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Community-based Forest Management and
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Meghalaya Livelihood Improvement
through Forest Enhancement



Meghalaya Basin
Development Authority



Japan International
Cooperation Agency

No PLN/MBDA/02751/2024/NF/2301

Dated: Shillong, the ...^{8th} April, 2025

Office Order

Sub: Revised Cost Norm for 2025 MegLIFE Plantations

Enclosed herewith revised cost norm for 2025 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/5-A dt 3rd December, 2024 (i.e., Rs. 419/- per person day).

Village-wise model-wise sanctions for 1st year creation for 2025 plantations and 2nd year maintenance for 2024 plantations and 3rd 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 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 2025 and also maintenance for 2024 & 2023 plots. Finalization of labour list and withdrawal of fund should be discussed in VPIC Executive Committee Meeting and 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 2025 plantations

// By Order//

(Shri Gunanka Deb, IFS)
Additional 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

pratik
Technical Specialist, Project Management
MegLIFE, MBDA Shillong

Cost Norms for the Plantation Model 'Restoration of Timber Species' (ANR)
/Retoration of Degraded Land with Natural Vegetation (ANR) with planting of
maximum 400 seedlings per ha.

Labour Wages: Rs. 419/ for unskilled workers.

Sl no.	Item of works	Time of Work	Unit/man-days per 1 ha.	Amount (In Rs)
0th Year-Advance Work: Plantation Year 2025				
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	838
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	1,257
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 root stock.	Feb-March	2	838
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	12570
<u>Total</u>		37		16.503
1st Year-Planting-Plantation year 2025				
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	2,514
7	<u>Transportation of seedlings and planting:</u>	May-June	15	6,285

Sl no.	Item of works	Time of Work	Unit/man-days per 1 ha.	Amount (In Rs)
	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.			
8	<u>Resurvey using GPS:</u>	June-July	2	838
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	6,285
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	6,285
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	5028
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	2095
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.		10	4190
<u>Total</u>			65	33,520
<u>2nd year Plantation-Maintenance: Plantation Year 2024</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	2095

Sl no.	Item of works	Time of Work	Unit/man-days per 1 ha.	Amount (In Rs)
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	6,285
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 in between the lines and flushing to the ground level	August-Sep	15	6,285
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	5028
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	2095
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.		10	4190
<u>Total</u>			62	25,978

3rd Year-Maintenance 2023

<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	6285
<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	6285
<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	5028

Sl no.	Item of works	Time of Work	Unit/man-days per 1 ha.	Amount (In Rs)
	<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	2095
	<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	4190
<u>Total</u>			57	23833

Cost Norms for the Plantation Model 'Afforestation on Barren Lands' (Artificial Regeneration) with planting of 1111 seedlings/ ha. In 3Mx3M spacing.

Labour Wages: Rs. 419/ for unskilled workers.

S. No	Item of Work	Time of work	Unit/Man-days/ Per Ha	Amount in Rs.
0th Year-Advance Work: Plantation Year 2024				
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	838
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	2095
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	12570
Total			37	16503
1st Year-Planting-Plantation Year 2024				
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	4190
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	12,989
8	<u>Resurvey using GPS:</u>	June-July	2	838
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	6,285
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	6,285
11	<u>Third Weeding / Winter Cleaning</u> including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade	Oct-Nov	12	5028

S. No	Item of Work	Time of work	Unit/Man-days/ Per Ha	Amount in Rs.
	and cutting of weeds in between 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	2095
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.		10	4190
Total			100	41,900
2nd year Plantation-Maintenance: Plantation Year 2024				
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	7961
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	6285
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 in between the lines and flushing to the ground level	August-Sep	15	6285
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	5028
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	2095
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	4190
Total			76	31,844
3rd Year-Maintenance 2023				
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	6285
21	<u>Second Weeding</u> including base cleaning (Ring Cleaning) at a radius of 0.5 m by scraping with spade and cutting of	August-Sep	15	6285

S. No	Item of Work	Time of work	Unit/Man-days/ Per Ha	Amount in Rs.
	weeds in between the lines and flushing to the ground level			
22	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	5028
23	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	2095
24	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	4190
Total			57	23833

MegLIFE Agroforestry Cost Norm, 2025

Model-1

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

2025 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.	20	1400
Lemon/Orange	92 nos.	20	1,840
Turmeric	300 kg	22	6600
Maize	8 kg	61	488
Citronella/Lemon Grass	7500	1	7500
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
Carbofuran	20 kg	100	2000
Chloropyriphos	3 lit.	250	750
Sub Total			39,656

2025 1st Year Cost –Labour Cost

Jungle Clearing	5 MD	419	2095
Land Development	12 MD	419	5028
Layout	10 MD	419	4190
Pit digging	20 MD	419	8380
Transporting/Planting	20 MD	419	8380
Intercultural Operation (2 times/year)	30 MD	419	12570
Fencing Labour	12 MD	419	5028
Aroma Grass Hedgerow	16 MD	419	6704
Sub-Total	125 MD	419	52,375

Maintenance Cost (2023 2nd year & 2024 1st Year)

Maintenance (material 6 MD + Intercultural operation 17 MD)	23 MD	419	9637
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Model-2

Duabanga/Champa/Toona/Gmelina + Lemon/Orange + Litchi + Turmeric + Maize

2025 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.	20	1400
Lemon/Orange	92 nos.	20	1840
Turmeric	300 kg	22	6600
Maize	8 kg	61	488
Tej Patta	100	10	1000
Citronella/Lemon Grass	7500	1	7500
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
Carbofuran	20 kg	100	2000
Chloropyriphos	3 lit.	250	750
Sub Total			40,656

2025 1st Year Cost –Labour Cost

Jungle Clearing	5 MD	419	2095
Land Development	12 MD	419	5028
Layout	10 MD	419	4190
Pit digging	20 MD	419	8380
Transporting/Planting	20 MD	419	8380
Intercultural Operation (2 times/year)	30 MD	419	12570
Fencing Labour	12 MD	419	5028
Aroma Grass Hedgerow	16 MD	419	6704
Sub-Total	125 MD	419	52,375

Maintenance Cost (2023 2nd year & 2024 1st Year)

Maintenance (material 6 MD + Intercultural operation 17 MD)	23 MD	419	9637
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Model-3

Duabanga/Agar + Lemon + Turmeric

2025 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.	20	3700
Turmeric	300 kg	22	6600
NFP Seed	1.2 kg	700	840
Fencing	400 mtr.	LS	5,258
Fencing pole	400 no.	4	1600
Urea (Basal+ Interculture Operations)	150 kg	7	1050
Rock Phosphate	150 kg	7	1050
MOP	100 kg	15	1500
Compost	10 MT	550	5500
Carbofuran	20 kg	100	2000
Chloropyriphos	3 lit.	250	750
Sub Total			32,968

2025 1st Year Cost –Labour Cost

Jungle Clearing	5 MD	419	2095
Land Development	12 MD	419	5028
Layout	10 MD	419	4190
Pit digging	20 MD	419	8380
Transporting/Planting	20 MD	419	8380
Intercultural Operation (2 times/year)	30 MD	419	12570
Fencing Labour	12 MD	419	5028
NFP Hedgerow	32 MD	419	13408
Sub-Total	141 MD	419	59079

Maintenance Cost (2023 2nd year & 2024 1st Year)

Maintenance (material 6 MD + Intercultural operation 17 MD)	23 MD	419	9637
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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.	20	3700
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
Urea (Basal+ Interculture Operation)	150 kg	7	1050
Rock Phosphate	150 kg	7	1050
MOP	100 kg	15	1500
Compost	10 MT	550	5500
Carbofuran	20 kg	100	2000
Chloropyriphos	3 lit.	250	750
Sub Total			59,244

2025 1st Year Cost –Labour Cost

Jungle Clearing	5 MD	419	2095
Land Development	12 MD	419	5028
Layout	10 MD	419	4190
Pit digging	20 MD	419	8380
Transporting/Planting	20 MD	419	8380
Intercultural Operation (2 times/year)	30 MD	419	12570
Fencing Labour	12 MD	419	5028
NFP Hedgerow	32 MD	419	13408
Sub-Total	141 MD	419	59079

Maintenance Cost (2023 2nd year & 2024 1st Year)

Maintenance (material 6 MD + Intercultural operation 17 MD)	23 MD	419	9637
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Model-5

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

2025 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.	20	1,380
Pineapple	4000 nos. (sucker)	5	20000
Maize	8 kg	61	488
Tej Patta/Parkia	100	15	1500
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
Carbofuran	20 kg	100	2000
Chloropyriphos	3 lit.	250	750
Sub Total			47,746

2025 1st Year Cost –Labour Cost

Jungle Clearing	5 MD	419	2095
Land Development	12 MD	419	5028
Layout	12 MD	419	5028
Pit digging	22 MD	419	9218
Transporting/Planting	22MD	419	9218
Intercultural Operation (2 times/year)	30 MD	419	12570
Fencing Labour	12 MD	419	5028
Sub-Total			48185

Maintenance Cost (2023 2nd year & 2024 1st Year)

Maintenance (material 6 MD + Intercultural operation 17 MD)	23 MD	419	9637
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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.**

2025 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	1600 rhizome	5	8000
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
Carbofuran	20 kg	100	2000
Chloropyriphos	3 lit.	250	750
Sub Total			38988

1st Year Cost –Labour Cost

Jungle Clearing	5 MD	419	2095
Land Development	12 MD	419	5028
Layout	10 MD	419	4190
Pit digging	20 MD	419	8380
Transporting/Planting	20 MD	419	8380
Intercultural Operation (2 times/year)	30 MD	419	12570
Fencing Labour	12 MD	419	5028
Sub-Total	115 MD	419	48185

Maintenance Cost (2023 2nd year & 2024 1st Year)

Maintenance (material 6 MD + Intercultural operation 17 MD)	23 MD	419	9637
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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.)
1st 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	100/gm	60000
Turmeric	300 kg	22	6600
NFP Seeds	1.2 Kg	700	840
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
Carbofuran	20 kg	100	2000
Chloropyriphos	3 lit.	250	750
Sub Total			98,648

2025 1st Year Cost –Labour Cost

Jungle Clearing	5 MD	419	2095
Land Development	12 MD	419	5028
Layout	10 MD	419	4190
Pit digging	20 MD	419	8380
Transporting/Planting	20 MD	419	8380
Intercultural Operation (2 times/year)	30 MD	419	12570
Fencing Labour	12 MD	419	5028
NFP Hedgerow	32 MD	419	13408
Sub-Total	141 MD	419	59079

Maintenance Cost (2023 2nd year & 2024 1st Year)

Maintenance (material 6 MD + Intercultural operation 17 MD)	23 MD	419	9637
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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.)
1 st Year Material Cost			
Alnus nepalensis/Toona ciliata/Prunus ceratoides	208 nos.	15	3120
Plum (Grafted)	70 nos.	42	2,940
Sweet Orange	70 nos.	70	4900
Turmeric	300 kg	22	6600
Maize	8 kg	61	488
NFP Seeds	1.2 kg	700	840
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
Carbofuran	20 kg	100	2000
Chloropyriphos	3 lit.	250	750
Sub Total			37 596

2025 1st Year Cost –Labour Cost

Jungle Clearing	5 MD	419	2095
Land Development	12 MD	419	5028
Layout	10 MD	419	4190
Pit digging	20 MD	419	8380
Transporting/Planting	20 MD	419	8380
Intercultural Operation (2 times/year)	30 MD	419	12570
Fencing Labour	12 MD	419	5028
NFP Hedgerow	32 MD	419	13408
Sub-Total	141 MD	419	59079

Maintenance Cost (2023 2nd year & 2024 1st Year)

Maintenance (material 6 MD + Intercultural operation 17 MD)	23 MD	419	9637
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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.	25	3,825
Potato	18 quintal x 2 times	40/kg	1,44,000
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
Carbofuran	20 kg	100	2000
Chloropyriphos	3 lit.	250	750
Sub Total			1,68,033

1st Year Cost –Labour Cost

Jungle Clearing	5 MD	419	2095
Land Development	12 MD	419	5028
Layout	10 MD	419	4190
Pit digging	20 MD	419	8380
Transporting/Planting	20 MD	419	8380
Intercultural Operation (2 times/year)	30 MD	419	12570
Fencing Labour	12 MD	419	5028
Sub-Total	115 MD	419	48185

Maintenance Cost (2023 2nd year & 2024 1st Year)

Maintenance (material 6 MD + Intercultural operation 17 MD)	23 MD	419	9637
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Model-11

Aroma grass & Pine tree

2025 Cost Estimate @419/MD

Sl No.	Item of works	Man-days/no.	Amount
1 st Year	Survey of site using GPS	2	838
	Marking of boundaries at strategic points	LS	1000
	Seedling cost	357nos. @22	7864
	Transportation	2.7	1131
	Digging of pits of size 45cm*45 cm*45 cm 357 nos	16	6704
	Land development & Planting	220	92180
	Cost of Planting material	50000 slips	62,500
	Transportation	LS	5,000
	Trimming	14	5866
	Gap filling	14	5866
	Weeding	30	12570
	Harvesting	84	35196
	Fuel wood	-	15000
	Water/ Electric charges	-	3000
	Distillation charge	42	17598
Total			2,72,313

2025 Cost Estimate Maintenance @419/MD

Sl No.	Item of works	Mandays/qty.	Amount
2 nd year	Harvesting	84	35,196
	Fuel wood	-	15000
	Water/ Electric charges	-	3000
	Distillation charge	42	17598
	Vacancy Filling	7	2933
	Fire watcher and fireline	15	6285
	Total		80,012
3 rd year	Harvesting	84	35,196
	Fuel wood	-	15000
	Water/ Electric charges	-	3000
	Distillation charge	42	17598
	Vacancy Filling	7	2933
	Fire watcher and fireline	15	6285
	Total		80,012

2025 Cost Estimate Maintenance @419/MD

Sl No.	Item of works	mandays	Amount
4 th year	Harvesting	84	35,196
	Fuel wood	-	15000
	Water/ Electric charges	-	3000
	Distillation charge	42	17598
	Vacancy Filling	7	2933
	Fire watcher and fireline	15	6285
Total			80,012

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	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	419	2095
Land Development	12 MD	419	5028
Layout	6 MD	419	2514
Pit digging	15 MD	419	6285
Transporting/Planting	15 MD	419	6285
Intercultural Operation (2 times/year)	15 MD	419	6285
Fencing Labour	12 MD	419	5028
Sub-Total			33520

Maintenance Cost

Follow up Maintenance (material 6 MD + Intercultural operation 10 MD) (4 yrs.)	16 MD	419	6704
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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.	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	419	2095
Land Development	12 MD	419	5028
Layout	6 MD	419	2514
Pit digging	15 MD	419	6285
Transporting/Planting	15 MD	419	6285
Intercultural Operation (2 times/year)	15 MD	419	6285
Fencing Labour	12 MD	419	5028
Sub-Total			33520

Maintenance Cost

Follow up Maintenance (material 6 MD + Intercultural operation 10 MD) (4 yrs.)	16 MD	419	6704
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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	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	419	2095
Land Development	12 MD	419	5028
Layout	6 MD	419	2514
Pit digging	15 MD	419	6285
Transporting/Planting	15 MD	419	6285
Intercultural Operation (2 times/year)	15 MD	419	6285
Fencing Labour	12 MD	419	5028
Sub-Total			33520

Maintenance Cost

Follow up Maintenance (material 6 MD + Intercultural operation 10 MD) (4 yrs.)	16 MD	419	6704
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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	686 nos.	60	41,160
Fencing	400 mtr.	LS	5,258
Fencing pole	400 no.	4	1600
Compost	35 MT	550	19,250
Sub Total			68,768

1st Year Cost –Labour Cost

Jungle Clearing & Staking	15 MD	419	6285
Pit digging	30 MD	419	12,570
planting, staking, mulching, shading	10 MD	419	4,190
Weeding twice a year	10 MD	419	4,190
Fencing Labour	5 MD	419	2,095
Pruning & removal of chupons, cherelles, diseased pods, transportation of inputs	10 MD	419	4,190
Application of manures and Plant protection-spraying	10 MD	419	4,190
Sub-Total			37,710

A detailed illustration of bamboo stalks and leaves. The bamboo stalks are green with distinct horizontal nodes. The leaves are dark green and elongated, some showing signs of being eaten. The background is a solid dark green. The text is overlaid on the right side of the image.

Cost Norms for Bamboo Plantation

Bamboo through rhizome/offsets

4.5m x 4.5m spacing with rhizome (one year old) 495 plants per ha for species

- *Bambusa vulgaris*
- *Bambusa balcooa*
- *Bambusa cacharensis*
- *Dendracalamus hamiltonii*
- *Bambusa pallida*
- *Bamusa polymorpha*

3m x 3m spacing with Bamboo rhizome (one year old) 1,111 Rhizomes per ha for species *Bambusa tulda*

Bamboo plantation through seedlings

4.5X4.5M spacing with poly bag seedlings (one year old) 495 plants per ha for species

- *Bambusa vulgaris*
- *Bambusa balcooa*
- *Bambusa cacharensis*
- *Dendracalamus hamiltonii*
- *Bambusa pallida*
- *Bamusa polymorpha*

3m x 3m spacing with Bamboo poly bag seedlings (one year old) 1,111 Rhizomes per ha for species *Bambusa tulda*

1st Year creation and Maintenance

SI No	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	5
2	Site preparation including cutting of jungle slush to the ground, disposal of debris etc. complete.	Jan - Feb	15
3	Staking at spacing 4.5 mx4.5 m (495 rhizomes) with sticks of 1m long and 15 cm wide including collection of sticks etc complete to be done along the contour in slopes and in East West direction in plains	Feb - Mar	15
4	Digging of pits 50cm x 50cm x 50 cm size for 495 rhizomes at 4.5m X 4.5m spacing and slashing down the new growth of weeds	Feb - Mar	15

SI No	Particular of work and specifications	Time of work	Man days/ha
5	Re-filling of pits after removal of foreign materials, breaking of clods and planting rhizome and carrying of rhizome upto plantation site etc. complete including cutting down the new shoots of weeds. 20% rhizome should be retained in sand bed for vacancy filling.	Mar - Apr	15
6	Application of required PPC (plant protection chemical) fertilizer including anti termite.		800 @Rs.2.00 per pit
7	Cost of rhizomes/seedling/sapling Including vacancy filling		50
8	Re-survey using GPS	Sep-Oct	5
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 with required plant spp including digging of pits, refilling & planting including carrying of seedlings.	Jun - Jul	15
10	Earth Mounding for bamboo spp. with scraping of soil with spade ramming properly upto 1.25 m dia.	Feb - Mar	5

SI No	Particular of work and specifications	Time of work	Man days/ha
11	Second Weeding 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.	Aug - Sep	10
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
14	Fencing	March-April	15
15	Signboard	-	1000
Total		200 MD @419/day	85,600
Bamboo Mission			46,800
MegLIFE			38,800

2nd Year Maintenance

SI No	Particular of work and specifications	Time of work	Man days/ha
1	First Weeding including base cleaning in thali 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 with required plant spp. including digging of pits, refilling & planting including carrying of seedlings.	May-June	15
2	Second Weeding including base in thali 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	10
3	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- January	5
4	Earth Mounding with scraping of soil with spade ramming properly up to 125 m dia.	Feb-March	10
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
	Total MDs	70 (@419/MD)	29,330
6	Fertilizer & Mulching Material		1870
7	Total	Bamboo Mission	31,200

3rd Year Maintenance

SI No	Particular of work and specifications	Time of work	Man days/ha
1	First Weeding including base cleaning in thali 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 with required plant spp. including digging of pits, refilling & planting including carrying of seedlings.	May-June	15
2	Second Weeding including base in thali 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	10
3	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- January	5
4	Earth Mounding with scraping of soil with spade ramming properly up to 125 m dia.	Feb-March	10
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
	Total MDs	70 (@419/MD)	29,330
6	Fertilizer & Mulching Material		1870
7	Total	MegLIFE	31,200

Artificial Regeneration through Seed *Melocanna baccifera* Spacing 3m x 3m (No of pits 1111/ha (one year old)

1st Year Creation & Maintenance

SI No	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	5
2	Site preparation including cutting of jungle slush to the ground, disposal of debris etc. complete.	Jan-Feb	15
3	Staking at spacing 3 m x 3 m (1111 rhizomes) with sticks of 1m long and 15 cm wide including collection of sticks etc. complete to be done along the contour in slopes and in East West direction in plains	Feb - Mar	15
4	Digging of pits 30cm x 30cm x 30 cm size for 1111 Bamboo rhizomes at 3mX3m spacing and slashing down the new growth of weeds.	Feb-March	15
5	Cost of seed 1111 Nos.		5555 (Rs.5/-)

SI No	Particular of work and specifications	Time of work	Man days/ha
6	Refilling of pits, after removal of foreign materials, and planting including carrying of seedlings. The sowing of seeds should be done placing the seeds in horizontal position. After planting of the seeds, the pit is refilled in such way that the 10 cm layer of earth cover the seed. This will help the seed to take the nutrient of the top layer of the soil. The pits should be filled making small mound (so that on onset of rain it becomes level with the ground) to avoid any water stagnation as this will result in rotting of the seeds. Care should be taken to ensure that seeds sown are mature seeds and planting is done within in one month of collection.	June-July	30
7	Application of required PPC (plant protection chemical) fertilizer including anti termite.		1111 (@ Rs 1/- per plant)
8	Re-survey using GPS	June	5

SI No	Particular of work and specifications	Time of work	Man days/ha
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 with required plant spp. including digging of pits, refilling & planting including carrying of seedlings.	June-July	15
10	Second weeding 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.	Aug-Sep	15
11	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-January	15
12	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
13	Signboard		1000
14	Fencing	March-April	30
Total			86181
			B (46,800) M(39,381)

2nd Year Maintenance

SI No	Particular of work and specifications	Time of work	Man days/ha
1	First Weeding including base cleaning in thali 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 with required plant spp. including digging of pits, refilling & planting including carrying of seedlings.	May-June	15
2	Second Weeding including base in thali 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	10
3	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-January	5
4	Earth Mounding with scraping of soil with spade ramming properly up to 125 m dia.	Feb-March	10
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
	Total MDs	70 (@419/MD)	29,330
6	Fertilizer & Mulching Material		1870
7	Total	Bamboo Mission	31,200

3rd Year Maintenance

SI No	Particular of work and specifications	Time of work	Man days/ha
1	First Weeding including base cleaning in thali 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 with required plant spp. including digging of pits, refilling & planting including carrying of seedlings.	May-June	15
2	Second Weeding including base in thali 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	10
3	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-January	5
4	Earth Mounding with scraping of soil with spade ramming properly up to 125 m dia.	Feb-March	10
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
	Total MDs	70 (@419/MD)	29,330
6	Fertilizer & Mulching Material		1870
7	Total	MegLIFE	31,200

Budget for lavender cultivation/acre for Pilot project in Mawmuthoh under Mawryngkneng Block.						
For 1'st year						
Sl. No.	Particulars	Details	Unit/acre	Rate/unit/Mandays	Total Cost	Specifications
1	Land preparation and planting	Clearing, levelling, soil amendment	65 MD	419	₹ 27,235	
2	Lavender cuttings		5,500	0	₹ 0	Supplied by IIIM
3	Irrigation system	Water storage, HDPE pipeline for main supply, dripping system installation	1	96350	₹ 96,350	60 cm plant to plant distance and 150 cm row to row
4	Manuring	Fully decomposed cow dung	2 ton	3500	₹ 7,000	
5	Mulching Film (50 Micron)	Used for moisture retention & weed suppression	7 rolls	9600	₹ 67,200	
6	Liming	pH Adjustment	1 ton	20	₹ 2,000	
7	Cost of plant protection equipment			5000	₹ 5,000	
8	Agri net for Fencing		5 rolls	2800	₹ 14,000	
Total per acre					₹ 2,18,785	
Total required for 3 acres				3	₹ 6,56,355	
For 2'nd year (if milestone is achieved: i.e. Pops are followed and 80% survival rate)						
Sl. No.	Particulars		Unit/acre	Rate/unit/Mandays	Total Cost	Specifications
1	Lavender cuttings for gap filling		₹ 0	0	₹ 0	Cutting will be generated from existing plantation in nursery
2	Cost of cultivation and intercultural operations		10 MD	419	₹ 4190	
3	Cost of manure		2 tons	3500	₹ 7,000	
4	Cost of plant protection equipment		₹ 5,000		₹ 5,000	
Total per acre					₹ 16,190	
Total required for 3 acres				3	₹ 48,570	
Total cost of intervention for 2 years			₹ 7,04,925			

Budget for planting forestry trees in periphery in Lavendar Agroforestry in Mawmuthoh under Mawryngkneng Block					
For 1 st year					
Sl. No.	Particulars	Details	Unit/acre	Rate/unit/Mandays	Total Cost
1	Forestry Tree (Exbucklandia/Wild Cherry)	250 trees 4m x 4m spacing	250	15	₹ 3750
2	Pit digging & planting		15 MD	419	₹ 6285
Total per acre					₹ 10,035
Total required for 3 acres				3	₹ 30,105
4 years Maintenance					
Sl. No.	Particulars		Unit/acre	Rate/unit/Mandays	Total Cost
1	Vacancy filling & Weeding		10 MD	419	₹ 4190
Total per acre					₹ 4190
Total required for 3 acres				3	₹ 12,570
For 4 Years					₹ 50,280

Total Cost Lavendar Plantation & Forestry Tree Plantation=7,85,310/-