



No PLN/MBDA/02751/2024/NF/2661

Dated: Shillong, the 2nd April, 2026

Office Order

Sub: Revised Cost Norm for MegLIFE Plantations

Enclosed herewith revised cost norms for MegLIFE plantations. These norms are based on Minimum Wage rate for unskilled labour as notified by Labour, Employment & Skill Development Department, Govt. of Meghalaya vide Notice No. LE&SD. 9/2023/Pt/14 dt 21st July, 2025 (i.e., Rs. 541/- per person day).

Village-wise model-wise sanctions for 1st year creation for 2026 plantations and 2nd year maintenance for 2025 plantations, 3rd year maintenance of 2024 plantations and 4th Year Maintenance of 2023 Plantations will be issued from SPMU. Sanctions will be issued on the basis of finalized plots and models shared by BPMs. Booking of expenditure in books of accounts of VPICs should be done on actual work done and after final/re-survey of plantation plots.

All BPMs are asked to discuss the cost norms with the VPICs and finalize labour list for works for the plantation year 2026 and also maintenance for 2025, 2024 & 2023 plots. Finalization of labour list and withdrawal of fund should be discussed in VPIC Executive Committee Meeting and the resolution should be recorded properly in VPIC Minutes Register. Wages shall be paid to approved labourers who were engaged for plantation works by VPIC entering details with signature/LTI in the muster rolls without fail. Failing to do this shall have serious consequences.

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

Encl- Revised Cost norms for plantations

// By Order//

(Gavade Sachin Shankar, IFS)
Addl. Secretary to the Govt. of Meghalaya
Executive Director, MBDA
Additional Project Director
MegLIFE, MBDA, Shillong

Memo No. PLN/MBDA/19007/2026/NF/2661

Dated: Shillong, the 2nd April, 2026

Copy to:

1. The Project Director, MegLIFE, MBDA, Main Secretariat Building, Shillong, for kind information
2. The Deputy Project Director, MegLIFE, MBDA, for kind information
3. Sr. Manager, NRM/Finance, SPMU, MegLIFE, MBDA-for necessary action
4. District Project Managers, MegLIFE, MBDA- for necessary action

Technical Specialist, Project Management
MegLIFE, MBDA Shillong

Cost Norms for the Plantation Model AR/ ha.

Year 2026

Labour Wages: Rs. 541/ for unskilled workers.

<i>S. No</i>	<i>Item of Work</i>	<i>Time of work</i>	<i>Unit/Man-days/ Per Ha</i>	<i>Amount in Rs.</i>
0th Year-Advance Work: Plantation Year 2026				
1	<u>The selected site is surveyed using GPS:</u> Pre-survey by clearing jungle 1.5 M wide strip by using GPS instrument. Track polygon (raw data) is to be submitted within 5 days after completion of survey	Feb-March	2	1082
2	<u>Marking of boundaries at strategic points:</u>	Feb-March	LS	1000
3	<u>Cutting of unnecessary jungle/weeds and disposal:</u> Site preparation including cutting of jungle/weeds, flushing to the ground, drying and control burning and reburning of debris and disposal of debris.	Feb-March	5	2705
4	<u>Fencing:</u> Fencing along the periphery of the plot live hedges with local fencing materials with bamboo and timber poles etc.	March-Apr	30	16,230
Sub Total			37 MD + Rs.1000/-	21,017
1st Year-Planting-Plantation Year 2026				
6	<u>Staking out and digging of pits:</u> Digging of pits of 30 cm x 30cm x 30 cm size up to 1111 nos pits in 3m x 3m spacing.	Apr-May	10	5410
7	<u>Transportation of seedlings and planting:</u> Transporting cost including loading/unloading of seedlings, manual carrying if any and planting and re-filling of pits after removal of foreign materials, breaking of clods and planting of stumps/ rhizome/seedling after removal of seedling pots/polybags. This also includes pitting with crowbar for teak stump planting. Ensuring proper ramming after planting.	May-June	31	16,771
8	<u>Resurvey using GPS:</u>	June-July	2	1082
9	<u>First Weeding</u> including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of weeds inbetween the lines and flushing to the ground level.	July	15	8115
10	<u>Second Weeding</u> including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of weeds inbetween the lines and flushing to the ground level	August-Sep	15	8115
11	<u>Third Weeding / Winter Cleaning</u> including base cleaning (Ring Cleaning) at	Oct-Nov	12	6492

S. No	Item of Work	Time of work	Unit/Man-days/ Per Ha	Amount in Rs.
	a radius of 0.5 m by scraping with spade and cutting of weeds inbetween the lines and flushing to the ground level			
12	<u>Making of fire line and inspection path:</u> Making fire line of 4m wide outside the boundary of plantation site & diagonal inspection path of 1 m wide across inside the plot by scraping with spade and maintenance of the same throughout the dry season.	Nov-April	5	2705
13	<u>Engagement of a watch and ward</u> responsible for maintenance of fencing, cattle watching etc. His/her continuation will be based on survival percentage of plants.	Nov-April	10	5410
Sub Total			100	54,100
Grand Total			137 MD + Rs.1000/-	75,117
<u>2nd year Plantation-Maintenance: Plantation Year 2025</u>				
14	<u>Transporting cost including loading/unloading and carrying of seedlings for vacancy filling</u> of 10% including Planting and proper ramming after planting.		19	10,279
15	<u>First Weeding</u> including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines and flushing to the ground level.	July	15	8115
16	<u>Second Weeding</u> including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of weeds inbetween the lines and flushing to the ground level	August-Sep	15	8115
17	<u>Third Weeding / Winter Cleaning</u> including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines and flushing to the ground level	Oct-Nov	12	6492
18	<u>Making of fire line and inspection path:</u> Making fire line of 4m wide outside the boundary of plantation site & diagonal inspection path of 1 m wide across inside the plot by scraping with spade and maintenance of the same throughout the dry season.	Nov-April	5	2705
19	<u>Engagement of a watch and ward</u> responsible for maintenance of fencing, cattle watching etc. His/her continuation will be based on survival percentage of plants.	Nov-Apr	10	5410
Total			76	41,116
<u>3rd Year-Maintenance 2024</u>				
20	<u>First Weeding</u> including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines and flushing to the ground level.	July	15	8115

S. No	Item of Work	Time of work	Unit/Man-days/ Per Ha	Amount in Rs.
21	<u>Second Weeding</u> including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines and flushing to the ground level	August-Sep	15	8115
22	<u>Third Weeding / Winter Cleaning</u> including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines and flushing to the ground level	Oct-Nov	12	6492
23	<u>Making of fire line and inspection path:</u> Making fire line of 4m wide outside the boundary of plantation site & diagonal inspection path of 1 m wide across inside the plot by scraping with spade and maintenance of the same throughout the dry season.	Nov-April	5	2705
24	<u>Engagement of a watch and ward</u> responsible for maintenance of fencing, cattle watching etc. His/her continuation will be based on survival percentage of plants.		10	5410
Total			57	30,837
<u>4th Year-maintenance 2023</u>				
26	<u>One Weeding</u> including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines and flushing to the ground level.	July	15	8115
27	<u>Making of fire line and inspection path:</u> Making fire line of 4m wide outside the boundary of plantation site & diagonal inspection path of 1 m wide across inside the plot by scraping with spade and maintenance of the same throughout the dry season.	Nov-April	5	2705
28	<u>Engagement of a watch and ward</u> responsible for maintenance of fencing, cattle watching etc. His/her continuation will be based on survival percentage of plants.		10	5140
Total			30	16,230

Cost Norms for the Plantation Model ANR per ha.

Year 2026

Labour Wages: Rs. 541/ for unskilled workers.

Sl no.	Item of works	Time of Work	Unit/man-days per 1 ha.	Amount (In Rs)
Advance Work: Plantation Year 2026				
1	<u>The selected site is surveyed using GPS:</u> Pre-survey by clearing jungle 1.5 M wide strip by using GPS instrument. Track polygon (raw data) is to be submitted within 5 days after completion of survey	Feb-March	2	1082
2	<u>Marking of boundaries at strategic points:</u>	Feb-March	LS	1000
3	<u>Cutting of unnecessary trees and shrubs & disposal:</u> Site preparation including cutting of jungle/weeds, flushing to the ground drying and disposal of debris outside the plot and <u>without burning</u> . Etc.	Feb-March	3	1623
4	<u>Removal of unwanted coppice:</u> including singling out of 2 best leading shoots of coppice and cutting down of the other less promising shoots and cutting of old malformed trunk if any, to support coppicing from rootstock.	Feb-March	2	1082
5	<u>Fencing:</u> Fencing along the periphery of the plot live hedges with local fencing materials with bamboo and timber poles etc.	March-Apr	30	16,230
<u>Sub Total</u>			37 MD + Rs.1000/-	21,017
1st Year-Planting-Plantation year 2026				
6	<u>Staking out and digging of pits:</u> Digging of pits of 30 cm x 30cm x 30 cm size up to 400 nos pits in 3m x 3m spacing.	Apr-May	6	3,246

Sl no.	Item of works	Time of Work	Unit/man-days per 1 ha.	Amount (In Rs)
7	<u>Transportation of seedlings and planting:</u> Transporting cost including loading/unloading of seedlings, manual carrying if any and planting and re-filling of pits after removal of foreign materials, breaking of clods and planting of stumps/ rhizome /seedling after removal of seedling pots/polybags. This also includes pitting with crowbar for teak stump planting. Ensuring proper ramming after planting.	May-June	15	8115
8	<u>Resurvey using GPS:</u>	June-July	2	1082
9	<u>First Weeding</u> including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines and flushing to the ground level.	July	15	8115
10	<u>Second Weeding</u> including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines and flushing to the ground level	August-Sep	15	8115
11	<u>Third Weeding / Winter Cleaning</u> including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines and flushing to the ground level	Oct-Nov	12	6492
12	<u>Making of fire line and inspection path:</u> Making fire line of 4m wide outside the boundary of plantation site & diagonal inspection path of 1 m wide across inside the plot by scraping with spade and maintenance of the same throughout the dry season.	Nov-April	5	2705
13	<u>Engagement of a watch and ward</u> responsible for maintenance of fencing, cattle watching etc. His/her continuation will be based on survival percentage of plants.	Nov-April	10	5410
<u>Sub Total</u>			80	43,280
<u>Grand Total</u>			117 MD + Rs.1000/-	64,297
<u>2nd year Plantation-Maintenance: Plantation Year 2025</u>				
14	<u>Transporting cost including loading/unloading and carrying of seedlings for vacancy filling</u> of 10% including Planting and proper ramming after planting.		5	2705

Sl no.	Item of works	Time of Work	Unit/man-days per 1 ha.	Amount (In Rs)
15	First Weeding including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines and flushing to the ground level.	July	15	8115
16	Second Weeding including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines and flushing to the ground level	August-Sep	15	8115
17	Third Weeding / Winter Cleaning including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines and flushing to the ground level	Oct-Nov	12	6492
18	Making of fire line and inspection path: Making fire line of 4m wide outside the boundary of plantation site & diagonal inspection path of 1 m wide across inside the plot by scraping with spade and maintenance of the same throughout the dry season.	Nov-April	5	2705
19	Engagement of a watch and ward responsible for maintenance of fencing, cattle watching etc. His/her continuation will be based on survival percentage of plants.		10	5410
Total			62	33,542
<u>3rd Year-Maintenance 2024</u>				
	First Weeding including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines and flushing to the ground level.	July	15	8115
	Second Weeding including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines and flushing to the ground level	August-Sep	15	8115
	Third Weeding / Winter Cleaning including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines and flushing to the ground level	Oct-Nov	12	6492
	Making of fire line and inspection path: Making fire line of 4m wide outside the boundary of plantation site & diagonal inspection path of 1 m	Nov-April	5	2705

Sl no.	Item of works	Time of Work	Unit/man-days per 1 ha.	Amount (In Rs)
	wide across inside the plot by scraping with spade and maintenance of the same throughout the dry season.			
	<u>Engagement of a watch and ward</u> responsible for maintenance of fencing, cattle watching etc. His/her continuation will be based on survival percentage of plants.		10	5410
<u>Total</u>			57	30,837
4th Year-maintenance 2023				
	<u>One Weeding</u> including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines and flushing to the ground level.	July	15	8115
	<u>Making of fire line and inspection path:</u> Making fire line of 4m wide outside the boundary of plantation site & diagonal inspection path of 1 m wide across inside the plot by scraping with spade and maintenance of the same throughout the dry season.	Nov-April	5	2705
	<u>Engagement of a watch and ward</u> responsible for maintenance of fencing, cattle watching etc. His/her continuation will be based on survival percentage of plants.	Nov-April	10	5140
<u>Total</u>			30	16,230



MegLIFE Agroforestry Cost norms 2026

Model-1

**Duabanga/Burmese Grape + Lemon/Orange + Litchi
+ Turmeric + Maize**

1st Year Cost -Material Cost

Particulars	Quantity	Rate (in Rs.)	Amount (in Rs.)
1 st Year Material Cost			
Duabanga/Burmese Grapes	208 nos.	15	3120
Litchi	70 nos.	60	4200
Lemon/Orange	92 nos.	60	5520
Turmeric	300 kg	45	13500
Maize	8 kg	60	480
Citronella/Lemon Grass	7500	1	7500
Fencing	400 mtr.	LS	5,258
Fencing pole	400 no.	4	1600
Rock Phosphate	150 kg	7	1050
Compost	10 MT	550	5500
Sub Total			47,728

1st Year Cost –Labour Cost

Jungle Clearing	5 MD	541	2705
Land Development	12 MD	541	6492
Layout	10 MD	541	5410
Pit digging	20 MD	541	10820
Transporting/Planting	20 MD	541	10820
Intercultural Operation (2 times/year)	30 MD	541	16230
Fencing Labour	12 MD	541	6492
Aroma Grass Hedgerow	16 MD	541	8656
Sub-Total	125 MD	541	67,625

Maintenance Cost (2nd year to 5th Year)

Maintenance (material 6 MD + Intercultural operation 17 MD)	23 MD x 4 years	541	49,772
---	--------------------	-----	--------

Model-2

**Duabanga/Champa/Toona/Gmelina + Lemon/Orange + Litchi + Turmeric + Maize with Bay
Moringa/Bay Leaf/Parkia at periphery**

1st Year Cost -Material Cost

Particulars	Quantity	Rate (in Rs.)	Amount (in Rs.)
1 st Year Material Cost			
Duabanga/ Champa/'Toona/Gmelina	208 nos.	15	3120
Litchi	70 nos.	60	4200
Lemon/Orange	92 nos.	60	5520
Turmeric	300 kg	45	13500
Maize	8 kg	60	480
Tej Patta	100	15	1500
Citronella/Lemon Grass	7500	1	7500
Fencing	400 mtr.	LS	5,258
Fencing pole	400 no.	4	1600
Rock Phosphate	150 kg	7	1050
Compost	10 MT	550	5500
Sub Total			49,228

1st Year Cost –Labour Cost

Jungle Clearing	5 MD	541	2705
Land Development	12 MD	541	6492
Layout	10 MD	541	5410
Pit digging	20 MD	541	10820
Transporting/Planting	20 MD	541	10820
Intercultural Operation (2 times/year)	30 MD	541	16230
Fencing Labour	12 MD	541	6492
Aroma Grass Hedgerow	16 MD	541	8656
Sub-Total	125 MD	541	67,625

Maintenance Cost 2nd year to 5th Year)

Maintenance (material 6 MD + Intercultural operation 17 MD)	23 MD x 4 years	541	49,772
---	--------------------	-----	--------

Model-3

Duabanga/Agar + Lemon + Turmeric

1st Year Cost -Material Cost

Particulars	Quantity	Rate (in Rs.)	Amount (in Rs.)
1st Year Material Cost			
Duabanga/Agar	208 nos.	15	3120
Lemon	185 nos.	60	11,100
Turmeric	300 kg	45	13500
NFP Seed	1.2 kg	700	840
Fencing	400 mtr.	LS	5,258
Fencing pole	400 no.	4	1600
Rock Phosphate	150 kg	7	1050
Compost	10 MT	550	5500
Sub Total			41,968

1st Year Cost –Labour Cost

Jungle Clearing	5 MD	541	2705
Land Development	12 MD	541	6492
Layout	10 MD	541	5410
Pit digging	20 MD	541	10820
Transporting/Planting	20 MD	541	10820
Intercultural Operation (2 times/year)	30 MD	541	16230
Fencing Labour	12 MD	541	6492
NFP Hedgerow	32 MD	541	17,312
Sub-Total	141 MD	541	76,281

Maintenance Cost (2nd year to 5th Year)

Maintenance (material 6 MD + Intercultural operation 17 MD)	23 MD x 4 years	541	49,772
---	--------------------	-----	--------

Model-4

Teak + Lemon + Ginger + Moringa (Periphery)

2025 1st Year Cost -Material Cost

Particulars	Quantity	Rate (in Rs.)	Amount (in Rs.)
1st Year Material Cost			
Teak	208 nos.	12	2496
Lemon	185 nos.	60	11100
Ginger	400 kg	80	32000
Moringa	100 no.	15	1500
NFP Seeds	1.2 Kg	700	840
Fencing	400 mtr.	LS	5,258
Fencing pole	400 no.	4	1600
Rock Phosphate	150 kg	7	1050
Compost	10 MT	550	5500
Sub Total			61,344

1st Year Cost –Labour Cost

Jungle Clearing	5 MD	541	2705
Land Development	12 MD	541	6492
Layout	10 MD	541	5410
Pit digging	20 MD	541	10820
Transporting/Planting	20 MD	541	10820
Intercultural Operation (2 times/year)	30 MD	541	16230
Fencing Labour	12 MD	541	6492
NFP Hedgerow	32 MD	541	17,312
Sub-Total	141 MD	541	76,281

Maintenance Cost (2nd year to 5th Year)

Maintenance (material 6 MD + Intercultural operation 17 MD)	23 MD x 4 years	541	49,772
---	--------------------	-----	--------

Model-5

**Aritak (T. chebula) /Jamun/Burmese Grapes/Agar/Jalpoi + Lemon/Orange + Mango
+ Maize + Pineapple + Tej Patta/Parkia (Tree Bean)**

1st Year Cost -Material Cost

Particulars	Quantity	Rate (in Rs.)	Amount (in Rs.)
1 st Year Material Cost			
Aritak (T. chebula)/Jamun / Burmese Grapes/Agar/Jolpoi	208 nos.	15	3120
Mango	42 nos.	60	2550
Lemon/Orange	92 nos.	60	5,520
Pineapple	4000 nos. (sucker)	5	20,000
Maize	8 kg	61	488
Tej Patta/Parkia	100	15	1500
Fencing	400 mtr.	LS	5,258
Fencing pole	400 no.	4	1600
Rock Phosphate	150 kg	7	1050
Compost	10 MT	550	5500
Sub Total			46,586

2025 1st Year Cost –Labour Cost

Jungle Clearing	5 MD	541	2705
Land Development	12 MD	541	6492
Layout	12 MD	541	6492
Pit digging	22 MD	541	11902
Transporting/Planting	22MD	541	11902
Intercultural Operation (2 times/year)	30 MD	541	16230
Fencing Labour	12 MD	541	6492
Sub-Total			62,215

Maintenance Cost (2nd year to 5th Year)

Maintenance (material 6 MD + Intercultural operation 17 MD)	23 MD x 4 years	541	49,772
---	--------------------	-----	--------

Model-6

**Exbucklandia populnea/Toona ciliata and Cinnamomum tamala on the periphery
Psidium guajava and Citrus sinensis/Citrus limon (C. jambhiri) grown along with broom grass in the middle.**

1st Year Cost -Material Cost

Particulars	Quantity	Rate (in Rs.)	Amount (in Rs.)
1st Year Material Cost			
Toona ciliata	50 nos.	15	750
Cinnamomum tamala	50 nos.	15	750
Gauva (Local Grafted)/Lemon/orange	154 nos.	70	10,780
Broom	Existing		
Fencing	400 mtr.	LS	5,258
Fencing pole	400 no.	4	1600
Rock Phosphate	150 kg	7	1050
Compost	10 MT	550	5500
Sub Total			25,688

1st Year Cost –Labour Cost

Jungle Clearing	5 MD	541	2705
Land Development	12 MD	541	6492
Layout	10 MD	541	5410
Pit digging	20 MD	541	10820
Transporting/Planting	20 MD	541	10820
Intercultural Operation (2 times/year)	30 MD	541	16230
Fencing Labour	12 MD	541	6492
Sub-Total	109 MD	541	58,969

Maintenance Cost (2nd year to 5th Year)

Maintenance (material 6 MD + Intercultural operation 17 MD)	23 MD x 4 years	541	49,772
---	--------------------	-----	--------

Model 8

Toona ciliata (Poma)/Michelia champaka (champa)

Citrus sinensis (Sweet Orange)/ Psidium guajava

Turmeric (Lakadong)/Chilli

1st Year Cost -Material Cost

Particulars	Quantity	Rate (in Rs.)	Amount (in Rs.)
1 st Year Material Cost			
Toona ciliata	208 nos.	15	3120
Guava (Local Grafted)	64 nos.	70	4480
Sweet Orange	70 nos.	70	4900
Chilli	600 gm	Farmer Contribution	
Turmeric	300 kg	45	13,500
NFP Seeds	1.2 Kg	700	840
Fencing	400 mtr.	LS	5258
Fencing pole	400 no.	4	1600
Rock Phosphate	150 kg	7	1050
Compost	10 MT	550	5500
Sub Total			40,248

1st Year Cost –Labour Cost

Jungle Clearing	5 MD	541	2705
Land Development	12 MD	541	6492
Layout	10 MD	541	5410
Pit digging	20 MD	541	10820
Transporting/Planting	20 MD	541	10820
Intercultural Operation (2 times/year)	30 MD	541	16230
Fencing Labour	12 MD	541	6492
NFP Hedgerow	32 MD	541	17,312
Sub-Total	141 MD	541	76,281

Maintenance Cost (2nd year to 5th Year)

Maintenance (material 6 MD + Intercultural operation 17 MD)	23 MD x 4 years	541	49,772
--	--------------------	-----	--------

Model-9

**Prunus ceratoides (Wild Himalayan Cherry)/Toona ciliata/Alnus nepalensis +
Citrus sinensis (Orange)/Assam Lemon/Prunus domestica +
Turmeric + Maize**

1st Year Cost -Material Cost

Particulars	Quantity	Rate (in Rs.)	Amount (in Rs.)
1st Year Material Cost			
Alnus nepalensis/Toona ciliata/Prunus ceratoides	208 nos.	15	3120
Plum (Grafted)	70 nos.	50	3500
Sweet Orange	70 nos.	70	4900
Turmeric	300 kg	45	13500
Maize	8 kg	60	480
NFP Seeds	1.2 kg	700	840
Fencing	400 mtr.	LS	5,258
Fencing pole	400 no.	4	1600
Rock Phosphate	150 kg	7	1050
Compost	10 MT	550	5500
Sub Total			39,748

1st Year Cost –Labour Cost

Jungle Clearing	5 MD	541	2705
Land Development	12 MD	541	6492
Layout	10 MD	541	5410
Pit digging	20 MD	541	10820
Transporting/Planting	20 MD	541	10820
Intercultural Operation (2 times/year)	30 MD	541	16230
Fencing Labour	12 MD	541	6492
NFP Hedgerow	32 MD	541	17,312
Sub-Total	141 MD	541	76,281

Maintenance Cost (2nd year to 5th Year)

Maintenance (material 6 MD + Intercultural operation 17 MD)	23 MD x 4 years	541	49,772
---	--------------------	-----	--------

Model-10

Alnus + Orange + Potato

1st Year Cost -Material Cost

Particulars	Quantity	Rate (in Rs.)	Amount (in Rs.)
1st Year Material Cost			
Alnus	100 nos.	15	1500
Sweet Orange	153 nos.	60	9180
Potato	18 quintal x 2 times	40/kg	1,44,000 (Farmers contribution)
Fencing	400 mtr.	LS	5,258
Fencing pole	400 no.	4	1600
Rock Phosphate	150 kg	7	1050
Compost	10 MT	550	5500
Sub Total			24,088

1st Year Cost –Labour Cost

Jungle Clearing	5 MD	541	2705
Land Development	12 MD	541	6492
Layout	10 MD	541	5410
Pit digging	20 MD	541	10,820
Transporting/Planting	20 MD	541	10,820
Intercultural Operation (2 times/year)	30 MD	541	16230
Fencing Labour	12 MD	541	6492
Sub-Total	109 MD	541	58,969

Maintenance Cost (2nd year to 5th Year)

Maintenance (material 6 MD + Intercultural operation 17 MD)	23 MD x 4 years	541	49,772
---	--------------------	-----	--------

Model-11

Aroma grass & Pine tree

Cost Estimate @541/MD

Sl No.	Item of works	Man-days/no.	Amount
1 st Year	Survey of site using GPS	2 MD	1082
	Marking of boundaries at strategic points	LS	1000
	Seedling cost	357nos. @22	7864
	Transportation	2.7 MD	1,460.7
	Digging of pits of size 45cm*45 cm*45 cm 357 nos	16 MD	8656
	Land development & Planting	220 MD	1,19,020
	Cost of Planting material	50000 slips	62,500
	Transportation	LS	5,000
	Trimming	14 MD	7574
	Gap filling	14 MD	7574
	Weeding	30 MD	16230
	Harvesting	84 MD	45444
	Transportation to distillation Unit	LS	5000
	Total		2,80,541

Cost Estimate Maintenance @541/MD

Sl No.	Item of works	Mandays/qty.	Amount
2 nd year	Harvesting	84 MD	45444
	Transportation	LS	5000
	Vacancy Filling	7 MD	3787
	Fire watcher and Fireline	15 MD	8115
	Total		62346
3 rd year	Harvesting	84 MD	45444
	Transportation	LS	5000
	Vacancy Filling	7 MD	3787
	Fire watcher and Fireline	15 mD	8115
	Total		62346

Cost Estimate Maintenance @541/MD

Sl No.	Item of works	mandays	Amount
4 th year	Harvesting	84 MD	45444
	Transportation	LS	5000
	Vacancy Filling	7 MD	3787
	Fire watcher and Fireline	15 MD	8115
Total			62346

Model-13

Existing Areca + Black Pepper +
Forestry Tree in periphery (Duabanga/Chukrasia/Gmelina)

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 (alternate plants)	40	27,440
Fencing	400 mtr.	LS	5,258
Fencing pole	400 no.	4	1600
Compost	6.86 MT (@10kg/vine)	550	3,773
Total			39,571

1st Year Cost –Labour Cost

Jungle Clearing	5 MD	541	2705
Land Development	12 MD	541	6492
Layout	6 MD	541	3246
Pit digging	15 MD	541	8115
Transporting/Planting	15 MD	541	8115
Intercultural Operation (2 times/year)	15 MD	541	8115
Fencing Labour	12 MD	541	6492
Sub-Total	80 MD	541	43,280

Maintenance Cost

Follow up Maintenance (material 6 MD + Intercultural operation 10 MD)	16 MD	541	8656
--	-------	-----	------

Model-14

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

1st Year Cost -Material Cost

Particulars	Quantity	Rate (in Rs.)	Amount (in Rs.)
1 st Year Material Cost			
Duabanga/Churacia/ Gmalina	100 nos.	15	1500
Pineapple	2100 nos. (sucker)	5	10500
Agar	208 nos. (12m x 4 m)	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	541	2705
Land Development	12 MD	541	6492
Layout	6 MD	541	3246
Pit digging	15 MD	541	8115
Transporting/Planting	15 MD	541	8115
Intercultural Operation (2 times/year)	15 MD	541	8115
Fencing Labour	12 MD	541	6492
Sub-Total	80 MD	541	43,280

Maintenance Cost

Follow up Maintenance (material 6 MD + Intercultural operation 10 MD)	16 MD	541	8656
--	-------	-----	------

Model-15

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

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 (5.4 m x 5.4 m)	20	6,860
Fencing	400 mtr.	LS	5,258
Fencing pole	400 no.	4	1600
Rock Phosphate	150 kg	7	1050
MOP	100 kg	15	1500
Compost	10 MT	550	5500
Sub Total			23,268

1st Year Cost –Labour Cost

Jungle Clearing	5 MD	541	2705
Land Development	12 MD	541	6492
Layout	6 MD	541	3246
Pit digging	15 MD	541	8115
Transporting/Planting	15 MD	541	8115
Intercultural Operation (2 times/year)	15 MD	541	8115
Fencing Labour	12 MD	541	6492
Sub-Total	80 MD	541	43,280

Maintenance Cost

Follow up Maintenance (material 6 MD + Intercultural operation 10 MD)	16 MD	541	8656
--	-------	-----	------

Model-16

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



1st Year Cost -Material Cost

Particulars	Quantity	Rate (in Rs.)	Amount (in Rs.)
1 st Year Material Cost			
Gmelina/Chukrasia/ Toona	100 nos.	15	1500
Cocoa Grafted Seedling with transportation	686 nos. (2.7 m x 5.4 m)	55	37,730
Fencing	400 mtr.	LS	5,258
Fencing pole	400 no.	4	1600
Compost	35 MT	550	19,250
Sub Total			65,338

1st Year Cost –Labour Cost

Jungle Clearing & Staking	15 MD	541	8115
Pit digging	30 MD	541	16230
planting, staking, mulching, shading	10 MD	541	5410
Weeding twice a year	10 MD	541	5410
Fencing Labour	5 MD	541	2705
Pruning & removal of chupons, cherelles, diseased pods, transportation of inputs	10 MD	541	5410
Application of manures and Plant protection-spraying	10 MD	541	5410
Sub-Total	90 MD	541	48,690

Maintenance Cost (2nd to 5th Year)

Vacancy Filling	10 MD (only 2 nd Year)	541	5410
Weeding twice in year	10 MD (2 nd to 5 th Year)	541	5410
Pruning & removal of chupons, cherelles, diseased pods, transportation of inputs	10 MD (2 nd to 5 th Year)	541	5410
Application of manures and Plant protection- spraying	10 MD (2 nd to 5 th Year)	541	5410
Sub-Total			21,640

Existing Tea Garden + Forestry Tree + Orange

Crop	No of seedling/seed	Time of planting	Spacing (in m)		Pit Size (in cm)
			Plant to plant	Row to Row	
Forestry tree (Duabanga/Chukracia / Gmalina	139	May-July	4	18	50 x 50 x 50
Orange (Khasi Mandarin)	370	April-July	4.5	6	60 x 60 x 60
Tea	Existing				

Cost norms 1st Year

Particulars	Quantity	Units	Unit Rate (in Rs.)	Amount (in Rs.)
Planting material cost (Jackfruit)	139	No.	15	₹ 2,085
Planting material cost (Orange)	370	No.	85	₹ 31,450
Cost for transportation + pit digging + planting	20	MD	541	₹ 10,820
1 st Weeding	20	MD	541	10,820
Winter Cleaning	15	MD	541	8,115
			Total	₹ 63,290

Cost norms Maintenance (2nd to 5th Year)

Particulars	Quantity	Units	Unit Rate (in Rs.)	Amount (in Rs.)
Planting material cost (Jackfruit) for 10% Vacancy Filling (2 nd Year)	14	No.	15	₹ 210
Planting material cost (Orange) for 10% Vacancy Filling (2 nd Year)	37	No.	85	₹ 3,145
Cost for transportation + pit digging + planting (2 nd Year)	5	MD	541	₹ 2705
1 st Weeding (2 nd to 5 th Year)	20	MD	541	10,820 x 4 years=43,280
Winter Cleaning (2 nd to 5 th Year)	15	MD	541	8,115 x 4 years=32,460
			Total	₹ 81,800

Boundary Plantation Cost norms Integrating with 2026 Aroma Plantations

(Existing Areca + Tree Periphery + Patchouli)

Particulars	Quantity	Units	Unit Rate (in Rs.)	Amount (in Rs.)
1 st Year Material Cost				
Gmelina/Chukrasia/ Toona	100	nos.	15	1,500
Planting Materials (Patchouli)	25,000 saplings	nos.	5/slip	Supplied from Aroma Mission
Fencing	400	mtrs.	LS	5,258
Fencing pole	400	nos.	4	1,600
Sub Total				8358

1 st Year Cost –Labour Cost				
Particulars	Quantity	Units	Unit Rate (in Rs.)	Amount (in Rs.)
Land Clearing for Patchouli	25	MD	541	13,525
Plowing & Planting for Patchouli	25	MD	541	13,525
Layout & Pit digging for boundary planting	2	MD	541	1082
Transporting/Planting of trees in the periphery/boundary	5	MD	541	2705
Weeding and Earthing for Patchouli	25	MD	541	13,525
Weeding for Boundary trees	2	MD	541	1082
Fencing Labour	12	MD	541	6492
Sub-Total	96		541	51,936
Maintenance (Vacancy Filling and weeding for boundary plantation -2 nd year)	6	MD	541	3246
Grand Total	102	MD	541	55,182

Boundary Plantation Cost norms for 2025 Aroma Plantations (Existing Areca + Tree Periphery + Patchouli)

Particulars	Quantity	Units	Unit Rate (in Rs.)	Amount (in Rs.)
1 st Year Material Cost				
Gmelina/Chukrasia/ Toona	100	nos.	15	1500
Layout & Pit digging for boundary planting	2	MD	541	1082
Transporting/Planting of trees in the periphery/boundary	5	MD	541	2705
Weeding for Boundary trees	2	MD	541	1082
Total				6369

Boundary Plantation Cost norms 2025 Aroma Plantations (Existing Areca + Tree Periphery + Citronella/Lemon Grass)

Particulars	Quantity	Units	Unit Rate (in Rs.)	Amount (in Rs.)
1 st Year Material Cost				
Gmelina/Chukrasia/ Toona	100	nos.	15	1500
Layout & Pit digging for boundary planting	2	MD	541	1082
Transporting/Planting of trees in the periphery/boundary	5	MD	541	2705
Weeding for Boundary trees	2	MD	541	1082
Total				6369

Boundary Plantation Cost norms 2025 Aroma Plantations (Existing Orange Orchard + Tree Periphery + Lemon grass)

Particulars	Quantity	Units	Unit Rate (in Rs.)	Amount (in Rs.)
Gmelina/Chukrasia/ Toona	100	nos.	15	1,500
Layout & Pit digging for boundary planting	2	MD	541	1082
Transporting/Planting of trees in the periphery/boundary	5	MD	541	2705
Weeding for Boundary trees	2	MD	541	1082
Total				6369

Cost norms for 2025 Aroma Plantations with Pine Trees (Pine tree + Lemon grass/Citronella)

Particulars	Quantity	Units	Unit Rate (in Rs.)	Amount (in Rs.)
Pine tree	357 (4 m x 7 m)	nos.	15	5355
Transportation for Pine Tree saplings	5	MD	541	2705
Digging of pits for Pine (45cm*45 cm*45 cm)	16	MD	541	8656
Weeding for Pine	5	MD		2705
Total				19,421

A detailed illustration of bamboo stalks and leaves, rendered in a light green color against a dark background. The bamboo stalks are tall and slender, with visible nodes. The leaves are long and narrow, with pointed tips. The illustration is positioned on the left side of the slide, with the text box on the right.

Cost Norms for Bamboo Plantation

Bamboo plantation through seedlings

5 m x 5 m spacing with poly bag seedlings (one year old) 400 plants per ha for species

- *Bambusa tula*
- *Bambusa vulgaris*
- *Bambusa balcooa*
- *Bambusa cachrensis*
- *Dendracalamus hamiltonii*

1st Year creation and Maintenance, 2026

SINo	Particular of work and specifications	Time of work	Man days/ha
1	Pre-survey by clearing jungle 1.5 m wide strip by using GPS instrument, cleaning of the periphery. Track polygon (raw data) is to be submitted within 5 days after completion of survey	Jan - Feb	2
2	Site preparation including cutting of jungle slush to the ground, disposal of debris etc. complete.	Jan - Feb	10
3	Fencing	March-April	20
4	Staking at spacing 5 m x 5 m for 400 seedlings with sticks of 1m long and 15 cm wide, including the collection of sticks etc.	Feb - Mar	15
5	Digging of pits 30cm x 30cm x 30 cm size for 400 rhizomes and slashing down the new growth of weeds	Feb - Mar	15

SI No	Particular of work and specifications	Time of work	Man days/ha
6	Application of required PPC (plant protection material), compost etc. including anti-termite.		800 @Rs.2.00 per pit
7	Re-filling of pits after removal of foreign materials, breaking of clods, carrying of nursery seedlings upto plantation site and planting etc.	Mar - Apr	15
8	Re-survey using GPS	Sep-Oct	2
9	First Weeding and Vacancy Filling including base cleaning in thali at a radius of 0.75 m by scraping with spade and cutting of weeds in between the lines flush to the ground level including vacancy filling digging of pits, refilling & planting including carrying of seedlings.	Jun - Jul	8
10	Earth Mounding with scraping of soil with spade, ramming properly upto 1.25 m dia.	Feb - Mar	2

SI No	Particular of work and specifications	Time of work	Man days/ha
11	Second Weeding including base cleaning in rings at a radius of 0.75 m by scraping with a spade and cutting of weeds in between the lines flush to the ground level.	Aug - Sep	7
12	Winter cleaning & Making of fire line 4m wide & diagonal Inspection path 1 m wide by scraping with a spade and maintenance of the same throughout the dry season.	Dec - Jan	5
13	Engagement of a watch and ward responsible for maintenance of fencing, cattle watching etc. His continuation will be based on survival percentage of seedling. Watch and ward for min. 10 ha. (contiguous or discrete).	Nov- April	30
Total		131 MD @541/day + Rs. 800	71,671

2nd Year Maintenance, 2025 AR Bamboo Plantations

SI No	Particular of work and specifications	Time of work	Man days/ha
1	First Weeding including base cleaning in rings at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines flush to the ground level including vacancy filling including digging of pits, refilling & planting including carrying of seedlings.	May-June	8
2	Second Weeding including ring cleaning at base at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines flush to the ground level	Aug- Sept	8
3	Making of fire line 4 m wide & a diagonal inspection path 1 m wide by scraping with spade and maintenance of the same throughout the dry season.	Dec- January	5
4	Earth Mounding with scraping of soil with spade ramming properly up to 125 m dia.	Feb-March	2
5	Engagement of a watch and ward responsible for maintenance of fencing, cattle watching etc. His continuation will be based on survival percentage of seedling Watch and Ward for min.10 ha. (contiguous or discrete).	Nov- April	30
6	Compost & Mulching	March-April	4
Total MDs		57 (@541/MD)	30,837

Cost Norm for Bamboo ANR

Bamboo plantation through seedlings (ANR)

5 m x 5 m spacing with poly bag seedlings (one year old) 200 plants per ha for species

- *Bambusa tulda*
- *Bambusa vulgaris*
- *Bambusa balcooa*
- *Bambusa cacharensis*
- *Dendracalamus hamiltonii*

1st Year creation and Maintenance,2026

SINo	Particular of work and specifications	Time of work	Man days/ha
1	Pre-survey by clearing jungle 1.5m wide strip by using GPS instrument, cleaning of the periphery. Track polygon (raw data) is to be submitted within 5 days after completion of survey	Jan - Feb	2
2	Site preparation including cutting of jungle slush to the ground, disposal of debris etc. complete.	Jan - Feb	15
3	Staking at spacing 5m x 5m (for gap filling with 200 seedlings) with sticks of 1m long and 15 cm wide including collection of sticks etc.	Feb - Mar	5
4	Fencing	March-April	15
5	Digging of pits 30cm x 30cm x 30 cm size for 200 seedlings at 5m x 5m spacing and slashing down the new growth of weeds	Feb - Mar	5

SI No	Particular of work and specifications	Time of work	Man days/ha
6	Application of required PPC (plant protection chemical) fertilizer including anti termite.		400 @Rs.2.00 per pit
7	Re-filling of pits after removal of foreign materials, breaking of clods, carrying of nursery seedlings upto plantation site and planting	Mar - Apr	5
8	Re-survey using GPS	Sep-Oct	2
9	First Weeding and Vacancy Filling including base cleaning in rings at a radius of 0.75 m by scraping with spade and cutting of weeds in between the lines flush to the ground level including vacancy filling with required plant spp including digging of pits, refilling & planting	Jun - Jul	8
10	Earth Mounding for bamboo spp. with scraping of soil with spade ramming properly upto 1.25 m dia.	Feb - Mar	2

SI No	Particular of work and specifications	Time of work	Man days/ha
11	Second Weeding including base cleaning in rings at a radius of 0.75 m by scraping with spade and cutting of weeds in between the lines flush to the ground level.	Aug - Sep	8
12	Winter cleaning& Making of fire line 4m wide& diagonal Inspection path 1 m wide by scraping with spade and maintenance of the same throughout the dry season.	Dec - Jan	5
13	Engagement of a watch and ward responsible for maintenance of fencing, cattle watching etc. His continuation will be based on survival percentage of seedling. Watch and ward for min. 10 ha. (contiguous or discrete).	Nov- April	30
Total		111 MD @541/day + Rs.400/-	60,451

2nd Year Maintenance, 2025 ANR Bamboo Plantations

SI No	Particular of work and specifications	Time of work	Man days/ha
1	First Weeding including base cleaning in rings at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines flush to the ground level including vacancy filling including digging of pits, refilling & planting including carrying of seedlings.	May-June	8
2	Second Weeding including ring cleaning at base at a radius of 0.5 m by scraping with spade and cutting of weeds in between the lines flush to the ground level	Aug- Sept	8
3	Making of fire line 4 m wide & a diagonal inspection path 1 m wide by scraping with spade and maintenance of the same throughout the dry season.	Dec- January	5
4	Earth Mounding with scraping of soil with spade ramming properly up to 125 m dia.	Feb-March	2
5	Engagement of a watch and ward responsible for maintenance of fencing, cattle watching etc. His continuation will be based on survival percentage of seedling Watch and Ward for min.10 ha. (contiguous or discrete).	Nov- April	30
6	Compost & Mulching	March-April	4
Total MDs		57 (@541/MD)	30,837

Cost Norm for Bio-fencing and boundary plantation with bamboo seedlings for 2026

Per ha of bamboo seedlings to be planted is 80 nos.

Cost norm for 1st year-

1. Cost for transportation + pit digging + planting=10 MD @541 MD=5410/-
 2. 1st weeding=5 MDs @541MD=2705/-
 3. Winter cleaning=5 MDs @541 MD=2705/-
- Total =10,820 per ha

Cost Norm for Bio-fencing and boundary plantation with bamboo rhizomes for 2026

Per ha of bamboo rhizome to be planted is 80 nos.

Cost norm for 1st year-

1. Cost of Rhizome @Rs.50/- per rhizome for 80 rhizomes=Rs.4000/-
 2. Cost for transportation + pit digging + planting=10 MD @541 MD=5410/-
 3. 1st weeding=5 MDs @541MD=2705/-
 4. Winter cleaning=5 MDs @541 MD=2705/-
- Total =14,820 per ha

Cost Norm for Bio-fencing with Assam lemon for the elephant corridor area for 2026

Per ha of Assam Lemon seedlings to be planted are 1280 seedlings

1. Cost of seedling (non-grafted) =@20/seedling =25,600/-
 2. Cost for seedling transportation + pit digging + planting=25 MD @541 MD=13,525/-
 3. FYM @500gm /plant for 1280 plants=640 kg @5/-=3200/-
 4. FYM application 4 MD@541/-=2164/-
 5. 1st weeding 5 MD & Winter Cleaning 5MD @10 MD@541/- =5410/-
 6. 1st weeding 5 MD & Winter Cleaning 5MD for 4 years @10 MD@541/- =21,640/- (community land)
 7. Incentive to land owner on survival @10/- per plant up to 4 years =51,200/- Private land
- Total = 49,899 per ha for 1st year

Guidelines for bio-fencing in Elephant corridor areas with Assam Lemon

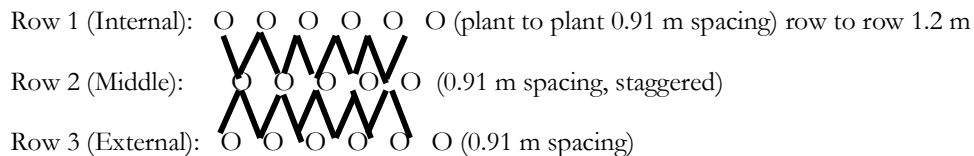
A three-layer (three-row) lemon plant biofence is an effective, sustainable, and eco-friendly method to protect agricultural fields or residential areas from elephant raids. The strategy, successfully tested in Assam, India, relies on dense, thorny, and aromatic lemon trees to deter elephants while providing extra income to farmers.

Following is the layout plan :

1. Planting Layout Design

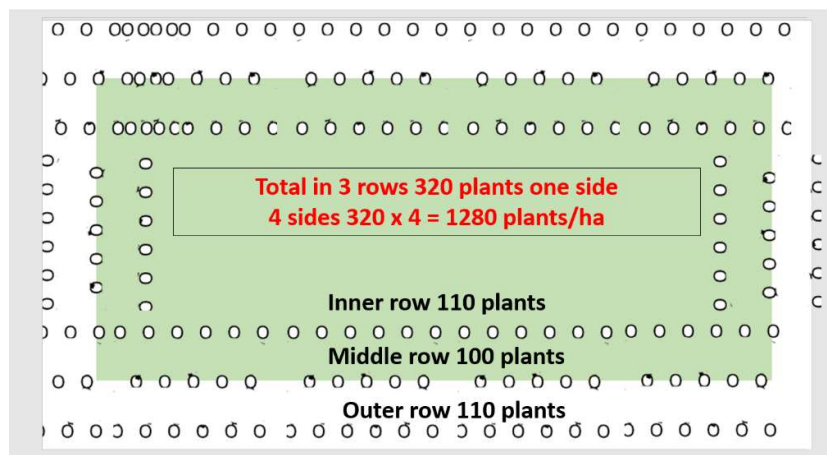
- **Three-Row Structure:** Lemon saplings are planted in a zigzag pattern in three distinct, parallel rows to form a thick, impenetrable hedge.
- **Zigzag/Alternating Pattern:** Plants in each row should be placed at positions alternate to the rows adjacent to them.
- **No Space (Density):** The saplings are planted very close together within the rows to ensure they grow into a tightly intertwined barrier rather than separate trees.
- **Total Barrier Length:** The fence must surround the entire targeted farmland.

Layout Diagram on one side of the boundary:



2. Spacing and Density Recommendations

- **Inter-row Spacing (Distance between row 1, 2, and 3):** Maintain about 3 to 4 feet between the rows.
- **Intra-row Spacing (Distance between plants in a single row):** Plant saplings roughly 2.5 to 3 feet apart.
- **Total Rows per side:** 3 (Three).



Layout Diagram on four sides of the boundary



3. Key Components

- **Variety:** Use thorny, fast-growing local lemon varieties (e.g., Assam Lemon).
- **Maturation:** It takes roughly 3-4 years for the lemon trees to grow into a formidable barrier, but the olfactory (smell) deterrence begins earlier.
- **Maintenance:** Regularly water and manage the bushes to keep them thick and thorny.