

Variety and Industry Prospective: North East India

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FOCUS 1 : INFRASTRUCTURE LOGISTIC SOLUTION

Backward Linkages

Forward Linkages

Farmers / Farmers Association (4)

SPOKE (Collection Center)

Import & Sale : (3)
Basic Needs (Rice, Dal, Milk, Sugar, Edible Oil, etc.)

Purchase & Export : (5)
Purchase Bamboo, Rattan, Natural fiber, Passion Fruit, Birds Eye Chili, Ginger, etc.

Facilities & Services

Washing, grading, sorting, weighing facilities Banking services. Transport services to main market complex

HUB

- 1) Warehouse Import (2)
- 2) Warehouse Export (6)

Facilities & Services

Electronic weighing facility, Loading and unloading bays, Price information board. Storage facilities including cold storage. Ripening chamber. Systematically arranged trader shops. Garbage disposal system. Processing plan. Bank with ATM, Restaurant & Hotel

(1) Suppliers (Import Basic needs from Mumbai/ Kolkata/Delhi/Bangladesh/ Myanmar)

Retail/ Hotel Chain (7)

Processing Unit (7)

Whole Seller & (7) Institutional Buyers

FOCUS 1

CONCEPT – Slide no 2 shows the movement of goods from sl no 1 to 7

SPOKE – Collection Center at village level

- Building up value chain by taking care of Backward and Forward linkage for Hilly Area by setting up HUB and Spoke format.
- Spoke - collection center will act as retail chain which will sell basic needs to farmers like Rice, pulses, Milk, Edible Oil etc. In 70 collection centres
- We buy back from farmers raw –materials like Bamboo, Natural broom grass, Sugandh Mantri , Betel Nuts, Spices, vegetables and fruits etc.
- We will setup primary unit in all 70 collection centers with 4 cubic meter per day capacity. (280 CBM per day)
- Each collection center will have 100 to 500 hectares plantation land of FSC Certified.
- We will set up Bio gas / Oil in all the collection center so that we can utilized the full leaf

HUB (market / factory / godown / River port)

- We will set up factory for value addition starting with bamboo.
- We will set up godown for storing of basic needs like rice, pulse, milk, edible oil etc
- We will set up a river port to link Chittagong port – Bangladesh, Sittwe port – Myanmar.

STATUS

We had already invested in land for godown and land for factory.

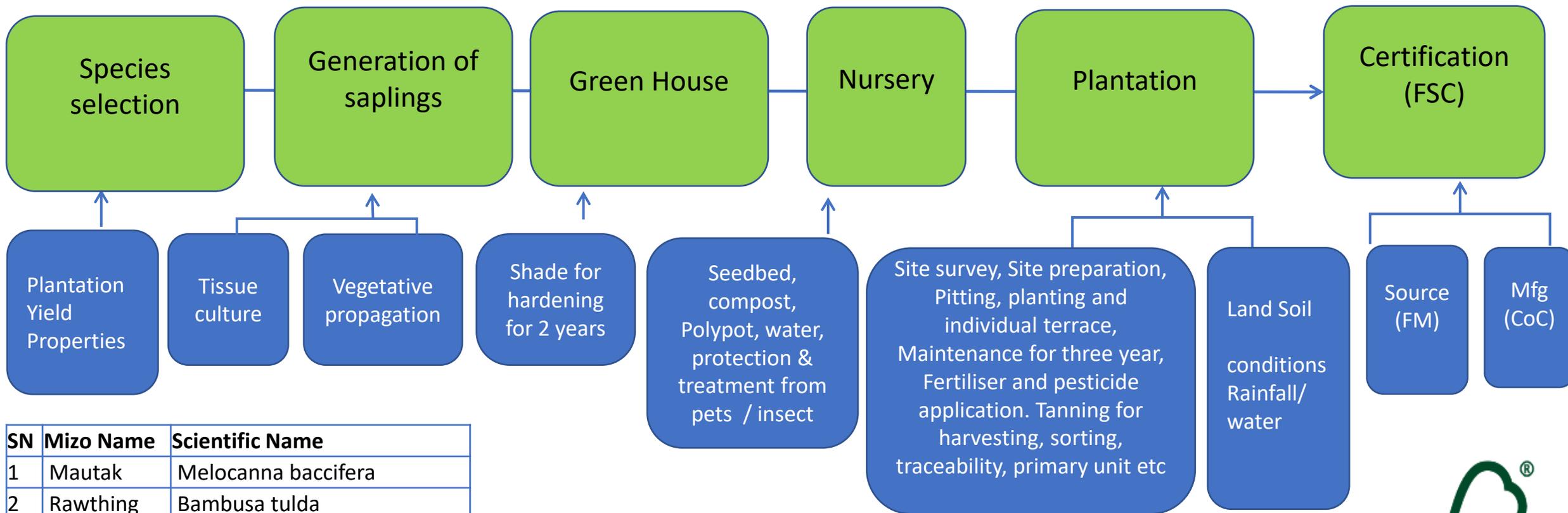
We had the state government clearance for setting up HUB and Spoke format.

FOCUS 2 : PLANTATION

OBJECTIVE : *Improve the quality of bamboo*

SECURING RAW MATERIAL

TARGET : *To meet the demand from Market / industry*



SN	Mizo Name	Scientific Name
1	Mautak	Melocanna baccifera
2	Rawthing	Bambusa tulda
3	Rawthla	Schizostachyum dulloa
4	Rawnal	Dendrocalamus longispathus
5	Phungki rua	Thyrsostachys oleveri
6	Rawpui	Dendrocalamus giganteus
7	Asper	Dendrocalamus Asper
8		Bambusa Membranacea

Working To Develop

- 1) *Own plantation*
- 2) *Cluster & Society*

WORK IN PROGRESS

- 1) *Legality*
- 2) *Society involvement*
- 3) *Environment protection*
- 4) *Best Forest Management*



FOCUS 2 - PLANTATION

We target to have 50000 ha owned and 50000 ha through cluster basis.

The 70 spoke with 500 ha = 35000 ha

We are planning to start 100 hectares broom grass plantation with Gala Brush which we plan to increase 100 ha per year.

Big companies like IKEA, Home Depot, Target etc all demanded value chain – certification.

STATUS

We had invested in land and we are developing 365 hectares of land since 2017.

We had invested in bigger plantation land of about 6700 ha out of which land pass of 3000 ha is already ready.

Saplings & Splitted pole of D.Longispathus



Uses: The culms are used for making temporary constructions, baskets, furniture, mats and containers. This species is generally used as a source of pulp for the manufacture of paper. The culms have been found to be an ideal material for the manufacture of good quality tooth picks.

We started the germination of **D.Longispathus** in the year 2018 which is sourced from own farm at Kawnpui, Kolasib District, Mizoram

Height: 65 ft

Diameter: 10 cm

Local name: Rawnal

Wall Thickness: 1 cm plus at 14 ft

Availability: Very Common

Video 1: <https://youtu.be/XMnIPP0IJmQ>

Video 2: https://youtu.be/vH7yFHB_nGo

Video 3: <https://youtu.be/blZrypsRkik>

Video 4: <https://youtu.be/Q40EaCgElhl>



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Splitting Pole of Bambusa Tulda

Uses: *B.Tulda* culms are generally used for agarbatti, toothbrush, construction, scaffolding, furniture, boxes, basketry, mats, household utensils, handicrafts and as raw material for paperpulp. The young shoots are edible but taste slightly bitter, therefore they are preferably pickled.

Height: 33-75 ft

Diameter: 5-10 cm

Wall Thickness: 1 cm plus at 14 ft

Availability: Common

Local Name: Raw-thing

Origin: India, Bangladesh & Burma

Video 1: <https://youtu.be/7H-9fvQA7MA>

Video 2: https://youtu.be/eAFgSFRTTo_Y

Video 3: <https://youtu.be/R6cYMHODxpE>

Video 4: <https://youtu.be/L8Uh8PCFZO8>

Video 5: <https://youtu.be/03LgQwQCapQ>

Video 6: <https://youtu.be/6GcQm6WBkCA>

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Splitted & Chipped Pole of Melocanna Baccifera

Uses: *M.Baccifera* culms are widely used in house building, to make woven wares (baskets, mats, handicrafts, wall plates, screens, hats) domestic utensils, biomass and are an important source of superior paperpulp.

Height: 33-65 ft

Diameter: 5-9 cm

Wall Thickness: 0.25-0.9 cm

Availability: Most Common

Origin: Thailand, India, Bangladesh & Burma

Video 1: <https://youtu.be/v6RdBxmVGog>

Video 2: <https://youtu.be/-WbP9hBK9JM>

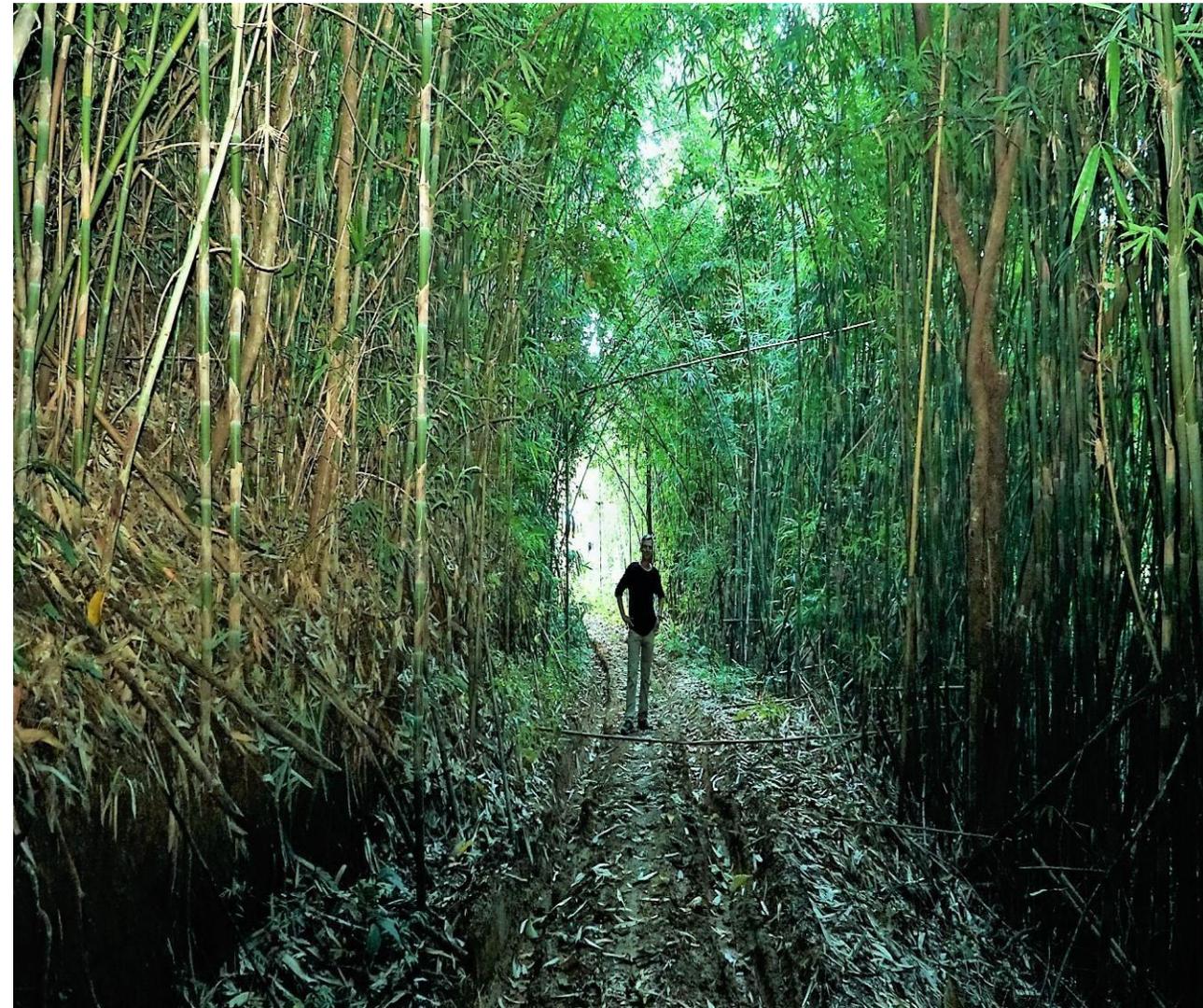
Video 3: <https://youtu.be/ECarqXS9gUQ>

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Saplings of Dendrocalamus Membraneus

Uses: This bamboo is used for building purposes, furniture, bamboo board, agricultural implements, slat traps, matting, chopsticks, basketry, handicrafts, and as props for fruit trees. It is also one of the most promising species for pulp. Shoots are edible and consumed as a vegetable.

We started the seed germination of **Dendrocalamus Membraneus** in the year November 2018 which is sourced from Myanmar.

Height: 20 - 24 m

Diameter: 6 - 10 cm

Growth Habit: Clumping

Climate: Tropical

Hardiness: -4°C

Origin: Southeast Asia

Video: https://youtu.be/jc_sSxlq2sY

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Saplings of Dendrocalamus Giganteus

Uses: Dendrocalamus giganteus is one among the twelve high yielding bamboos worth raising as a large-scale bamboo plantation as it is very good for construction, paper production and young shoots are good for vegetable products. Culms are also used for scaffolding, boat masts, rural housing, water pipes, vases, buckets, water pitchers, matting, boards and parquet, furniture, water pots. Culm sheaths are used to make hats.

We started the seed germination of **Dendrocalamus Giganteus** in the year November 2018 which is sourced from Myanmar.

Height: 25 - 35 m

Diameter: 15 - 30 cm

Growth Habit: Dense Clumping

Climate: Tropical - Subtropical

Hardiness: -1°C

Origin: Southeast Asia

Video: https://youtu.be/uRJnquz_icE

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Local Name: Rawpui

Saplings of Moso (Phyllostachys edulis)

Uses: Moso bamboo is used in a variety of products including timber, fencing, furniture, construction material, paper pulp, plywood, flooring, musical instruments, utensils and rayon for the textile industry. It is also edible shoots which are eaten locally and/or canned for export. Several factories are also producing bamboo beer, a beverage made from Moso bamboo juice. Bamboo charcoal is used for food, dyes and medical industries.

We started the seed germination of Moso bamboo in the year **January 2020** which is sourced from China.

Height: 10 - 23 m

Diameter: 8 - 18 cm

Growth Habit: Running

Climate: Temperate – Subtropical

Hardiness: -18°C

Origin: China – Taiwan

Video: <https://youtu.be/KKqvw0VMrxY>

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Bamboo Seed Germination

After 18 days



After 5 months



After 7 months

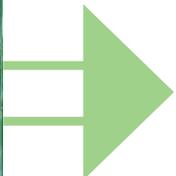
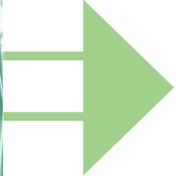


Focus 3 : Value Addition - Whole BAMBOO will be used

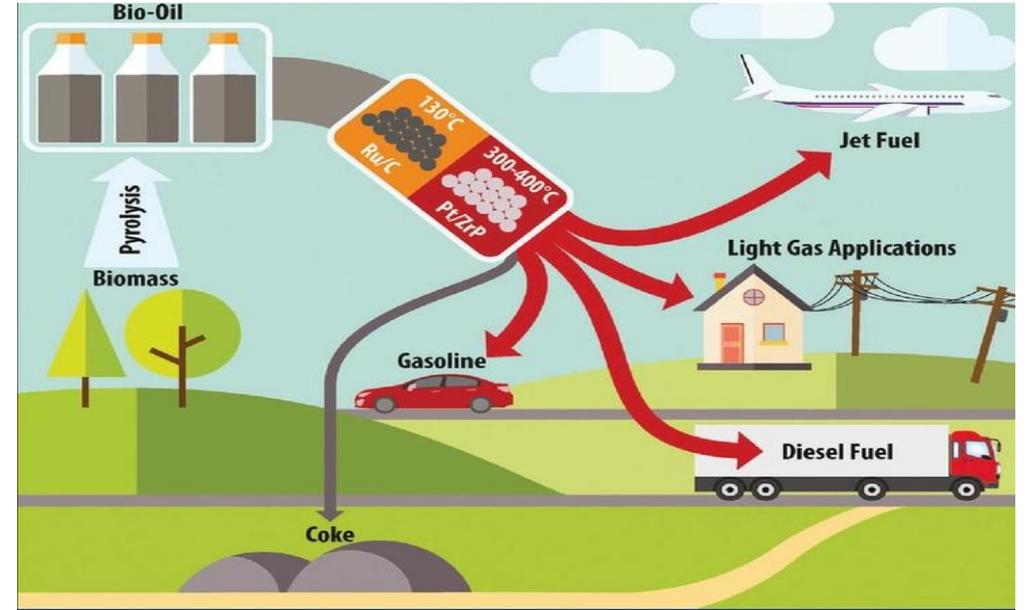
UPPER waste to be used for generating electric for Telecom companies / compressed natural gas (CNG) / bamboo powder / Biochar / supply to cement company

&

BOTTOM side Concentrate on premium product by making toothbrush & glue board based product to supply to top companies with bulk order & long term agreement. Bamboo swap sample stick



IndianOil



FUNDING

MEGA Bamboo Project like MEGA FOOD PARK

Dendrocalamus Longispatus in our Kawnpui farm

THANK YOU

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