



### **Nursery & Plantation Mgt. Techniques** • Seed Collection & Sowing: June-July Seeds are collected from mother . trees and sown in the seedbed or container within 24hrs. entrepreneurs. . Before sowing, the seeds are soaked in water for 18-24 hrs.

# After 1 week, germination starts & completes within 1 month. 1 yr old seedlings are planted during rainy season.

Generally planted at an spacing of 2.5mx2.5m. but in home gardens it may be 1mx1m to 1.5mX1.5m spacing.



# **Artificial Induction**

- Practiced by private
- Indigenous Method.
- Nailing commonly used.
- Chem. Kit method- not popular.

## Nailing Method-

- Nailing done from top to bottom at an age of 8-10 yrs.(Av. GBH 45 cm.) in rows, 3-7 cm apart.
- Nails are 5-15 cm long . Agar deposited in injured areas around nail.





# Nail Removing & Chipping

After 4-5 yrs of nailing, trees are felled, nails are removed and chips are made manually by using sharp axe and Dao (knife)



# **Agar Oil Extraction**

- Very crude & indigenous method.
- Oil extracted through steam distillation process.



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## **Agar Products of Bangladesh**



During 2014, 123.75 tons of Agar chips and 85 liters of Agar oil were exported from Bangladesh.





# **Existing Regulations**

- Moratorium exists on felling trees from natural forests up to 2015.
- Forest Act, 1927 (Last amended in 2000).
- Forest Produce Transit (Control) Rules, 2011.
- Bangladesh Wildlife (Conservation and Protection) Act, 2012.
- As a CITES listed species, extraction and export of Agar products are regulated as per CITES guidelines.

# **Current Challenges**

- No Govt. initiative for commercial production.
- Lack of scientific technique for artificial induction.
- Lack of scientific & efficient technology for production of Agar oil
- Crude method causes misuse of resource & low quality.

