Study to Select Value Chain and Analyze Selected Value Chain

Presentation on Value Chain Assessment

Phase 2: ‘Assessment of Selected Value Chains’

Southeast Zone – 1
Study Objectives

Value Chain Selection

Analysis of Selected Value Chains

Ensure Sustainable Livelihoods to the project beneficiaries

Reduce pressure on Natural Resources
Specific Objectives

• The study was conducted in two phases:

Phase 1: Value Chain Selection
• Output: Select three value chains

Phase 2: Value Chain Analysis
• Output: Detail Value Chain Analysis of three selected value chains

Market Study for Ecotourism
Process of Value Chain Selection

**Step**
- Secondary Literature Review and KII
- Screening through Cut-off Criteria
- Field Investigation
- Validation

**Tools**
- Relevant secondary documents, CREL project documents
- Interview project staffs
- Value chains that deplete forest and/or wet land directly will be ineligible for selection
- In-depth interviews
- FGD
- Primary survey
- Ranking exercise
- Validation workshop

**Output**
- First List of Value chains & One Cut-off Criteria & 12 Selection Criteria
- Short list of Value Chains
- Final List of Value Chains
- Three Value Chains
## Value Chain Selection Criteria

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Weight</th>
<th>Criteria</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Climate Tolerance (Low tolerance=1, High tolerance=5)</td>
<td>3</td>
<td>Income (Low income increase=1 High income increase=5)</td>
<td>5</td>
</tr>
<tr>
<td>Climate Resiliency (Low resilience=1, High resilience=5)</td>
<td>3</td>
<td>Private sectors participation (Low interest=1, High interest=5)</td>
<td>3</td>
</tr>
<tr>
<td>Resource Extraction Minimization (Not minimized=1, Highly minimized=5)</td>
<td>5</td>
<td>Development priorities and favorable policy of government (Low priority &amp; favorability=1 High priority &amp; favorability=5)</td>
<td>3</td>
</tr>
<tr>
<td>Women and Youth Inclusion (Low inclusion=1, High inclusion=5)</td>
<td>5</td>
<td>Synergy and potential collaboration (Low synergy=1, High synergy=5)</td>
<td>3</td>
</tr>
<tr>
<td>Outreach (Low outreach=1, High outreach=5)</td>
<td>2</td>
<td>Risk (High risk=1, Low risk=5)</td>
<td>4</td>
</tr>
<tr>
<td>Growth potential (Low growth=1, High growth=5)</td>
<td>5</td>
<td>Scope for value addition (Low scope=1, High scope=5)</td>
<td>3</td>
</tr>
</tbody>
</table>
Tools for Data Collection & Respondents in Phase 1

- **In-depth Interview**
  - Government officials (Forest Department, Department of Agriculture, Department of Fishery, Department of Livestock, Jobo Unnayan)
  - CMC Members, Local Chairman
  - Forward Market Actors: Collector (Faria), Trader (Bepari), Wholesaler (Arotdar)
  - Backward Market Actors: Input seller (Seed Seller, Fertilizer seller, Chemical & Medicine seller etc.)
  - Research Institute
  - NGOs Staffs
  - CREL Regional staffs

- **FGD**
  - Community People (VCF Members, CMC Members, CPG members, NS)

- **Primary Survey**
  - Beneficiary Profiling (VCF Members)
## Ranking Exercise for Southeast Zone 1

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Weight</th>
<th>Fruits</th>
<th>Vegetables &amp; Medicinal Plants</th>
<th>Homestead Poultry</th>
<th>Fish farming</th>
<th>Handicrafts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Climate Tolerance</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Climate Resiliency</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Resource Extraction Minimization</td>
<td>5</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Women and Youth Inclusion</td>
<td>5</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Outreach</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
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<td>Growth potential</td>
<td>5</td>
<td>4</td>
<td>4</td>
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<td>4</td>
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</tr>
<tr>
<td>Income</td>
<td>5</td>
<td>4</td>
<td>3</td>
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<td>2</td>
<td>2</td>
<td>1</td>
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<td>3</td>
</tr>
<tr>
<td>Scope for value addition</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Weightage Score</strong></td>
<td><strong>146</strong></td>
<td><strong>143</strong></td>
<td><strong>127</strong></td>
<td><strong>133</strong></td>
<td><strong>158</strong></td>
<td></td>
</tr>
</tbody>
</table>

*Ranking: Rank 1, Rank 2, Rank 3*
Process of Value Chain Analysis

- **Literature Review**
  - Secondary literature, Project document

- **In-depth Interviews**
  - Key informant interviews, forward/ backward market actors, private sector
  - CREL Livelihood Officer & MDO directly participated in most of the interviews with Innovision Team

- **Questionnaire Surveys**
  - Producers of selected value chains, project beneficiaries
  - CREL Livelihood Facilitators conduct the questionnaire surveys

- **Strategy Workshop**
  - Findings sharing, Strategy Discussion

- **Data Analysis**
  - Case analysis, tabular analysis, averages, extrapolation, etc.
Outcome of Value Chain Analysis

Value Chain Functions
- Input Suppliers
- Producers
- Market Intermediaries
- Support Actors

Demand/Supply Situation
- End Market Analysis

Constraints Analysis

Opportunities

Strategies for promoting Value Chains to target beneficiaries
Southeast Zone 1
Outline

• Geographic scope
• Tools for data collection and Respondents
• People we have interviewed
• Beneficiary mapping
• Value Chain Analysis: Vegetables & Medicinal Plants, Fruits, Handicrafts and Handloom
• Analysis of Eco-tourism
• Potential Trades
• Tentative Outreach through the value chains
### Geographic Scope

<table>
<thead>
<tr>
<th>Sites</th>
<th>Dhopachari-Dudpukuria WS</th>
<th>Chunati WS</th>
<th>Kaptai National Park</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ranges</strong></td>
<td><strong>Dhopachari</strong></td>
<td><strong>Dudpukuria</strong></td>
<td><strong>Chunati</strong></td>
</tr>
<tr>
<td>No. of VCF</td>
<td>13</td>
<td>19</td>
<td>34</td>
</tr>
<tr>
<td>VCF Members (HHs)</td>
<td>390</td>
<td>534</td>
<td>1810</td>
</tr>
<tr>
<td>Upazila</td>
<td>Rangunia and Chandanaish</td>
<td>Banskhali, Lohagara, Chokoria</td>
<td>Kaptai</td>
</tr>
<tr>
<td>District</td>
<td>Chittagong</td>
<td>Chittagong and Cox’s Bazar</td>
<td>Rangamati</td>
</tr>
</tbody>
</table>
Tools for Data Collection & Respondents

In-depth Interview
- CMC Members
- Forward Market Actors: Collector (Faria), Trader (Bepari), Wholesaler (Arotdar), Retailer
- Backward Market Actors: Input seller (Seed Seller, Fertilizer seller, Medicine seller, bamboo-cane supplier etc.)
- Private Companies: Fruit and Vegetables processor, Handicrafts enterprise etc.
- NGOs Staffs
- CREL Regional staffs

Questionnaire Survey
- Producers of the selected value chains
- Extractors of Forest Resources

KII
- Government officials (Department of Agriculture, Department of Forest, BARI, Upazila Jubo Unnayan Officer etc.)
People We have Interviewed

Backward Linkage
- Vegetables & Medicinal Plant
  - 4 seed, fertilizer & chemical retailers
- Fruits
  - 3 seed, fertilizer & chemical retailers
- Handicrafts
  - 2 input suppliers
- Eco-tourism
  - 2 Eco-site Administrators
  - 4 Rangers (Forest)
  - 1 Resort owner

Producers
- Vegetables & Medicinal Plant producers (18)
- Fruit producers (17)
- Handicraft producers (15)
- Tour guides (2)

Forward Linkage
- Vegetables & Medicinal Plant
  - 3 Retailers
  - 2 Arotders
  - 2 Paikers
  - 4 Beparis
- Fruits
  - 2 Retailers
  - 2 Arotders
  - 3 Paikers
  - 3 Beparis
- Handicrafts
  - 2 Showrooms
  - 2 Beparis

Support Function:
UN Agriculture officer (4), UN Jubo Unnoyon officer (3), BARI Researcher (1), NGOs: SHED, Practical Action, UNDP (local officer)
Beneficiary mapping

65% (3250 HHs):
Can use agricultural value chains for commercial and/or homestead farming

35% No extraction

32% Moderate extraction

10% (500 HHs):
Can only rely on trade and other capacity building livelihood options

3% High extraction

25% (1250 HHs):
Has homestead space, can be used for farming; also require trade and other capacity building livelihood options

30% Low extraction
Value Chain Analysis:
Vegetables and Medicinal Plants
Rationale for Value Chain Selection

**Vegetables**

- Vegetables are widely cultivated in the region all year round
- Women are more comfortable in vegetable farming than in conventional farming of cereal crops
- Low requirement of working capital
- High market demand
- Early variety vegetables get higher price
- Less irrigation required in comparison to other common crops like paddy, potato etc.
- Improved packaging can increase value addition opportunity
- It has no adverse impact on environment

**Medicinal Plants**

- Market demand and profitability of medicinal plants are very high
- Cultivation can be incorporated in the Social Forestry using the same land, as the medicinal plants can grow under shade
- Along the embankments and in relatively arid soil, medicinal plants can easily be grown
- It can be cultivated in homestead lands and also as fencing of other crop fields
# Types of vegetables* and Medicinal Plants

<table>
<thead>
<tr>
<th>Vegetables</th>
<th>Demand</th>
<th>Land required</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brinjal</td>
<td>Local &amp; National</td>
<td>Flat</td>
<td>Throughout the year</td>
</tr>
<tr>
<td>Gourds (Teasle/ Bitter/ Snake etc.)</td>
<td>Local &amp; National</td>
<td>Flat</td>
<td>Throughout the year</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Teasle: Apr - Oct</td>
</tr>
<tr>
<td>Chili</td>
<td>Local &amp; National</td>
<td>Flat/ Slope</td>
<td>Throughout the year</td>
</tr>
<tr>
<td>Potato</td>
<td>Local &amp; National</td>
<td>Flat/ Slope</td>
<td>Throughout the year</td>
</tr>
<tr>
<td>Bean</td>
<td>Local &amp; National</td>
<td>Flat</td>
<td>Oct - Jan</td>
</tr>
<tr>
<td>Aroid/ Eddoe</td>
<td>Local &amp; National</td>
<td>Flat/ Slope</td>
<td>Throughout the year</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eddoe: Jun - Nov</td>
</tr>
<tr>
<td>Tomato</td>
<td>Local &amp; National</td>
<td>Flat/ Slope</td>
<td>Nov - Apr</td>
</tr>
<tr>
<td>Okra</td>
<td>Local &amp; National</td>
<td>Flat</td>
<td>Throughout the year</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Medicinal Plants</th>
<th>Demand</th>
<th>Land required</th>
<th>Cycle/year (Duration)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neem</td>
<td>Local &amp; National</td>
<td>Flat/ Slope</td>
<td>Throughout the year</td>
</tr>
<tr>
<td>Basak</td>
<td>Local &amp; National</td>
<td>Flat/ Slope</td>
<td>Throughout the year</td>
</tr>
<tr>
<td>Haritoki</td>
<td>Local &amp; National</td>
<td>Flat/ Slope</td>
<td>Throughout the year</td>
</tr>
<tr>
<td>Aloe vera</td>
<td>Local &amp; National</td>
<td>Flat/ Slope</td>
<td>Throughout the year</td>
</tr>
</tbody>
</table>

* Listed vegetables include both local and hybrid varieties
# End Market Analysis

<table>
<thead>
<tr>
<th></th>
<th>D-D WS</th>
<th>Chunati WS</th>
<th>Kaptai NP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main Market</strong></td>
<td><strong>Local</strong>: Dhopachari, Bangalhalia, Rajarhat&lt;br&gt;<strong>Regional</strong>: Reazuddin bazar, Khatungonj</td>
<td><strong>Local</strong>: Chunati, Amirabad, Miabazar, Adhunagar, Time bazar&lt;br&gt;<strong>Regional</strong>: Bahadder hat, Reazuddin bazar, Khatungonj</td>
<td><strong>Local</strong>: Chikmarom, Kaptai, Natun bazar&lt;br&gt;<strong>Regional</strong>: Bahadder hat, Reazuddin bazar, Asadgonj, Bakshirhat</td>
</tr>
<tr>
<td><strong>Buyers</strong></td>
<td>Households, retailers, restaurants</td>
<td>Households, retailers, restaurants</td>
<td>Households, Herbal Medics &amp; agents</td>
</tr>
<tr>
<td><strong>Demand/ Supply</strong></td>
<td>Local demand is met by ample supply; High transport cost affects supply in regional markets</td>
<td>Local demand is met by ample supply</td>
<td>Local demand is moderately met; some are imported</td>
</tr>
<tr>
<td><strong>Market Opportunity</strong></td>
<td>High unmet regional and national demand; High market price</td>
<td>High unmet regional and national demand; High market price</td>
<td>High unmet regional and national demand; High market price</td>
</tr>
</tbody>
</table>
Input Suppliers

• All the major markets have small input retailers (seeds, fertilizers, pesticides, etc).
• Retailers have a moderate linkage to input companies. Top suppliers are Laal Teer, Supreme, Everest, ACI, Syngenta etc.
• Retailers are providing basic information about how to use their inputs, but they lack in appropriate know-how of cultivation techniques.
• Agro-machineries like tractors, sprayers etc. are not available.
• Mobile seed vendors and mobile seedling sellers tend to sell non-branded products.
• Input retailers sometimes struggle with low-quality seeds, chemicals and fertilizers provided by the companies.
### Producers

<table>
<thead>
<tr>
<th>D-D WS</th>
<th>Chunati WS</th>
<th>Kaptai NP</th>
</tr>
</thead>
<tbody>
<tr>
<td>● 90% has 32 dec land.</td>
<td>● 65% has 15 dec land.</td>
<td>● 75% has 13 dec land.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>● 20% has 140 dec forest land.</td>
</tr>
<tr>
<td></td>
<td>● Most beneficiaries have cultivable land for commercial use</td>
<td>● Most beneficiaries have cultivable land for commercial use</td>
</tr>
<tr>
<td></td>
<td>● Soil is very fertile</td>
<td>● Most beneficiaries have cultivable land for commercial use</td>
</tr>
<tr>
<td></td>
<td>● Homestead spaces are available</td>
<td>● Homestead spaces are available</td>
</tr>
<tr>
<td></td>
<td></td>
<td>● Jhum cultivation is seen in this area</td>
</tr>
</tbody>
</table>

- Soil is very fertile
- Homestead spaces are available
Producers cost-profit analysis

<table>
<thead>
<tr>
<th>Particulars/dec</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost</td>
<td>BDT 585</td>
</tr>
<tr>
<td>Total Production (Sold)</td>
<td>91 Kg</td>
</tr>
<tr>
<td>Average Price/Kg</td>
<td>BDT 23</td>
</tr>
<tr>
<td>Revenue</td>
<td>BDT 2065</td>
</tr>
<tr>
<td><strong>Net Profit</strong></td>
<td><strong>BDT 1480</strong></td>
</tr>
</tbody>
</table>

*Total cost includes land preparation, seed, fertilizer, pesticide, labor, transportation etc.*
Cost-profit analysis of Medicinal plants

<table>
<thead>
<tr>
<th>Particulars/dec</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost</td>
<td>BDT 130</td>
</tr>
<tr>
<td>Total Production</td>
<td>12 Kg</td>
</tr>
<tr>
<td>Average Price/Kg</td>
<td>BDT 36</td>
</tr>
<tr>
<td>Revenue</td>
<td>BDT 432</td>
</tr>
<tr>
<td><strong>Net Profit</strong></td>
<td><strong>BDT 302</strong></td>
</tr>
</tbody>
</table>

Total cost includes land preparation, seed, fertilizer, pesticide, labor, transportation etc.
Traders

• Bepari/Farias have direct linkage with the local producers to source from them.
• Small producers sell approximately 10% of their produce (after own consumption) at the arots local hats and bazaars.
• Large vegetable farmers are able to sell up to 85% of their produce to regional paikers.
• Farias usually collect the produces during the weekly market day of the local bazaar. Then they supply the same to paikers in larger local markets or to arotders in regional markets like Reazuddin bazaar, Bahadderhat etc. in Chittagong.
• Arotders purchase the vegetables at commission basis from the farias.
• Farias usually pay the producers upfront during the purchase.
• For medicinal plants all the agro produces are acquired by processors.
Support Functions

• Government is working to promote vegetable cultivation in the landscape and slopes of the forest.
• Input companies are moderately active in marketing their products.
• Crop-based micro-finance is limited to the producers.
• Transportation services involve high cost due to poor Infrastructure and communication systems.
• Herbal medics and medicinal companies are interested to provide supports in extension of medicinal plant cultivation in the area.
Constraints Analysis

Limited access to finance

Inadequate promotion of improved cultivation method

Low existence of public and private sector extension services

Lack of information

Poor farmers using non-brand seeds

Low yield

Farmers not using inputs properly

Low volume of production

Lack of bulk production

Lack of traders sourcing from these regions

Traders failing to get good quality and quantity of vegetables

Low motivation to cultivate more vegetables

Lack of knowledge regarding viability of vegetable cultivation

Poor infrastructure and communications
Opportunities

• The soil is highly fertile for vegetables and medicinal plant production in the area.
• There is a growing trend in using proper inputs.
• At least 75% of beneficiaries have cultivable land.
• Productivity of vegetables can be increased by using proper cultivation techniques.
• Land is available for leasing.
• Input suppliers are already present, they can be trained to provide information to the farmers about better cultivation techniques.
• Traders are well-connected with regional and even national markets. So, with increased supply of vegetables, the opportunity for vegetable traders will increase.
• Women can potentially be involved in production of vegetables.
Discussion on Strategies

• Promoting Profitable Cropping Patterns

• Mobilizing Producers into Cluster-based cultivation and Trading

• Improving Linkage between Producers and Input Companies through Capacity Development

• Improving Access to Market
Value Chain Analysis: Fruits
Rationale for Value Chain Selection

Fruits

- It includes short-term fruits such as amropali, banana, pineapple, papaya, strawberry, watermelon
- It has no direct impact on Climate, but can positively reduce pressure on forest by engaging the extractors in cultivation
- Cultivation can improve nutrition intake of women; furthermore can be produced in the homestead which would increase potential for inclusion of women beneficiaries under CREL
- Increase in production will create additional jobs for youth across the value chain
- Favorable growth trend; increasing number of farmers getting engaged
- Favorable geo-climatic condition resulting in better produces and better price
- Government is promoting cultivation of different kinds of suitable fruits as saline tolerant crops especially in the coastal regions
- High market demand and stable market price
# Types of Fruits

<table>
<thead>
<tr>
<th>Fruits</th>
<th>Demand</th>
<th>Land required</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Papaya</td>
<td>Local &amp; National</td>
<td>Flat/ Slope</td>
<td>Throughout the year</td>
</tr>
<tr>
<td>Banana</td>
<td>Local &amp; National</td>
<td>Flat/ Slope</td>
<td>Throughout the year</td>
</tr>
<tr>
<td>Amropali</td>
<td>Local &amp; National</td>
<td>Flat/ Slope</td>
<td>May - Aug</td>
</tr>
<tr>
<td>Watermelon (hybrid)</td>
<td>Local &amp; National</td>
<td>Flat/ Slope</td>
<td>Throughout the year</td>
</tr>
<tr>
<td>Pineapple</td>
<td>Local &amp; National</td>
<td>Flat/ Slope</td>
<td>May - Jul</td>
</tr>
<tr>
<td>Strawberry</td>
<td>Local &amp; National</td>
<td>Flat/ Slope</td>
<td>Jan - Mar</td>
</tr>
<tr>
<td>Guava</td>
<td>Local &amp; National</td>
<td>Flat/ Slope</td>
<td>Jul - Sep</td>
</tr>
</tbody>
</table>
## End Market Analysis

<table>
<thead>
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<td></td>
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</tbody>
</table>
Input Suppliers

• All the major markets have small input retailers (seeds, saplings, fertilizers, pesticides, etc).
• Retailers have a moderate linkage to input companies. Top suppliers are Laal Teer, Supreme, Everest, ACI, Syngenta etc.
• Retailers are providing basic information about how to use their inputs, but they lack in appropriate know-how of cultivation techniques.
• Producers prefer saplings to seeds as their input.
• Input retailers sometimes struggle with low-quality seeds, saplings, chemicals and fertilizers provided by the companies.
Producers

<table>
<thead>
<tr>
<th>D-D WS</th>
<th>Chunati WS</th>
<th>Kaptai NP</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 90% has 32 dec land.</td>
<td>• 65% has 15 dec land.</td>
<td>• 75% has 13 dec land.</td>
</tr>
<tr>
<td>• Most beneficiaries have cultivable land for commercial use</td>
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</tr>
<tr>
<td></td>
<td>• Homestead spaces are available</td>
<td>• Jhum cultivation is seen in this area</td>
</tr>
</tbody>
</table>
# Producers cost-profit analysis

<table>
<thead>
<tr>
<th>Particulars/dec</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost</td>
<td>BDT 1080</td>
</tr>
<tr>
<td>Total Production (Sold)</td>
<td>58 Kg</td>
</tr>
<tr>
<td>Average Price/Kg</td>
<td>BDT 50</td>
</tr>
<tr>
<td>Revenue</td>
<td>BDT 2900</td>
</tr>
<tr>
<td><strong>Net Profit</strong></td>
<td>BDT 1820</td>
</tr>
</tbody>
</table>

*Total cost includes land preparation, saplings, fertilizer, pesticide, labor, transportation etc.*
Traders

• Bepari/Farias have direct linkage with the local producers to source from them.
• Small producers sell approximately 10% of their produce (after own consumption) at the local hats and bazaars.
• Commercial farmers are able to sell 80% of their produces to regional paikers and the rest 20% to local paikers.
• Farias usually collect the produces during the weekly market day of the local bazaar. Then they supply the same to paikers in larger local markets or to arotders in regional markets like Falmundi, Reazuddin bazar, Bahadderhat etc. in Chittagong.
• Arotders purchase the fruits at commission basis from the farias.
• Farias usually pay the producers upfront during the purchase.
Support Functions

• Government is working to promote mixed fruit cultivation in the landscape and slopes of the forest.
• Input companies are moderately active in marketing their products in this region.
• Microfinance for fruit cultivation is almost absent.
• Transportation services involve high cost and production loss due to poor infrastructure and communication systems.
Value Chain Mapping

Value Chain Map (Fruits)

Consumption → Regional Consumer (Chittagong) → Fruit Retailer (Other Districts) → Divisional Arotder → Local Paiker

Consumption → Consumer in Other districts → Fruit Retailer (Other Districts) → Local Arotder → Local Paiker

Consumption → Local Consumer → Fruit Retailer (Local) → Local Arotder → Regional Paiker

Trading

Producer

Input Supply

Input Retailers

Nursery Owners

Homestead Fruit Producer (5%)

Commercial Small Fruit Producer (70%)

Commercial Large Fruit Producer (25%)

60%

75%

20%

30%

5%

5% (Pappaya seed)
Constraints Analysis

- Limited access to finance
- Inadequate promotion of improved cultivation method
- Lack of knowledge regarding viability of fruit cultivation
- Poor infrastructure and communications
- Loss of perishable fruit produces
- Low yield
- Farmers not using inputs properly
- Poor farmers using non-brand seeds
- Lack of information
- Low volume of production
- Lack of traders sourcing from these regions
- Loss of traders failing to get good quality and quantity of vegetables
- Traders failing to get good quality and quantity of vegetables
- Lack of bulk production
- Low existence of public and private sector extension services
- Inadequate promotion of improved cultivation method
Opportunities

• The soil is highly fertile for fruit production in the area.
• There is a growing trend in using proper inputs.
• At least 75% of beneficiaries have cultivable land.
• Productivity of fruits can be increased by using proper cultivation techniques and cropping pattern.
• Land is available for leasing.
• Input suppliers are already present, they can be trained to provide information to the farmers about better cultivation techniques.
• Traders are well-connected with regional and even national markets. So, with increased supply of fruits, the opportunity for fruit traders will increase.
• Women can potentially be involved in production of fruits.
Discussion on Strategies

• Promoting Profitable Cropping Patterns

• Mobilizing Producers into Cluster-based cultivation and Trading

• Improving Linkage between Producers and Input Companies through Capacity Development

• Improving Access to Market
Value Chain Analysis: Handicrafts
Rationale for Value Chain Selection

**Handicrafts**

- Women are more comfortable in handicraft in comparison to on-farm activities.
- Women have traditional skill to produce handicrafts.
- Requirement of working capital is not very high.
- Due to poor market access, beneficiaries can not increase their production in spite of having highly potential productivity.
- Necessary inputs are available in local markets.
- No land required
- Government is promoting handicrafts and providing trainings and easy loans for the respective trainees.
# Types of Handicrafts

<table>
<thead>
<tr>
<th>Fruits</th>
<th>Demand</th>
<th>Land required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bamboo products (Lai, tukri, basket, mora, dula, kula, fish trap etc.)</td>
<td>Local &amp;National</td>
<td>Homestead</td>
</tr>
<tr>
<td>Handloom products (Kantha, lungi, gamchha, thaan etc.)</td>
<td>Local &amp;National</td>
<td>Homestead</td>
</tr>
<tr>
<td>Fishing nets</td>
<td>Local &amp;National</td>
<td>Homestead</td>
</tr>
</tbody>
</table>
## End Market Analysis

<table>
<thead>
<tr>
<th></th>
<th>D-D WS</th>
<th>Chunati WS</th>
<th>Kaptai NP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main Market</strong></td>
<td>Local: Bangalhalia, Rajarhat</td>
<td>Local: Amirabad, Miabazar</td>
<td>Local: Chikmarom, Kaptai, Natun bazar</td>
</tr>
<tr>
<td></td>
<td>Regional: Rangamati, Chittagong</td>
<td>Regional: Khatungonj</td>
<td>Regional: Rangamati, Chittagong</td>
</tr>
<tr>
<td>** Buyers**</td>
<td>Local households, Agents, Showrooms</td>
<td>Local households, Agents</td>
<td>Local households</td>
</tr>
<tr>
<td><strong>Demand/Supply</strong></td>
<td>Local demand is low</td>
<td>Local demand is low</td>
<td>Local demand is moderately higher and met by the supply</td>
</tr>
<tr>
<td><strong>Market Opportunity</strong></td>
<td>High unmet regional and national demand; High market price</td>
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<td>High unmet regional and national demand; High market price</td>
</tr>
</tbody>
</table>
Input Suppliers

- Input Suppliers provide different types of bamboo, cane, threads, dye, accessories etc. to the handicraft producers.
- They sometimes also appear as the traders of the finished goods.
- In some cases, provide credit facilities and/or, technical supports to the producers.
## Producers

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</thead>
<tbody>
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<td>• 75% has 13 dec land. &lt;br&gt;• 20% has 140 dec forest land</td>
</tr>
<tr>
<td>• Homestead spaces are available &lt;br&gt;• Women possess traditional skills &lt;br&gt;• Producers are interested to increase their skill</td>
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</tr>
</tbody>
</table>
Traders

• Bepari/Farias have direct linkage with the local producers to source from them.
• Small producers usually do not sell the products commercially.
• Some occasional and professional manufacturers sell their handicrafts either directly at the bazar, showroom or through farias/agents.
• Agents usually contact for supply and collect the products. Then they supply the same to paikers in larger local markets or to arotders in regional markets like Khatungonj, Reazuddin bazar, and in some showrooms. in Chittagong, Rangamati, Banderban, Cox’s Bazar.
• However, in most cases, the showrooms or handicraft traders avoid intermediary agents. They prefer to purchase directly from the producers.
• In many situations, Handicraft showrooms or enterprises provide credit facilities and/or, technical supports to the producers.
Support Functions

- Different private companies are interested to broaden their portfolio by including regional handicrafts
- Access to finance for handicraft production is not satisfactory
- No training facility is available to develop the capacity of the existing and potential producers
- Transportation services involve high cost in input sourcing and production due to poor Infrastructure and communication systems.
Value Chain Mapping

Value Chain Map (Handloom and Handicraft)

Consumption

Divisional Consumer

Local Consumer

National Consumer

Local Consumer

Divisional Consumer

National Buyer

Divisional Buyer

Foria

Small scale Producer

Large scale producer

Foria

Small scale producer

Foria

Divisional Paiker

Local Paiker

Input Seller of Handicraft (Bamboo, Cane, Paint, Jute Thread)

Input Supply

Producer

Trading

100%  70%  30%  40%  60%  100%  100%  80%  20%  100%
Limited access to finance

Inadequate promotion of ethnic handicrafts

Lack of right technical application and use of inputs

Lack of knowledge and appropriate skills

Low motivation to manufacture handicrafts

Low volume and quality of production

Lack of trainers and scope of capacity development

Lack of bulk production

Traders failing to get good quality and quantity of handicrafts

Poor infrastructure and communications

Lack of traders sourcing from these regions

Constraints Analysis
Opportunities

- Traditional practices for homemade handicrafts prevail.
- Natural sources of raw materials for bamboo, cane, thread etc.
- Locally produced handicraft products have both ethnic (hand woven clothes, show pieces, ladies ornaments etc.) and functional (carry basket, fences, fishing net etc.) utilities.
- Supply-demand gap in countrywide ethnic product market offers a great promise for product placement. Additionally these can be exported to the international market of ethnic products.
- Functional products can be consumed in local markets within the region, in place of products from other regions of the country.
Discussion on Strategies

- Promoting and Branding of Ethnic and Rural Handicrafts
- Improving Linkage between Showrooms/Exporters and Producers through Capacity Development
Value Chain Analysis: Eco-tourism
## Priority Sites

<table>
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<th>D-D WS</th>
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<th>Kaptai NP</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Eco-cottage</td>
<td>• Trekking (hilly) trail</td>
<td>• Trekking (hilly) trail</td>
</tr>
<tr>
<td>• Trekking (hilly) trail</td>
<td>• Observation tower</td>
<td>• Observation tower</td>
</tr>
<tr>
<td>• Observation tower</td>
<td>• Banskhali Eco park</td>
<td>• Boat trip in Kaptai lake</td>
</tr>
<tr>
<td>• Boat trip in Sangu river</td>
<td>• Observation tower</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Boat trip in lake</td>
<td></td>
</tr>
</tbody>
</table>
Mapping of Actors

- **Tour Operators**
  - **Niche Tourists**
  - **Local Tourists**
- **Eco-Resorts**
  - **Service Providers at the Resorts**
  - **Input Providers**
  - **Cultural Groups**
- **Trekking trails and Boats**
  - **Service Providers on Boat riding and trekking**
- **Tour Guides**
- **Forest Department**
Community Engagement

Tour Operators

Niche Tourists
Local Tourists

Tour Guides

Eco-Resorts
Service Providers at the Resorts

Input Providers
Cultural Groups

Trekking trails and Boats

Service Providers on Boat riding and trekking

Forest Department
Community Engagement Areas

- Eco-cottage (DDWS, CWS)
- Food services, restaurant (CWS, KNP)
- Guides (DDWS, CWS, KNP)
- Souvenir making - handicrafts (pottery, bamboo-cane products, loom products etc.)
- Eco-villages (DDWS, KNP)
- Eco-resorts
- Cultural performances by folklore groups (DDWS, KNP)
Market Opportunities

• Private sector engagement possibilities:
  – Infrastructure/ facilities development
  – Promotional activities
  – Linking guide operators to tour guides (licensed guides as a mandate)
  – Develop service provisions like eco-villages, cultural groups

• Facilities development
  – Trails inside the forest
  – Shelter from rain
  – Waste disposal
  – Riverbank or lakeside food services/ restaurants
  – Souvenir centers
  – Rest rooms

• Financing opportunities
• Promotional activities
  – Exclusivity of eco-tourism compared to mass tourism
Potential Trades for the Beneficiary
Potential Trades

• Small Scale Poultry:
  – Set up small scale poultry production
  – Develop beneficiary households or groups to rear poultry
  – Interventions to provide trainings, develop linkages with input providers, facilitate linkages with traders, financial institutions, traders, etc.

• Small Scale Fisheries
  – Introduce ‘Green water pond fisheries’ at a minimal investment
  – Interventions to provide trainings, develop linkages with input providers and traders, financial institutions, traders, etc.

• Van/ Human-hauler/ Pick-up Driving and repairing:
  – High use of these vehicles
  – Involving target beneficiaries who are landless
  – Intervention to provide training, promote services
  – Government Youth Department has provision for training
Potential Trades

- **Eco-friendly stove Servicing/ Repairing:**
  - Use of eco-friendly stove is getting high. High potential for the demand for servicing and repairing of these stoves.
  - Involving target beneficiaries who are landless
  - Intervention to provide trainings, promote the service

- **Tailoring (Clothes, tupi etc.)**
  - Many are more interested in home-based activities
  - Involving target beneficiaries who are landless
  - Intervention to ensure capacity development, facilitate linkage between traders, financial institutes and beneficiary groups, provide trainings.
Tentative Outreach Through The Selected Value Chains
Beneficiary Mapping (Land)

- No access to land, 4%
- Access to leased land (hilly), 5%
- Own Land (hilly), 17%
- Access to leased land (flat), 11%
- Own Land (flat), 63%

Other potential:
- Potential for fruits
- Potential for handicrafts and IGA
- Potential for vegetables and medicinal plants
Outreach

Fruits Farmers
Annual income: **BDT 1,820/dec**
Potential Income: **BDT 2,366/dec**
(30% increase)

Vegetable and Medicinal Plants Farmers
Annual Income: **BDT 1,480/dec**
Potential Income: **BDT 1,920/dec**
(30% increase)

Landless & Depended on Handicrafts
Potential Increased Income: **BDT 32,000/year**

15% = 750 HHs
40% = 3,000 HHs
20% = 1,000 HHs

Annual income: **BDT 1,820/dec**
Thank You!