





KHANTHALGURI ECO DEVELOPMENT COMMITTEE

BANSBARI FOREST RANGE

MANAS NATIONAL PARK

MICRO-PLAN (2017-18 to 2026-27)

Prepared by Khanthalguri Eco Development Committee Assisted by

> Assam Forest Department & COMPELO (IIE and RGVN)

> > May 2017

Approved

Field Director Manas Tiger Project Barpeta Road, Assam.

Acronym	Full Form
APFBC	Assam Project on Forest and Biodiversity Conservation
AFD	Agence France de Développement
BPL	Below Poverty Line
втс	Bodoland Territorial Council
COMPELO	Consortium for Micro Planning and Enhancing Livelihood Opportunities
EPA	Entry Point Activities
GIS	Geographical Information System
На	Hectare
IIE	Indian Institute of Entrepreneurship
EDC	Eco Development Committee
Kg	Kilogram
Km	Kilometer
Manas NP	Manas National Park
Manas TP	Manas Tiger Project
NGO	Non-Governmental Organization
NTFP	Non Timber Forest Product
PDS	Public Distribution System
PRA	Participatory Rural Appraisal
Rs.	Indian Rupees
SHG	Self Help Group
VCDC	Village Council Development Committee
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List of Acronyms

KHANTHALGURI ECO DEVELOPMENT COMMITTEE

[Livelihood Development Plan]

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About the Project	The vision of the Assam Project on Forest and Biodiversity Conservation (APFBC) is 'to enable sustainable forest and biodiversity conservation and management in Assam through multi-scale integrative planning and involvement of forest dependent communities in target areas and giving fillip to their livelihood activities through sustainable use of forest and non-forest resources'. The project's objective has been stated as: 'In collaboration with the forest dependent communities, to restore forest eco-systems to enhance the forest dependent community's livelihoods and ensure conservation and sustainable use of biodiversity'.
	The above project is being mainly funded by the <i>Agence France de Développement</i> (AFD) - i.e. the French Development Agency, with co-funding from the Government of Assam. The Assam Project on Forest and Biodiversity Conservation Society (APFBC Society) has the mandate for planning, implementation, monitoring, coordination and management of all the activities under the above mentioned project.
Micro- Planning & Livelihood Development	In order to promote livelihood activities through market potential based value addition; the present project intends to take up activities like entrepreneurship promotion, product processing value addition and marketing under this project. This has become necessary on account of the pressures on existing forest resources due to the growth of population. There is a need to explore value addition to the existing forest and biodiversity products and services, based on the market potential. In addition, non-forest based livelihoods need to be explored and the capacities of the community members need to be built-up through skills development initiatives. A consortium comprising of Indian Institute of Entrepreneurship (IIE) Guwahati and <i>Rashtriya Gramin Vikas Nidhi</i> (RGVN) has been formed to implement (<i>inter</i> -alia) the micro-planning and livelihood development under the above project. The above consortium has been titled as 'Consortium for Micro Planning and Enhancing Livelihood Opportunities' - COMPELO in short. As per project guidelines, this micro-plan includes 'various operations of village and forest development livelihood support of forest dependent members and keeping sustainable forest management as the broad objective'. It includes <u>both</u> forest development and livelihood development.
Micro-Plan for the Khanthalguri EDC	This document gives the Micro-Plan for the Khanthalguri EDC, which is located in the Baksa district of Assam. The EDC falls under the jurisdiction of the FDTP division of the BTC Circle. The profile of the community is given in the next section. The present micro-plan has been prepared by members of the community, including both male and female members. This document has emerged as an outcome of a Participatory Rural Appraisal (PRA) process undertaken by the community and personnel of Indian Institute of Entrepreneurship (IIE) Guwahati in 9 th of April 2017. The micro-plan has been compiled by IIE based on the project guidelines. The document has been discussed and finalized for adoption in Khanthalguri EDC.

2. Village So	cio-Economic Profile			
Location	cover the existing comm	nunity dw DC falls	nt Committee (EDC) has been formed to elling in Khanthalguri village. The area within the Ghoramara VCDC, BAKSA	
Key	The key information of the	e EDC is f	furnished below.	
Information		Table-A: Key Information of the EDC		
	Name of the EDC	Khantl		
	Habitation	Khantl	5	
	Name of Revenue	Kamal	-	
	Village			
	Name of the Gram	Ghora	mara	
	Panchayat / VCDC			
	Revenue Circle	Jalah		
	District	Baksa		
	Forest Division	Manas	Wildlife Division	
	Forest Range	Bansba		
	Forest Beat	Bhatga	ıli	
	Year Formed	2015		
	Description of	GPS C	Coordinates(Centre Point)	
	Boundary of EDC	91°4′1		
		26°40′	10 N	
		North	: Takmapara & Rajabil Village	
			: Kamlabari Village	
			Manas National Park	
		East: I	Paddy Fields	
			ing PRA Exercise in April, 2017 e-1 of Record-I. (Appendix-6)	
Brief Details of	5			
the Executive Committee & General Body	contained in the table, which is given below. Table-B: Brief Details of Executive Committee & general Body			
	Name of President		Khagen Swargiary	
	Name of Secretary		Dengkhw Narzary	
	Name of Treasurer		Ansuma Goyary	
	Registration Number		-	
	No. of Members in		Male: 17	
	Executive Committee		Female: 04	
	No. of members in the		One member from each household	
	General Body		(114 Nos. HH)	
	Source: EDC Records			

Households & Population Structure	 The village has 114 households. The number of female headed households is nil. Total population of the village is 560 of which 276 are males and the rest 284 are female members. All members of the households belong to ST Community. Table-2.1 and 2.2 of Record-I (Appendix-6) may be referred for further
	details in the above regard.
	From this, it is inferred that:1. The average number of persons in a household is 5.2. The sex ratio is 1029 females per 1000 males in the village.
Education & Skills Development	Over 49% of the total population is reported to be literate and 51% are illiterate. Almost half of the community members have received school level education. On the other hand, relatively fewer households have received college and higher education.
	Livelihood skills are usually acquired under various settings – formal & informal. In the EDC area, informal means for skills development is the traditional norm. People have traditional skills in the following areas: (a) Farming (b) Livestock rearing (c) Weaving (d) Handicraft
	Government has been active in promoting formal skills development programmes in the country as well as in the state. While surveying, the village has reported of receiving only sanitation benefit but skill programmes has not been carried out in the habitation or in the nearby areas.
Soil	The soil is deep alluvial Himalayan wash. This type of soil can support different kinds of crops, as the soil is reported to be fertile on the whole.
	The fast flowing Manas river on entering the plains from the steep hills loses its speed and as a result deposits enormous quantities of boulders, stones, sand, silt and other debris that are carried down by the water and this leads to the formation of alluvial terraces, comprising deep layers of rocks and sands deposits.
Water	The Manas River flows through the west of the Park, where it splits into two separate rivers, the Beki and Bholkaduba, to join the River Brahmaputra some 64 km further south. These and five small rivers running through the Reserve carry enormous amounts of silt and rock from the foothills as a result of heavy rainfall, steep gradients and friable bedrock upstream.
	The area is drained by the Bhatgali stream which flows through the project area. This is a perennial stream.

Climate: Temperature & Rainfall	The maximum temperature during the summer is $27.3^{\circ}C \pm 4^{\circ}C$. The minimum temperature during the winter is $15.6^{\circ}C \pm 2^{\circ}C$. The climate of the EDC is moist tropical with an annual rainfall between 2900 mm to 3900 mm. About one-third of the rainfall usually occurs during the rainy season (May to September). The village has a high level of relative humidity (over 80 % ± 3 %) during the rainy season and has a low level in the winter (below 76 %).
Forest & Biodiversity	The main tree species are Sida, Ajar, Khokan, Gamari, Titasapa, etc found in Manas National Park. Lemon trees are grown in abundant in this EDC village. Some other species such as Jack Fruit, Bamboo, etc. are also grown in the village.
Land Use Pattern	 Appendix-2 gives the land-use pattern of the village. From the same, it is seen that the land-use pattern in the village is as follows: Paddy field: 73.18% Road: 2.70% Settlement area: 18.17% Stream: 1.37% Tree clad area: 4.05%
Land Holdings	 The type of households as per land-holding is given at Table-3 of Record-I (Appendix-6). From the same, it is seen that: 24.56% of households are landless (28 HH) 71.93% of the households are marginal farmers (82 HH, < 2 ha.) 3.51% of the households belong to small categories (4 HH, 2-10 ha.)
Livestock	The total number of livestock in the village is 1401.The main types of livestock found in the households include: Cows: 197 Goats: 73 Buffaloes : 11 Poultry : 980 Pig: 140
Village Infrastructure & Communication Facilities	 Table-4 of Record-I (Appendix-6) may be referred to for the details in the above connection. The availability of basic infrastructure enables the development of sustainable livelihood options in a community. The present condition of infrastructure in the village is not satisfactory. This is borne out by Table-5 of Record-I (Appendix-6), which gives the present status of the village infrastructure.
	From the above table, the following have been noted with regard to village infrastructure:
	Physical Infrastructure: The people of the Khanthalguri EDC is deprived of basic physical infrastructure like transportation, water supply, Public Distribution System, mobile network etc.

	Education & Health Facilities: As per education facility is concern, there is one primary school and one Anganwadi Centre inside the village. Apart from the basic education facility the community people need to go outside the village for higher education. Regarding health facility, there is no Primary Health Centre and Veterinary Health Centre in the village.
	Govt. Offices : The government offices (such as Police station, Gram Panchayat office, Revenue office, Forest Beat office etc.) are located at a considerable distance.
	Financial Inclusion : The financial Facilities like bank and post office are located at a considerable distance from the habitation.
Agricultural Crops	The details of the agricultural crops grown in the village is available at Table-6 of Record-I(appendix-6)
	The above shows that the following are the main crops grown in the village. Kharif Crops: Sali, Ranjit, Aijung Rabi Crops: Potato, Chilli, Radish, etc. Others: Lemon, Betel-nuts.
	Most of the above mentioned crops are rain-fed.
Crop Production Profile	Table-7 of Record-I may be referred to for the production and yield details of the crops grown in the village.
	The production and yield of these crops is given as follows:
	 (a) Paddy: Production 1368 Quintal Yield 30 Quintal /ha. (b) Vegetables: Production 37.5 Quintals Yield 3.75 Quintal/ha. (c) Betel nuts: Production 150 Quintals Yield 10 Quintal/ha. (d) Lemon: Production 12 Quintals Yield 6 Quintal/ha.
Fodder Availability	The matter of fodder availability in the village is dealt with at Table-8 of Record-I. The table shows that the main sources of fodder in the village are as follows:
	 (a) Crop residue- Yes (3 to 6 months) (b) Gazing in forest- Yes (3 to 6 months) (c) Household Wastage- Yes (> 6 months) (d) Green fodder- Yes (> 6 months)
Markets	 Table-9 of Record-I shows the location of the different markets from the village. The main markets used by the community are as follows: (a) Grocery / PDS: Salbari at 5 km away (b) Weekly / Bi-weekly Market: : Salbari at 5 km away
	(c) Major Market: : Rupohi at 2 km away

Water Resources	The water resources are tabulated at Table-10 of Record-I. The main water resources with the water availability is as follows:
	(a) Ring Wells (Water Availability: Perennial / Seasonal)
	(b) Tube Wells (Water Availability: Perennial / Seasonal)
	(c) Stream (Water Availability: Perennial / Seasonal)
	(d) Hand Pump (Water Availability: Perennial / Seasonal)
	(u) Hand Tump (water Availability: Terennial / Seasonary
Energy	Table-11 of Record-I shows the major sources of energy in the village.
Consumption	The same have been listed below.
	(a) Fuel wood: Households Depending: 114 Nos. Source: Homestead and forest area
	(b) Kerosene: Households Depending: 76 Nos. Source: Open Market
	(c) LPG: Households Depending: 12 Nos. Source: Agency
Socio-economic	Social set-up: The village is populated by Bodo people and they all belong
status	to the ST community. They are all Hindu religion.
	Economic Condition: The economic condition of the villagers is not
	satisfactory. The main livelihoods are Daily wages, Farming, Livestock
	rearing, weaving etc. Most households earn Rs.60000 to Rs.180000 per
	year.
Impact of wild life	Positive impacts
area	Economic benefits from tourism
	Soil and water conservation
	Environmental improvement
	Negative impacts
	Human wild life conflict
	Damage of property by wild animals
	Cattle/crop residue
Maps	Appendix-1 gives the following maps, based on GPS receiver and PRA exercise:
	Location map
	• Village Map
	• Village Social Map (with the names and particulars of members in PRA)
	 Village Resource Map
	 Venn Diagram
	 Chapatti Diagram
	• Land use map of GIS

Livelihood	Framework of livelihood Opportunity Analysis has been done with the	
opportunity	help of the following criteria:	
Analysis	A) Livelihood assets	
	B) Livelihood context	
	C) Priority ranking on potential livelihood	
	 The livelihood situation of Khanthalguri EDC has been analyzed during the PRA exercise using sustainable livelihood framework of DFDI (Department of Funding for International Development). The existing livelihood situation of EDC is outlined in terms of – Natural Capital Physical Capital Social Capital 	
	Social Capital	
	Human Capital	
	Financial Capital	
Natural Capital	The Khanthalguri EDC is under the jurisdiction of Manas Reserve Forest. Major natural capitals are trees that includes Sida, Ajar, Gamari, Titasapa, etc.	
	One stream that flows through the EDC which is Bhatgali river stream. The villagers use the stream water for farming purpose and for livestock rearing. Villagers use the ring well and hand pump for drinking water	
	(Refer table 10 of Annexture-6)	
Physical Capital	Most of the households in the Khanthalguri EDC are involved in farming of Paddy and Betel-nuts and are categorized as marginal farmers.	
	(Detailed land holding pattern is described in the Table 3/Annexure 6.)	
	The village has 98 numbers of semi pucca houses and remaining 16 houses are pucca houses. Among the various sources of energy consumption such as kerosene, electricity and LPG, villages depend on firewood and kerosene for household and other uses.(Refer Table 11 of appendix-6)	
	There is one number of L.P. School and Anganwadi Centre available inside the village.(Refer Table 5 of appendix-6) In case of water sources, there are 3 numbers of Ring well, 01 number	
	of Tube well, 01 number of hand pump, 01 number of pond and stream available inside the EDC.	
Social Capital	Lack of participation is revealed during the awareness programme as the villagers are not fully aware about their roles, functions, and specific benefits they are going to receive.	
	However five numbers of self-help groups (SHGs) function in the village There are three numbers of temples and library present in the village. The village has no community hall inside the EDC.	
	mage has no community nan inside the LDC.	

Human Capital	About 49 per cent of total population of the EDC is reported to be literate. Most of the people (about 31.61 per cent) have crossed the primary level education. Moreover 13.75 per cent have passed higher secondary education and 3.75 per cent population are completed graduation and above. (Refer table 3.2 of Appendix 3)
Financial Capital	There is no government bank available in the EDC area. One bank is available in Salbari area which is at a considerable distance (5 km away from the EDC). However, few number of villagers lend from informal lending groups such as SHGs, relatives etc. Nearly 60 per cent have bank account in commercial banks, but they are not aware of the benefits of financial inclusion.
Livelihood Context	 Livelihood activities of the Khanthalguri EDC are identifies on the basis of following criteria: a) Contribution of particular livelihood activity in the total income of the EDC b) Percentage involvement of income group in a particular livelihood activity. c) Priority ranking of the potential livelihood activities
Contribution of livelihood activity in the total income of the EDC	 (a) Betel nuts farming, farming of paddy (b) Daily wage earning (c) Livestock rearing (d) Service (e) Small Business
Involvement of income group in a particular livelihood activity	By observing the household survey and analyzing the PRA activity it is found that all the households are involved in the above mentioned activities in some or other parts of the year. Primary livelihood : Farming of paddy, Daily wage labour Secondary livelihood: Betel nuts farming, livestock rearing, Small business. Some service sector employees are also there.
Priority ranking of the potential livelihood activities	 Priority ranking of Livelihoods & Skills Development Weaving Farming of Paddy Tailoring Carpentry Wage labour Horticulture Food processing

PRA exercise in Khanthalguri EDC as follows:Date: 9th April Location: Khanthalguri L.P. School. Numbers Present: 25 In Presence of: Village Headman, executive recommunity members, Forest Department personnel, or Objective of PRAObjective of PRAThe objective was to understand the existing hous obtain other primary data about the community livelihood options and the forest development plan.Tools Used & Outcomes of the PRADifferent tools were used and outcomes obtained. The Social Mapping Wealth Ranking Time Line review	etc. whold conditions and for developing the		
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Outcomes of the PRA Social Mapping Wealth Ranking	ese include:		
PRA Social Mapping Wealth Ranking			
Wealth Ranking			
C C			
Seasonality of Livelihoods			
Venn Diagram			
Chapatti Diagram			
	Appendix-3 furnishes detailed information of the above.		
 Entry Point Activities (EPA) Livelihoods & Skills Development Ranking of EPA 	Livelihoods & Skills Development		
Rank Village EPA as Details	Rank Village EPA as Details Probable source of		
ranked (Appendix-3 has additional particulars)	funding/deptt.		
1. Community Hall For organizing community meetings	Panchayat and Rural Development		
2. Handloom (Weaving) A center with training facilities which link to mass consumption	APFBC		
3. Drinking Water For household consumption	EPA/APFBC		
4. Irrigation For agriculture activities	Irrigation Dept., Govt. of Assam		
5. Sanitation Providing HHL (House Hold Latrine)-low cost, septic and sanitary type.	Swachh Bharat Mission/PHE		

Livelihood	Livelihood Opportunities were identified as follows:
opportunities	1. Weaving
	2. Farming of Paddy
	3. Tailoring
	4. Carpentry
	5. Wage labour
	6. Horticulture
	7. Food processing
	Additional discussion about the above has been given below.
Agriculture	Table-12 Under Record-2 may be seen in this connection for opportunities
	in the areas of agriculture and horticulture.
	The main constraints are:
	(a) Lack of barrier for wild animals.
	(b) Inadequate irrigation facilities
	(c) It is found from the PRA exercise that the modern facilities used in agricultural farming is seen negligible i.e. tractors and other accessories are nil in the EDC.
	(d) There is no use of high yielding variety of seeds.
	The opportunities are:
	(a) Social fencing to protect agricultural land.
	(b) Provide irrigation facilities and establish link with irrigation
	department(c) Introduction to modern tools and equipments.
	(d) Application of HYV seeds
	The suggested programmes are:
	(a) Training on organic farming.
	(b) Linking up with govt. departments to avail different schemes.
	(c) Awareness programme related to various government schemes, like RKVY, NFSM and soon.

Waari	Table 12 Enniches additional information about a mentality for
Weaving	Table-13 Furnishes additional information about opportunities for weaving.
	The main constraints are:
	(a) Lack of modern equipment like Jakart machine.(b) Lack of knowledge on using modern technology.
	The opportunities are:
	(a) Women folk are skilled with traditional weaving practice. Bulk collection of yarn and selling of finish product by EDC can enhance the village development fund.(b) As the weavers are equipped with traditional skill and introduction of new technology is not a problem.
	The suggested programs are :
	(a) Training on using modern equipment in weaving.
	(b)Convergence with weaver's association etc.
NTFP	All village is located adjacent to protected area, there is no scope for collecting NTFP.
Specialized Skills	For skills development, the opportunities are tabulated at Table-15 under Record-2
	The main constraints are:
	(a) Lack of product diversification
	(b) Lack of research on product quality(c) Use of traditional machineries
	The opportunities are:
	a) Exploring new marketsb) Developing demand based products as per the needs
	The suggested programme are:
	 (a) Training on Modern Tools and Equipment. (b) Skill up-gradation& Training on New Product Development and Product Diversification (c) Providing a bulk buy arrangement of the finished product with institutional buyers

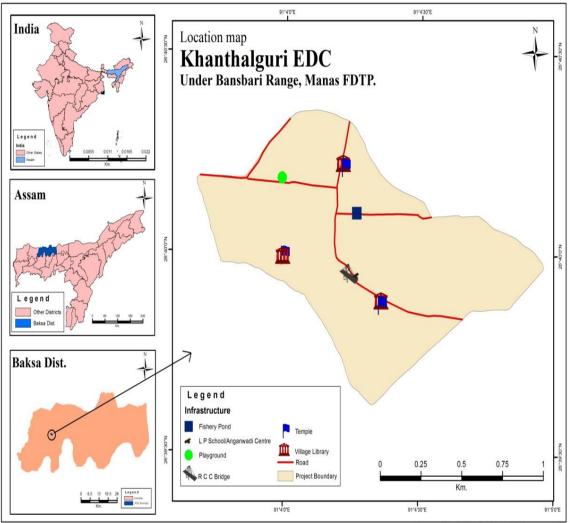
Credit Facility	Table-16 under Record-2 discusses this aspect.
	The main constraints are:
	(a) Financial exclusion
	(b) Higher rate charged by the private money lender.
	The opportunities are:
	a) Setting up modern financial institution
	The suggested progarmme is:
	a) Awareness Programmes on various subsidized schemes of government
Strategic	The strategic interventions for the Livelihood Development Plan are:
intervention	1. Agriculture : Agri-skill development programme and tractor operation training.
	2. Weaving : Training on using modern equipments in weaving, convergence with weaver's association.
	3. NWFP: No scope
	4. Specialized skills: Training on Modern Tools and Equipment
	5. Credit facility: Setting up modern financial institution in the area

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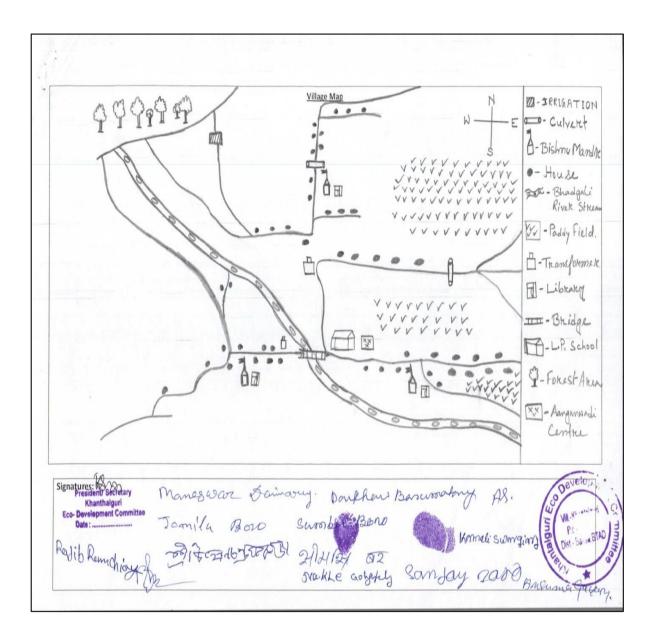
Appendix 1

1. Location Map

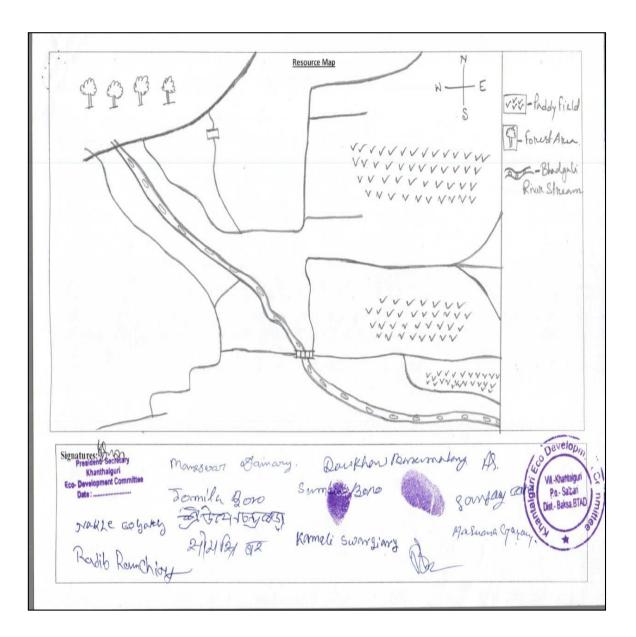


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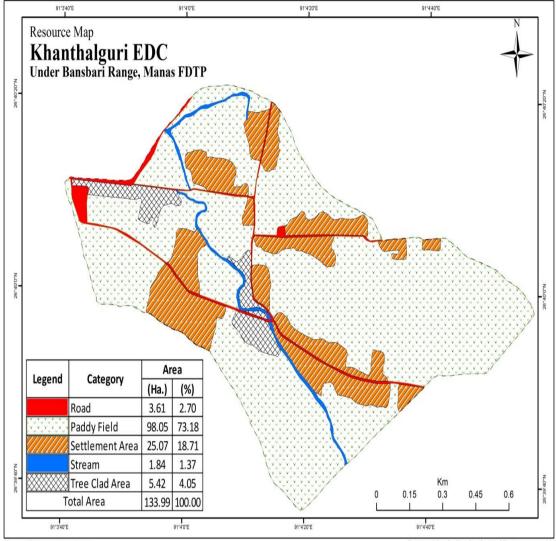
2. Village Map:



3. Resource Map of Khanthalguri EDC:



Appendix 2 Land Use Map of GIS



Source: Google earth Imagery

Prepared by: Indian Institute of Enterpreneurship

Appendix 3

PRA ACTIVITY

Location and Timing of Participatory Rural Appraisal:

Numbers of participants :	25
Time :	10.30 am, 9 th April 2017
Venue :	L.P. School (Khanthalguri EDC)

Table – 3.1: Brief about the villages under Khanthalguri EDC

Sl.	Name of the Village	No. of households	Р	opulation	
No.			Total	Male	Female
1.	Khanthalguri	114	560	276	284
	Total	114	560	276	284

Source: Field Survey

Table – 3.2: Education profile Khanthalguri EDC

Illiterate	Primary	Middle School	High School	Higher Secondary	Graduate and above	Total
285	85	40	52	77	21	560

Table – 3.3: Income category of Khanthaguri EDC

Income Category (in Rs.)Yearly	No. of Households
60000 - 80000	28
80000 - 100000	59
100000 - 120000	15
120000 - 150000	8
> 150000	4

Different PRA tools used under the exercise of PRA technique are:

- a) Social Mapping
- b) Wealth Ranking
- c) Time Line Review
- d) Seasonality Analysis
- e) Venn Diagram
- f) Chapatti Diagram

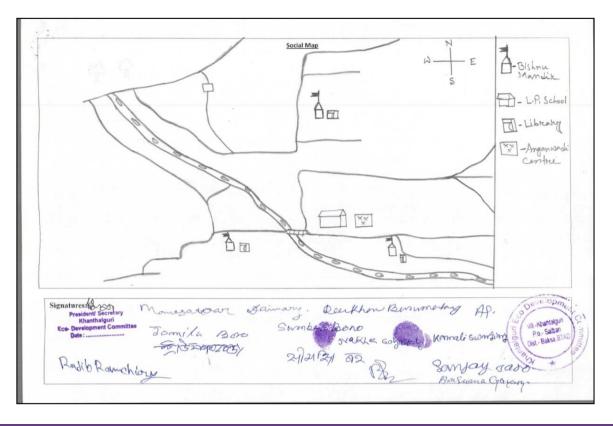
3.1 Social Mapping:

Social mapping is used to visualize the socio-economic aspects of the Khanthalguri EDC where the housing patterns of the households, the numbers of schools, social infrastructure, and religious beliefs among households. At first, we made the transect walk through the village and all the social institution were recorded using the GPS receiver. The villagers actively participated in the mapping process and provided required information about the village.

The villagers were asked to draw the village main roads and then they were asked to locate their houses and the important social places and institutions with help of the PRA team members. Three of them voluntarily came out to draw and they were assisted by other villagers and the team members. All the villagers spotted their households and social places in the map.

Social Information	Village	Khanthalguri
	Total population	560 nos.
	Male	276 nos.
	Female	284 nos.
	Total households	114 nos.
	Numbers of Pucca Houses	16 nos.
	No of thatch house/Kutcha House	-
	No's of semi pucca house	98 nos.
Land Marks	Bridges	1 no.
	Stream	1 no.
	River	Nil
	PHED	Nil
	Community hall	Nil
	Community Hand pump	Nil
	Well	4 nos.
	Embankment	Nil
	Check Dam	Nil
	Play Ground cum Grazing filed	1 nos.
	Library	3 Nos.
	Transformer	1 no

Table 3.1: Information about the villages



Findings of Social Map:

- The participants of social mapping have identified all the 114 households out of which 98 households were semi pucca house and rest 16 households were pucca. There was no IAY household within the village that came under the BPL category. This signifies that the IAY scheme of Government has not achieved considerable coverage of poor people residing in the village.
- Apart from the individual households, important places like LP school, Anganwadi centre, Temples, Library and playground, stream, community well, community tube well, hand pump and bridges were mapped out.
- > Main sources of water for the villagers are the community Ring well and tube wells.
- Provision of Education facility is not satisfactory. There is only one primary LP school but no ME and High school within the village
- > All the people belong to the Bodo community which is of schedule tribe caste.

Learning:

- Though electricity is available inside the villages but its presence is negligible due to continuous power failure for more than 4-5 hours per day.
- Though all the villagers used firewood as primary source for their cooking purposes, but few of the households have LPG connection. The villagers are not completely dependent on the forest resources for their daily livelihood activities.
- All other important institutions viz., ME school, High school, Primary Health Centre, Bank along with Post Office is located at Salbari which is at a distance of 5 km away from the village.
- There is also three village libraries available beside the L.P school in the EDC where various meetings are held.

- The villagers of the EDC are fully dependent on crop residue, household wastages, grasses, and green fodder.
- ➤ Agricultural and livestock are partly damaged by the wild animals that come from the national park as there were no social fencing constructed throughout the area.
- The villagers of the Khanthalguri EDC have to move Salbari which is at a distance of 5 km for their weekly marketing activity.

3.2 Wealth Ranking:

Wealth ranking, or well-being ranking, involves community members identifying and analyzing the different wealth groups in a community. It enables evaluators to learn about the socioeconomic stratification of project beneficiaries and local people's definitions and indicators of wealth/wellbeing.

Wealth ranking was done with the help of the following criteria:

- a) Land holding
- b) Occupation

The analysis revealed that about 24.56 percent people were poor, 71.93 percent were middle class family and the rest 3.51 percent were rich people. Poor people were mainly engaged in daily wage labour and sometimes they take lease (adhilua) others agricultural land.

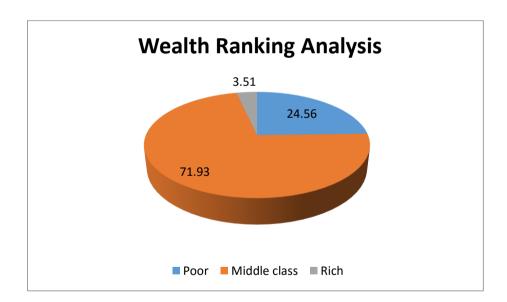


Figure 3.1: Wealth Ranking

3.3 Timeline Review

In order to know the past important cum historical events over time, the team has conducted the timeline analysis. The team members discussed about the local events to the village head, elderly persons and also to some young people to have an idea about how they dealt with those situations and what was the impact of those events on their lives as well as on the development of the village. Our time line illustrates the following events.

Year	Event	Туре
1971	Primary School established	Construction
1976	1 st Matriculate	Achievement
1977	Man-animal conflict	Destruction
1981	1 st Graduate	
2010	Youth migrated in search of livelihood opportunity	Migration
2013	Construction of pucca road and RCC bridge	Construction

Table 3.3: Timeline review

3.4 Seasonal Mapping of livelihood activities:

Seasonal calendars drawn by the local people are very useful means of generating information about seasonal trends within the community and identifying periods of particular stress and vulnerability.

Best undertaken in the context of a group discussion (to help verify the information obtained), seasonal calendars are often drawn on the ground with the relative trends depicted using stones or seeds, as in a preference-ranking matrix.

In other instances, simple line graphs can be drawn to show seasonal increases or decreases. A whole series of seasonal variables can be included in one calendar to give an overview of the situation throughout the year. These variables can include: rainfall, crop sequences, labour demand, availability of paid employment, out-migration, incidence of human diseases, expenditure levels, and so on. Important periods, such as festivals, can also be shown.

Seasonal mapping mainly covers the seasonal variation of crops. In seasonal mapping, we considered agricultural crops and the timing of three activities viz. showing, cropping and harvesting criteria and collected the details throughout the year.

From the seasonal mapping, it has been noticed that the main crops grown in the village are Sali rice, Betel-nut, Lemon, etc. The survey revealed that other major livelihood options available in the EDC are Livestock rearing (Piggery, poultry), weaving, daily wage laborers, mason, tailoring, carpentry which are not seasonal in nature but is showed in the seasonal mapping.

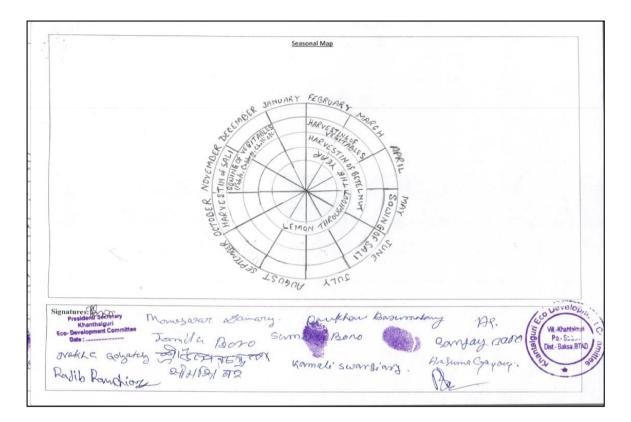
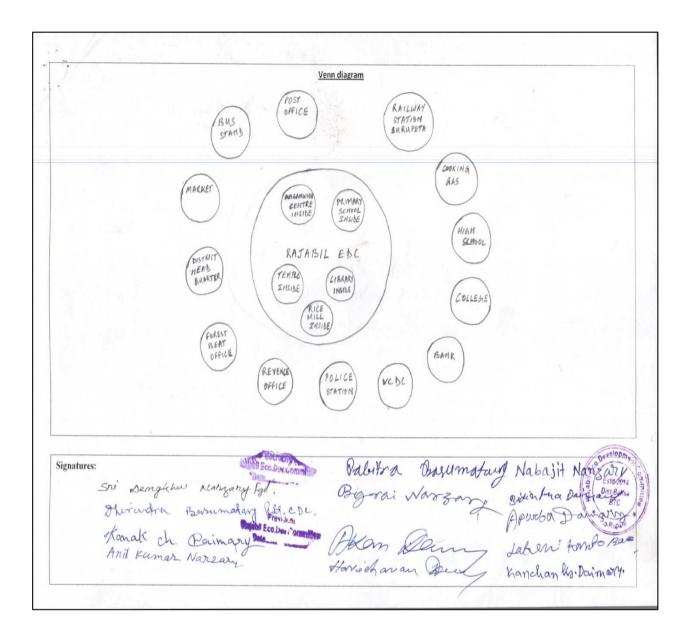
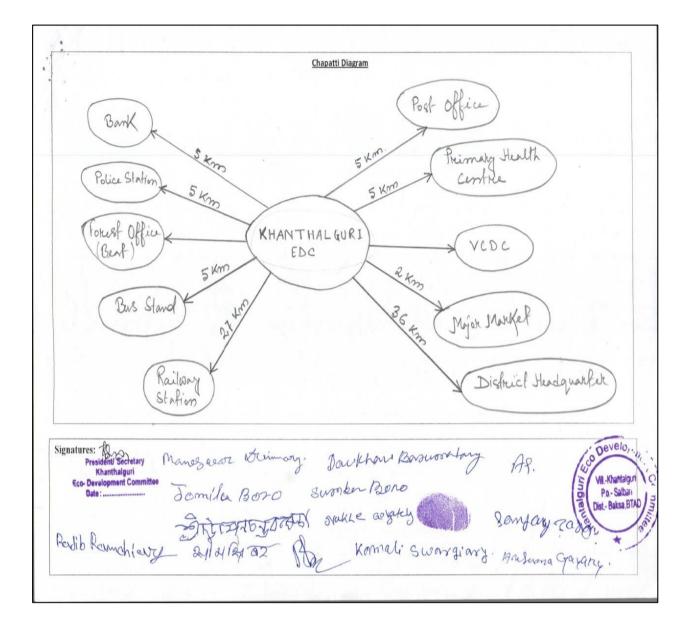


Figure 3.2: Seasonal Map of Khanthalguri EDC

Categories Farming		Time of	Activity						
Farming		Sowing	Harvesting	Plucking					
	Sali	May-June	Oct-Nov	-					
	Betel-Nut	July-Oct	Feb-May	-					
	Vegetables	Nov-Dec	Feb-Mar	-					
	Lemon		Throughout the year						
	Weaving								
	Livestock								
	Rearing								
	Daily Wage								
N. T.	Earning		Throughout the year						
Non-Farming	Shop-keeper								
	Electrician								
	Masonry								

3.5 Venn Diagram





Priority Ranking- EPA

ABCDEFGHIJKRoadA \overrightarrow{K} \bigcirc			Roa d	Drinkin g water	Electricit Y	Hospita I	veterinar Y	Communit y hall	irrigatio n	sanitatio n	Educatio n	Marke t shed	Handloo m	Marks scorin g	Positio n
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Priority Ranking-Livelihood

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Appendix 4 PHOTOGRAPHS



PREPARING VILLAGE MAP THROUGH PRA EXERCISE



A SNAP WITH THE VILLAGERS

Appendix 5

	List of EDC	Executive Members	
Sl. No.	Name	Designation	M/F
1	Khagen Swargiary	President	Μ
2	Dengkhw Narzary	Secretary	Μ
3	Moneswar Daimari	Member Secretary	Μ
4	Chiron Goyari	Treasurer	Μ
5	Rajib Mohilary	Member	Μ
6	Bani kt. Basumatary	Member	Μ
7	Bipin Swargiary	Member	Μ
8	Bharti Basumatary	Member	Μ
9	Amarsing Daimary	Member	Μ
10	Sobaram Narzary	Member	Μ
11	Monjuli Swargiary	Member	Μ
12	Sansuma Swargiary	Member	Μ
13	Anla Boro	Member	Μ
14	Kamal Wary	Member	Μ
15	Smt. Meena Goyary	Member	F
16	Smt. Jaysree Wary	Member	F
17	Gawhwm Boro	Member	Μ
18	Bujan Baumatary	Member	М
19	Smt. Panka Rani Mohilary	Member	F
20	Smt. Purnima Bassumatary	Member	F
21	Bipul Basumatary	Member	Μ

Registration Certificate of Khanthalguri EDC

A CONTRACT OF A

List of Training Participants

		List of Particip	ants			S Vill-Khantole mi Po-Salar
SI. No.	Name of Pa	rticipant	Sex	Age	Qualification	DistBaksa.BTAD
1.	My Laksmi	Swargiary.	P	24	HSLC.	12 -05
2.	Nors Monjuli	Swargiary	F	23	HSLC.	*
3.	4 Niroda	Swanging	·F	32	18	
4.	11 Amang	Swargiary (2)	F	35	NA	
5.	11 Belsni	Swargian	do	30	do	_
6.	1) Amang	Swargeary (2)	do	32	de	
7	Miss Sujuma	Swargeary	20	24	BASCM.	-
8.	Mrs. Karbe	Swangian	do	23	<u> </u>	
9.	4 Kamale	Swargeam	do	30	(X) Q	-
10.	4 Phulmati	Swargiary	do	22		-
11.	Dipali	Swargiarz	de	24	1 2 2 1 2 1 2	1
12.	" Joy 82 0	alumatary.	do	82	15	-
13.	4 Nakhle 4 Rémi	Govern	de	23	C.	
14.	" Swmbox	3000 B000	old	28	Nil	1
16.	11 None	3000	do	29	Nil	1
17.	4 Joy82	coaryn	do	24	ý li]
18.	" Bizoda	Goyary.	do	32	Viii	
19.	u s'autchli	13020	de	29	Nil	
20.	4 Sphale	Brahma.	lo	35	Nil	
21.	11 Haethuri	Nargary	do	36	i Se	
22.	U Golapi	Daimarz	do	32	Ŷ!	_
23.	11 Parul	Daimarz	do.	47	5	
24.	4 Pasmi	Basumatary.	do	27	HSLC .	
25.	11 Bhanus	Swargiarz	do	28		-
26.	11 Ajalé	Basematony.	do	32	<u> </u>	-
27.	" Monnika	Basumatan	do	28	<u>%</u> िंग	-
28.	" Bailganti	swargiary	do do	26	HSLC.	
29.	4 Sopha	basumatary.	do	35	Viii	-
31.	4 Rojoni 4 Mumpari	Basumatary Ramchiary	do	36	- Vu	-
32.	4 Gizija	Ranchiary	do	38	NII	1
33.	4 Hemleta	Daimazy	do	27	Se .	1
34.	1) Haile	Daimary	do	38	Ŷ,]
35.	4 Béjita	Ramaniary	do	21	HSLC	
36.	11 Abola	Daimary	do	32	Nile	
37.	" Kokila	Born	do	37	×	1
38.	" Pratima	Mahilary.	do	36	HS	
39.	" CRAMPA	Mohilary	do	36	150	-
40.	1 Gobern	Mohilary	do	35	HSEE	
41.	11 Reparma	Besumatazz	do	30	HSLC	-
42.	11 Scelti Bal	a Nargary	do	37	15	-
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Appendix 6 (Record I)

Table 1: Basic data of the EDC

Name of	Date of	No of	Name of	Name of	Money in	Contrib	Soci	Rema	Gradin
EDC	Establishm	members	presiden	Secretar	Village	ution	al	rks on	g %of
	ent of the	in	t	у	dev.	per	fanci	special	success
	EDC	executive			Fund	family	ng	attain	of EDC
		committ			(VDF)	or per	used	ments	by RFO
		ee				person	Y/N		
Khanthal	09/04/2015	21	Khagen	Denkhw	-	-	-	-	-
guri			Swargiar	Narzary					
			у						

 Table 2: Demographic status of the project village

Name of village	House holds	olds		ST OBC		ST		OBC		C	Sex ratio	Avg. HH Size (Approx.)
	(No.)	Total	Male	Female	Male	Female	Male	Fem ale	(per 1000 male)			
Khanthalg uri	114	560	276	284	-				1029	5		
Total	114	560	276	284	-				1029	5		

Source: - Field survey report

Table 3: Village	Table 3: Village wise farmer category on the basis of landholding:							
Table3 Village wise fa	Table3 Village wise farmer category on the basis of land holding							
Name of the village		Type of famer according to land holding						
	LargeSmall farmerMarginalLand lessTotalfarmer2-10 ha.farmer(household)>10 ha.(household)<2ha.							
Khanthalguri	-	4	82	28	114			
Total	-	4	82	28	114			

Table 4: Livestock Population:

SI	Name of	Village wise no of cattle's or type of animal								
No.	the village	Cows	Buffaloes	Goat	Duck	Hen	Pig	Total		
1	Khanthalguri	197	11	73	-	980	140	1401		
	Total	197	11	73	-	980	140	1401		

 Table 4: Cattle Population of the EDC

Table 5: Village wise Infrastructure:

Table 5: Showing village wise infrastructure

Sl. No.	Infrastructure	Location	Distance from village
1	Bus Stand	Salbari	5 Km
2	Electricity	Salbari	5 Km
3	Gas connection	Salbari	5 Km
4	Primary Health Centre	Salbari	5 Km
5	Primary School	Khanthalguri	Inside the Village
6	Middle School	Salbari	5 Km
7	Post office	Salbari	5 Km
8	High school	Salbari	5 Km
9	Bank	Salbari (SBI)	5 Km
10	Anganwadi centre	Khanthalguri	Inside the Village
11	PostOffice	Salbari	5 Km
12	Forest Range Office	Bansbari	5 Km
13	Forest Beat Office	Bhatgali	1 Km
14	Railway Station	Sarupeta	23 Km
15	College	Salbari	5 Km
16	Police Outpost	Salbari	5 Km
17	Weekly Market	Salbari	5 Km
18	VCDC	Ghoramara	2 Km

Table 6: Agricultural crops

Particulars	Rain	Fed	Irrigation	
	Name of the crop	Area (in ha.)	Name of the crop	Area (in ha.)
Kharif	Aijung, Sali	45.60	-	-
Rabi	Chilli, Radish, Potato	10	-	-
Others	Lemon	2	-	-
	Betelnuts	15	-	-

Table 6: Agriculture Crops

Table 7: Crop Profile Production of Khanthalguri EDC

Table 7: Crop production profile of Khanthalguri EDC

Type of crop	Total Production (approx.) in quintals	No of household growing	Average production (Quintal/ ha.) approx.	Area under crop (ha.) approx.
Paddy	1368	86	30	45.60
Vegetable	37.5	40	3.75	10
Lemon	12	35	6	2
Betel nuts	150	95	10	15

Table 8: Fodder Availability (animal)

Table 8 Fodder availability of the EDC

Types	1-3 month	3-6 month	>6 month
Crop residue		✓	
Household wastages			\checkmark
Green Fodder			\checkmark
Grazing in Forest		✓	

Table 9: Location of market from the village

Table 9: Location of market from the village

For Purchase	Location	Distance from village if in other village (in km)
Grocery shop	Salbari	5 Km
Weekly Market	Salbari	5 Km
Major Market	Rupohi	2 Km
Forest Corporation Sale Depot.	-	-
Tendu Patta PHAD	-	-
Fish Market	Rupohi	2 Km
Medicinal Plant collection Centre	-	-
Forest Corporation Medicinal plant Collection Centre	-	-

Table 10: Water Resources Facility:

Table 10: Showing the water resource facility available in the village

Water source	Number	Availability of water	Uses
Stream	1	Perennial	Irrigation, livestock rearing
Tube well	1	Perennial	Drinking, Domestic uses
Ring Well	3	Perennial	Drinking, Domestic uses
Pond	1	Perennial	Fishery

Table 11: Energy consumption

Table11: Showing the Energy Consumption of the Khanthalguri EDC

Type of Fuel	Number of household depending	Number of months dependent	Sources (local, village, forest, other sources)	Major/ Secondary
Fuel wood	114	Whole Year	Homestead/ Forest area	Major
Kerosene stove	76	Whole year	Open Market	Secondary
Gobar/Bio gas	-	-	-	-
LPG	12	Whole year	Agency	Secondary
Electric Heater	-	-	-	-

RECORD: II LIVELIHOOD OPPORTUNITY ANALYSIS

Table 12: Agriculture and Horticulture:

Constraints	Reason	Opportunities	Programme
Low Production	 animals(social fencing) Inadequate irrigation facility Traditional method of cultivation (Lack of agricultural 	 irrigation department Introduction to modern tools and 	departments to avail schemes related to irrigation.
	• Application of HYV seeds	• The villagers are inherited with the skill of cultivation. But an improvisation of skills is the need of the hour. Usage of high yielding seed program.	Agra-skill development programme Training on insecticides, pesticides, hybrid cultivation
Storage and Production	 Lack of common storing place Lack of cold storage facility due to non-availability of electricity. 	 Helpful in • preserving unsold • products for a longer period of time. They can store their product and sell it when There is a higher demand. 	Packaging Transportation and distribution.
Marketing	• Lack of transporting facilities for carrying	 Smooth transportation facility will help the buyers meet sellers. 	

Table 12: Showing the agricultural and horticultural status

Table 13: Livestock

Constraints	Reasons	Opportunities	Programme
Less gazing land	Not Applicable	-	-
Availability of Fodder	Not Applicable	-	-
Veterinary care facility	No Veterinary care facility available	Training on minimum veterinary care facility	-
Production of milk and dairy products	No scientific knowledge on cattle rearing to increase milk production	Training on milk production	-
Milk market	No proper market facility	Suitable market for selling	-

Table 13 Livestock

Table 14: NWFP

Table 14: NWFP

Constraints	Reasons	Opportunities	Programme
Less collection	Not Applicable	Not Applicable	Not Applicable
Unsustainable extraction	Not Applicable	Not Applicable	Not Applicable
Low rates	Not Applicable	Not Applicable	Not Applicable
Value addition	Not Applicable	Not Applicable	Not Applicable

Table 15: Specialized skill

Table 15: Specialized skills: Weaving

Constraints	Reasons	Opportunities	Programme
Raw material	 Non-Availability of Raw Materials within reachable location (market 25 km away) 	 Common place for setting a raw material storage 	• Setting up a raw material bank

Product quality	• Lack of using modern equipments like jakart machine.	 As the weavers are equipped with traditional skill and introduction of new technology will help increasing both production and income. Developing Quality Products for new market exploration. 	 Training on Modern Tools and Equipment. Providing modern technology to the villagers
Marketing potential	 No standardized market No pricing policy No linkage with the institutional buyers No Product 		• Providing a bulk buy arrangement of the finished product with institutional buyers.
Credit facilities	 Avail credit facility through SHGs. Unaware of the development schemes of banks and government 	 Make financial institutions in touch with the community people for building trust among the members to avail credit facility. Financial assistance by the 	 Linkage with customer service point by linking community people through financial institution. Microfinance, Term Loans, Working Capital Arrangement
Product Diversification	 No Product Diversification or New Product Development. Lack of concept for 	 Govt. Providing easy access to credit. Developing Demand Based Products, as per the needs of the 	• Skill Up gradation & Training on New Product Development and Product
	product diversification.	modern day market.	Diversification

Table 16: Credit facility

Table	16:	Credit	facility
Iuvic	10.	Cicun	Juciny

Constraints	Reason	Opportunities
Ineptness	Nil	• Setting up modern
		financial institution in
		the nearby areas.
Rate of interest	• Higher lending rates charged by the private money lender	• Subsidized credit arrangement
Availability of loan	• Fear of risk taking lake of knowledge of documentation	• Start-ups entrepreneurial venture
Mortgage difficulty	• Unavailability of proper documentation of mortgaged property.	• Proper awareness about documentation in the area