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Meghalaya Livelihood Improvement
through Forest Enhancement



Meghalaya Basin
Development Authority



Japan International
Cooperation Agency

No. MBDA/JICA/2023/12/2285

Dated: Shillong, the 24th March, 2025

Office Order

The following are the revised estimates for the implementation of half-moon terraces in the 2024 plantation plots, having >20-50 Percent Slope.

Three models that were implemented in 2023 plantations will remain same. The average cost for the construction of these terraces has been revised and calculated at Rs. 12,300 per hectare with revised wage rates (Rs.395/- per ha).

Furthermore, the new blocks of Group 2 villages have been categorized into three models, as discussed during the review meetings held in Shillong and Tura.

| Model | BPMUs where to be implemented | No. of Terraces/ha | 2023 Estimate (Wage rate @Rs.381) | 2024 Estimate (Wage rate @Rs.395) |
|---------|---|--------------------|-----------------------------------|-----------------------------------|
| Model 1 | Gambegre, Dalu, Dadengre, Selsella, Demdema, Tikrikila, Bagmara, Gasuapara, Rongara, Resubelpara, Kharkutta | 67 Nos | Rs. 11,911 | Rs. 12,145 |
| Model 2 | Rongram, Betasing, Zikzak, Saipung | 50 Nos | Rs. 11,885 | Rs. 12,061 |
| Model 3 | Mairang, Thadlaskein, Laskein | 35 Nos | Rs. 12,585 | Rs. 12,708 |
| | | Average | Rs. 12,127 | Rs. 12,305 |
| | | Say | Rs. 12,000 | Rs. 12,300 |

Detail revised cost norms for all 3 models are attached herewith for reference and necessary action. This is to note that, sanctions are issued VPIC wise on the average rate i. e. 12,300/- per ha. However, accounts have to be booked on the actuals as per the cost norms.

//By Order//

(Shri Gunanka DB, IFS)

Joint Secretary to the Govt. of Meghalaya
Executive Director, MBDA
Additional Project Director
MegLIFE, MBDA Shillong

To:

1. The Deputy Project Director, MegLIFE, MBDA
2. SPMU Finance
3. All DPMs/BPMs
4. Accountants of DPMUs/BPMUs

-For Necessary Action

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Technical Specialist, Project Management
MegLIFE, MBDA Shillong

Attachment 3(a)

Estimation for Half-moon Terraces (10ha) using Bamboo/Logs (Revised for 2024-25)

| S.No. | Particulars | Quantity | Unit | Unit Rate | Total Cost (INR) |
|-------|--|----------|-------|-----------|------------------|
| 1 | Distance between lines of Terraces | 15 | m | | |
| 2 | No of half moon terraces required for 10 ha | 667 | Nos. | | |
| 3 | Length of half moon terrace bund L(m) = $22/7 * \text{radius(m)}$; Diameter of terrace=2.5m | 3.93 | m | | |
| 4 | No . of Poles required | 10 | Nos. | | |
| 5 | Length of bamboos required for poles | 13 | m | | |
| 6 | No of interweaves | 12 | Nos. | | |
| 7 | Length of bamboos required for interweave (Interweave of 4 m each/4) | 12 | m | | |
| 8 | Total Length of Bamboos required in one half moon terrace | 25 | m | | |
| 9 | Cost of Bamboo (@Rs 3.00/m) | | INR | 3 | 75 |
| 10 | Transportation/Cutting Charges of Bamboo (@ Rs. 0.10/m) | | INR | 0.10 | 3 |
| 11 | Excavation for the Poles | 0.024 | cum | 213 | 5 |
| 12 | Labour Charges (1/4 day) | | INR | 395 | 99 |
| 13 | Miscellaneous (Used Mobile Oil/Coaltar) @0.5% of expenses at S.No. 9,10,11,12 | | @0.5% | | 1 |
| 14 | Construction of half moon terraces by manual means using bamboo for 10 ha | | INR | | 121451 |
| 15 | Per ha cost | | INR | | 12145 |
| 16 | Per terrace cost | | INR | | 182 |

Attachment 3(b)

Estimation for Half-moon Terraces (10ha) using Bamboo/Logs (Revised for 2024-25)

| S.No. | Particulars | Quantity | Unit | Unit Rate | Total Cost (INR) |
|-------|--|----------|-------|-----------|------------------|
| 1 | Distance between lines of Terraces | 15 | m | | |
| 2 | No of half moon terraces required for 10 ha | 500 | Nos. | | |
| 3 | Length of half moon terrace bund L(m) = $22/7 * \text{radius(m)}$; Diameter of terrace=2.5m | 3.93 | m | | |
| 4 | No . of Poles required | 10 | Nos. | | |
| 5 | Length of bamboos required for poles | 13 | m | | |
| 6 | No of interweaves | 12 | Nos. | | |
| 7 | Length of bamboos required for interweave (Interweave of 4 m each/4) | 12 | m | | |
| 8 | Total Length of Bamboos required in one half moon terrace | 25 | m | | |
| 9 | Cost of Bamboo (@Rs 5.25/m) | | INR | 5.25 | 131 |
| 10 | Transportation/Cutting Charges of Bamboo (@ Rs. 0.10/m) | | INR | 0.20 | 5 |
| 11 | Excavation for the Poles | 0.024 | cum | 213 | 5 |
| 12 | Labour Charges (1/4 day) | | INR | 395 | 99 |
| 13 | Miscellaneous (Used Mobile Oil/Coaltar) @0.5% of expenses at S.No. 9,10,11,12 | | @0.5% | | 1 |
| 14 | Construction of half moon terraces by manual means using bamboo for 10 ha | | INR | | 120610 |
| 15 | Per ha cost | | INR | | 12061 |
| 16 | Per terrace cost | | INR | | 241 |

Attachment 3(c)

Estimation for Half-moon Terraces (10ha) using Bamboo/Logs (Revised for 2024-25)

| S.No. | Particulars | Quantity | Unit | Unit Rate | Total Cost (INR) |
|-------|---|----------|-------|-----------|------------------|
| 1 | Distance between lines of Terraces | 15 | m | | |
| 2 | No of half moon terraces required for 10 ha | 350 | Nos. | | |
| 3 | Length of half moon terrace bund L(m) = $22/7 \times \text{radius(m)}$; Diameter of terrace=2.5m | 3.93 | m | | |
| 4 | No . of Poles required | 10 | Nos. | | |
| 5 | Length of bamboos required for poles | 13 | m | | |
| 6 | No of interweaves | 12 | Nos. | | |
| 7 | Length of bamboos required for interweave (Interweave of 4 m each/4) | 12 | m | | |
| 8 | Total Length of Bamboos required in one half moon terrace | 25 | m | | |
| 9 | Cost of Bamboo (@Rs 10.00/m) | | INR | 10 | 250 |
| 10 | Transportation/Cutting Charges of Bamboo (@ Rs. 0.30/m) | | INR | 0.30 | 8 |
| 11 | Excavation for the Poles | 0.024 | cum | 213 | 5 |
| 12 | Labour Charges (1/4 day) | | INR | 395 | 99 |
| 13 | Miscellaneous (Used Mobile Oil/Coaltar) @0.5% of expenses at S.No. 9,10,11,12 | | @0.5% | | 2 |
| 14 | Construction of half moon terraces by manual means using bamboo for 10 ha | | INR | | 127077 |
| 15 | Per ha cost | | INR | | 12708 |
| 16 | Per terrace cost | | INR | | 363 |