

Office of the Project Director
Community-based Forest Management and
Livelihoods Improvement in Meghalaya
Shalom Building, 2nd Floor,
Lower Lachumiere, Shillong—793001

+91 364-3510190 www.mbda.gov.in

megliflife.mbda@gmail.com/jica.mbda@gmail.com



Meghalaya Livelihood Improvement
through Forest Enhancement



Meghalaya Basin
Development Authority



Japan International
Cooperation Agency

No. PLN/MBDA/02751/2024 (NF) /1906.

Dated: Shillong, the 10th Sep, 2024

Ref. No. MBDA/JICA/2023/72 (DDFS File No.)

Office Order

Sub: Areca-based Agroforestry Models for Implementation at MegLIFE Project Villages

Areca-based Agroforestry models along with cost norms with maintenance for 4 years are enclosed herewith for your information and necessary action. These norms are based on the Minimum Wage rate for unskilled labour as notified by Labour Commissionerate, Govt. of Meghalaya vide Notice No. LBG 9/2023/5 dt.31st March, 2023 (i.e., Rs. 395/- per person day).

All BPMs are asked to discuss the models with the VPIC members and finalize plots for the agroforestry plantations for the plantation year 2025. This should also be discussed in the VPIC Executive Committee Meeting and resolution should be recorded properly in the VPIC Minutes Register along with the plot name decided for taking up under the models.

An online workshop will be conducted with all BPMs/DPMs for orientation on the designed models. The date & time of the online workshop will be intimated to all concerned shortly.

All DPMs to ensure adherence to the above-mentioned office order by all staff under their jurisdiction.

Encl- Approved Areca based Agroforestry Models for MegLIFE Project

// By Order//

(Shri Gunanka DB, IFS)
Joint Secretary to the Govt of Meghalaya
Executive Director, MBDA
Additional. Project Director
MegLIFE, MBDA, Shillong

To:

1. All DPMs/BPMs, MegLIFE, MBDA

Copy to:

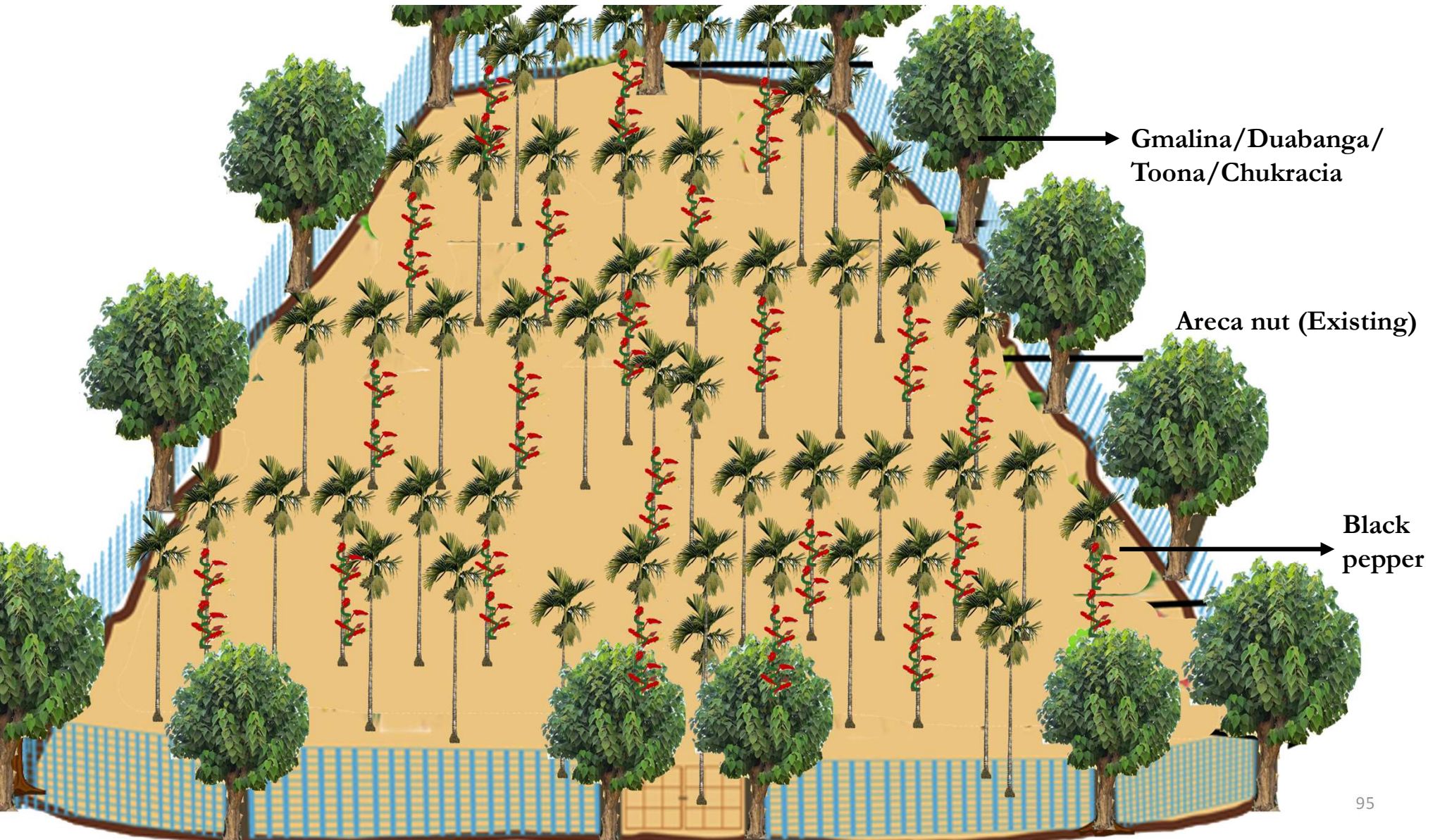
1. The Project Director, MegLIFE, MBDA, Main Secretariate Building, Shillong
2. The Deputy Project Director, MegLIFE, MBDA

Technical Specialist, Project Management
MegLIFE, MBDA Shillong

Model-13

Existing Areca + Black Pepper +

Forestry Tree in periphery (Duabanga/Chukrasia/Gmelina)



Gmalina/Duabanga/
Toona/Chukracia

Areca nut (Existing)

Black
pepper

Crop	No of seedling/seed	Time of planting	Spacing (in m)		Pit Size (in cm)
			Plant to plant	Row to Row	
Duabanga/Chukrasia/Gmelina	100	May-July	3	Along boundary	30 x 30 x 30
Areca	Existing				
Black Pepper (Van Karimunda /Van panniya 1-5)	686	May-July	Alternate Areca plant		50 x 50 x 50 (to be planted 30 cm away from the areca nut plant)

1st Year Cost -Material Cost

Particulars	Quantity	Rate (in Rs.)	Amount (in Rs.)
1st Year Material Cost			
Duabanga/Churacia/ Gmalina	100 nos.	15	1500
Black Pepper	686	35	24,010
Fencing	400 mtr.	LS	5,258
Fencing pole	400 no.	4	1600
Compost	6.86 MT (@10kg/vine)	550	3,773
Carbofuran	20 kg	100	2000
Chloropyriphos	3 lit.	250	750
Total			38,891

1st Year Cost –Labour Cost

Jungle Clearing	5 MD	395	1975
Land Development	12 MD	395	4740
Layout	6 MD	395	2,370
Pit digging	15 MD	395	5,925
Transporting/Planting	15 MD	395	5,925
Intercultural Operation (2 times/year)	15 MD	395	5,925
Fencing Labour	12 MD	395	4740
Sub-Total			29625

Maintenance Cost (4 years)

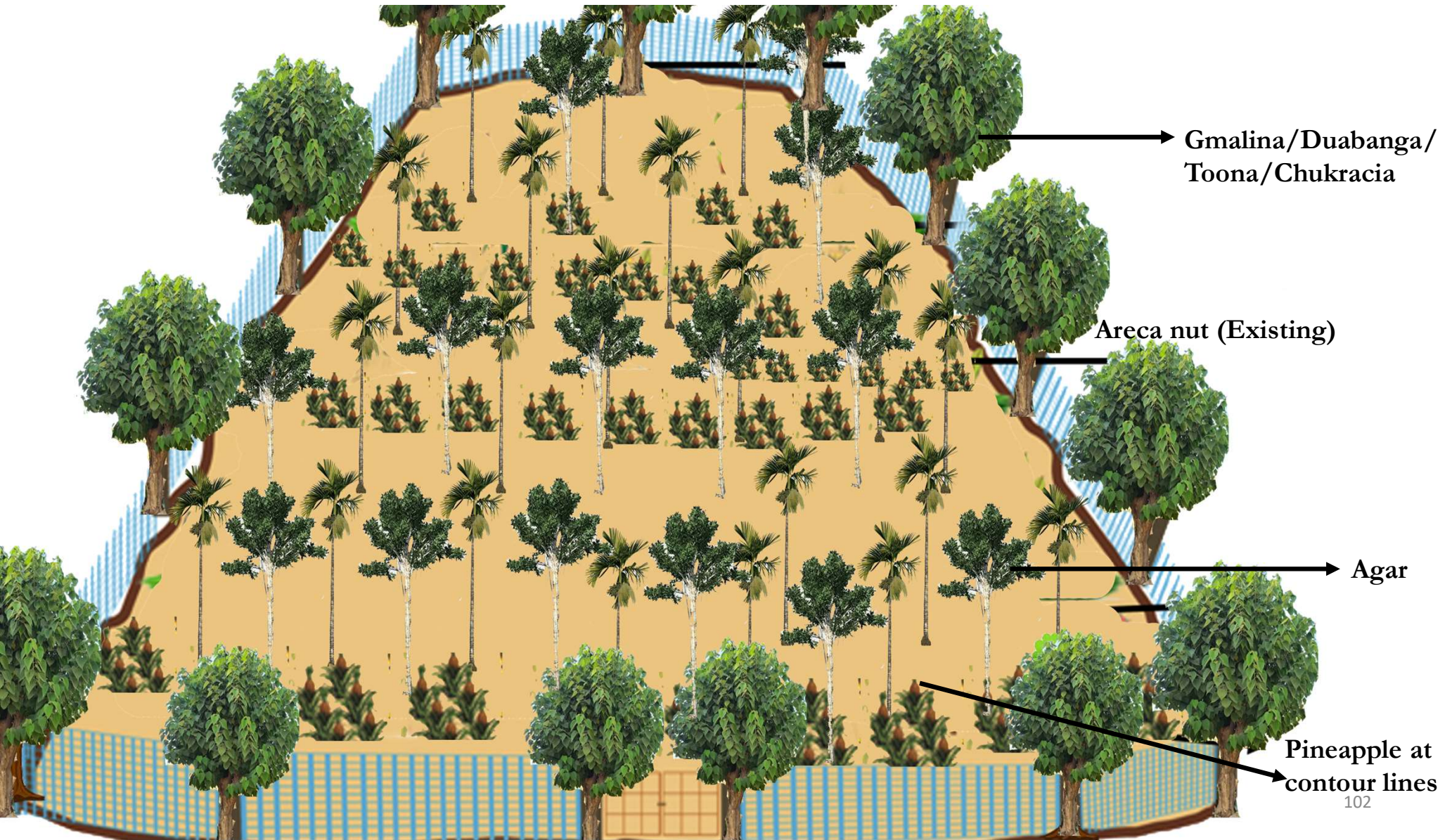
Follow up Maintenance (material 6 MD + Intercultural operation 10 MD) (4 yrs.)	16 MD x 4 years	395	25,280
Grand Total			93,796

Cost Benefit Analysis

Year	Name of Crop			Cost (Rs.)	Return (Rs.)	Net Profit (Rs.)
	Gmelina/ Chukrasia/ Toona	Areca Nut (Existing) (LS)	Black Pepper			
1 st Year	--	60,000	--	68,516	60,000	-8516
2 nd Year	--	60,000	--	6,320	60,000	53,680
3 rd Year	--	60,000	--	6,320	60,000	53,680
4 th Year	--	60,000	--	6,320	60,000	53,680
5 th Year	--	60,000	85,425	6,320	1,45,425	1,39,105
Total	--	3,00,000	85,425	93,796	3,85,425	2,91,629

Model-14

Existing Areca (Silvi cultural thinning) + Agar+
Pineapple + Forestry Tree in periphery
(Duabanga/Chukrasia/Gmelina)



Gmalina/Duabanga/
Toona/Chukracia

Areca nut (Existing)

Agar

Pineapple at
contour lines

Crop	No of seedling/seed	Time of planting	Spacing (in m)		Pit Size (in cm)
			Plant to plant	Row to Row	
Duabanga/Chukrasia/Gmelina	100	May-July	3	Along boundary	30 x 30 x 30
Areca	Existing (208 dead/diseased/nonproductive plants to be removed for planting Agar)				
Agar	208	May-July	4	12	50 x 50 x 50
Pineapple	2100 no. suckers	Sep-Oct	0.6	Contour line	15 x 15 x 15

1st Year Cost -Material Cost

Particulars	Quantity	Rate (in Rs.)	Amount (in Rs.)
1st Year Material Cost			
Duabanga/Churacia/ Gmalina	100 nos.	15	1500
Pineapple	2100 nos. (sucker)	5	10500
Agar	208 nos.	15	3120
Fencing	400 mtr.	LS	5,258
Fencing pole	400 no.	4	1600
Sub Total			21,978

1st Year Cost –Labour Cost

Jungle Clearing	5 MD	395	1975
Land Development	12 MD	395	4740
Layout	6 MD	395	2,370
Pit digging	15 MD	395	5,925
Transporting/Planting	15 MD	395	5,925
Intercultural Operation (2 times/year)	15 MD	395	5,925
Fencing Labour	12 MD	395	4740
Sub-Total			29625

Maintenance Cost (4 years)

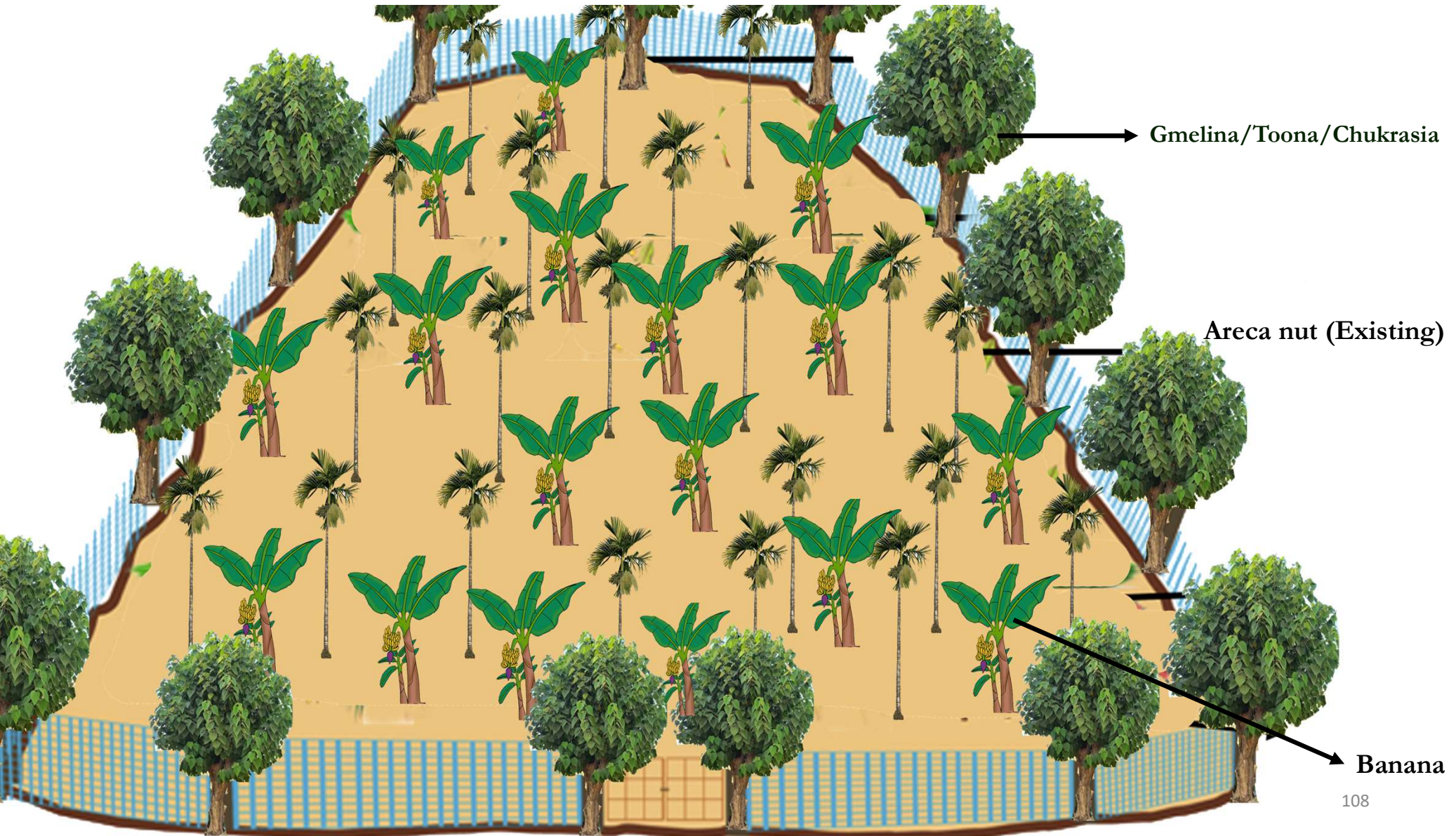
Follow up Maintenance (material 6 MD + Intercultural operation 10 MD) (4 yrs.)	16 MD x 4 years	395	25,280
Grand Total			76,883

Cost Benefit Analysis

Year	Name of Crop				Cost (Rs.)	Return (Rs.)	Net Profit (Rs.)
	Gmelina/ Chukrasia/ Toona	Agar	Areca Nut (Existing) (LS)	Pineapple			
1 st Year	--	--	60,000	--	51,603	60,000	8,397
2 nd Year	--	--	60,000	4,250	6,320	64,250	57,930
3 rd Year	--	--	60,000	7500	6,320	67,500	61,180
4 th Year	--	--	60,000	10000	6,320	70,000	63,680
5 th Year	--	--	60,000	12500	6,320	72,500	66,180
Total	--	--	3,00,000	34,250	76883	3,34,250	2.57,367

Model-15

Existing Areca (Silvi cultural thinning) + Banana +
Forestry Tree in periphery (Duabanga/Chukrasia/Gmelina)



Gmelina/Toona/Chukrasia

Areca nut (Existing)

Banana

Crop	No of seedling/seed	Time of planting	Spacing (in m)		Pit Size (in cm)
			Plant to plant	Row to Row	
Gmelina/Chukrasia/ Toona	100	May-July	3	Along boundary	30 x 30 x 30
Areca Nut	Existing				
Banana (JIHAJI/MON)	343 no. suckers	March-May	5.4	5.4	30 x 30 x 30

1st Year Cost -Material Cost

Particulars	Quantity	Rate (in Rs.)	Amount (in Rs.)
1st Year Material Cost			
Gmelina/Chukrasia/ Toona	100 nos.	15	1500
Banana Suker	343	20	6,860
Fencing	400 mtr.	LS	5,258
Fencing pole	400 no.	4	1600
Urea (Basal+ Interculture Operation)	150 kg	7	1050
Rock Phosphate	150 kg	7	1050
MOP	100 kg	15	1500
Compost	10 MT	550	5500
Sub Total			24,318

1st Year Cost –Labour Cost

Jungle Clearing	5 MD	395	1975
Land Development	12 MD	395	4740
Layout	6 MD	395	2,370
Pit digging	15 MD	395	5,925
Transporting/Planting	15 MD	395	5,925
Intercultural Operation (2 times/year)	15 MD	395	5,925
Fencing Labour	12 MD	395	4740
Sub-Total			29625

Maintenance Cost (4 years)

Follow up Maintenance (material 6 MD + Intercultural operation 10 MD) (4 yrs.)	16 MD x 4 years	395	25,280
Grand Total			79,223

Cost Benefit Analysis

Year	Name of Crop			Cost (Rs.)	Return (Rs.)	Net Profit (Rs.)
	Gmelina/ Chukrasia/ Toona	Areca Nut (Existing) (LS)	Banana (Fruit + Sucker)			
1 st Year	--	60,000	--	53,943	60,000	6,057
2 nd Year	--	60,000	67,400	6,320	1,27,400	1,21,080
3 rd Year	--	60,000	67,400	6,320	1,27,400	1,21,080
4 th Year	--	60,000	67,400	6,320	1,27,400	1,21,080
5 th Year	--	60,000	67,400	6,320	1,27,400	1,21,080
Total	--	3,00,000	2,69,600	79,223	5,69,600	4,90,377