	5973	7446
	Total A+B	18887	9455	8645	10773	13446
C	Miscellaneous Expenses/ contingency (10%) of A+B	1889				
D	Total Cost	20776	9455	8645	10773	13446
E	Number of years capitilisation (Years)	5				
F	Cost reckoned for unit cost	63095				
G	Capitilised Intercropping Cost					
H	Unit Cost	63100				

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 (₹/Kg)	20									
iv	Income (₹per acre) from Horticulture crop	0	0	0	7100	14200	28400	35500	42600	42600	49700

CROP : MANGO		
Varieties : Banganapalli, Mallika, Neelam, Totapuri		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	5.0*5.0	
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
A	Labour					
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
	Sub-total A	18550	8050	7000	8750	10150
B	Material					
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

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
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				
	Sub Total- B	31136	5912	8208	11244	12780
	Total A+B	49686	13962	15208	19994	22930
C	Miscellaneous Expenses/contingency (10%) of A+B	1000	1000	1000	1000	1000
D	Total Cost	50686	14962	16208	20994	23930
E	Number of years capitalization (Years)	5				
F	Cost reckoned for unit cost	126780				
G	Capitilised Intercropping Cost	0				
H	Unit Cost	126800				

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
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 (Rs/Kg)	15								
iv	Income (Rs per acre) from Horticulture crop	0	0	0	12000	24000	48000	84000	120000	144000

CROP : MANGO		
Varieties : Banganapalli, Mallika, Neelam, Totapuri		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	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
A	Labour					
1	Land Clearing & Development	3500	0	0	0	0
2	Layout and Digging of Pits	8750	1400	0	0	0
3	Filling of pits	4200	700	0	0	0
4	Planting & Plant Support (staking)	5600	700	0	0	0
5	FYM & Fertilizers Application	3500	3500	4200	4200	4200
6	Plant protection	2100	2100	2800	2800	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	2100	2100	2800
	Sub-total A	33250	15400	16800	17500	18900
B	Material					
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)	3392	6784	10176	13568	16960
7	K (kg)	1920	3840	5760	7680	9600

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
8	Irrigation (diesel/electricity/lumpsum requirements)	1500	1500	1800	1800	1800
9	Plant protection	1500	1500	1800	1800	1800
	Paclobutrazol cost (Rs./acre)	0	0	0	2304	3456
10	Live Fencing	2000	0	0	0	0
11	Cost of Drip Irrigation	24000	0	0	0	0
	Sub Total- B	67144	27448	31632	43280	50576
	Total A+B	100394	42848	48432	60780	69476
C	Miscellaneous Expenses/contingency (10%) of A+B	5020	2142	2422	3039	3474
D	Total Cost	105414	44990	50854	63819	72950
E	Number of years capitilisation (Years)	3				
F	Cost reckoned for unit cost	201258				
G	Capitilised Intercropping Cost	0				
H	Unit Cost	201300				

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	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 (Rs/Kg)	20								
iv	Income (Rs per acre) from Horticulture 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	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
A	Labour					
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
	Sub-total	32900	11900	15750	16800	17500
B	Material					
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	88337

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
K		1000	2000	3000	4000	5000
8	Irrigation (diesel/electricity/lumpsum requirements)	1200	1200	1200	1200	1200
9	Paclobutrazol cost (₹/acre)					
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
	Sub Total- B	51066	15933	17800	23867	27667
	Total A+B	83966	27833	33550	40667	45167
C	Miscellaneous Expenses/contingency (10%) of A+B	4198	1392	1588	2033	2258
D	Total Cost	88164	29225	35138	42700	47425
E	Number of years capitalisation (Years)	3				
F	Cost reckoned for unit cost	152526				
G	Capitalised Intercropping Cost	0				
H	Unit Cost	152500				

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	14	18	20	25	30
ii	Yield per unit (Kg/Acre)	0	0	1667	3333	4667	6000	6667	8333	10000
iii	Sale Price (₹ /Kg)	20								
iv	Income (₹ per acre) from Hortuculture crop	0	0	33333	66667	93340	120000	133340	166660	200000

CROP : MANGO		
Varieties : Banganapalli, Mallika, Neelam, Totapuri		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	3x2	
No. of Plants	666	
System of Planting/ Layout	Square	

A : Expenditure Statement

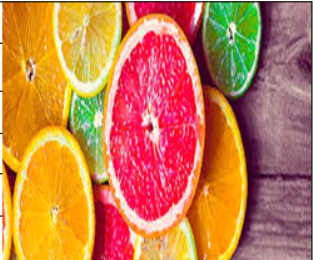
S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	5250	0	0	0	0
2	Layout and Digging of Pits	10500	1400	0	0	0
3	Filling of pits	5250	700	0	0	0
4	Planting & Plant Support (staking)	5250	700	0	0	0
5	FYM & Fertilizers Application	2800	3500	3500	3500	3500
6	Plant protection	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
	Sub-total A	36750	15400	16100	17500	18900
B	Material					
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

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
8	Irrigation (diesel/eelectricity/ lumpsum requirements)	2000	2000	2000	2000	2000
9	Plant protection	1700	1800	2000	2500	2500
10	Live Fencing	3000	0	0	0	0
11	Cost of Drip Irrigation	24000	0	0	0	0
	Sub Total- B	70394	29241	33171	45792	53384
	Total A+B	107144	44641	49271	63292	72284
C	Miscellaneous Expenses/ contingency (10%) of A+B	10714	4464	4927	6329	7228
D	Total Cost	117858	49105	54198	69621	79513
E	Number of years capitilisation (Years)	3				
F	Cost reckoned for unit cost	221161				
G	Capitilised Intercropping Cost	0				
H	Unit Cost	221200				

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	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

CROP : CITRUS		
Varieties : LIME/SWEET ORANGE		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	6*6	
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
A	Labour					
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
	Sub-total	15600	7200	7400	9400	10300
B	Material					
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

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
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
	Sub Total- B	8623	4554	4841	5690	6582
	Total A+B	24223	11754	12241	15090	16882
C						
D	Total Cost	24223	11754	12241	15090	16882
E	Number of years capitilisation (Years)	5				
F	Cost reckoned for unit cost	80190				
G	Capitilised Intercropping Cost	0				
H	Unit Cost	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 (₹/Kg)	15										
iv	Income (₹per acre) from Horticulture crop	0	0	0	16500	24750	41250	49500	57750	82500	99000	107250

CROP : GUAVA		
Varieties : Allahabad Safeda, Lalith, 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
A	Labour					
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
	Sub-total	9900	4500	3900	4500	4800
B	Material					
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

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
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				
	Sub Total- B	8544	3520	4159	4829	5699
	Total A+B	18444	8020	8059	9329	10499
C						
D	Total Cost	18444	8020	8059	9329	10499
E	Number of years capitilisation (Years)	4				
F	Cost reckoned for unit cost	43852				
G	Capitilised Intercropping Cost					
H	Unit Cost	43900				

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	12	15	17	20	25
ii	Yield per unit (Kg/Acre)	0	0	550	1100	1320	1650	1870	2200	2750
iii	Sale Price (₹/Kg)	12								
iv	Income (₹ per acre) from Horticulture crop	0	0	6600	13200	15840	19800	22440	26400	33000

CROP : GUAVA		
Varieties : Allahabad Safeda, Lalith, others		
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

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	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 4200	3500	3500	3500	
9	Harvesting, Carriage & Packaging Cost	0	0	1400	2100	3500
	Sub-total	35700	10850	11200	10500	13300
B	Material					
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

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
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
	Sub Total- B	49396	9597	10145	12216	14164
	Total A+B	85096	20447	21345	22716	27464
C						
D	Total Cost	85096	20447	21345	22716	27464
E	Number of years capitilisation (Years)	3				
F	Cost reckoned for unit cost	126889				
G	Capitilised Intercropping Cost					
H	Unit Cost	126900				

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 (₹ per acre) from Horticulture crop	0	0	24000	48000	57600	72000	96000

CROP : GUAVA		
Varieties : Allahabad Safeda, Lalith, others		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	3 MX 3 M	
No. of Plants	440	
System of Planting/ Layout	Square	

A : Expenditure Statement

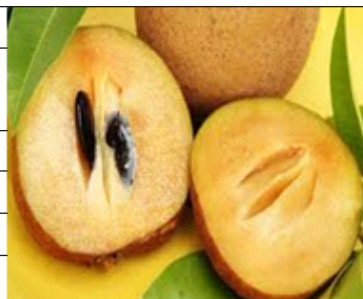
S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	3000	0	0	0	0
2	Layout and Digging of Pits	9000	600	0	0	0
3	Filling of pits	6000	600	0	0	0
4	Planting & Plant Support (staking)	6000	900	0	0	0
5	FYM & Fertilizers Application	2400	2400	3000	3000	3000
6	Plant protection	1200	1200	1800	1800	3000
7	Irrigation	1200	1200	1200		
8	Earthing up, Weeding, pruning & other Intercultural Operations	900	900	1500	1500	1800
9	Pruning and training	600	3000	3000	3000	3600
10	Harvesting, Carriage & Packaging Cost	0	0	1800	2400	3000
	Sub-total	30300	10800	12300	11700	14400
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	17600	1760	0	0	0
2	Farm Yard Manure	2200	2200	2200	2200	2200
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	602	1205	1807	2409	3012
6	P	4805	1866	2798	2798	3731
7	K	1144	2288	3432	4576	5720
8	Irrigation (diesel/electricity/lumpsum requirements)	800	1000	1200	1500	1500

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
9	Plant protection	440	300	400	400	600
10	Fencing	1000	0	0	0	0
11	Others if any (Specify)	23000	0	0	0	0
	Sub Total- B	51591	10618	11837	13884	16763
	Total A+B	81891	21418	24137	25584	31163
C		8189	2142	2414	2558	3116
D	Total Cost	90080	23560	26551	28142	34279
E	Number of years capitilisation (Years)	3				
F	Cost reckoned for unit cost	140192				
G	Capitilised Intercropping Cost	0				
H	Unit Cost	140200				

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	10	12	14	20	24
ii	Yield per unit (Kg/Acre)	0	0	4400	5280	6160	8800	10560
iii	Sale Price (₹/Kg)	15						
iv	Income (₹ per acre) from Hortuculture crop	0	0	66000	79200	92400	132000	158400

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
A	Labour					
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
	Sub-total	19950	7600	7800	8000	10800
B	Material					
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

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
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
	Sub Total- B	11272	9496	11760	14304	15520
	Total A+B	31222	17096	19560	22304	26320
C						
D	Total Cost	31222	17096	19560	22304	26320
E	Number of years capitilisation (Years)	5				
F	Cost reckoned for unit cost	116502				
G	Capitilised Intercropping Cost	0				
H	Unit Cost	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 & onwards
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 (₹/Kg)	12									
iv	Income (₹per acre) from Horticulture crop	0	0	0	9600	38400	57600	76800	96000	115200	134400

CROP : POMEGRANATE		
Varieties : GANESH, MRIDULA, BHAGUA, JALORE SEEDLESS		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	5Mx3M	
No. of Plants	270	

**A : Expenditure Statement**


S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	3500	0	0	0	0
2	Layout and Digging of Pits	8750	700	0	0	0
3	Filling of pits	4200	700	0	0	0
4	Planting & Plant Support (staking)	3500	350	0	0	0
5	FYM & Fertilizers Application	1400	1400	1400	2100	2100
6	Plant protection	1400	0	0	0	0
7	Irrigation	700	1050	1050	2800	2800
8	Earthing up, Weeding, pruning & other Intercultural Operations	2100	2100	2800	3500	4200
9	Harvesting, Carriage & Packaging Cost	0	0	1400	2100	2800
	Sub-total	25550	6300	6650	10500	11900
B	Material					
1	Planting Material (including transportation) - Seedling/ Rootstock	18900	1890	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

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
8	Irrigation (diesel/electricity/lumpsum requirements)	1000	1000	1000	1500	1500
9	Plant protection	1800	2000	2500	2500	2500
10	Fencing	1000	0	0	0	0
11	Others if any (Specify) Drip Irrigation	20000	0	0	0	0
	Sub Total- B	49558	15299	13909	17109	19809
	Total A+B	75108	21599	20559	27609	31709
C	Misc. Expenses @5%	3755	1080	1028	1380	1585
D	Total Cost	78863	22678	21586	28989	33294
E	Number of years capitalization (Years)	3				
F	Cost reckoned for unit cost	123128				
G	Capitilised Intercropping Cost	0				
H	Unit Cost	123100				

Yield Parameters

S. No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr & Onwards
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 : GOLLA, UMRAN,		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	5Mx5M	
No. of Plants	160	
System of Planting/ Layout	Square	


A : Expenditure Statement

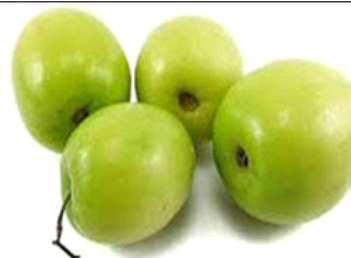
S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	2400				
2	Layout and Digging of Pits	4800	600			
3	Filling of pits	1500	300			
4	Planting & Plant Support (staking)	900	300			
5	FYM & Fertilizers Application	600	600	900	900	900
6	Plant protection	600	600	600	600	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
	Sub-total	13800	4800	4200	3600	4200
B	Material					
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

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
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				
	Sub Total- B	11164	4140	4520	4144	5600
	Total A+B	24964	8940	8720	7744	9800
C						
D	Total Cost	24964	8940	8720	7744	9800
E	Number of years capitilisation (Years)	4				
F	Cost reckoned for unit cost	50368				
G	Capitilised Intercropping Cost					
H	Unit Cost	50400				

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 (₹/Kg)	10								
iv	Income (₹ per acre) from Horticulture crop	0	0	0	16000	24000	40000	64000	104000	128000

CROP : APPLE BER		
Varieties : GOLLA, UMRAN,		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	4.5mx3m	
No. of Plants	300	
System of Planting/ Layout	Square	

**A : Expenditure Statement**

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
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
	Sub-total	20400	14100	13500	12900	13800
B	Material					
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	390
6	P	3315	1590	2385	3180	3315
7	K	390	780	1170	780	390

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
8	Irrigation (diesel/electricity/lumpsum requirements)	800	800	800		800
9	Plant protection	300	300	400	400	300
10	Fencing	5000	0	0	0	5000
11	Others if any (Specify)	900	0	0	0	900
	Sub Total- B	30595	7550	7425	7420	30595
	Total A+B	50995	21650	20925	20320	50995
C						
D	Total Cost	50995	21650	20925	20320	23775
E	Number of years capitilisation (Years)	2				
F	Cost reckoned for unit cost	72645				
G	Capitilised Intercropping Cost	0				
H	Unit Cost	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 (₹/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	



A : Expenditure Statement

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	2100				
2	Layout and Digging of Pits	14400	400	400		
3	Filling of pits	3000	200	200		
4	Planting & Plant Support (staking)	3600	200	200		
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	2400	2400	2400	2400	2400
9	Harvesting, Carriage & Packaging Cost	3500	3500	3500	900	1500
	Sub-total	32600	10300	10300	6200	6800
B	Material					
1	Planting Material (including transportation) - Seedling/ Rootstock	20580	2058	2058		
2	Farm Yard Manure	7350	7350	7350	7350	7350
3	Vermicomposting					
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	2012	2012	2012	2012	2012
6	P	2337	2337	2337	2337	2337
7	K	3822	3822	3822	3822	3822

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
8	Irrigation (diesel/electricity/ lumpsum requirements)	1000	1000	2000	2000	2000
9	Plant protection	300	300	300	400	600
10	Fencing					
11	Staking / Propping					
	Bamboo poles (@ 2 poles per plant) - Rs.10 /- per pole	22500				
	Labour for fixing poles including rope, etc.	2500				
	Sub Total- B	62402	18880	19880	17922	18122
	Total A+B	95002	29180	30180	24122	24922
C	Misc. Expenses (LS)	700				
D	Total Cost	95702	29180	30180	24122	24922
E	Number of years capitilisation (Years)	1				
F	Cost reckoned for unit cost	95702				
H	Unit Cost	95700				

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 (₹/Kg)	1
iv	Income (₹ per acre) from Horticulture crop	92600

CROP : AONLA		
Varieties : NA7, AMRIT (Na6), KANCHAN, BSR-1 (Pharmaceutical use), others		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	6MX 6 M	
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
A	Labour					
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
	Sub-total	9002	5104	6600	7200	8400
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	750 2	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		

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
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
	Sub Total- B	6994	2728	3214	2681	2881
	Total A+B	15996	7832	9814	9881	11281
C						
D	Total Cost	15996	7832	9814	9881	11281
E	Number of years capitilisation (Years)	4				
F	Cost reckoned for unit cost	43523				
G	Rounded					
H	Unit Cost	43500				

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 (₹Kg)	10							
iv	Income (₹ per acre) from Hortuculture crop	0	0	5500	16500	22000	33000	38500	44000

CROP : CASHEW		
Varieties : BPP1 to 6, BPP -8 & 9		
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
A	Labour					
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
	Sub-total	8100	3600	3600	3900	5700
B	Material					
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

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
9	Plant protection	300	300	400	400	600
10	Fencing	1000				
11	Others if any (Specify)					
	Sub Total- B	6448	2753	3297	4345	4696
	Total A+B	14548	6353	6897	8245	10396
C						
D	Total Cost	14548	6353	6897	8245	10396
E	Number of years capitilisation (Years)	5				
F	Cost reckoned for unit cost	46440				
G	Capitilised Intercropping Cost					
H	Unit Cost	46400				

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	0	0	2	5	8	10
ii	Yield per unit (Kg/Acre)	0	0	0	0	220	550	880	1100
iii	Sale Price (₹/Kg)	35							
iv	Income (₹ per acre) from Horticulture crop	0	0	0	0	7700	19250	30800	38500

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

**A : Expenditure Statement**

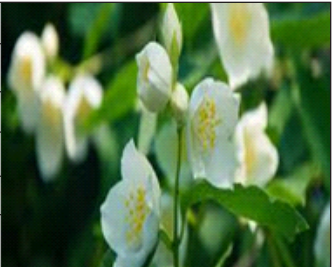
S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	2100				
1	Land Clearing & Development	2100				
2	Layout and Digging of Pits	1800	600			
3	Filling of pits	600	300			
4	Planting & Plant Support (staking)	600	300			
5	FYM & Fertilizers Application	600	900	900	900	900
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					
	Sub-total	9000	5700	4500	4500	4500
B	Material					
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

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
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)					
	Sub Total- B	8212	3651	3926	4778	5532
	Total A+B	17212	9351	8426	9278	10032
C						
D	Total Cost	17212	9351	8426	9278	10032
E	Number of years capitilisation (Years)	5				
F	Cost reckoned for unit cost	54299				
G	Capitilised Intercropping Cost					
H	Unit Cost	54300				

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 (₹/Kg)	5										
iv	Income (₹ per acre) from Horticulture crop	0	0	0	0	7100	14200	21300	30175	35500	39050	42600

CROP : JASMINE		
Varieties : J. sambac / Gundumalle		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	1.5mx1.5m	
No. of Plants	1780	
System of Planting/ Layout	Square	


A : Expenditure Statement

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
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
	Sub-total	27400	23600	32500	41800	42400
B	Material					
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/eelectricity/lumpsum requirements)	1000	1500	2000	2000	2000

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
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
	Sub Total- B	41801	19941	20541	24101	27861
	Total A+B	69201	43541	53041	65901	70261
C	Misc. Expenses (LS)					
D	Total Cost	69201	43541	53041	65901	70261
E	Number of years capitilisation (Years)	1				
F	Cost reckoned for unit cost	69201				
G	Capitilised Intercropping Cost	0				
H	Unit Cost	69000				

Yield Parameters

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

CROP : FIG		
Varieties : Pune fig		
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
A	Labour					
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
	Sub-total	10500	5400	5300	5600	6800
B	Material					
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/eelectricity/ lumpsum requirements)	500	750	1000	2000	2000

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
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
	Sub Total- B	9228	6385	9763	12591	15418
	Total A+B	19728	11785	15063	18191	22218
C	Misc. Expenses (LS)					
D	Total Cost	19728	11785	15063	18191	22218
E	Number of years capitilisation (Years)	3				
F	Cost reckoned for unit cost	46576				
G	Capitilised Intercropping Cost	0				
H	Unit Cost	46600				

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	3	5	7	9	11	13
ii	Yield per unit (Kg/Acre)	0	480	800	1120	1440	1760	2080
iii	Sale Price (₹/Kg)	25						
iv	Income (₹per acre) from Hortuculture crop	0	12000	20000	28000	36000	44000	52000

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

A : Expenditure Statement

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

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
9	Plant protection	1000	0	0	0	0
10	Fencing	3000	0	0	0	0
11	Others if any (Specify)	18428	6713	7627	10232	11274
	Sub Total- B	37028	14813	16327	18932	20874
	Total A+B					
C						
D	Total Cost	37028	14813	16327	18932	20874
E	Number of years capitilisation (Years)	3				
F	Cost reckoned for unit cost	68167				
G	Capitilised Intercropping Cost	0				
H	Unit Cost	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 (₹/Kg)	15						
iv	Income (₹ per acre) from Hortuculture crop	0	0	12000	24000	36000	43200	48000

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

A : Expenditure Statement

S.No	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
	Sub-total	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

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
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
	Sub Total- B	31755	11826	13153	17764	19547
	Total A+B	58455	21426	23953	27664	31847
C						
D	Total Cost	58455	21426	23953	27664	31847
E	Number of years capitilisation (Years)	3				
F	Cost reckoned for unit cost	103835				
G	Capitilised Intercropping Cost	0				
H	Unit Cost	103800				

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 (₹per acre) from Horticulture crop	0	0	24000	48000	57600	72000	96000

CROP : CUSTARD APPLE		
Varieties : NMK -1		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	2.5M* 2.5M	
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
A	Labour					
1	Land Clearing & Development	15000	1200	0	0	0
2	Layout and Digging of Pits	9000	1200	0	0	0
3	Filling of pits	4500	600	0	0	0
4	Planting & Plant Support (staking)	1800	1800	1800	1800	2400
5	FYM & Fertilizers Application	1200	1200	1800	1800	2400
6	Plant protection	3600	3600	4500		
7	Irrigation	1500	1500	1800	1800	1800
8	Earthing up, Weeding, pruning & other Intercultural Operations	1200	1200	1800	1800	1800
9	Pruning and training	0	0	2400	2400	3000
10	Harvesting, Carriage & Packaging Cost	42300	12300	14100	9600	11400
	Sub-total					
B	Material	38400	3840	0	0	0
1	Planting Material (including transportation) - Seedling/Rootstock	6400	6400	6400	6400	6400
2	Farm Yard Manure	0	0	0	0	0
3	Vermicomposting					
4	Other concentrated manures (Bonemeal, fish meal etc)	2190	2190	2190	3505	3505
5	N	4240	4240	4240	8480	8480
6	P	2080	2080	2080	4160	4160
7	K	5000	5000	8000	10000	10000
8	Irrigation (diesel/electricity/lumpsum requirements)	300	600	900	1200	1500

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
9	Plant protection	5000	0	0	0	0
10	Fencing	5000	0	0	0	0
11	Others if any (Specify)	68610	24350	23810	33745	34045
	Sub Total- B	110910	36650	37910	43345	45445
	Total A+B					
C						
D	Total Cost	110910	36650	37910	43345	45445
E	Number of years capitilisation (Years)	3				
F	Cost reckoned for unit cost	185471				
G	Capitilised Intercropping Cost	0				
H	Unit Cost	185500	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	6	8	12	15	15
ii	Yield per unit (Kg/Acre)	0	0	3840	5120	7680	9600	9600
iii	Sale Price (₹/Kg)	15						
iv	Income (₹ per acre) from Horticulture crop	0	0	57600	76800	115200	144000	144000

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



A : Expenditure Statement

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
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
	Sub-total	25100	10900	10900	6200	6800
B	Material					
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

S. No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
9	Plant protection	300	300	300	400	600
10	Fencing				0	0
11	Staking / Propping				0	0
	Bamboo poles (@ 2 poles per plant) - ₹10 /- per pole	0				
	Labour for fixing poles including rope, etc.	0				
	Sub Total- B	13692	8886	9886	11232	11432
	Total A+B	38792	19786	20786	17432	18232
C	Misc. Expenses (LS)					
D	Total Cost	38792	19786	20786	17432	18232
E	Number of years capitilisation (Years)	1				
F	Cost reckoned for unit cost	38792				
H	Unit Cost	38800				

Yield Parameters

S. No.	Yield & Price - Assumption	1 Yr	2 Yr
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

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



- 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, Maharastra, 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 adopts 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 @Rs.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
	Unit Cost capitalized (2 years)	661500	

Yield and income parameters:

S. No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr
i	Yield per tree (Kg)	0	0.9	1.25	1.8
ii	Yield per unit (Kg/Acre)	0	2304	3200	4608
iii	Sale Price (₹/Kg)	100			
iv	Income (₹ 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

SL No	Item of the Investment	Amount (₹)	Remarks
1	Cost of construction of Pandal		
a	Poles (200/acre) @	70000	₹200 per acre -350 poles stone pillars
b	Cost of GI wire	112500	15 q per acre @ ₹7500/q
	Total material cost	182500	
c	Labour cost	36500	20 % of material cost
	Total cost	220000	Rounded off
d	Capitalized cost of cultivation	30000	Per acre
	Total Unit cost	250000	

CROP : Oil Palm		
Varieties : NMK -1		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	9mX9M	
System of Planting/ Layout	Square	

A : Expenditure Statement

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Material Cost					
1	Land preparation and levelling	5000				
2	Internal road formation for transportation	0				
3	Planting material (incl.10% extra during 1st year)	6270	660			
4	Farm yard manure	4275	6413	6413	6413	6413
5	Fertilisers					
a	Urea	298	595	893	893	893
b	Single Super Phosphate	321	641	962	962	962
c	Murate of Photash	228	456	684	855	855
d	Micro nutrients - Megnesium (MgSO ₄)	71	143	285	285	285
e	Micro nutrients - Boran (Borax)	64	128	257	257	257
6	Plant Protection Chemicals	500	500	700	700	700
7	Herbicide cost	500	500	500	500	500
8	Drip irrigation system	24000	0	0		
	Sub-total	41527	10036	10692	10863	10863
B	Operation and Labour	14000	8400	8400	9100	9800
C	Pruning,Harvesting charges etc				3000	6000
D	Misc. Costs (₹)	1000	1000	1000	1000	1000
	TOTAL (rounded off)	56500	19400	20100	24000	26700
	Unit cost capitalised upto the year	4				
	Indicative Unit cost	120000				

Polyhouse/Shadenet

Sl. No.	Name of the Scheme	Slab	Unit Cost/sq. mts in ₹	Total Cost (in ₹ Lakhs)
1	Construction of Flat Roof Net House with	2025	538	10.89
	Cable purlin	965	488	19.35
2	Small Net House	450	550	3.22

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

Sl. No.	Item/Activity	Amount (in ₹)
A	Farm Sector	
1	Sericulture (Mulberry Cultivation V 1 Variety, with one year maintenance)	50,000
2	Construction of Rearing Shed (50ft, 20ft, 15ft)	5,00,000
3	Purchase of rearing equipment	75,000
4	Rearing Cost	18,000
B	Non Farm Sector	
1	Motorized Charkas	13,000
2	Improved Cottage basin unit	3,54,000
3	Multi end reeling unit	
a	6 Basins	11,05,000
b	10 Basins	14,05,000
c	Automatic reeling units-400 ends	13,50,000
4	Twisting unit	7,86,000
5	Working capital for the reeling unit	50000 per basin
6	Reeling Shed for 10 Basin MERU's	7,20,000

Chawkie Rearing Centre:

Sr. No.	Details	Unit size	Unit Cost (₹)
1	Mulberry garden establishment	2 acre	1,20,000
2	Rearing equipments	5000 DFLs per batch	6,17,000
3	Rearing house & incubation chamber	1000 sft + 200 sft	7,20,000
4	Rearing cost for first batch		1,80,300*
5	Total cost		16,37,300

*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.

Sl No	Activity	Cost
1	10 Basin multi end silk reeling centre (MERU)	17,09,000
2	Construction of Silk reeling shed for MERU	7,20,000
3	Automatic reeling unit 400 Ends ARM	1,41,02,000
4	Construction of Silk reeling shed for 400 ends	28,80,000
5	Automatic reeling unit 200 Ends ARM	79,83,000
6	Construction of Silk reeling shed for 200 ends	14,40,000
7	Establishment of 480 spindles twisting unit	10,04,000

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</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</p>

<p>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 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</p> <p>Govt/ Commodity Board. Etc</p>	<p>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 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>
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F. FISHERIES

Unit Cost of Fisheries Investments

Sl	Activity	Capital Cost	Recurring Activity	Recurring Cost	Total
1	Semi Intensive fish culture 1 ha.	700000		400000	1100000
	Ground cleaning, de-weeding, Levelling etc.,	25,000	Pond Preparation, lime, zeolites,etc		
	Earthwork excavation , Construction of bund	3,00,000		30,000	
	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/ , 1 Nos	35,000	Formulated fish feed @Rs.30/Kg* 6.37 MT	1,90,000	
	Nets and accessories	30,000	Manpower @ 8500pm for 10 months	85,00	
	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	Fish Seed Rearing unit 1 ha.	7,00,000		1,50,000	8,50,000
	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	

Unit Cost 2021-22

Sl	Activity	Capital Cost	Recurring Activity	Recurring Cost	Total
	Inlet, outlet and sluice structure	40,000	Micro nutrients	500	
	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	
			Power Charges etc,	10000	
3	Fishermen Societies members /Licence Holders (Reservoir Fishermen)	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	
			Total	30,000.00	
4	Marketing support to Fishers	NIL	Purchase of fish local @ 30 Kgs per day	21,000.00	
			Purchase of Ice	3,150.00	
			Transportation and other incidental charges	850	
			Total	25,000.00	
5	Re-Circulatory Aquaculture System units - 10 tons capacity	18,00,000		7,00,000	25,00,000
	Land required (acres)		Seed cost @ ₹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	18,00,000	Manpower	48,000	
	Water supply system and Water filtration system for all tanks as mentioned above				

Sl	Activity	Capital Cost	Recurring Activity	Recurring Cost	Total
	Effluent plant		Miscellaneous		
	Equipment for transfer from one tank to other, harvest, crates, etc.				
	Gen set			6,000	
6	Ice Plant with capacity of (10) tonnes	1900000		600000	2500000
	Complete 10 TPD tube ice plant	1900000	Electricity	3,00,000.00	
			Wages for 3 persons @Rs 600/day	2,00,000.00	
			Maintenance	1,00,000.00	
7	Feed Mill Small (1-5 Quintals/day)	10,00,000		500000	1500000
	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	Pen culture one Hectare	2,00,000		50,000	2,50,000
	Pen material with erection charges	2,00,000	Seed (60000 fry @ ₹100/1000 fry for fingerlings rearing)	6,000	
			Feed	25,000	
			Wages	13,000	
			Harvesting and Packaging expenses	6,000	
9	Cage culture One Unit (6x4x4 Sqr.M)	150000		150000	300000
	Seed (5000 X Rs. 3/-)	150000	Seed (5000 X Rs. 3/-)	15,000	
			Feed	1,20,000	
			Wages	15,000	
10	Establishment of Fish seed Hatchery One Unit of 2 Ha	22,00,000		3,00,000	25,00,000
	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	

Unit Cost 2021-22

Sl	Activity	Capital Cost	Recurring Activity	Recurring Cost	Total	
	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				
11	Medium scale ornamental Fish rearing and Aquarium Units One Unit	5,25,000		1,75,000	7,00,000	
	Cement Tanks (5000 litres) @₹4.5 litre	2,00,000	Purchase of brooder fish 1000 no's both male and female	25,000		
	Shed	1,50,000	Feed 500 kg/year @ ₹ 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	0,000		

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	Teak	72500	7 yrs	4
2	Bamboo	43600	8 yrs	5
3	Casuarina	71400	4 yrs	3
4	Subabul	66300	4 yrs	3
5	Eucalyptus (Clonal)	58700	6 yrs	5

H. MEDICINAL AND AROMATIC PLANTS

The major crops cultivated and the unit cost is as under

Sl No	Activity	Local Name	Revised Cost (2020-21)
1	Acorus calamus Linn.	Vasa	109393.89
2	Aloe vera (Linn.)	Kalabanda	74387.85
3	Andrographis paniculata (Linn)	Nelavemu	43757.55
4	Asparagus racemosus Willd	Pillitheegalu	109393.89
5	Azadirachta indica A.Juss	Vepa	65636.34
6	Cassia angustifolia Vahl.	Nela Thangedu	43757.55
7	Catharanthus roseus	Billaganneru	43757.55
8	Coleus barbatus Benth. Syn.	Pashanabedhi	75262.99
9	Emblica officinalis Gaertn.	Usiri	113769.65
10	Gymnema sylvestre R.Br.	Podapathri	43757.55
11	Hemidesmus indicus R.Br.	Sugandhapala	61260.57
12	Mucuna prurita Linn.	Dhulagondi	35006.04
13	Ocimum sanctum Linn.	Tulasi	52509.06
14	Phyllanthus amarus Schum & Thonn.	Nela Usiri	48133.31
15	Piper longum Linn.	Pippallu	109393.89
16	Stevia rebaudiana	Stevia	165770
17	Tinospora cordifolia Miers	Thippatheega	48133.31
18	Withania somnifera (Linn.) Dunal	Pinneru gaddalu	43757.55
19	Aegle marmelos (Linn) Corr.	Maredu	70012.09
20	Gloriosa Superba Linn.	Adavinabhi	240666.56
21	Gmelina arborea Linn.127	Gummadi Teak	78763.6
22	Rauwolfia serpentine Benth. Ex Kurz	Pathalagaridi	109393.89
23	Saraca asoca (Roxb.) De Wilde	Ashoca	109393.89
24	Pterocarpus santalinus	Yerra Chandanam	98892.07
25	Santalum album 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
1	Dairy				Banks may ensure that -
a.	Two animal unit				
	i. Cross Bred Cows	1+1	Cost of 2 CBCs (₹75000/animal) Transport cost (₹1500/animal) Equipment 2000 Feed Cost for 1 month (1 animal) 2600 Insurance (@4.5%) 7200 Vety Aid 3000 Total 167800	5 Years (monthly/quarterly instal-ments)	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
	ii. Graded Murrah Buffaloes (GMB)	1+1	Cost of 2 GMBs (₹ 85000/animal) Transport cost (₹1500/animal) Equipment 2000 Feed Cost for 1 month (1 animal) 2600 Insurance (@4.5%) 7600 Vety Aid 3000 Total 188200	5-6 Years (monthly/quarterly instal-ments)	There is an interval of 6 months between purchase of two animals / batches, so as to ensure continuity in milk production Linkages in respect of training, breeding & vety care, feed, fodder, medicines and marketing are adequate
b.	Mini Dairy (CB cows)	5 animals (3+2)	Shed (5 animals, 40 sq.ft./animal ₹90/sq.ft. Thatch roof) Shed (3 calves, 30 sq.ft./animal ₹90/sq.ft. Thatch roof) Transportation cost (₹1500/animal) Cost of equipments (₹1000/animal) Cost of animals (₹75000/animal) Feed for 1 month for 1 batch 7800 Fodder cultivation (0.5 acre) 8500 Insurance (@4.5%) 16875	5-6 Years (monthly/quarterly instal-ments)	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 are insured, preferably under a long term master policy.

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions
			Veterinary aid (₹1500/animal) for I batch Total Say		
			4500 451275 451300		
c.	Mini Dairy (GMB)	5 animals (3+2)	Shed (5 animals, 40 sq.ft/animal) ₹90/sq.ft; Thatch roof Shed (3 calves; 30 sq ft/animal) ₹90/sq.ft; Thatch roof Transport cost (₹1000/animal) Cost of equipment (₹ 1000/animal) Cost of animals – CB cows (₹85000/animal) Feed for 1 month for I batch Fodder cultivation (0.5 acre) Insurance (@4.5%) Veterinary Aid (₹1500/animal) for I batch Total for GMB unit Say	5-6 Years (monthly/quarterly instalments)	Banks can finance hand operated Milking Machines for Mini dairy units. Farmer cultivate green fodder (especially mini/commercial dairies, at least 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. 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
			18000 8100 7500 5000 425000 7500 8500 19125 4500 503225 503200		
d.	Mini Dairy (CB cows)	10 animals (5+5)	Shed (5 animals, 40 sq.ft/animal) ₹90/sq.ft; AC sheet roofing Shed (3 calves, 30 sq.ft/animal) ₹90/sq.ft; AC sheet roofing Transportation cost (₹1500/animal) Cost of equipments (₹1000/animal) Cost of animals		route, arrangements could be explored for recoveries through proper tie-up.
			60000 22500 15000 10000 750000		

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions	
e.	Mini Dairy (GMB)	10 animals (5+5)	(₹75000/animal)	5-6 Years (monthly instalments)		
			Feed for 1 month for I batch			13000
			Fodder cultivation (0.5 acre)			17000
			Insurance(@4.5%)			33750
			Veterinary aid (Rs.1500/animal) for I batch			7500
			Total			928750
			Say			928800
			Note: Additional cost for water source, chaff cutter, milking machine etc., can be considered subject to viability			
			Shed for adults (10 animals, 40 sq. ft / animal: ₹150/sq. ft; AC Sheet roofing)			60000
			Shed for calves (30 sq. ft/calf: ₹\150/sq. ft; AC shed; 5 calves)			22500
			Transport cost (₹1500/animal)			15000
			Cost of equipment (₹1000/animal)			10000
			Cost of animals – GMB (₹85000/ animal)			850000
Feed for 1 month for I batch	13000					
Fodder cultivation (1 acre)	17000					
Insurance (@4.5%)	38250					
Veterinary Aid (₹1500/animal) for I batch	7500					
Total for GMB unit	1033250					
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																					
f.	Commercial Dairy	Any Size	<p>Depending upon the size of the unit. Indicative costs for various items of investments are -</p> <ol style="list-style-type: none"> 1. Cost of CBC - ₹5300-5800/Litre Per day (LPD); GMB ₹7200-7700/LPD; Cost of equipment - ₹ 500/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 - ₹90/sq.ft-Thatched Roof; ₹150/sq.ft-Asbestos roof 4. Fodder cultivation - 1 ac/10 animals; ₹17000/acre 5. Feed cost to be capitalised for the first batch of animals @ ₹2300/animal; Insurance cost - actual (4.5% of animal cost assumed); Veterinary aid - ₹1200/animal 6. Other investments like feed store, milk shed, chfai cutter, minor irrigation structures for fodder unit, water supply system, milking machines, fencing, cost of bulls / AI unit, feed mixing unit etc., may be considered based on need and subject to viability. 																							
g.	Female Calf Rearing	1 no.	<table border="1"> <tr> <td>Cost of Calf*</td> <td>Own</td> <td></td> </tr> <tr> <td>Cost of feed for 23 months (1620 kg) for CB calves</td> <td></td> <td>24300</td> </tr> <tr> <td>Cost of feed for 40 months (1900 kg) for Buffalo calves</td> <td></td> <td>28500</td> </tr> <tr> <td>Veterinary Aid</td> <td></td> <td>2,000</td> </tr> <tr> <td>Insurance</td> <td></td> <td>1,000</td> </tr> <tr> <td>Total for CB calf</td> <td></td> <td>27300</td> </tr> <tr> <td>Total for Buffalo calf</td> <td></td> <td>31500</td> </tr> </table> <p>* for large units the cost of calf can also be included.</p>	Cost of Calf*	Own		Cost of feed for 23 months (1620 kg) for CB calves		24300	Cost of feed for 40 months (1900 kg) for Buffalo calves		28500	Veterinary Aid		2,000	Insurance		1,000	Total for CB calf		27300	Total for Buffalo calf		31500	<p>5 years including 2 years grace</p>	<p>Banks may ensure that -</p> <ol style="list-style-type: none"> 1. Cross bred calves of Jersey & HF and Murrah /Graded Murrah Buffalo calves are supported.
Cost of Calf*	Own																									
Cost of feed for 23 months (1620 kg) for CB calves		24300																								
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Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions
h.	Fodder Cultivation	1 acre	Cost of land preparation -Ploughing (3 pairs of bullocks; ₹500/pair) 1,500 Forming ridges (1 pair of bullocks; ₹500/pair) 500 Planting Material Stem cuttings of Co 1/3 (13500 slips; ₹ 200/1000) 2,700 Desmanthus seed (1.3 kg/acre; ₹100/kg) 130 Farm Yard Manure (5 tons/acre; ₹300/ton) 1,500 Fertilizer (Basal dose-50:50:10 kg of NPK; Top dressing-40 kg) 2,040 Cost of application of FYM and Fertilizer (5 man days/acre; ₹100/day) 500 Cost of Planting (12 man days/acre; ₹100/day) 1,200 ₹100/day)	5 Year	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 buffalocalves. 3. Linkages in respect of training, breeding & vety care, feed, fodder, medicines and marketing are adequate 4. Beneficiary follows the schedules regarding deworming and vaccination against prevalent diseases (HS, BQ, FMD etc) with the help of local vet. 5. The activity can be integrated with milch animal financing. Improved varieties of Hybrid Napier (CO-3, 4, 5, APBN-1 and 2), maize, etc. may be encouraged.

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions
			Cost of weeding (5 pair of bullocks/acre; ₹500/pair) 2,500		
			Cost of irrigation (1 man day/irrigation; 15 irrigations/acre) 1,500		
			Cost of cutting (12 man days/cutting; 2 cuttings/acre) 2,400		
			Miscellaneous 690		
			Total Financial Outlay 17,160		
2	Sheep Rearing				
a	i. Breeding unit - Nellore breed	20+1	Cost of Ram 12000 Cost of Ewes (₹. 6000/animal) 124000 Cost of feeding for one cycle 11700 Cost of Insurance (7.5% of 3 years) 10200 Cost of Veterinary Aid 2100 Total 160000 *Cost of thatched shed may be considered on need basis	6 Years including 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 & vety 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,
	ii. Breeding unit - Nellore breed	10+1	Cost of Ram 12000 Cost of ewes (₹ 6000/animal) 60000 Cost of feeding for one cycle 5850 Cost of Insurance (7.5% for 3 years) 5400 Cost of Veterinary Aid 660 Total 83910 Say 83900 *Cost of thatched shed may be considered on need basis		

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions	
b	I. Breeding unit - Deccani breed	20+1	Cost of Ram	10000	6 years including 1 year grace period	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. 5750/animal)	115000		
			Cost of feeding for one cycle	9000		
			Cost of Insurance (7.5% for 3 years)	9375		
			Cost of Veterinary Aid	2100		
Total	145475					
	Say	145500				
	*Cost of that shed may be considered on need basis					
ii.	Ram Lamb Fattening	20/ batch	Cost of Lambs (20Nos) Cost of Feeding Cost of Veterinary Aid Total	60000 2800 1000 63800		
3 a	Goat Rearing Unit - Osmanbadi breed/ Improved desi	20+1	Cost of Buck	9000	6 years including 1 year grace period	Banks may ensure that - a) Good quality animals (Osmanbadi)/ improved desi, aged around 10 to 14 months may be financed b) Linkages in respect of training, breeding & vety care, feed, grazing area, medicines and marketing are adequate c) Local veterinarian's advise 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
			Cost of Does (₹ 5750 each)	115000		
			Cost of feeding for one cycle	5665		
			Cost of Insurance (7.5% for 3 years)	9300		
			Cost of Veterinary Aid	1260		
Total	140215					
	Say	140200				
b	Rearing Unit - Osmanbadi breed/ Improved desi	10+1	Cost of Buck	9000	6 years including 1 year grace period	
			Cost of Does (₹ 5750 each)	57500		
			Cost of feeding for one cycle	3023		
			Cost of Insurance	4988		

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions
			Tricycle for kitchen waste collection, water supply and Equipment 29000 Cost of feeding adults and growers 149611 Cost of Insurance (6%) 2760 Cost of Veterinary Aid 4200 Miscellaneous incl. equipment, water facility, garbage collection etc., 8300 Total ₹336171 Say ₹336200		vaccination with the help local veterinarian and experts of Animal Husbandry Department. g) As per PR and Municipal Act, free roaming of pigs is prohibited and the same has to be ensured.
c	Fattener unit	10	Cost of piglets 20000 Cost of shed (12.5 sq.ft./piglet) 11250 Cost of feed 5670 Miscellaneous 1500 Total ₹38420 Say ₹38400		
5	Poultry				
a	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 ₹ 90 /sq.ft / shed with asbestos roof and local material – ₹150 /sq. and Equipment (₹11-13/broiler)	6-8 years	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.
b	Independent broiler units	Large Units	Indicative costs - Cost of Shed Construction - Asbestos – ₹190-210 /sq.ft., thatched roof	05 Years	Banks may ensure that - a) Extreme care is taken in financing independent broiler units as more

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions
			₹90/sq.ft, Equipment - ₹11-13/broiler; Cost of DOC - ₹30-34 Cost of Feed - ₹24-26/kg Cost of Misc. Expenses - ₹10/bird (₹320-353/bird)		broiler production is coming under contract 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.
c	Layer	Any size preferably over 50000 birds	Any Size preferably over 50000 birds Depends upon the size - Cost of Shed Construction - Raised Platform with asbestos sheet - ₹250-270/sq.ft; Cost of Equipment - (dep. upon quotation) - i. Cage system - ₹60/brooder & grower; ₹80/layer Cost of DOC - ₹36; Cost of Feed - ₹18-20 (brooder) / ₹16-18 (grower mash) / ₹15-17 (layer mash) per kg; Cost of Misc expenses - ₹12 upto point of lay; ₹12 during lay (₹545-590/bird)	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
6	Plough Bullocks and Bullock Carts				
a	Plough Bullocks	1 pair	A. Non Descript (medium size) : ₹36,000 (incl insurance) B. Hallikar Bullocks : ₹60,000 (incl insurance)	5 years	Demand is mainly in sugarcane areas for transport of cane to mills
b.	Bullock Carts	1 no.	A. Pneumatic Tyre carts (3 T) : ₹42,900 B. Carts of flocal make / wooden: ₹36,400	5 years	

J. Cluster Officers/DDMs

Sr. No	Name of the Officer (Shri/Smt)	UIN	Name of the Cluster	Name of the Tagged District / Districts	Email address of the Officer	Designation (DDM)	Mobile Number
1	Shivi Sharma	12346	Adilabad	Adilabad and Nirmal	shivis@nabard.org	Manager / COIC *	7045758873
2	M Rajashekar Reddy	12315		KB Asifabad and Mancheril	rajasekhara.rm@nabard.org	Manager	8732236593
3	P Ananth	3816	Karimnagar	Karimnagar and Peddapalli	patnana.ananth@nabard.org	AGM / COIC	9040670756
4	P Manohar Reddy	12686		Rajanna Sirilla and Jagtial	papasani.reddy@nabard.org	Manager	9652799879
5	Sujith Kumar Lunavath	12619	Khammam	Khammam and Bhadradi Kothagudem	sujith.lunavath@nabard.org	Manager	7735776441
6	M V S S Srinivas	6495		Jogulamba Gadwal, Mahboobnagar	mvss.srinivas@nabard.org	AGM / COIC	9987510974
7	T Nagarjuna	12320	Mahboobnagar	Nagarurnool, Wanaparthi and Narayanpet	nagarjuna.t@nabard.org	Manager	9381695048
8	Cecil Timothy D	3488		Medak and Siddipet	cecil.d@nabard.org	AGM / COIC	9163386833
9	M Venkat Krishna Teja	12464	Sangareddy	Sangareddy	venkata.ktm@nabard.org	Manager	9948512331
10	N Satyanarayana	6498		Suryapet	n.satyanarayana@nabard.org	Manager / COIC	9441634033
11	M Vinay Kumar	12468	Nalgonda	Nalgonda and Yadadri Bhuvanagiri	vinay.km@nabard.org	Manager	9966785678
12	Nagesh G Kotlawar	3689		Nizamabad and Kamareddy	nagesh.kotlawar@nabard.org	AGM	9454362154
13	L Chandrasekhar	3715	Warangal	Warangal Urban and Jangaon	chandrasekhar.l@nabard.org	AGM / COIC	9497351536
14	V Chaitanya Ravi Thanga	12363		Jayashankar Bhupallapally and Mulugu	thanga.vcr@nabard.org	Manager	8297323555
15	Shaik Adbul Rafoof	12514	Warangal	Warangal Rural and Mahabubabad	sa.rafoof@nabard.org	Manager	9491357588
16	S Praveen Kumar	6756		Hyderabad and Rangareddy	praveen.kumar@nabard.org	Manager / COIC	9995008811
17	Thej Swaroop Reddy K	12537	Hyderabad	Medchal- Malkajgiri and Vikarabad	tsreddy.k@nabard.org	Manager	8790728032