

DHEKIAJAN RAJALI JOINT FOREST MANAGEMENT COMMITTEE (JFMC) DIGBOI FOREST DIVISION

MICRO-PLAN (2016-17 to 2025-26)

Prepared by Dhekiajan Rajali Joint Forest Management Committee

Assisted by
Assam Forest Department

COMPELO (IIE and RGVN)

Divisional Forest Officer
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List of Acronyms

Acronym	Full Form	
APFBC	Assam Project on Forest and Biodiversity Conservation	
AFD	Agence France de Développement	
BPL	Below Poverty Line	
COMPELO	Consortium for Micro Planning and Enhancing Livelihood Opportunities	
CML	Centre for Microfinance and Livelihood	
EPA	Entry Point Activities	
GIS	Geographical Information System	
На	Hectare	
IIE	Indian Institute of Entrepreneurship	
JFMC	Joint Forest Management Committee	
Kg	Kilogram	
Km	Kilometer	
MT	Metric Ton	
NGO	Non-Governmental Organization	
NTFP	Non Timber Forest Product	
NWFP	Non Wood Forest Product	
PDS	Public Distribution System	
PRA	Participatory Rural Appraisal	
RGVN	Rashtriya Gramin Vikas Nidhi	
Rs.	Indian Rupees	
SHG	Self Help Group	
VCDC	Village Council Development Committee	

DHEKIAJAN RAJALI JOINT FOREST MANAGEMENT COMMITTEE DIGBOI Forest Division

Micro-Plan for 10 Years [Livelihood Development Plan & Forest Development Plan]

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1. Introduction The vision of the Assam Project on Forest and Biodiversity Conservation (APFBC) is 'to enable About the **Project** 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 Agence France de Development (AFD) - i.e. the French Development Agency, with cofounding 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-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 Planning & addition and marketing under this project. This has become necessary on account of the pressures on Livelihood existing forest resources due to the growth of population. There is a need to explore value addition to **Development** 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. comprising of Indian Institute of Entrepreneurship (IIE) consortium RashtriyaGraminVikasNidhi (RGVN) has been formed to implement (inter-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 both forest development and livelihood development. Micro-Plan This document gives the Micro-Plan for the DhekiajanRajali JFMC, which is located in the Tinsukia district of Assam. The JFMC falls under the jurisdiction of the Digboi Forest Division of for the the Eastern Assam Circle. The profile of the community is given in the next section. Dhekiajan Raiali The present micro-plan has been prepared by members of the community within the JFMC, **JFMC** 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 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 23.04.2017.

2. Village Socio-Economic Profile

Location

The DhekiajanRajali Joint Forest Management Committee (JFMC) has been formed to cover the existing community dwelling in MulokGaon, KhalGaon, Nepali Gaon, ChristanGaon Village located on the fringe of the Digboi Forest Range, Digboi Division. The area covered by the above JFMC falls within the Margherita Revenue Circle of Tinsukia District of Assam.

Key Information

The key information of the JFMC is furnished below.

Table-A: Key Information of the JFMC

Name of the JFMC	DhekiajanRajali
Habitation	DhekiajanRajali
Name of Revenue Village	-
Name of the Gram Panchayat /	Golai
VCDC	
Revenue Circle	Margherita
District	Tinsukia
Forest Division	Digboi
Forest Range	Digboi
Forest Beat	Raja Ali
Year Formed	2015-2016
Description of Boundary of	As below
JFMC	North: Upper Dihing East Block
	Dibru River
	South: Digboi Oil Field
	/DigboiPangeri Road
	West : BhimPathar Forest Village
	East: Upper Dihing East Block
	Rajali Forest Village.

Source: JFMC Records & Discussions during PRA Exercise in 23rd April 2017

Additional details are given at **Table-1** of Record-I. (Given at Annexure)

Brief Details
of the
Executive
Committee
&
General

Body

The brief details of Executive Committee & General Body of the JFMC are contained in the table, which is given below.

Table-B: Brief Details of Executive Committee & general Body

Name of President	Mr. DigantaSonowal
Name of Secretary	Miss Parineeta Singh
No. of Members in	Male: 6
Executive Committee	Female: 4
	Total- 10
No. of Members in the	300 (The number represents head of each
General Body	household of under the JFMC

Source: JFMC Records

Households & Population Structure	The JFMC has 300 households, of which 270 households are BPL (Below Poverty Line) households. The total population is 1490, of which 855 are males and 635 are female members. Majority of the village population belongs to ST community and few households belong to OBC community. Table-2 of Record-I 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 4.96 (2) The sex ratio is 742 females per 1000 males in the village.
Education & Skills Developmen t	Over 96 % of the population is reported to be literate. Most of the community members have received school level education. On the other hand, relatively smaller amount of households have college educated members. Livelihood skills are usually acquired under various settings – formal & informal. In the JFMC area, informal means for skills development is the traditional norm. People have traditional skills in the following areas: a) Livestock b) Weaving c) Cane and Bamboo Government has been active in promoting formal skills development programmes in the country as well as in the state. However, no such programmes have been carried out in the habitation or in nearby areas.
Soil	The soil type of the project area includes: The area situated on a layer of clay soil of light yellowish and dark grayish colour up to a depth of about 2.5 m, then a layer of sand (Quartz) up to about 16 m and an under layer of clay, grayish m colour hard and sticky. The soil is found usually acidic in reaction. The major soil groups are (i) new alluvial soil (ii) old alluvial soil, (iii) piedmont soils and (iv) red loamy soil. The soil is reported to be fertile and support various types of crops and different vegetation which includes Radish, Pumpkin, Brinjal, Potato etc.
Water	The DhekiajanRajali villages have access to few water resources and area is drained by Panipungjan Rivulet.
Climate: Temperatur e & Rainfall	The maximum temperature during the summer reaches 34° C. The minimum temperature during the winter is 8-12° C. The annual rainfall is about 59-160 cm. About two-thirds of the rainfall usually occurs during the rainy season (June). The village has high levels of humidity (over 90%) during the rainy months and low levels in the winter (Below 30%).
Forest & Biodiversity	The local forests have been broadly classified as Alluvial Plain Sal Forest and Eastern Terrain Sal Forests. The main tree species Hollong, Titasopa, Holokh, Ajar, Uriam, Bonbogori, Khokon, Nahoretc.The forests can yield a range of NTFP like spices, leafy vegetables, ferns, medicinal plants, bamboo, thatch, fodder, etc. Additional details in this regard are given at the 'Forest Development Plan'.
Land Use Pattern	Appendix-2 gives the land-use pattern of the village. From the same, it is seen that the land-use in the village is as follows: Paddy: 80% Road:1.43% Settlement:18.31%

Land	The type of households as per land-holding is given at Table-3 of Record-I.		
Holdings	From the same, it is seen that:		
	• 100 % of the households are marginal farmers (less than 2 Ha)		
Livestock	The total number of livestock in the village is 1405. The main types of livestock possessed by the		
	households include:		
	Cows: 360		
	Goats: 230		
	Bulls: 170 Table 4 of Record I may be reformed to for the details in the above connection		
	Table-4 of Record-I may be referred to for the details in the above connection.		
Village	In any community; the availability of basic infrastructure enables the development of sustainable		
Infrastructu	livelihood options. The present condition of infrastructure in the village is not satisfactory. This is borne out by Table-5 of Record-I, which gives the present status of the village infrastructure.		
re &	From the above table, the following have been noted with regard to village infrastructure:		
Communica	Physical Infrastructure: The peoples are deprived of basic physical infrastructure. There is absence		
tion	of basic physical infrastructure like paved roads, Bank etc.		
	Education & Health Facilities: The education system of this village is not so satisfactory. There are		
Facilities	minimal educational facilities. There is only one primary school present inside the JFMC area.		
	Public transport is available but it cannot be said as much as good and the community members have		
	to use bike and bicycles to move around.		
	Govt. Offices: The government offices (such as Police station, Gram Panchayat office, Revenue		
	office, Forest Range office etc.) are not located at a considerable distance, which gets augmented as		
	the villagers do not have access to regular public transport from either the habitation or from nearby areas.		
	Financial Inclusion : Facilities for financial inclusion like bank is not located at a considerable		
	distance from the habitation.		
Agricultural	The details of the agricultural crops grown in the village is available at Table6 of Record-I.		
Crops	The above shows that the following are the main crops grown in the village.		
	a) Kharif Crops: Paddy-Sali;		
	b) Rabi Crops: Seasonal Vegetables- Potato, Mustard, Brinjal, Pumpkin, Radish etc.		
Crop	Table-7 of Record-I may be referred to for the production and yield details of the crops grown in the		
Production	village. The maximum numbers of households are involved in arraying areas like 65. The production and		
Profile	The maximum numbers of households are involved in growing crops like 65. The production and yield of these crops is given as follows:		
	(a) Paddy: 25ha.		
	(b) Vegetable: 10ha.		
	(c) Tea: 30ha.		
Fodder	The matter of fodder availability in the village is dealt with at Table-8 of Record-I. The above		
Availability	shows that the main sources of fodder in the village are as follows:		
	a) Paddy Waste		
	b) Household Kitchen Waste		
	c) Surplus Vegetables		
	d) Grazing Land		
3.5	e) Forest		
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: Muliabari, Bapabung 6-7 Km		
	(b) Weekly / Bi-weekly Market: Pengaree at 4Km		
	(c) Major Market: DigboiChariali Bazar at Km		

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Water	The water resources are tabulated at Table-10 of Record-I. The main water resources with the water		
Resources	availability is as follows:		
	(a) River Water (Water Availability: Perennial / Seasonal)		
	(b) Tube well (Water Availability: Perennial / Seasonal)		
Energy	Table-11 of Record-I shows the major sources of energy in the village. The same have been listed		
Consumptio			
n	a) Fuel Wood- 195 Nos. Source: Forest		
	Plantation		
	b) LPG- 105 Nos.		
Socio-	Social set-up: The village is inhabited by tribal and Non tribal community and is comprised of		
economic	OBC and Schedule Tribe. The society is not marked by deep social divisions. The observed		
status	position of women is satisfactory.		
	Economic Condition: The economic position is / is not satisfactory. The main livelihood is tea		
	plantation and vegetable Cultivation. The household earn from a minimum of Rs. 50,000 to a		
	maximum 60,000 per year.		
	Additional details are available at the next section.		
Maps	Appendix-1 gives the following maps, based on PRA exercise:		
	Village Map		
	• Village Social Map (with the names and particulars of members in PRA)		
	Village Resource Map		

3. Live	3. Livelihood Opportunity Analysis		
PRA Exercise	Team from IIE Guwahati carried out PRA exercise in KhalgaonDhekiajan village as follows: Date : 23 rd of April, 2017 Location : Primary School,DhekiajanRajali Village, Numbers Present: 30 In Presence of : JFMC office bearers, Village Headman, community members, Forest Department personnel, etc.		
Objective of PRA	The objective was to study the existing household conditions and obtain other primary data about the community for developing the livelihood options and the forest development plan.		
Tools Used & Outcomes of the PRA	Different tools were used and outcomes obtained. These include: Social Mapping Wealth Ranking Time Line review Seasonality of Livelihoods Venn Diagram		
Ranking	Appendix-3 furnishes detailed information of the above. Ranking exercise has been done for the following: • Livelihoods & Skills Development • Entry Point Activities (EPA) Appendix-3 elaborates the above. From the same, it is stated that: Ranking of Livelihoods & Skills Development 1. Agriculture 2. Weaving/Handloom in Modern Tools 3. Tailoring 4. Driving 5. Welding		

Ran	Ranking of EPA			
	Village EPA as ranked	Details (Appendix-3 has additional particulars)	Probable source of funding/dept	
1.	Community Hall	Community hall with infrastructure facility and sanitation facility nearby	APFBC	
2.	Drinking Water Facility	At least 100 tube well to be provided for BPL families of four villages.	APFBC/ PHED	
3.	LPG connection with cylinder	At least 100 LPG connections with cylinder to be provided for BPL families of four villages.	APFBC/ UJJWALA	
4.	Solar light connection	At least 50 Solar Light should be set up within the main point of 4 village	APFBC/MNRE/NABARD	
5.	School Boundary	Construction of two school Boundary namely DhekiajanMadhabdebPrathamikBidiyalya and MulukGaonMadhabdebPrathamikBidiyalya	SSA	
6.	Tent House	A tent house along with Chairs and Utensils	APFBC	
7.	Watch Tower	At least 4 Watch tower should be set within the JFMC	APFBC	
8.	School Boundary	Construction of two school Boundary namely DhekiajanMadhabdebPrathamikBidiyalya and MulukGaonMadhabdebPrathamikBidiyalya	SSA	

Ranking of Livelihoods & Skills Development 1. Tea Wage earning.

- 2. Cane & Bamboo.
- 3. Farming.
- 4. Handloom.
- 5. Tailoring

Livelihood	Livelihood Opportunities were identified as follows:
opportunities	Agriculture & Horticulture
· F F · · · · · · · · · · · · · · · · ·	• Livestock
	• NTFP
	Skills Development
	Credit Facility
	Additional discussion about the above has been given below.
A and and 4	Table-12 under Record-2 may be seen in this connection for opportunities in the areas of
Agriculture	agriculture and horticulture.
	The main constraints are: a)Low
	Production
	b) Storage & processing
	c) Marketing
	The opportunities are:
	a) Increase annual crop cycle
	b) Collection Unit, Packaging
	c) Institutional linkage for marketable outputs
	The suggested programme is:
	Agri-skill development programme.
	Training on insecticides, pesticides, hybrid cultivation etc.
	• Irrigation
T	• Credit facilities.
Livestock	Table-13 furnishes additional information about opportunities for livestock rearing.
	The main constraints are:
	(a) Unable to buy fodder from market due to poor financial condition and less supply.
	(b) Trees fodder and crop residue are available only for 3-6 months. Green fodder is also
	not available for the whole year. (c) No veterinary care clinic
	(d) Lack of knowledge about the proper rearing of live stock
	(d) Lack of knowledge about the proper rearing of five stock
	The opportunities are:
	(a) Higher income from livestock rearing.
	(b) A huge demand for livestock products like pork, chicken, eggs, etc in the nearby
	markets.
	The suggested programme is:
	(a) High Yielding Variety Pig Rearing
	(b) High Yielding Variety Poultry Rearing
NTFP	The opportunities for NTFP are tabulated at Table-14 under Record-2
	The main constraints are:
	(a) Less availability of NWFP
	(b) No technical know-how
	(c) No processing units
	The opportunities is:
	(a) Availability of fertile fallow land (b) Generation of Livelihood from collection
	(b) Generation of Livelihood from collection The suggested programme are:
	The suggested programme are:

	a) Plantation of Food plants, Fodder, Etc
	b) Medicinal Plants and aromatic plants
	c) Herbal plants
Specialized Skills	For skills development, the opportunities are tabulated at Table-15 under Record2
	The main constraints are:
	(a) Lack of product diversification
	(b) Lack of research on product quality
	(c) Lack of TQM techniques.
	The opportunities are:
	(a) Providing good communication facility
	(b) Training of the skill holder
	(c) Financial assistance from govt.
	The suggested programme are:
	Training on Modern Tools and Equipment
	Providing modern technology to the villagers
	Skill Up gradation & Training on New Product Development and Product
	Diversification
	Setting up a raw material bank
	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 with the reasons are:	
(a) Financial exclusion	
(b) Involvement of unorganized money lender	
(c) Lack of Credit Appraisal	
	(c) Eack of Credit Appraisal
	The opportunities are:
	(a)Setting up modern financial institution (b)Adequate
	awareness.
	The suggested programmes are:
	(a) Setting up modern financial institution in the nearby areas.
	(b) Financial Inclusion Initiatives
Strategic	Summarizing the suggested programme at above as strategic interventions for the
Interventions	Livelihood Development Plan:
	1. Agriculture & Horticulture: Tractor operation training, Agri-skill development
	programme, Training on insecticides, pesticides, hybrid cultivation
	2. Livestock: Piggery, Poultry
	3. NWFP: Plantation of Food plants, Medicinal Plant etc.
	4. Skill Development: Weaving. Tailoring .Electrician.
	5. Credit facility: Setting up modern financial institution in the nearby areas

4. Livelihood Development Plan

Income Generating	The main income generating activities as planned at the village are:		
Activities	Farm Sector :		
	1. Poultry and Piggery		
	2. Agriculture		
	Non-Farm sector:		
	1. Handloom/ Weaving		
	2. Heavy Motor Driving		
	3. Welding		
	Source: Table-32 of Record-4		
SHG Activities	SHGs of the village can plan the following activities:		
	1. To generate entrepreneurial awareness		
	2. To organize and form Joint Liability Groups(JLG)		
	3. To involve the villagers in Livelihood Activities collectively.		
	Source: Table-33 of Record-4		
Exposure Trips	The following exposure trips are planned:		
	At least two Exposure tips to Successful JFMC, within Assam and other States.		
	Source: Table-34 of Record-4		
Summary of Action	As attached in next page.		
Plan			
Convergence	The planned initiatives may be converged with the following schemes of the Government of India:		
	(a) National Rural Employment Guarantee Scheme - for rural employment		
	(b) RashtriyaKrishiVikasYojana (RKVY) - for agricultural and allied development		
	(c) RashtriyaKrishiSinchayYojana (RKSY) - for irrigation, including watershed		
	development (d) National Rural Livelihoods Mission		
	(e) Skills Development Programme		
	(f) Help from departments of education, Sericulture, Veterinary, Irrigation, Industrial		
	and Fishery.		
	(g) Other schemes for rural development and livelihoods as found appropriate.		
	The above convergence will yield synergies for the present plan, as well as help in sustaining the planned works in the post-project period.		

5. Forest Development Plan

This Forest Development Plan has been prepared after a detailed PRA exercise at the village level as a part of the Micro-Plan of DhekiajanRajali JFMC. The objective of this plan is to provide for the sustenance of the conservation and bio-diversity values, environmental functions and productive potential of the forests assigned to the JFMC; while meeting the consumption and livelihood needs of the community in a sustainable manner.

1.Status of the JFMC Forests

The micro-plan takes into consideration the following categories of the JFM Forests of the DhekiajanRajali JFMC:

- (a) Forest areas assigned to the JFMC by the Forest Department; and
- (b) Areas planted / to be planted on community lands and other lands outside the notified forest area.

The status of both the above categories of JFMC forests is briefly discussed below.

1.1.Forests & Their Conditions

The details of the status of forest areas assigned to the JFMC have been furnished at Table3.1 under Proforma-3 ('Forest Development Plan'), which has been attached as Annexure to this micro-plan. After considering other areas planted (or to be planted), the conditions of the forests of the DhekiajanRajali JFMC have been summarized below.

Table-1: Conditions of the Forests of DhekiajanRajali JFMC

Identification	Area of JFMC Forest (Ha)	Distance from Village (Km)	Condition of Forest [Good - Forest with crown density of 40% of more Else 'Degraded']	Frequency of Use by Community [2-3 m / 3-6 m / 6-9 m / Over 9 m]
(A) Assigned Forest				
RF / PRF Name: UDRF (EB) Beat Name- Raja Ali	300 Ha	500mtr	Good Area: 250 Ha Degraded Area: 50 Ha	Over 9 m
(B) Other Planted Area (UDRF EastBlock)	50 Ha	Within 100 mtr	Good Area: 10 Ha Degraded Area:10 Ha	Nil
TOTAL	350 Ha		Good Area:260 Ha Degraded Area: 60 Ha	

Source: Proforma-3, Table 3.1 / Discussions with Forest Department personnel & Community members

It is seen that the DhekiajanRajali JFMC has 350 Ha forests assigned to them, of which 260 Ha is 'Good' and 60 Ha 'Degraded'.

1.2. Forest Soil Type

The forests of DhekiajanRajali JFMC are located in in old alluvial soil, (iii) piedmont soils and (iv) red loamy soil. Some salient points of the forest soil type have been given in the following table.

Table-2: Forest Soil Type in DhekiajanRajali JFMC

Parameter	Status in Assigned Forests	Status in Other Planted Areas
Fertility Level	High	High
Soil Erosion Status	No Soil Erosion	No Soil Erosion
Presence of:		
(a) Silt	Nil	Nil

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(b) Mud-flat	Nil	Nil
(c) Newly accreted land	Nil	Nil
(d) Sand dune	Nil	Nil

Source: Proforma-3, 'B. Forest Soil Type' / Discussions with Forest Department personnel & Community members

For the DhekiajanRajali JFMC; the salient points of the forest soil type are summarized below:

- (a) The Red Soil id Fertile in Nature
- (b) No Soil Erosion in the recent past
- (c) No Presence Silt, Mud-flat, newly accreted land or Sand dune

1.3. Existing Composition of Flora

In the forests of the DhekiajanRajali JFMC, the existing composition of the flora has been given as follows. It may be noted that the local forests are classified as Upper Assam Tropical Wet Evergreen Forest.

Table-3: Existing Composition of Flora in the DhekiajanRajali JFMC

Parameter	Local Name(s)	Botanical Name(s)
Major Forest Species	Hollong	Dipterocarpusmacrocarpus
	Hollock	Terminaliamyriocarpa
	Ajar	LagrslroomiaSpeciosa
Associates	Arjun	Terminaliaarjuna
	Udal	SterculiaVillosa
	Simul	Bombaxceiba
	Bakul	Mimusopselengi
	Siris	Albizialebbeck
	Dhuna	Canariumbengalenses
	Sam	Artocarpuschapasha
	Nahar	Mesuaferrca
	Sassi	Aqeilatiaagallecha
GI I	Betibah	Bambusamastersii
Shrubs	Bhekuri	Solanumindicum
	Bajal bah	Pseudostachyumpolymorphum
	Bor-manmani	Centellaasiatica
	Ekra, bata	Sclerostachyafusca (Syn:-Saccharum

Medicinal Plants	Hilikha	Terminaliachebula
	Bhomora, Bahera	Terminaliabelerica
	Thutmala	Garugapinnata
	Dalchini	Cinnamomumzeylanicum
Produces	Bamboo- Jati bah	Bambusa
	Kakobah	Dendrocalamushamiltonii
		tulda
	Bet- Jati bet	Rangi bet
	Lejai bet	CalamusfloribundusCalamusfloribundus
Others, if any	-	-

Source: Proforma-3, 'C. Composition of Existing Fauna & Flora' / Discussions with Forest Department personnel & Community members

2.Other Inputs for the Forest Development Plan

The following sub-sections discuss the other inputs for the Forest Development Plan of the DhekiajanRajali JFMC.

2.1. Past Protection Measures of the JFMC

The measures taken by the DhekiajanRajali JFMC for forest protection in the past have been discussed as follows.

- (a) Number of households involved: 300
- (b) Number of people involved: 1490
- (c) Summary of the measures: There are no such record of \protection measures taken by the members of the JFMC before formation of the JFMC.
- (d) Any formal mechanism: Nil

[Source:Discussions with Forest Department personnel & JFMC members]

2.2.Domestic Requirements of Forest Produce

The dependency of the local community on forest produce for household requirements is available in the table given at below.

Table-4 (A): Domestic Requirement of Forest Produce per Household of the DhekiajanRajali JFMC

Name of Forest Produce	8		How met at Present	Source
	Frequency of Requirement	Approx. Qty/year		
Firewood	100%	550 kg to 730 kg	Cutting poles & Branches of trees	Reserved Forest Area
Timber for House (pole size)	60%	4 to 5 numbers	Do	Do
Small timber for Implements	100%	0.3 m3 to 0.45 m3	Do	Do
Bamboo	60% to 70%	50 to 60 numbers	Cutting of culms	Do
Fodder from Forest	100%	2190 kg	Cutting of grass, leaves and straying of cattle	Do
NTFP	100%	182 to 200 kg	Collecting manually	Do
Other				

Source: Discussions with Forest Department personnel & Community members

There are 300 households in the DhekiajanRajali JFMC. From the above table and this number of households, it is inferred that the total annual requirements of the DhekiajanRajali village for forest produce for own use is as follows:

Table-4 (B): Total Domestic Requirement of Forest Produce - All Households of the DhekiajanRajali JFMC

Name of Forest Produce	Community Requirement (Kg per annum) (*)	Remarks
Firewood	55000 to 73000 kg	The villages use firewood besides LPG @ 1.5 kg to 2 kg per day
Timber for House (Pole size)	240 to 300 numbers	-
Small Timber for Implements	30 to 45 m ³	-
Pole / Bamboo	3000 to 4200 bamboo	Used for Fencing, construction of houses and articles
Fodder from Forest	219000 kg	-
NTFP	18200 kg to 20000 kg	-

Other	-	-
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2.3. Collection & Marketing of Forest Produce by Villagers

Apart from use in the households, the community dependency on forest produces also includes the collection of such items for sale in local markets. The collection and marketing of forest produce by villagers of DhekiajanRajali JFMC is given in the following table.

Table-5 (A): Collection & Marketing of Forest Produce by Villagers of the DhekiajanRajali JFMC

Name of Forest Produce	Collection for M	Collection for Marketing		
	Season / Months	No of Households Collecting	Average Qty. Collected (Kg) / year	Collection
Firewood	Oct to March	10% to 20 %	4800 kg to 9600 kg	Forest
Timber for House	-	-	-	-
Small timber for Implements	-	-	-	-
Bamboo	Oct to March	10%	4800 numbers	Forest Area
Pole	-	-	-	-
Fodder from Forest	-	-	-	-
NTFP	Throughout the Year	40%	480 kg	Forest
Other	-	-	-	-

Source: Discussions with Forest Department personnel & Community members

Table-5 (B): Collection & Marketing of Forest Produce - Additional Information

Name of Forest Produce	Surplus Marketed	How marketed	Average Income per HH from sale of Forest Produce
Firewood	-	-	-
Timber for House	-	-	-
Small timber for Implements	-	-	-
Bamboo	-	-	-
Pole	-	-	-
Fodder from Forest	-	-	-
NTFP	-	-	-

Other	-	-	-
-------	---	---	---

2.4. Total Requirements of Forest Produce - Domestic Use & Marketing

The total requirements of forest produce by the community members of the DhekiajanRajali JFMC have been summarized below - based on the information in the previous sub-sections.

Table-6: Total Requirements of Forest Produce by Villagers of the DhekiajanRajali JFMC

Name of Forest Produce	Community Requirement (Kg per annum) From Table-4(B)	Surplus Marketed (Kg) From Table-5(B)	Total Requirements (Kg)
Firewood	-	-	-
Timber for House	-	-	-
Small timber for Implements	-	-	-
Bamboo	-	-	-
Pole	-	-	-
Fodder from Forest	-	-	-
NTFP	-	-	-
Other	-	-	-

3.Forest Protection Issues

3.1.Protection Problems

The protection issues of the forests of DhekiajanRajali JFMC have been summarized below.

Table-7: Protection Problems of the DhekiajanRajali JFMC

Type of Problem	Relevant (Yes / No)	Significant (Yes / No)
Grazing - Local Animals	Yes	Yes
Grazing - Animals from Other Area	No	No
Illicit Felling of Timber	Yes	No
Smuggling of Timber	No	No
Accidental Fires	No	No
Encroachment of Forest Lands	Yes	No
Others(Poaching of wild animals)	Yes	No

Source: Discussions with Forest Department personnel & Community members

Thus, it is seen that the significant forest protection issues facing the above JFMC are:

(a) Grazing of Local Domestic Animals

3.2. Reasons for Degradation of the Forest

In the DhekiajanRajali JFMC, the reasons for degradation of forest are as follows:

(a) Grazing of Local Domestic Animals

4.Components of the Forest Development Plan

The following sub-sections discuss the main components of the Forest Development Plan of DhekiajanRajali JFMC; viz. the plans for Protection, Forest Improvement (Treatment), Nursery Development, Maintenance and Miscellaneous Operations.

4.1.Protection Plan

The Protection Plan given at below, discusses the measures for the protection of the forests of DhekiajanRajali JFMC from the issues discussed earlier at Sub-section 3.1

Table-8: Protection Plan of the DhekiajanRajaliJFMC

0 0				
Protection Work	Location in	Quantification of	Timing	Priority
[to be filled from Table 3.7 of	Forest Area	the		[High / Medium /
Proforma-3 as applicable]		Measures		Low]
		[Length, Area, Size		
		etc.]		
Social Fencing	UDRF (EB),	Length=	Grazing	High
	GPS Co-	Breath=	Season	
	ordinates	Area=350 hct		
Fire Protection	Nil	Nil	Nil	Nil

Source: Proforma-3, Table-3.7 / Discussions with Forest Department personnel & Community members

Thus, it is seen that the significant protection measures planned to be undertaken in the DhekiajanRajali JFMC (with high / medium priority) are as follows:

- (a) Social Fencing
- (b) Fire Protection

4.2. Types of Operations Proposed

The types of operations proposed for the treatment of degraded areas of the JFMC Forest of DhekiajanRajali JFMC are given hereunder.

Table-9: Types of Operations Proposed in the DhekiajanRajaliJFMC

Treatment	Required (Yes/ No)	Responsibilit y of JFMC (Yes / No)	Month / Year when can be done	Extent of Area proposed for Treatment (Ha)
Restoration of Degraded Forests	Yes	Yes	March- July	50 Ha
Protection to Cut Stumps of Trees	No	No	No	No
Watershed Treatment	No	No	No	No
Water Reservoirs	No	No	No	No
Grass &Silvi-pasture	Yes	Yes	No	10Ha
Bamboo Plantation	No	No	No	No
Seed Sowing	Yes	Yes	April to June	10Ha
Root & Shoot Cutting & Plantation	Yes	Yes	June-July	
Cut Back & Coppice Treatment	No	No	No	No
Physical Fencing	Yes	Yes	November- February	50 Ha
Social Fencing	Yes	Yes	June-July	100 Ha
Other Activities	No	No	No	No

Source: Discussions with Forest Department personnel & Community members

Thus, it is seen that the following are the treatment operations which have been proposed in the forest area of the DhekiajanRajali JFMC:

- (a) Seed Sowing
- (b) Root & Shoot Cutting & Plantation
- (c) Physical Fencing
- (d) Social Fencing

4.3. Forest Improvement Plan - Advance Works & Creation

The pertinent details in the above connection have been tabulated as follows.

Table-10: Forest Improvement Planned in the DhekiajanRajaliJFMC

Treatment	Area in Ha under Plantation Module	Priority for Block Plantation	Species	Spacing (meter x meter)
Assisted Natural Regeneration (with plantation in gap)	20 Ha / year for five year	20 Ha Block of ANR	Holong, Halokh, Azaretc	2m x 2 m
Block Plantation	20 (Fire wood) Ha / Year for five year	20 Ha Block of Fire wood	Maz,	2m x 2 m

Dhekiajan Rajali Joint Forest Management Committee (JFMC), Digboi Forest Division

Plantation of Neem, Amla,	20 Ha / year for	20 Ha Block	2m x 2 m
(Medicinal Plants)	five year	of Medicinal	
		plantation	
Enrichment Plantation	0		
Direct Plantation	0		
Other	0		
TOTAL AREA (in Ha)	60 Ha / year		

Source: Discussions with Forest Department personnel & Community members

4.4. Forest Improvement – (Action Plan Enclosed as annexure-I)

1.1. Nursery Development Plan

The Nursery Development Plan for the DhekiajanRajali JFMC are taken as follows with due consultation of the Committee and Forest Department Personnel.

SL	Particulars	Location	Area	Remarks
1	Central Nursery /	Within the JFMC	3 Ha	400 beds to produe 3 lakhs stump, direct and tall
	people nursery	boundary		planting seedlings; 50 mother beds to produce 2
	for plantation,			lakhs poly pot seedlings with estimated cost of
	free distribution			Rs. 19,91,541.00 (Enclosed as annexure-II)
	on various			
	occasions, sale to			
	earn income of			
	JFMC			
1	Central Nursery /	Within the JFMC	Ha	135 beds to produe 1 lakhs stump, direct and tall
	people nursery	boundary		planting seedlings; 25 mother beds to produce 1
	for plantation,			lakhs poly pot seedlings with estimated cost of
	free distribution			Rs. 17,68,015 (Enclosed as annexure-III)
	on various			
	occasions, sale to			
	earn income of			
	JFMC			

1.2 Nursery Action Plan

Nursery Action Plan for DhekiajanRajali JFMC

SL	Particulars	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
		Rs	Rs	Rs	Rs	Rs
1	3 Ha Nursery (Cr + Maint.)	0	19,91,541.00			
	Maint. (60% of Cr.)	0		11,94,925.00	11,94,925.00	So on if it is continued
2	1 Ha Nursery (Cr + Maint.)		17,68,015.00			
	Maint. (60% of Cr.)			10,60,809.00	10,60,809.00	Do

1.2. Maintenance Plan - 10 Years (As stated above in action plan of plantation)

2. Expected Benefits

This sub-section furnishes the benefits expected from the forests protected by members of the BalijanMilijuli, as well as the sharing mechanism for the usufruct benefits.

2.1. Expected Benefits Related to Wood & Grass

The above has been tabulated below for the DhekiajanRajali JFMC. The benefits are expected from the forests protected by its members under this Forest Development Plan.

Table-14: Expected Benefits from Forests Protected by Members of DhekiajanRajali JFMC

Item	Month	Year	Quantity
		(Indicative)	
Firewood	Throughout the	2026-27	
	year	onwards	
Timber for House	Throughout the	2040 Onwards	
	year		
Small timber for Implements	-	-	
Bamboo	Throughout the	2030 Onwards	
	year		
Pole	-	-	
Fodder from Forest Trees & Grass	Throughout the	2026-27	
	year	onwards	
NTFP	Throughout the	2035 onwards	
	year		
Wages	Throughout the	2016-17	
	year	onwards	
Other	-	-	

Source: Discussions with Forest Department personnel & Community members

2.2. Sharing Mechanisms

The sharing mechanism for the benefits is indicated below for members of the DhekiajanRajali JFMC.

Table-15: Sharing Mechanism for DhekiajanRajali JFMC

Method	Items
To be shared equally	NTFP
To be freely collected by the members	Firewood,
Other Methods	Processing of NTFPs

Source: Discussions with Forest Department personnel & Community

6. List of Appendices

Appendix No	Heading
1	Maps Village Map Village Social Map Village Resources Map
2	Land Use Map of Village (GIS)
3	PRA Exercise
	Social Mapping Wealth Ranking Time Line review Seasonality of Livelihoods Venn Diagram Chapatti Diagram Priority Ranking- Potential Livelihoods and EPA
4	Photographs
5	List of JFMC Members
6	Filled Up Tables (Proforma-1 to Proforma-4) Table Nos. 1-37

Appendix 1

HOW TO REACH

Digboi to Guwahati distance, location, road map and direction:

Digboi is located in Assam, India at the longitude of 95.61 and latitude of 27.4. Guwahati is located in Assam, India at the longitude of 91.75 and latitude of 26.19.

Distance between Digboi and Guwahati:

The total straight line distance between Digboi and Guwahati is 503 KM. This is a straight line distance and so most of the time the actual travel distance between Digboi and Guwahati may be higher or vary due to curvature of the road.

Digboi to Guwahati Travel Time:

Digboi is located around 503 KM away from Guwahati so if you travel at the consistent speed of 50 KM per hour you can reach Guwahati in 11 hours. The Guwahati travel time may vary due to the bus speed, train speed or depending upon the vehicle use.

Digboi to Guwahati Bus:

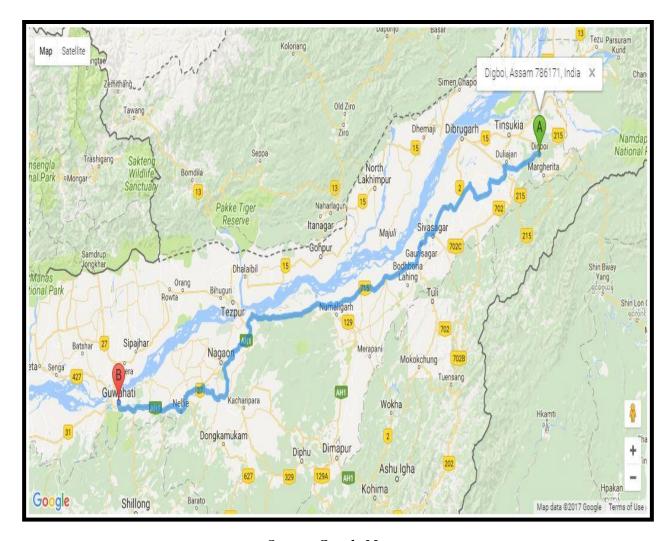
Bus timings from Digboi to Guwahati are around 6.77 hours when bus maintains an average speed of 60 KM per hour over the course of journey. The estimated travel time from Digboi to Guwahati by bus may vary or it will take more time than the above mentioned time due to the road condition and different travel route.

Bus fare from Digboi to Guwahati may be around Rs.550/-(approx).

Digboi to Guwahati Road Map:

Digboi is located nearly east side to Guwahati. The given east direction from Digboi is only approximate. The given Google map shows the direction in which the blue color line indicates road connectivity to Guwahati. In the travel map towards Guwahati you may find enrooted hotels, tourist spots, picnic spots, petrol pumps and various religious places. The given Google map shows the travel road map of Digboi to Guwahati.

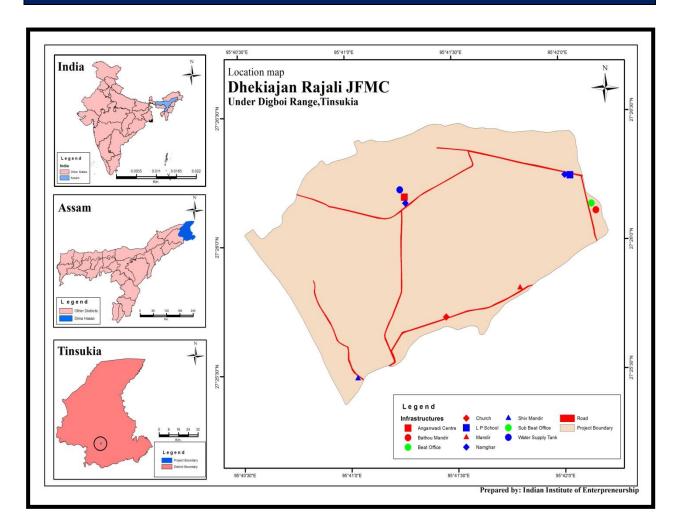
Dhekiajan Rajali Joint Forest Management Committee (JFMC), Digboi Forest Division

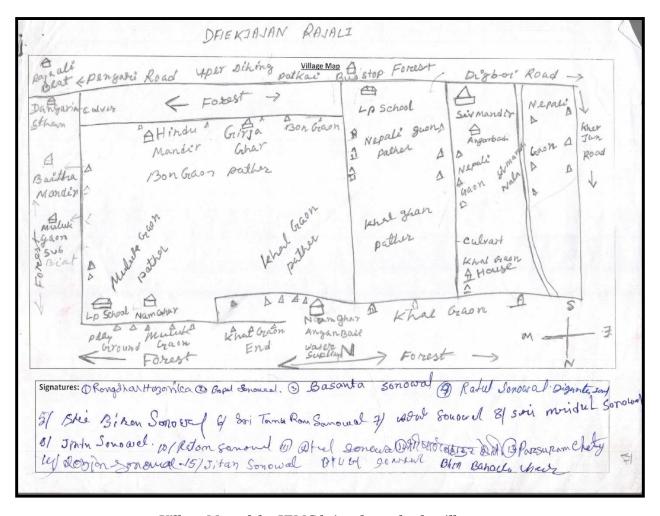


Source: Google Maps

Appendix 1

Location Map





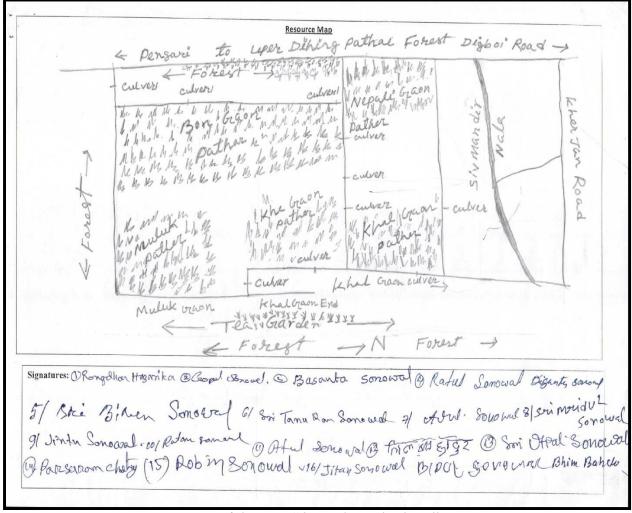
Village Map of the JFMC being drawn by the villagers

Village Social Map

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Village Social Map of the JFMC being drawn by the villagers

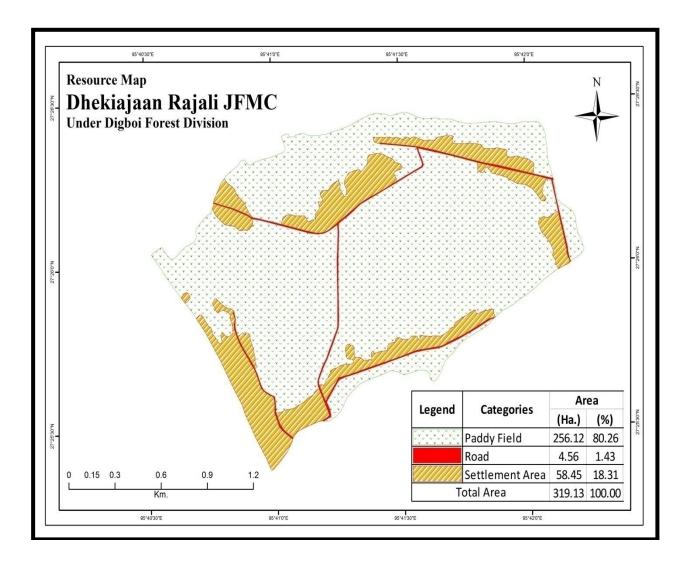
Resource Map



Resource Map of the JFMC being drawn by the village

Appendix 2

Land Use Map/ Resource Map of the JFMC (GIS)



Appendix 3

PRA ACTIVITY

Location and Timing of Participatory Rural Appraisal:

Numbers of participants	30
Time	11:30 am, 23 rd April, 2017
Venue	LP School (DhekiajanKhalgaon Village)

Table – 3.1Brief about the villages under DhekiajanRajali JFMC

Sl. No.	Name of Village	Households (No.)	Population (No.)		
			Total	Male	Female
1.	MolokGaon	60	300	175	125
2.	KhalGaon	125	600	350	250
3.	Nepali Gaon	60	300	180	120
4.	ChristanBasti	55	290	150	140

Source: Field Survey

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) Chapatti diagram

3.1 Social Mapping:

Social mapping is used to visualize the socio-economic aspects of the DhekiajanRajali JFMC where the land holding patterns of the households, the numbers of schools, social infrastructure, and religious beliefs among households. Awareness among the villagers was carried out by the field teams; in order infuse the self-consciousness for protection and enhancement of the forest areas. People from all the households of the village gathered for the PRA process, which was conducted in the community hall of the village. The PRA process marked with enthusiasm and active participation from all people present.

The social and resource mapping process, was undertaken with the help of the villagers in identifying and marking the villagers. Villagers voluntarily came out to draw the maps. All the villagers spotted their households in the map. After the mapping process the team members collected the information about the pattern of their dwelling namely pucca, semi pucca, and tin roof thatch house.

Table 3.2: Information about the DhekiajanRajali Village

	Details	Numbers
	Total population	1490
	Male	855
	Female	635
	Total households	300
	Pucca House(Nos.)	30
Social Information	Semi-Pucca House(Nos.)	50
	Tin Roof Kuccha House (Nos.)	220
	Rivelute (Nos.)	1
	PHC(Nos.)	1
	Community hall(Nos.)	0
	Tube Wells(Nos.)	240

Source: - Field survey report.

Findings of social map:

- The participants of social mapping have identified all 300 households out of which 8 households have pucca house; 13 households have semi pucca house, and 26 households have Kuccha house with Tin Roof.
- Other than the class based division of the households, important places like community hall, schools, and playground, Tube well, PHC, Namgarh, and Church are mapped.
- Main sources of water for the villagers are the hand pump. The water from hand-pumps are used for day to day purposes. The agricultural land of the village is rain-fed.
- The primary education facility is available in the village which includes a L.P. School and 2 Anganwadi Centre.
- There is not any community hall available in the village.
- Majority of the people belong to the Sonowal community and are of schedule tribe caste. There is also peoples who belong to the Christian community. The religion of the villagers is Hindu and Christian.

Learnings:

- ➤ Electricity is available in 300 homes of the DhekiajanRajali Village. There is LPG gas connections in 105 homes. The 195 households still dependent on forest and use firewood for their cooking purposes. They used to go to the forest for collecting the firewood, which includes branches and snags. Occasionally, villagers cut down trees from the forest, for their personal use which is a concern for forest department as it is leading to degradation for the forest.
- The one LP school and two Anganwari school are located inside the JFMC area. Primary Health Centre, Post Office, Bank, Police Station and Railway Station is located in outside of the JFMC accordingly at Dhekiajan and Digboi which is 13 km, 4km away from the JFMC area. High schools and ME Schools are located outside the JFMC area in Kherjan which is 4 KM away from the JFMC.
- There is not any community hall in the village. Therefore villagers have to face much trouble during the time of organizing any social functions and official meetings.

- The availability of fodder for domestic animals depends on the resource available in the forest area and the capacity of the household who can rear the livestock's. The DhekiajanRajali Village is fully dependent on crop residue, trees fodder, grasses, and green fodder. Field residues are materials left in an agricultural field after the crop has been harvested. These residues include stalks and stubble (stems), leaves, and seed pods.
- There are some grazing fields where villagers use for their cattle rearing. These fields are available for a maximum of six months. Seasonal grazing incorporates "grazing animals on a particular area allows the land that is not being grazed to rest and allow for new forage to grow.
- The villagers of the DhekiajanRajali JFMC have to go Tingrai, a distance covered with 15 km, for their weekly marketing activity.

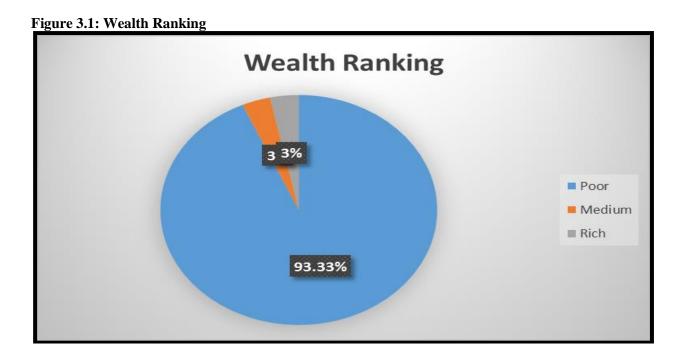
3.2 Wealth Ranking

Wealth ranking contains community members identifying and analysing the different wealth groups in a community. It allows us to evaluate various socio-economic stratification of project beneficiaries and local people's classifications and thought of wealth/well-being.

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

- a) Land holding
- b) Occupation
- c) BPL holders

As such about 93.33% people are poor, about 3.33% belong to middle class and about 3.33% are considered to be rich. Poor people are mainly irregular wage earners and marginal farmers.



Source: - Field survey report.

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.

Table 3.3: Timeline review

Year	Event	Туре
1958	Established a LP School at MulokGaonPathar	Constructive
1991	Operation Bajrang was launched by Govt in the village	Constructive
1993	One person was killed by the Indian Army of MolukGaon	Destructive
1996	Another village person named NipenSonowal was killed by the	Destructive
	Indian Army	
2004	First Army Camp was setup by the Govt at Molukgaon	Constructive
2015	One person was killed by the Elephant	Destructive
2015	JFMC was formed	Constructive
2016	Militancy ambush was took place	Destructive

Source: - Field survey report.

The DhekiajanRajali Village has a history behind as the village has gone through many Army operations and militancy ambush. During that period the village peoples are harassed by the army and many innocent villagers are also killed.

In the year 2004 the first Army camp was setup by the govt in the village Molukgaon.

During the year 2015 with the establishment of the JFMC there is a major impact in the JFMC for prevented the illegal activities and promoted conservation of the forest and it take along awareness among the villager how it is very important to protect the forest for seek of their next generation and it help in the progress of the concerned project. The JFMC has undertaken various plantation initiatives in the past years in regenerating of forest area.

Learning:

- The villagers are aware of the fact that cutting down of the trees lead to the less down the number of animals in the forest which indicates the forest preserving awareness of the people.
- From the discussion with the villagers it was noticed that people are now become aware about the conservation of the forestry, we can say that after the formation of the JFMC they are also engaged in plantation process.

3.4 Seasonal Mapping of Livelihood Activities

Seasonal calendars drawn by the local people are very useful means of generating information about seasonal leanings within the community and identifying periods of particular anxiety 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, Tea, Radish, Pumkin, Brinjal, Mustard etc. The FGD conducted revealed that other major livelihood options available in the JFMC are Livestock rearing (poultry, Piggery), Weaving, Tailoring, Driving, Welding etc. which are not seasonal in nature but is showed in the seasonal mapping.

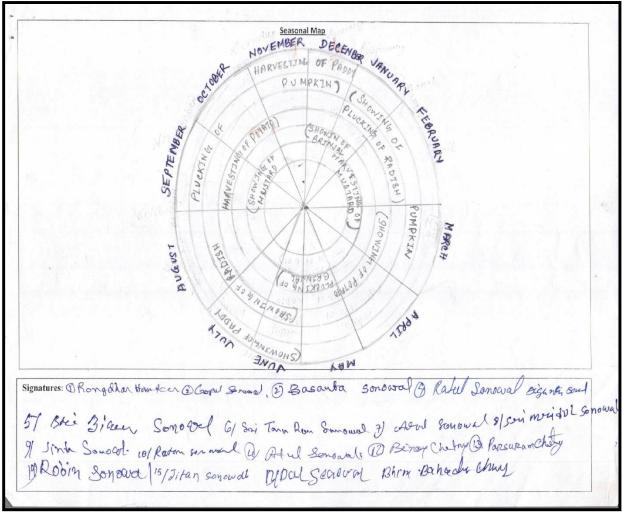
Table 3.4 Seasonal cropping pattern of the JFMC

Categories	Time of Activity				
Farming		Sowing	Harvesting	Plucking	
	Sali	June- July	Nov- Dec		
	Radish	June-Aug		Jan-Feb	
	Pumpkin	Jan-March		Sept-Dec	
	Potato	March-April	Sept-Oct		
	Brinjal	Dec-Jan		May-June	
Non- farming	Weaving				
	Livestock				
	Rearing	Throughout the year			
	Daily Wage				
	Earning				
	Tailoring				

Source: - Field survey report.

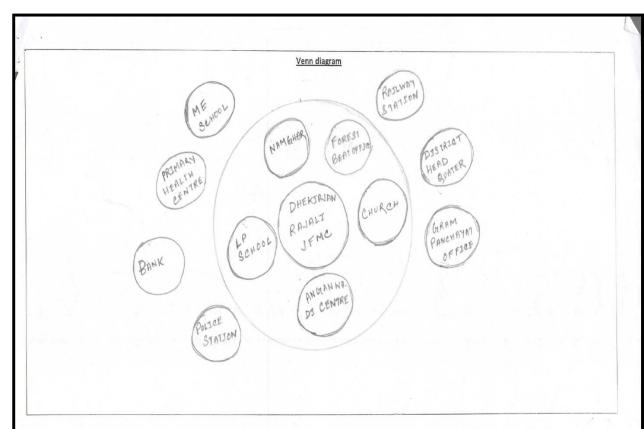
Learning's:

• Water availability is less during the period October to March, so agricultural productivity becomes less in this period.



Seasonal Map being drawn by the JFMC people

Venn diagram



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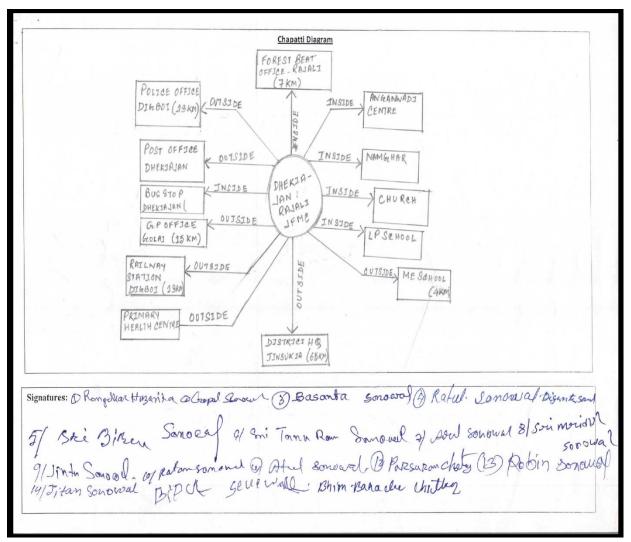
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ChapattiDiagram



Chapatti Diagram being drawn by the JFMC people

Priority Rankings: Potential Livelihoods and PRA

V		wearing	Rulemen	Bulving	Nederny	Agricultur					Marks	Rank
Livelihood Activit	ies	N WE	B B	Q C	D	E	F	G	Н	I		
Weaving	A	X	A.	A	Α.	A					4	1
Tailo rienz	В	9 7 3	X	B	B	0	14.4 %			4	3	2
Duiving	С			X	C	C					2	3
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Appendix 4

Photographs





Awareness cum PRA Photos

	Dhekiajan Rajali Joint Forest Management Committee (JFMC), Digboi Forest Division
Page	41

Appendix 6 (Record I)

Table 1: Basic data of the village:

Table 1: Basic data of the JFMC

	SI no
DhekiajanRajali	Name of the JFMC
2015	Date Of Establishment
10	Name of Members in executive committee
Sri DigantaSonowal	Name of the President
Miss Parineeta Singh	Name of the secretary
	Money in VDF
	Contribution per family/per person
	Social fencing used Yes/No
	Remarks on special attainment
	Grading % of success by RFO

Source: - Field survey report.

Table 2: Village wise population data:

Table -2.1: Demographic status of the project villages

Name of	No. of		SC		ST		OBC		General	Total- all
Village	House Hold	Ma le	Fema le	Male	Female	Male	Female	Male	Female	category
DhekiajanRajali	60			175	125					300
Khalgaon	125			350	250					600
Nepaligaon	60					180	120			300
Christianbasti	55					150	140			290

Source: Field Survey Report

Table -2.2: Age Profile of the population

Age Classification	Below-14	Between 15-30	Between 31-45	Between 46-60	Above-60	Total
Male	65	470	160	100	60	855
Female	60	325	140	78	32	635

Table 3: Village wise farmer category on the basis of land holding

Table 3: Village wise farmer category on the basis of land holding

Sl No	Name of the village	Type of famer according to land holding						
		Large farmer >10 ha.	small farmer 2-10 ha.	Marginal farmer (household) <2ha.	Land less (household)	Total		
1	DhekiajanRajali	-	-	60	-	60		
2	Khalgaon	-	-	125	-	125		
3	Nepaligaon	-	-	60	-	60		
4	Christianbasti	-	-	55	-	55		

Source: Field Survey Report

Table 4: Cattle Population

Table 4: Cattle Population of the JFMC

Sl	Name Of The Village	Village Wise No Of Cattles Or Type Of Animal						
No		Cows	Goat	Bulls	Total			
1	DhekiajanRajali	120	80	80	280			
2	Khalgaon	135	60	60	255			
3	Nepaligaon	80	60	30	170			
4	Christianbasti	20	30	30	80			

Table 5: Village wise Infrastructure

Table 5 Showing village wise infrastructure

Tuete e Site wing village wise injugion wetting							
Sl No	Infrastructure	Location	Distance from village				
1	Electricity		-				
2	Gas connection						
3	Transport						
4	PHE	Kherjan	4km				
5	LP school	Inside	-				
6	High school	Kherjan	4				
7	Bank	Digboi	13km				
8	Anganawadicentre	Inside	-				

Dhekiajan Rajali Joint Forest Management Committee (JFMC), Digboi Forest Division

9	Police station	Digboi	13km
10	Forest Office	Rajali	7km
11	Post office		
12	Bus facility		
13	Railway Station	Digboi	13km
14	District head quarter	Tinsukia	65km

Source: Field Survey Report

Table 6: Agricultural crops

Table 6: Agriculture Crops

	Rain Fed	Irrigation		
Type of Crop	Name of the crop	Area (in ha.)	Name of the crop	Area (in hac)
Kharif	Paddy (Aijong, Pankaj, Sali ,Ranjit)	256	-	-
Rabi	Radish, Pumpkin, Potato, Brinjal	13	-	-
Others	Tea	50	-	-

Source: Field Survey Report

Table 7: Crop production profile

Table 7 Crop production profile of JFMC

Type of crop	Total Production (approx) in Quintals	No of household growing	Average production (Quintals / hac) approx.	Area under crop (hac) approx
Paddy	2100q	250	8.4	256
Vegetable	2,090q	190	11.0	13
Tea	9,150q	150	61.36	50

Source: Field Survey Report

Table 7: Fodder Availability

Table 8: fodder availability of the JFMC

Types	1-3 month	3-6 month	>6 month	
Crop residue		✓		
Trees fodder	✓	✓	✓	
Grasses	√	√	√	
Green Fodder			✓	
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 kilometer
Grocery Shop/PDS centre	Inside	2km
Weekly Market	Tingrai	7km
Major Market	Digboi	13km

Source: Field Survey Report

Table 10: Water Resources Facility:

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

Water source	Number	Availability of water	uses
Tube well	240	Adequacy	Drinking, bathing
River/Nala	1	Seasonality	Bathing

Source: Field Survey Report

Table 11: Energy consumption:

Table 11: Showing the Energy Consumption of the JFMC

Type of Fuel	Number of household depending	Number of months dependent	Sources (local, village, forest, other sources)	Major/ Secondary
Fuel wood	195НН	12 month	Forest	Major
LPG	105HH	12 month	Pvt	Secondary

Source: Field Survey Report

Table 11 (A): Education Status

Sl No	Categories	Number
1	Up to ME	470
2	Class VIII to class X	503
3	Class X to XII	375
4	Graduate	82
6	Illiterate	60

Record II: LIVELIHOOD OPPORTUNITY ANALYSIS

Table 12: Agriculture and Horticulture:

Table 12: showing the agricultural and horticultural status

	Reason	Programme	
	ACUSUII	Opportunities	1108141111110
Low Production	 Lack of proper knowledge about cultivation Traditional way of cultivation. Very insignificant use of fertilizers and other pesticides, insecticides. Non availibity of irrigation facilities. Unavailability of agricultural infrastructure, modern tools and equipment's. Unaware about use of high yielding seeds. 	 Giving proper training on agriculture. Agriculture is a culture of Assamese people. Proper training can give them knowledge about modern techniques. Application of pesticides and insecticides in a scientific way. Introduction of modern technologies. Introduction of organic Cultivation. Usage of high yielding seed programme. 	
Storage and Production	 Lack of awareness about preservation system. Unavailability of storing place 	 It will help in preserving the unsold products for a longer period of time. They can store their products without facing any damaging and sell it when there is a higher demand in market. 	
Marketing	 Presence of middleman for which they didn't setup any contact with the direct market. Transportation system is very poor. No knowledge on marketing know-how, dependence on traditional system of selling. 	 Proper road connectivity facility will help them to carry their products to the nearby markets. Generating suitable market price by removing middle men. More knowledge about the current market situation as well as the current value of their products. They can sell their products outside of the state by introducing exporting system. 	

Table 13: Livestock

Table 13 Livestock

Constraints	Reasons	Opportunities	Programme
Less grazing land	Not Applicable	-	-
Availability of fodder	 Unable to buy fodder from market due to poor financial condition Trees fodder n crop residue is available only for 3-6 months. Green fodder is also not available for the whole year. 	 Higher income from livestock rearing. The villagers can make it as an alternative livelihood opportunity if they have the easy access of livestock fodder. 	
Veterinary care facility	 No veterinary care clinic Lack of knowledge about the proper rearing of live stock 	 Disease control Increases the life span of cattle. 	

Table 14: NWFP

Table 14 NWFP

Constraints	Reasons	Opportunities	Programme
Less collection	Less availability of NWFP	Availability of fertile fallow land	
Unsustainable extraction	-	Availability of fertile fallow land	
Low rates	-	-	
Value addition	 No processing units Non availability of required resources No technical knowhow 	-	
Credit Facilities	 No linkage with the banks or post office saving banks. Unaware of the development schemes of banks and government 	Financial assistance by the Govt.Providing easy access to credit.	
Product Diversification	 No Product Diversification or New Product Development. Lack of concept for product diversification. 	Developing Demand Based Products, as per the needs of the modern day market.	

DhekiajanRajali Joint Forest Management Committee (JFMC) Digboi Forest Division

Table 15: Credit facility

Table 15 Credit facility

Constraints	Reason	Opportunities	Programme
Indebtness	No Access to organized lending source	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 No knowledge of documentation	Start-ups entrepreneurial venture	
Mortgage difficulty	Unavailability of proper documentation of mortgaged property.	Proper awareness about documentation in the area	



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